

# DoD Consolidated Influenza Surveillance Report

Week 09 (23 February 2020— 29 February 2020)



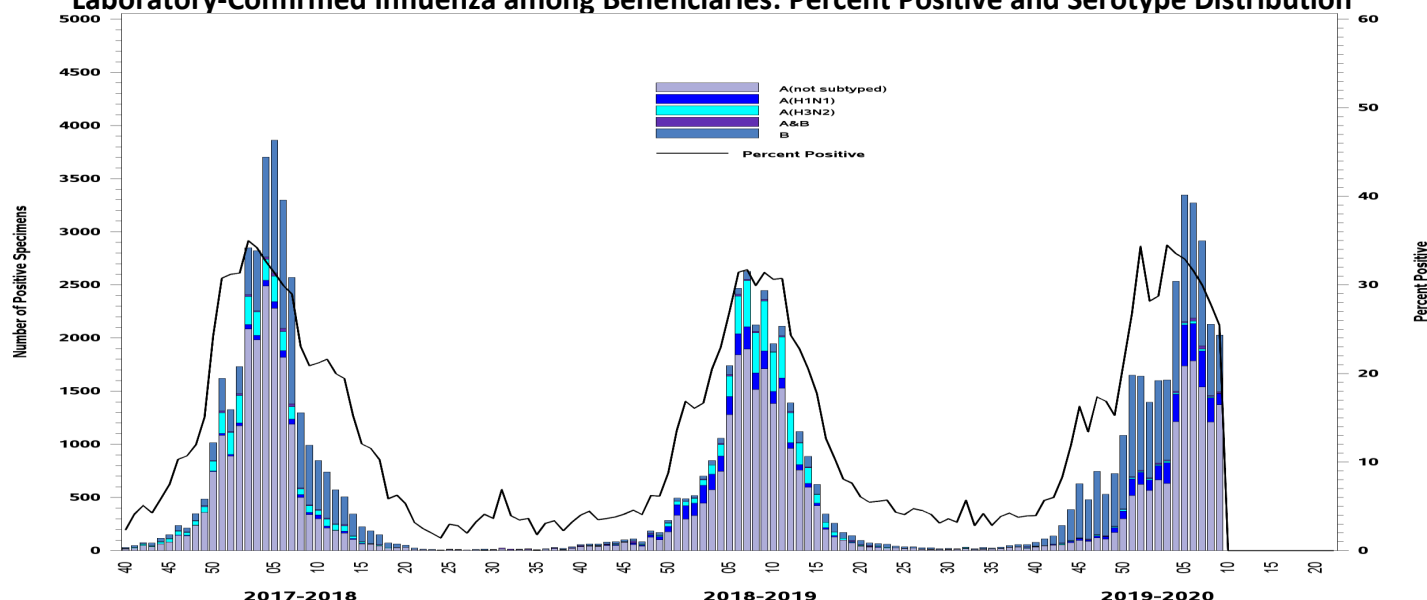
## One Page Summary: Weekly Highlights

- Among all beneficiaries, laboratory-confirmed influenza cases and dispensed antiviral prescription counts continued to decrease. Inpatient counts among all beneficiaries increased, but remained at a normal activity level.
- Among active component Service Members, laboratory-confirmed influenza cases and antiviral prescriptions increased slightly. Laboratory-confirmed cases were elevated and ILI activity was high.
- Fifteen installations had high ILI activity. (increase)
- Influenza A accounted for just over half of the positive specimens in NORTHCOM. Influenza A continued to predominate in all other combatant commands with data; influenza A(H1N1) predominating among subtyped specimens.
- Twenty new laboratory-confirmed influenza hospitalizations were reported for week 09 (Season total: 201).

## Influenza Surveillance Indicators (2019-2020 season)

All Beneficiaries	Total Per Week		Trend	Activity Level
Laboratory Cases	2044		▼	Normal
Dispensed Antivirals	2779		▼	Normal
Severity				Activity Level
Inpatient Laboratory Cases	20		▲	Normal
Inpatient Dispensed Antivirals	50		▼	Low
Active Component				Activity Level
Laboratory Cases	543		◀▶	Elevated
Dispensed Antivirals	644		◀▶	Low
ILI Outpatient Visits	3%		◀▶	High

## Laboratory-Confirmed Influenza among Beneficiaries: Percent Positive and Serotype Distribution

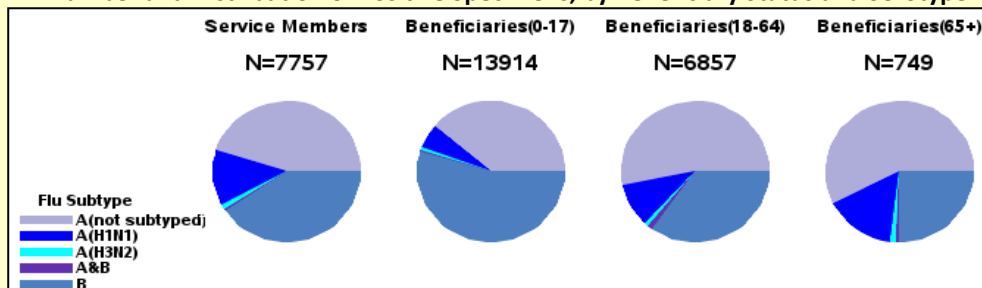


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# Laboratory-Confirmed Influenza (2019-2020 Season: Week 09)

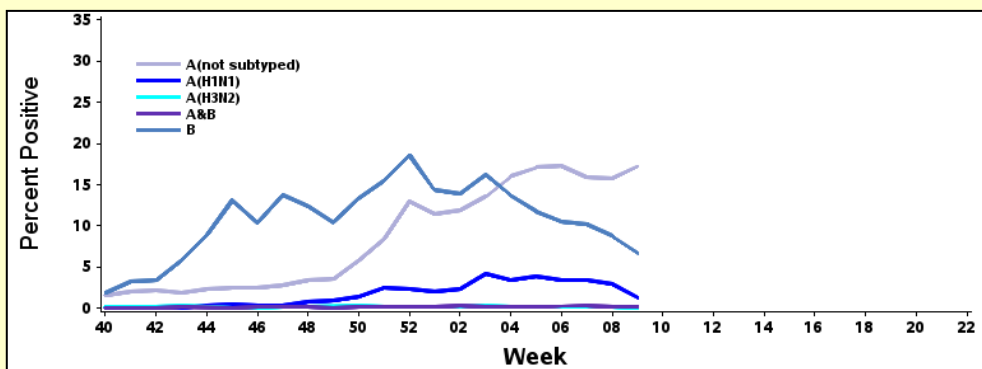
- Children continued to have the highest number of laboratory-confirmed influenza positive specimens at 13,914; Service Members continued to have the second highest count at 7,757.

Number and Distribution of Positive Specimens, by Beneficiary Status and Serotype



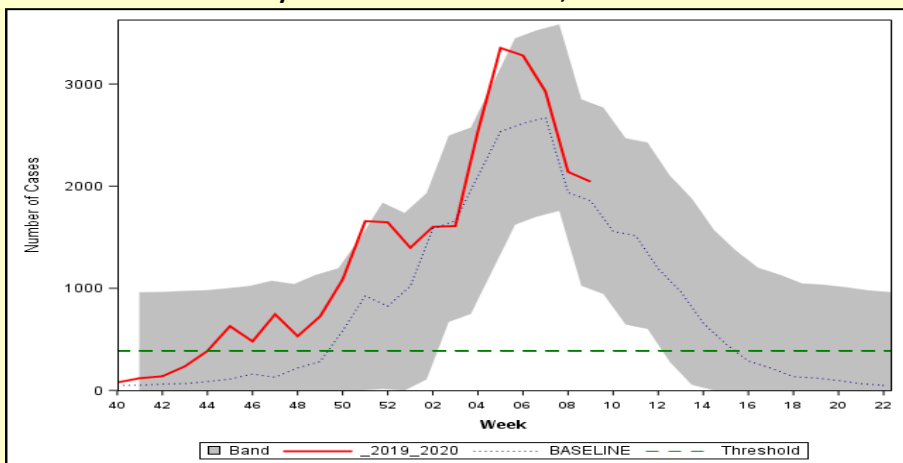
- The largest proportion of positive specimens continued to be Influenza A, with influenza B declining since week 04 among all beneficiaries.

Percent of Specimens Positive for Influenza by Serotype



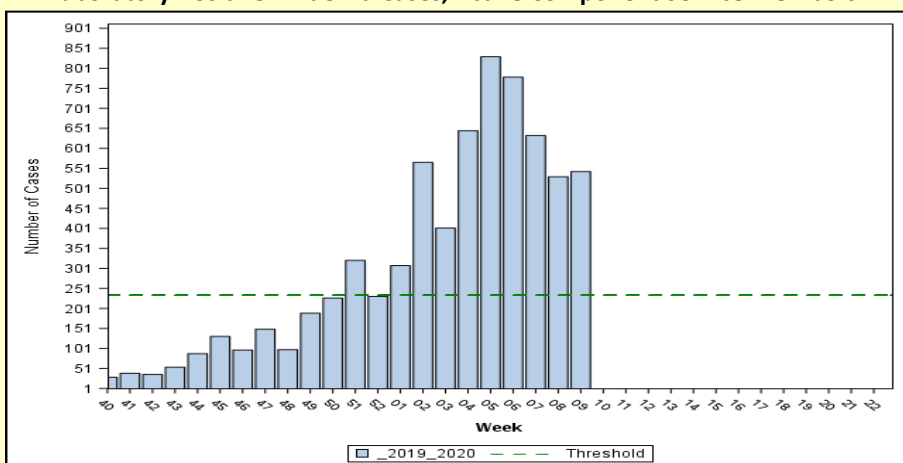
- The number of laboratory-confirmed cases among all beneficiaries continued to decrease, but was higher than the weekly baseline and was well above the threshold.
- Band indicates one standard deviation above and below seasonal baseline estimates. Threshold indicates two standard deviations above off-season average.

Laboratory-Positive Influenza Cases, All Beneficiaries



- The number of active component Service Member laboratory-confirmed cases increased slightly and remained well above the threshold.
- Threshold indicates two standard deviations above seasonal baseline estimates.

Laboratory-Positive Influenza Cases, Active Component Service Members



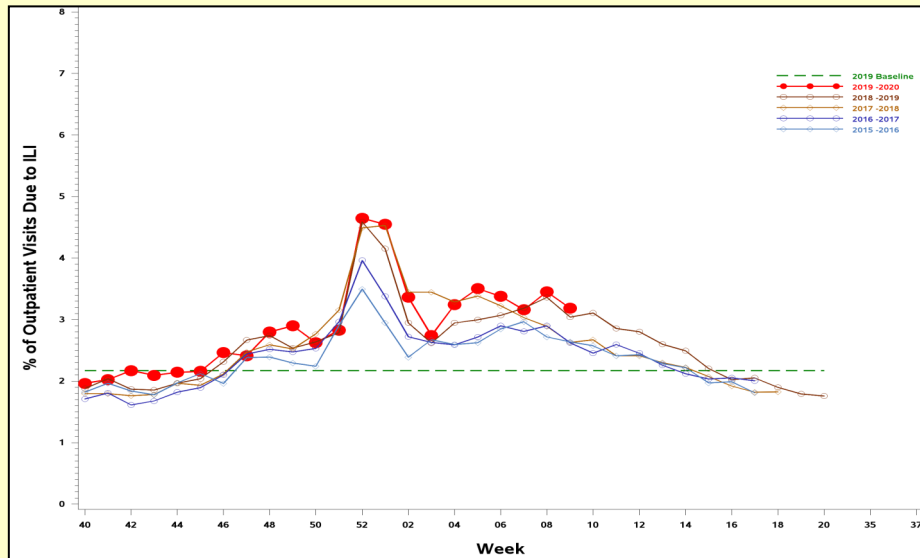
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# ILI and Dispensed Antiviral Prescriptions (2019-2020 Season: Week 09)

## Percent of Outpatient Visits Due to ILI:

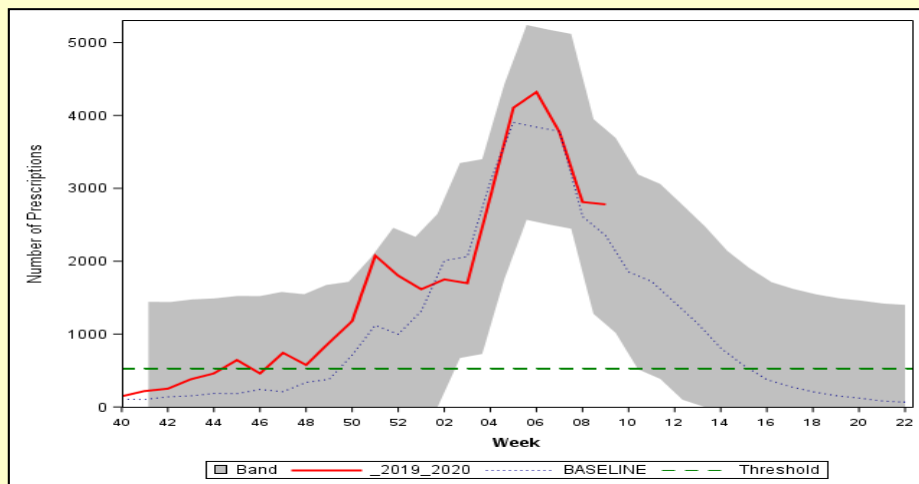
Service Members, 2015-2016 to 2019-2020 Seasons

- The percent of outpatient visits due to ILI among Service Members decreased, but remained above baseline. Percents continued to track with the 2018-2019 season.



## Influenza-Specific Dispensed Antiviral Prescriptions, All Beneficiaries

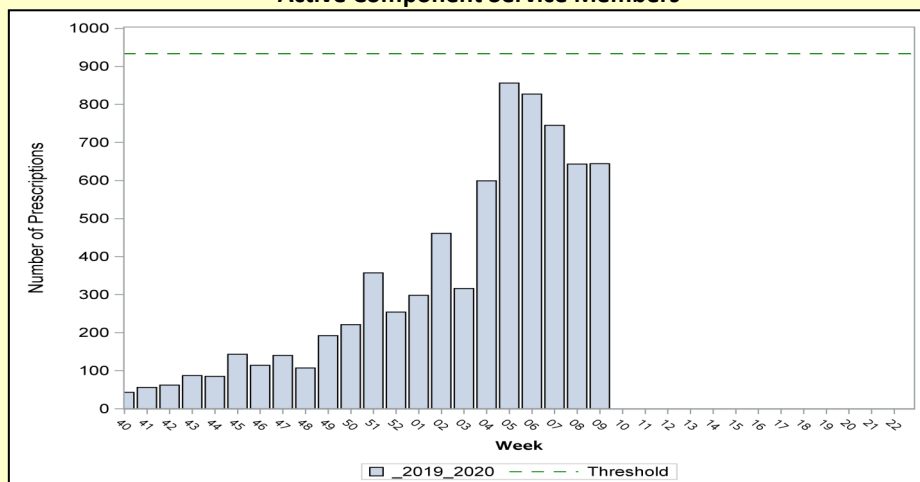
- Dispensed antiviral prescriptions among all beneficiaries continued to decrease, but were higher than the weekly baseline and the threshold.
- Band indicates one standard deviation above and below seasonal baseline estimates. Threshold indicates two standard deviations above off-season average.



## Influenza-Specific Dispensed Antiviral Prescriptions:

Active Component Service Members

- Dispensed antiviral prescriptions among active component Service Members increased slightly and remained high for the season.
- Threshold indicates two standard deviation above the overall weighted average during the season.

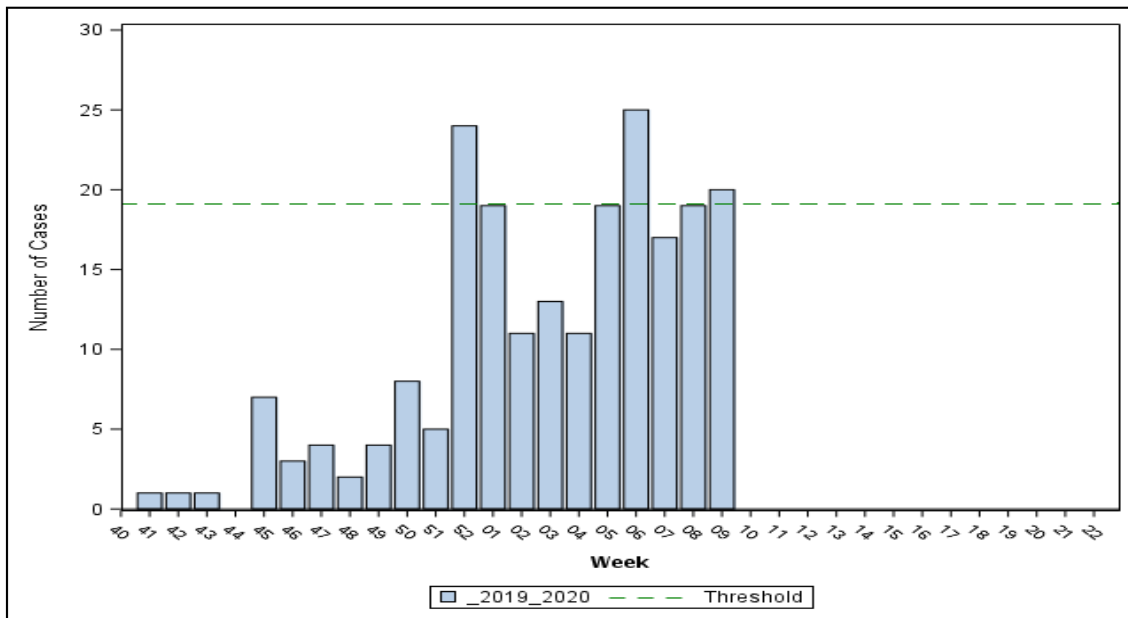


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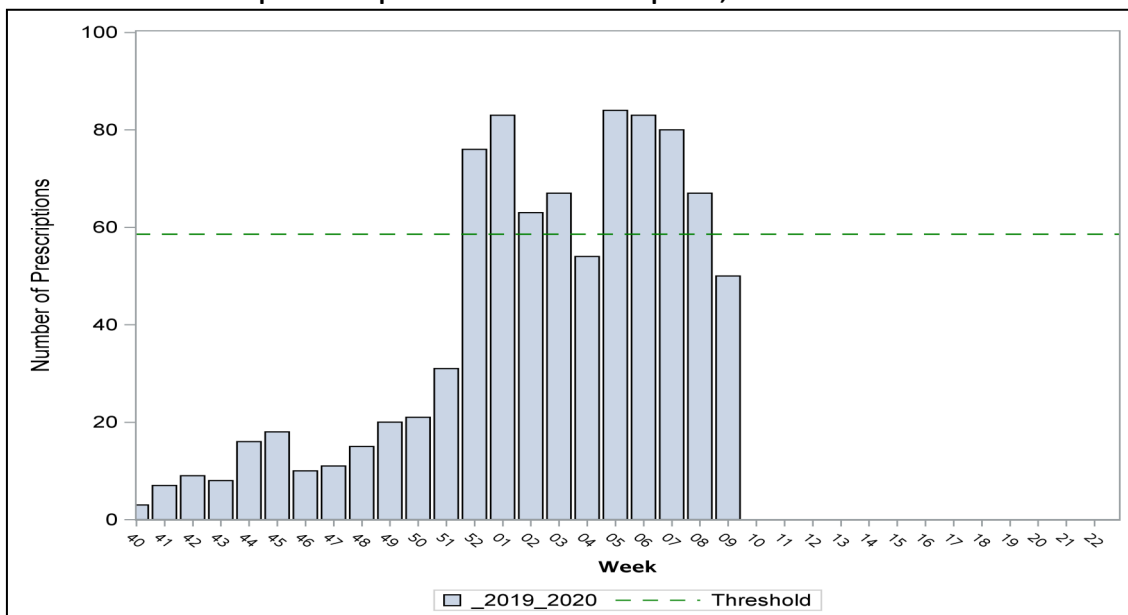
# Severity: Hospitalized Influenza Metrics (2019-2020 Season: Week 09)

- Twenty new laboratory-confirmed influenza hospitalizations were reported for week 09; 5 Service Members (SM) and 15 other beneficiaries (BN)
  - Six influenza A (H1N1): JB San Antonio (1 BN), Ft. Hood (1 SM/3 BN), and NMC Portsmouth (1 SM)
  - One influenza A(H3N2): Landstuhl RMC in Germany (BN)
  - Six influenza A (not subtyped): Camp Lejeune (1 SM/1 BN), WRNMMC (1 BN), JB San Antonio (1 BN), Ft. Belvoir (1 SM), and Ft. Hood (1 BN)
  - Four influenza B: NMC San Diego (1 BN), Nellis AFB (1 BN), JB San Antonio (1 BN), JB Langley-Eustis (1 BN)
- There have been 201 laboratory-confirmed influenza hospitalizations this season (22 SM / 179 BN)
- The number of inpatient dispensed antiviral prescriptions decreased, but remained just above the threshold.
- Thresholds indicates one standard deviation above the overall weighted average during the season.

**Hospitalized Laboratory-Positive Influenza Cases, All Beneficiaries**



**Inpatient Dispensed Antivirals Prescriptions, All Beneficiaries**



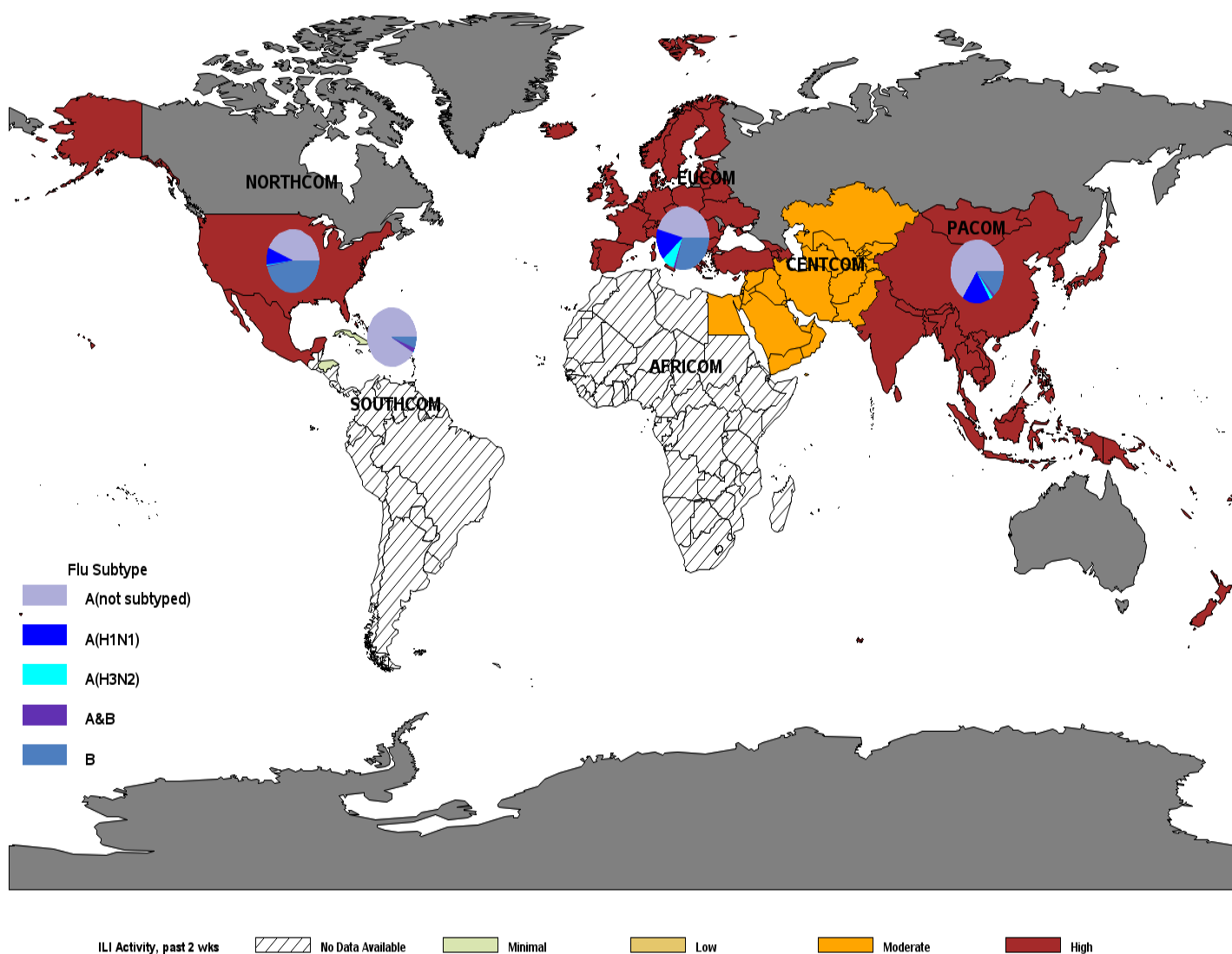
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# Influenza Activity: Geographic Combatant Command

(2019-2020 Season: Week 09)

- **NORTHCOM:** ILI activity remained high. Influenza A accounted for just over half of the positive specimens. Among subtyped influenza A specimens, A(H1N1) has predominated.
- **EUCOM:** ILI activity increased to high. Among positive specimens, the majority continued to be influenza A.
- **INDOPACOM:** ILI activity increased to high. The majority of positive specimens continued to be influenza A. Among subtyped influenza A specimens, the majority were A(H1N1).
- **SOUTHCOM:** ILI activity remained minimal. The majority of specimens continued to be influenza A (not subtyped).
- **CENTCOM:** ILI activity remained moderate.

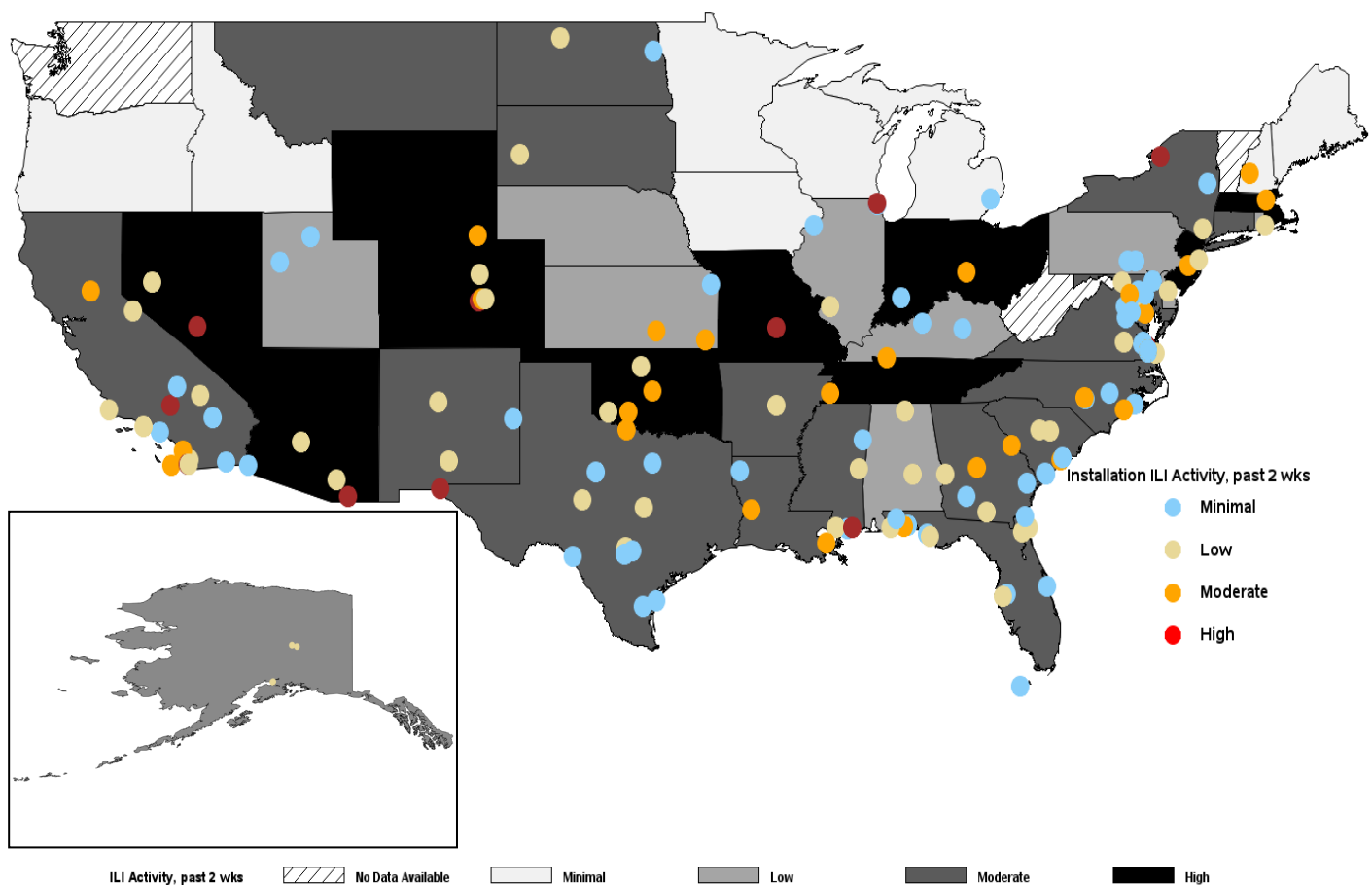
## ILI Activity (Service Members) and Laboratory-Confirmed Influenza (All Beneficiaries)



\*Locations colored in dark gray have no Service Member medical encounter data.

# Influenza Activity: NORTHCOM (2019-2020 Season: Week 09)

- The majority of installations had minimal to low ILI activity. However, 35 installations had moderate ILI activity and 15 installations had high ILI activity.
- At the state level, ILI activity remained similar to last week and was low to moderate for the majority of states. However, 11 states had high activity.
- State level data includes both Military Treatment Facility (MTF) and outsourced care. Therefore, state activity levels may differ from the installation level data.
- Installation-level laboratory data can be found on pages 11-13 of the report.

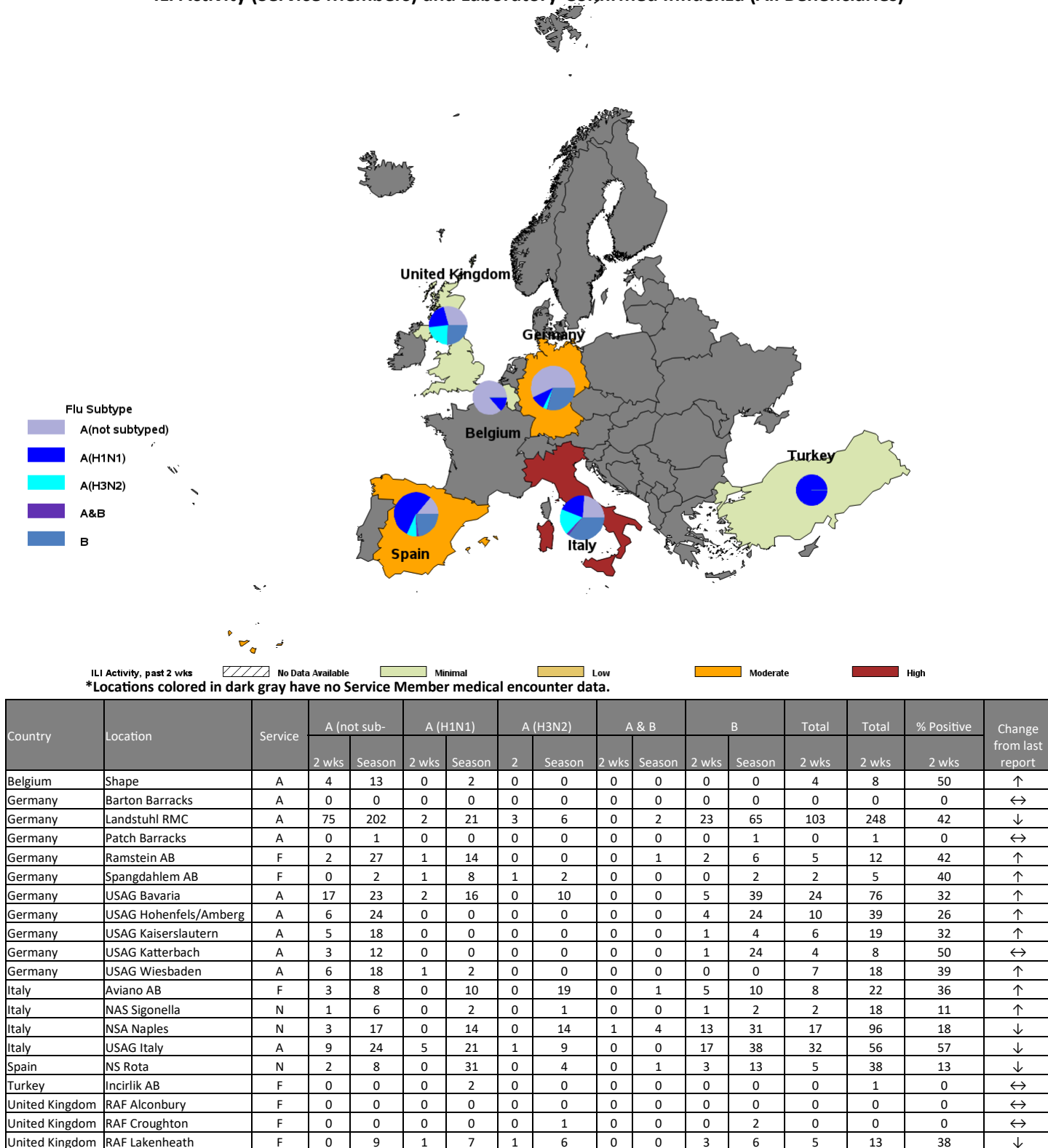


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# Influenza Activity: EUCOM (2019-2020 Season: Week 09)

- ILI activity increased to high in Italy and moderate in Spain, decreased to minimal in the United Kingdom, and remained moderate in Germany and minimal in Belgium and Turkey.
- The majority of positive specimens in the past 2 weeks were influenza A. Among subtyped influenza A specimens, the majority continued to be A(H1N1).

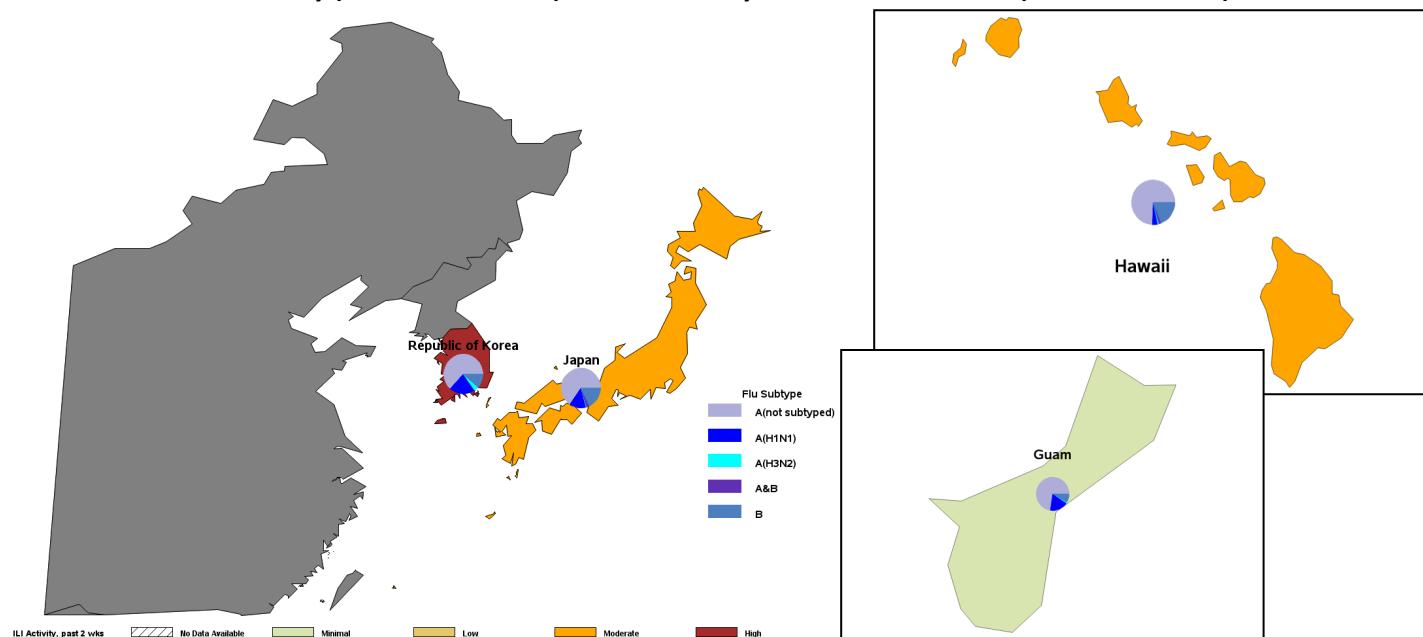
## ILI Activity (Service Members) and Laboratory-Confirmed Influenza (All Beneficiaries)



# Influenza Activity: INDOPACOM (2019-2020 Season: Week 09)

- ILI activity increased to high in the Republic of Korea and moderate in Japan and Hawaii. ILI activity remained minimal in Guam.
- The majority of positive specimens over the past 2 weeks continued to be influenza A.
- Among subtyped specimens, the majority have been influenza A(H1N1) for the season.

## ILI Activity (Service Members) and Laboratory-Confirmed Influenza (All Beneficiaries)



\*Locations colored in dark gray have no Service Member medical encounter data.

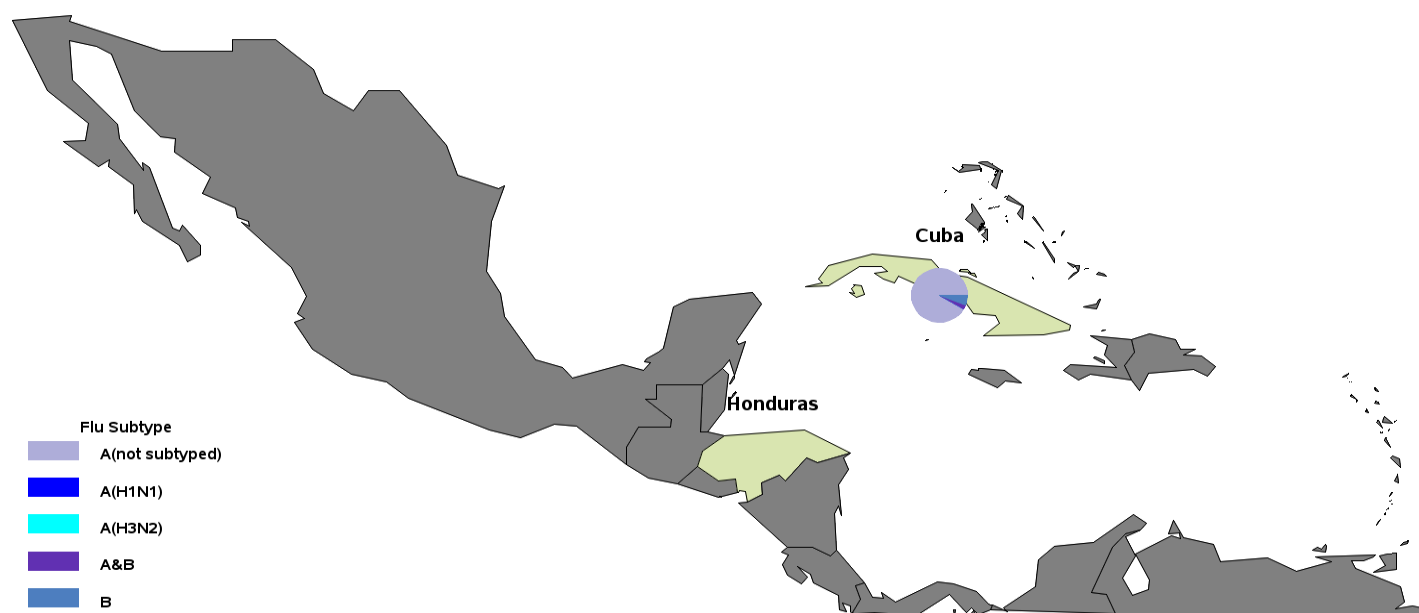
Country	Location	Service	A (not sub-typed)		A (H1N1)		A (H3N2)		A & B		B		Total positive	Total tested	% Positive	Change from last report
			2 wks	Season	2 wks	Season	2 wks	Season	2 wks	Season	2 wks	Season	2 wks	2 wks	2 wks	
Guam	JB Andersen	J	2	101	0	25	0	2	0	0	0	11	2	58	3	↑
Japan	CFA Okinawa	N	0	21	0	0	0	0	0	0	4	15	4	23	17	↑
Japan	CFA Yokosuka	N	1	56	0	0	0	0	0	2	1	4	2	28	7	↓
Japan	Camp Foster	N	0	3	0	0	0	0	0	0	0	0	0	6	0	↔
Japan	Camp Fuji	N	0	0	0	0	0	0	0	0	0	0	0	0	0	↔
Japan	Camp Zama	A	0	18	0	0	0	0	0	3	0	12	0	9	0	↔
Japan	Kadena AB	F	2	5	0	6	0	1	0	0	0	2	2	6	33	↑
Japan	MCAS Futenma	N	0	3	0	0	0	0	0	0	0	1	0	2	0	↔
Japan	MCAS Iwakuni	N	0	24	0	0	0	0	0	1	0	2	0	5	0	↔
Japan	Misawa AB	F	2	20	0	0	0	0	0	1	3	6	5	23	22	↓
Japan	NAF Atsugi	N	0	8	0	0	0	0	0	0	0	6	0	4	0	↔
Japan	NB Okinawa	N	1	50	0	0	0	0	1	1	1	6	3	61	5	↓
Japan	USFA Sasebo	N	0	2	0	0	0	0	0	0	1	2	1	1	100	↓
Japan	Yokota AB	F	0	18	0	42	0	0	0	1	1	4	1	11	9	↓
Korea, Republic of	CFA Chinhae	N	0	0	0	0	0	0	0	0	0	0	0	0	0	↔
Korea, Republic of	Camp Casey	A	0	4	0	0	0	0	0	0	0	0	0	1	0	↔
Korea, Republic of	Camp Humphreys	A	0	62	0	0	0	0	0	0	1	3	1	33	3	↑
Korea, Republic of	Camp Walker	A	0	17	0	0	0	0	0	0	0	2	0	6	0	↔
Korea, Republic of	Kunsan AB	F	0	1	0	3	0	1	0	0	0	0	0	0	0	↔
Korea, Republic of	Osan AB	F	1	16	0	69	0	12	0	0	1	8	2	13	15	↑
Korea, Republic of	Yongsan Garrison	A	1	108	0	1	0	0	0	0	5	23	6	73	8	↓
United States	Camp H M Smith	N	0	0	0	0	0	0	0	0	0	0	0	0	0	↔
United States	Ft Shafter	A	39	241	0	22	0	4	0	8	8	63	47	142	33	↓
United States	JB Pearl Harbor-Hickam	J	17	89	0	1	0	0	0	2	1	19	18	44	41	↓
United States	MCB Hawaii	N	2	20	0	1	0	0	0	0	1	6	3	12	25	↑
United States	Schofield Barracks	A	23	91	0	0	0	0	0	1	5	24	28	69	41	↓



# Influenza Activity: SOUTHCOM (2019-2020 Season: Week 09)

- ILI activity remained minimal in Cuba and Honduras.
- The majority of positive specimens continued to be Influenza A.

## ILI Activity (Service Members) and Laboratory-Confirmed Influenza (All Beneficiaries)



ILI Activity, past 2 wks

No Data Available	Minimal	Low	Moderate	High
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\*Locations colored in dark gray have no Service Member medical encounter data.

Country	Location	Service	A (not sub-typed)		A (H1N1)		A (H3N2)		A & B		B		Total posi-tive	Total tested	% Positive	Change from last report
			2 wks	Season	2 wks	Season	2 wks	Season	2 wks	Season	2 wks	Season	2 wks	2 wks	2 wks	
Cuba	Guantanamo Bay	N	2	33	0	0	0	0	0	1	1	2	3	10	30	↓

# Influenza Activity: CENTCOM (2019-2020 Season: Week 09)

- ILI activity increased to low in Kuwait, but decreased to moderate in the United Arab Emirates and low in Qatar.
- ILI activity remained moderate in Afghanistan.

## ILI Activity (Service Members)



\*Locations colored in dark gray have no Service Member medical encounter data.

# NORTHCOM Laboratory-Confirmed Influenza

(2019-2020 Season: Week 09)

## Laboratory-Confirmed Influenza (All Beneficiaries) by Installation Alaska through Georgia

State	Location	Service	A (not subtyped)		A (H1N1)		A (H3N2)		A & B		B		Total positive	Total tested	% Positive	Change from last report
			2 wks	Season	2 wks	Season	2 wks	Season	2 wks	Season	2 wks	Season	2 wks	2 wks	2 wks	
AK	Eielson AFB	F	0	0	0	0	0	0	0	0	0	16	0	3	0	↔
AK	Ft Greely	A	0	0	0	0	0	0	0	0	3	8	3	9	33	↓
AK	Ft Wainwright	A	22	97	1	16	0	0	0	0	18	174	41	182	23	↓
AK	JB Elmendorf-Richardson	J	22	78	5	16	0	3	0	0	6	166	33	113	29	↓
AL	Ft Rucker	A	4	48	0	0	0	0	0	0	0	65	4	53	8	↓
AL	Maxwell AFB	F	10	75	2	19	0	0	0	3	1	33	13	49	27	↑
AL	Redstone Arsenal	A	8	45	0	0	0	0	0	0	2	54	10	37	27	↓
AR	Little Rock AFB	F	10	13	7	45	0	0	1	1	6	40	24	63	38	↔
AZ	Davis-Monthan AFB	F	1	6	2	18	0	0	0	0	1	25	4	14	29	↓
AZ	Ft Huachuca	A	12	76	4	19	0	0	0	0	17	69	33	121	27	↓
AZ	Luke AFB	F	5	25	1	19	0	2	0	2	0	50	6	36	17	↑
AZ	MCAS Yuma	N	0	1	0	2	0	0	0	0	0	7	0	2	0	↔
CA	Beale AFB	F	9	36	0	0	0	0	0	0	2	17	11	31	35	↓
CA	Camp Pendleton	N	34	193	20	149	2	21	0	3	19	282	75	217	35	↓
CA	Edwards AFB	F	1	14	0	0	0	0	0	0	2	8	3	6	50	↓
CA	Ft Irwin	A	17	128	0	0	0	0	0	0	1	88	18	99	18	↓
CA	Los Angeles AFB	F	0	2	0	0	0	0	0	0	1	4	1	2	50	↓
CA	MBHC Eastlake	N	0	0	0	9	0	0	0	0	1	5	1	8	13	↓
CA	NAF El Centro	N	0	0	1	4	0	0	0	0	0	0	1	3	33	↓
CA	NB Coronado	N	0	0	1	6	0	0	0	0	1	5	2	10	20	↓
CA	NB San Diego	N	2	23	52	352	1	23	1	10	27	244	83	424	20	↓
CA	NV Ventura County	N	0	0	0	0	1	1	0	0	0	2	1	1	100	↓
CA	Twentynine Palms	N	22	110	0	1	0	0	0	0	4	172	26	124	21	↓
CA	Vandenberg AFB	F	0	14	0	0	0	0	0	2	2	6	2	4	50	↓
CO	Buckley AFB	F	3	20	0	0	0	0	0	0	0	20	3	19	16	↑
CO	Ft Carson	A	93	444	0	2	0	0	3	6	32	485	128	453	28	↓
CO	Peterson AFB	F	3	12	0	43	0	2	0	0	1	46	4	12	33	↓
CO	Schriever AFB	F	2	3	0	7	0	1	0	0	0	9	2	7	29	↑
CO	USAF Academy	F	9	39	4	16	0	1	1	3	16	99	30	58	52	↓
CT	NSB New London	N	4	16	0	0	0	0	0	1	3	36	7	26	27	↓
DC	JB Anacostia-Bolling	F	1	3	0	1	0	0	0	0	1	7	2	7	29	↓
DC	Pentagon	J	8	46	0	0	0	0	0	0	2	10	10	37	27	↓
DC	Washington Navy Yard	N	0	3	0	0	0	0	0	0	0	9	0	5	0	↔
DE	Dover AFB	F	6	8	4	32	0	0	0	1	3	36	13	40	33	↑
FL	Eglin AFB	J	22	162	5	56	0	1	0	3	11	88	38	143	27	↓
FL	Hurlburt Field	F	8	26	0	0	0	0	0	1	1	11	9	25	36	↓
FL	Macdill AFB	F	20	133	0	3	0	2	0	0	9	109	29	93	31	↓
FL	NAS Jacksonville	J	44	343	0	1	0	0	2	4	9	207	55	247	22	↑
FL	NAS Key West	J	0	8	0	0	0	0	0	0	0	2	0	2	0	↔
FL	NAS Pensacola	N	23	208	0	0	0	0	0	2	7	221	30	228	13	↑
FL	NAS Whiting Field	N	2	10	0	0	0	0	0	0	1	12	3	21	14	↓
FL	NS Mayport	J	4	49	0	0	0	0	0	1	1	33	5	26	19	↑
FL	Patrick AFB	F	6	40	0	0	0	0	0	1	1	35	7	30	23	↑
FL	Tyndall AFB	F	1	4	0	0	0	0	0	1	2	9	3	10	30	↓
GA	Ft Benning	A	44	488	0	0	0	2	0	9	15	328	59	357	17	↓
GA	Ft Gordon	A	43	265	1	2	0	0	0	2	5	117	49	209	23	↓
GA	Ft Stewart	A	18	240	0	0	0	0	0	4	8	147	26	152	17	↓
GA	Hunter Army Airfield	A	0	20	0	0	0	0	0	0	1	27	1	19	5	↑
GA	Moody AFB	F	1	7	2	33	0	0	0	0	1	11	4	26	15	↑
GA	NAS Albany	J	1	11	0	0	0	0	0	0	0	14	1	10	10	↑
GA	NSB Kings Bay	J	12	40	0	0	0	0	0	1	1	16	13	56	23	↓
GA	Robins AFB	F	0	2	3	43	0	0	0	0	0	18	3	13	23	↓

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# NORTHCOM Laboratory-Confirmed Influenza

(2019-2020 Season: Week 09)

## Laboratory-Confirmed Influenza (All Beneficiaries) by Installation Illinois through New York

State	Location	Service	A (not subtyped)		A (H1N1)		A (H3N2)		A & B		B		Total positive	Total tested	% Positive	Change from last report
			2 wks	Season	2 wks	Season	2 wks	Season	2 wks	Season	2 wks	Season	2 wks	2 wks	2 wks	
IL	NS Great Lakes	N	71	298	1	7	0	1	0	2	15	340	87	319	27	↑
IL	Scott AFB	F	6	8	4	43	0	0	0	1	14	52	24	63	38	↓
KS	Ft Leavenworth	A	22	90	0	0	0	0	0	0	12	81	34	83	41	↓
KS	Ft Riley	A	82	209	2	4	0	0	0	1	126	389	210	556	38	↔
KS	McConnell AFB	F	0	1	2	9	0	0	0	0	0	8	2	9	22	↓
KY	Ft Campbell	A	74	365	0	4	0	0	2	3	28	273	104	404	26	↓
KY	Ft Knox	A	2	22	0	0	0	0	0	0	1	9	3	16	19	↑
LA	Barksdale AFB	F	7	33	0	0	0	0	0	0	1	12	8	47	17	↓
LA	Ft Polk	A	78	189	0	0	0	0	0	2	9	134	87	240	36	↔
LA	NAS Belle Chase	N	1	5	0	0	0	0	0	0	1	4	2	14	14	↓
MA	Hanscom AFB	F	1	3	2	11	1	1	0	1	3	15	7	16	44	↓
MD	Aberdeen Proving Ground	A	2	25	0	0	0	0	0	0	2	30	4	21	19	↑
MD	Ft Detrick	A	4	23	0	0	0	0	0	0	10	49	14	48	29	↔
MD	Ft Meade	A	6	30	0	0	0	0	0	0	3	38	9	38	24	↓
MD	JB Andrews	F	40	180	0	0	0	1	2	7	14	182	56	214	26	↑
MD	NAS Patuxent River	N	13	50	0	0	0	0	0	2	7	52	20	71	28	↓
MD	NBHC Bancroft Hall	N	19	93	2	4	0	0	1	3	5	44	27	63	43	↓
MD	NHC Annapolis	N	18	63	0	0	0	0	0	2	1	22	19	39	49	↓
MD	NSF Indian Head	N	3	8	0	0	0	0	0	0	1	11	4	7	57	↓
MD	WRNMMC	J	81	341	10	23	0	1	0	2	27	346	118	402	29	↓
MO	Ft Leonard Wood	A	103	169	0	4	0	2	0	0	85	302	188	484	39	↔
MO	Whiteman AFB	F	18	41	0	0	0	0	0	0	10	36	28	66	42	↑
MS	Columbus AFB	F	1	6	0	0	0	0	0	0	0	8	1	4	25	↑
MS	Keesler AFB	J	46	196	1	3	0	0	0	0	5	183	52	181	29	↑
MS	NAS Meridian	N	2	19	0	0	0	0	0	0	2	8	4	11	36	↑
MS	NBHC Gulfport	N	2	19	0	0	0	0	0	0	4	31	6	26	23	↓
MT	Malmstrom AFB	F	5	7	3	6	0	0	1	1	1	4	10	17	59	↓
NC	Camp Lejeune	N	110	456	5	10	0	1	1	1	38	208	154	386	40	↑
NC	Ft Bragg	J	0	11	0	2	0	0	0	6	1	12	1	705	0	↔
NC	MCAS Cherry Point	N	5	46	0	0	0	0	0	0	12	51	17	56	30	↓
NC	Pope Army Airfield	J	0	0	0	0	0	0	0	6	0	0	0	88	0	↔
NC	Seymour Johnson AFB	J	5	7	3	18	0	3	0	1	2	14	10	26	38	↓
ND	Grand Forks AFB	F	1	1	0	0	0	0	0	0	0	8	1	3	33	↓
ND	Minot AFB	F	3	4	5	11	0	0	1	1	16	56	25	45	56	↓
NE	Offutt AFB	F	0	4	3	27	0	0	0	0	0	9	3	7	43	↑
NH	Portsmouth	N	4	13	0	0	0	0	0	0	2	13	6	17	35	↑
NJ	JB McGuire-Dix-Lakehurst	F	5	8	1	10	0	3	0	1	3	31	9	32	28	↑
NM	Cannon AFB	F	0	1	0	3	0	0	0	0	0	3	0	0	0	↔
NM	Holloman AFB	F	1	11	0	0	0	0	0	1	1	17	2	11	18	↓
NM	Kirtland AFB	F	0	8	1	12	0	2	0	0	1	14	2	15	13	↓
NM	White Sands Missile Range	A	0	10	0	0	0	0	0	0	0	4	0	3	0	↔
NV	Nellis AFB	F	39	204	2	43	0	5	0	0	5	202	46	139	33	↓
NY	Ft Drum	A	9	22	0	19	0	5	0	1	16	117	25	85	29	↓
NY	West Point	A	12	54	0	85	0	7	1	3	32	244	45	173	26	↓

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# NORTHCOM Laboratory-Confirmed Influenza

(2019-2020 Season: Week 09)

## Laboratory-Confirmed Influenza (All Beneficiaries) by Installation Ohio through Wyoming

State	Location	Service	A (not subtyped)		A (H1N1)		A (H3N2)		A & B		B		Total		% Positive	Change from last report
			2 wks	Season	2 wks	Season	2 wks	Season	2 wks	Season	2 wks	Season	2 wks	2 wks		
OH	Wright-Patterson AFB	F	5	13	42	211	0	4	1	5	29	236	77	219	35	↓
OK	Altus AFB	F	3	4	7	22	0	0	0	0	11	41	21	60	35	↓
OK	Ft Sill	A	87	203	0	2	0	0	0	3	16	202	103	294	35	↔
OK	Tinker AFB	F	5	7	8	51	0	0	0	1	2	48	15	52	29	↓
OK	Vance AFB	F	7	14	0	7	0	0	0	1	1	7	8	23	35	↓
PA	Carlisle Barracks	A	3	13	0	0	0	0	0	0	5	34	8	34	24	↑
PR	Ft Buchanan	A	1	17	0	0	0	0	0	0	1	16	2	25	8	↓
PR	NS Roosevelt Roads	N	0	2	0	0	0	0	0	0	0	0	0	0	0	↔
RI	NHC New England	N	1	23	0	5	0	0	0	0	7	15	8	38	21	↓
SC	Ft Jackson	A	26	189	0	0	0	0	0	0	27	197	53	233	23	↓
SC	JB Charleston	J	24	73	0	11	0	0	0	2	6	59	30	100	30	↑
SC	MCAS Beaufort	N	4	15	1	6	0	1	0	0	1	14	6	26	23	↑
SC	Parris Island	N	7	43	0	1	0	0	0	1	5	62	12	64	19	↓
SC	Shaw AFB	F	11	20	4	42	0	3	0	1	13	57	28	80	35	↑
SD	Ellsworth AFB	F	8	15	6	20	0	0	1	2	4	40	19	49	39	↑
TN	Ft Campbell	A	16	86	0	2	0	1	0	0	5	76	21	95	22	↓
TN	NSA Mid-South	N	3	20	0	0	0	0	0	0	2	7	5	17	29	↑
TX	Dyess AFB	F	5	33	0	0	0	0	0	2	3	22	8	23	35	↑
TX	Ft Bliss	A	96	585	2	92	0	6	0	4	37	824	135	604	22	↓
TX	Ft Hood	A	129	759	9	31	0	0	1	5	10	1170	149	726	21	↓
TX	Goodfellow AFB	F	6	33	0	0	0	0	1	3	5	29	12	63	19	↓
TX	JB San Antonio	J	143	1242	21	246	1	12	3	22	36	989	204	730	28	↔
TX	Laughlin AFB	F	1	10	0	2	0	0	0	3	1	15	2	16	13	↑
TX	NAS Corpus Christi	N	2	8	0	0	0	0	0	0	1	6	3	5	60	↑
TX	NAS JRB Fort Worth	N	0	0	0	0	0	0	0	0	0	1	0	0	0	↔
TX	NAS Kingsville	N	0	0	0	0	0	0	0	0	0	1	0	1	0	↔
TX	Sheppard AFB	F	22	45	23	47	0	0	0	1	3	36	48	100	48	↓
UT	Hill AFB	F	1	5	1	26	0	0	0	0	1	22	3	17	18	↓
VA	Ft Belvoir	J	129	590	0	0	0	0	0	5	47	550	176	592	30	↑
VA	Ft Lee	A	17	66	0	0	0	0	0	5	4	95	21	117	18	↔
VA	JB Langley-Eustis	J	41	127	11	41	0	3	0	1	9	133	61	179	34	↓
VA	JB Little Creek-Ft Story	J	0	2	0	0	0	0	0	0	0	0	0	0	0	↔
VA	JB Myer-Henderson Hall	A	6	27	0	0	0	0	0	1	3	23	9	31	29	↓
VA	MCB Quantico	N	12	74	0	0	0	0	0	1	17	101	29	114	25	↓
VA	NAS Oceana	N	2	9	0	0	0	0	0	0	1	12	3	11	27	↓
VA	NB Dam Neck	N	0	3	0	0	0	0	0	0	0	1	0	0	0	↔
VA	NS Norfolk	N	5	16	0	0	0	0	0	0	3	10	8	21	38	↓
VA	NWS Dahlgren	N	0	0	0	0	0	0	0	0	0	0	0	3	0	↔
VA	NWS Yorktown	N	0	3	0	0	0	0	0	0	0	3	0	5	0	↔
VA	Portsmouth	N	38	85	19	107	0	4	0	0	2	158	59	163	36	↑
VA	TPC Suffolk	N	2	2	0	0	0	0	0	0	0	2	2	6	33	↑
WY	FE Warren AFB	F	17	35	1	3	0	0	0	0	7	36	25	88	28	↑

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# Surveillance Programs and Data Sources

## Defense Health Agency / Armed Forces Health Surveillance Branch (AFHSB):

The Armed Forces Health Surveillance Branch (AFHSB) is the central epidemiologic resource for the U.S. Armed Forces, conducting medical surveillance to protect those who serve our nation in uniform and allies who are critical to our national security interests. The Epidemiology and Analysis Section of AFHSB, the Epi Data Center of the Navy and Marine Corps Public Health Center, and the Air Force Satellite Office in Dayton, Ohio (Wright-Patterson AFB) have compiled data for this report from the following sources below.

## Influenza-like Illness Activity:

Medical encounter and demographic data from the AFHSB's Defense Medical Surveillance System (DMSS) are used to generate portions of this report. ICD-10 codes from outpatient encounters are used to identify influenza-like illness (ILI). ILI is defined using the following codes: 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.

The percentage of all outpatient visits that have an ILI code is calculated each week for all service members, regardless of component. These data are presented weekly for the current season and compared to the four prior seasons among service members. Influenza activity levels are calculated by comparing the mean reported percent of visits due to ILI for the previous two weeks to the mean reported percent of visits due to ILI during baseline weeks (defined as non-influenza weeks (weeks 22-39) over the past 3 years). There are four influenza activity levels, minimal, low, moderate, and high. The activity level corresponds to the number of standard deviations (SD) below, at or above the mean for the current 2 week period compared to the mean of the baseline weeks. 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 activity levels are presented in the Combatant Command (CCMD) maps, either by Installation, state, or country.

## Influenza Positive Specimens:

Influenza lab results (HL-7 formatted data) are compiled and transmitted from the Navy and Marine Corps Public Health Center to AFHSB. Results obtained via 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, influenza A(H1N1), influenza A(H3N2), influenza A and B co-infection, and influenza B. Additionally, laboratory-confirmed positive results are used to identify influenza-related hospitalization cases across the DoD.

The percent positivity is calculated by dividing the number of influenza positive specimens by the total number of specimens (positive and negative only; inconclusive results are excluded). The distributions of percent positive specimens by subtype are presented on a weekly basis for the entire influenza season. For each CCMD state, the distribution of subtypes for the previous 2 weeks are presented as pie graphs for states and countries. For installations, data are presented in tables with counts and percent positive by subtype for the past 2 weeks and for the entire season. The "change from last report" column reports the absolute difference in the percent positive from the prior week's report to the current week's report.

# Surveillance Programs and Data Sources

## Pharmacy Transactions for Dispensed Antiviral Prescriptions:

HL7-formatted pharmacy transactions are used to assess the number of dispensed influenza antiviral (AV) prescriptions. Four influenza AV medications approved by the Food and Drug Administration (FDA) are recommended by the CDC for use in the United States (US) for the 2019-2020 influenza season: oral oseltamivir (Tamiflu® or generic), inhaled zanamivir (Relenza®), and intravenous peramivir (Rapivab®), and baloxavir marboxil (Xofluza®). These prescriptions are included in this surveillance. The overall count of dispensed AV prescriptions by week is presented graphically for the influenza season. A seasonal baseline is displayed with dispensed AV prescriptions. Surveillance thresholds are displayed with the count of inpatient dispensed AV prescriptions. Additionally, counts of inpatient dispensed influenza AV prescriptions are presented weekly for the influenza season.

## Baselines, Thresholds, and Trends:

Weekly baselines used a three-year average to compare results with those from the same week during the previous three seasons. Bands for one and two standard deviations above seasonal baseline estimates are displayed to indicate when trends diverge with respect to timing or volume from those of recent seasons. The ILI, lab, and dispensed AV prescription data thresholds are calculated by adding two standard deviations to the off-season average.

Inpatient thresholds (lab and dispensed AV prescription data) are calculated by adding one standard deviation to the overall weighted average for in-season weeks. Weeks that represent at least 2% of the total season's laboratory-positive influenza cases for at least two consecutive weeks was considered to be "in-season" or influenza weeks; all other weeks are considered to be "off-season" or non-influenza weeks.

## Links to Service-Specific Influenza Reports:

Select the following links to see service-specific influenza surveillance weekly reports:

- Navy and Marine Corps Public Health Center (NMCPHC):  
<https://www.med.navy.mil/sites/nmcphc/epi-data-center/influenza/Pages/default.aspx>
- United States Air Force School of Aerospace Medicine (USAFSAM)/Defense Health Agency (DHA):  
<https://hpws.af.mil/epi-consult/influenza/ActivityUpdates.cfm>