

Data at a Glance April 12—April 18, 2020 (Week 16)

	Current Week (16)	Previous Week (15)
Percentage of emergency department visits for ILI¹	1.6%	2.4%
Percentage positive influenza tests²	0.1%	0.2%
Influenza-associated hospitalizations³	0	0
Reported influenza outbreaks	0	0
Influenza-associated pediatric mortality	0	0
Respiratory Syncytial Virus (RSV) activity⁴	0.0%	2.6%

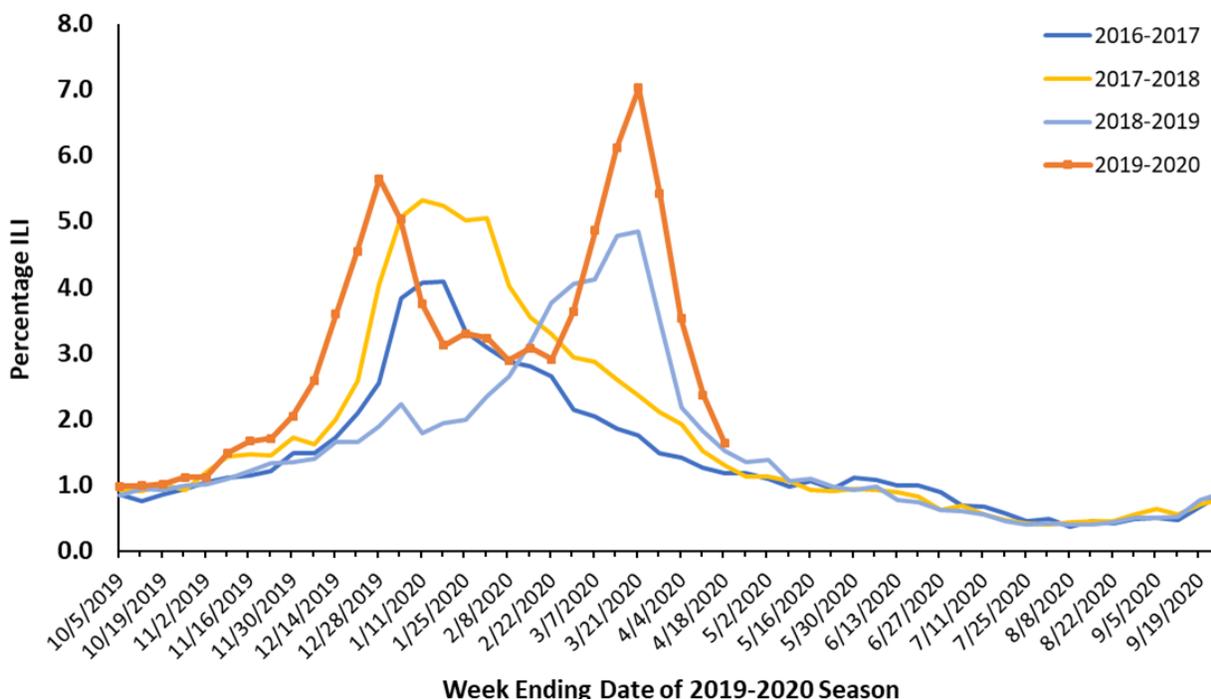
¹Based on Oregon ESSENCE Syndromic Surveillance. Data represent statewide aggregate percent.

²Percent positivity based on data from Oregon reporters to the National Respiratory and Enteric Virus Surveillance System (NREVSS)

³Based on hospitalization surveillance in Clackamas, Multnomah, and Washington counties only.

⁴Percent positivity based on data from Oregon's RSV Laboratory Surveillance System.

Figure 1. Percentage of ED Visits for ILI, Oregon ESSENCE Syndromic Surveillance, 2016–2017, 2017–2018, 2018–2019, 2019–2020



Oregon ESSENCE Syndromic Surveillance: Oregon Public Health tracks hospital emergency department (ED) visits throughout the state using the Oregon ESSENCE syndromic surveillance system. ESSENCE categorizes chief complaints into syndrome categories, which include ILI. Figure 1, above, displays percentages for all of Oregon during this flu season compared with the previous three flu seasons. The percent of ED visits for ILI in all of Oregon was 1.6% during week 16, 2020.

Laboratory Surveillance: The National Respiratory and Enteric Virus Surveillance System (NREVSS) is a laboratory-based system that monitors influenza and other respiratory viruses circulating the United States. More information is at CDC's [website](#).

Table 1 shows the tests conducted and results by region for the current week for influenza in specimens tested at the Oregon laboratories reporting to NREVSS. Figure 2 shows that 0.1% of specimens tested at Oregon labs were positive for influenza during week 16, and the bar chart displays the number of influenza-positive tests by flu type and percent positivity.

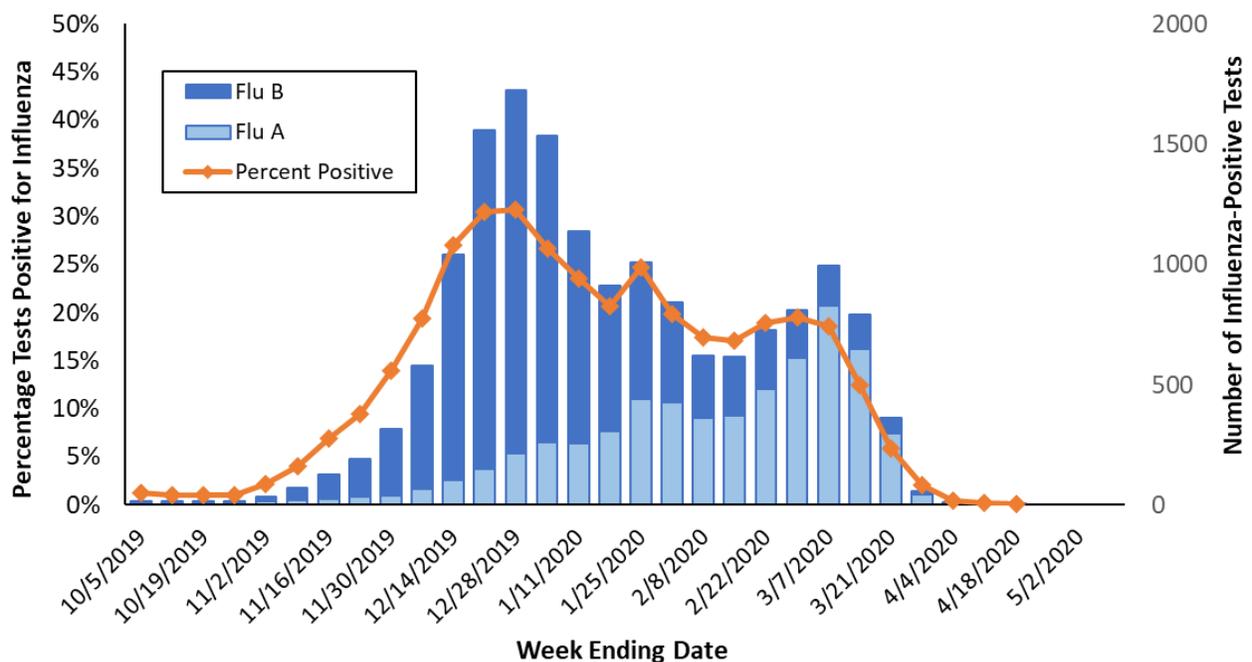
Participation by laboratories is voluntary. Current labs participating in NREVSS in Oregon include:

Legacy Emanuel Hospital and Health Center (Portland, OR), Oregon Health & Science University (Portland, OR), Providence Health (Oregon), Kaiser Permanente (Oregon), Veteran's Administration Hospital (Portland, OR), Adventist Health (Portland, OR), Bay Area Hospital (Coos Bay, OR), Curry Health Network (Brookings, OR), Mercy Medical Center (Roseburg, OR), Sky Lakes Medical Center (Klamath Falls, OR), Lake Health District, (Lakeview, OR), Rogue Valley Medical Center (SW Oregon), Good Shepherd Medical Center (Hermiston, OR), Grande Ronde Hospital, (La Grande, OR), Mid-Columbia Medical Center (The Dalles, OR), Central Oregon Pediatric Associates (Central Oregon), Harney District Hospital (Burns, OR), St. Charles (Bend, OR), Samaritan Health Services (Lebanon, OR), Columbia Memorial Hospital (Astoria, OR), PeaceHealth Southwest Medical Center (Vancouver, WA), Salem Hospital (Salem, OR), Willamette Valley Medical Center (McMinnville, OR).

Table 1. Influenza Test Results in Oregon by Region, NREVSS, Current Week, 2019–2020 Season

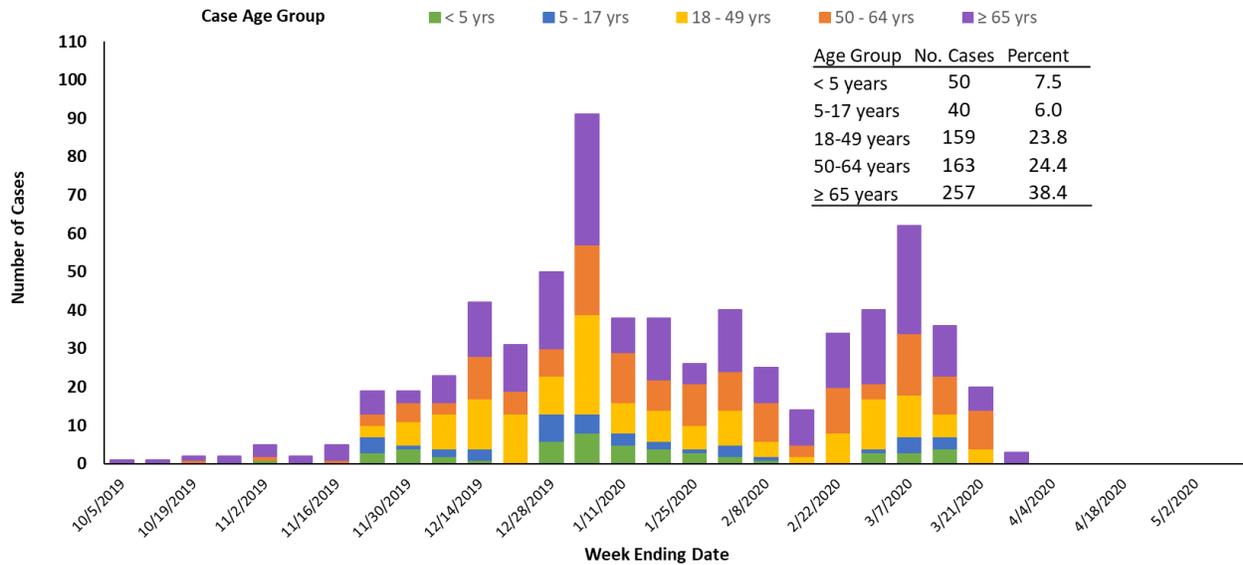
Region	Total Tests	Positive		Flu A		Flu B	
		No.	(%)	No.	(%)	No.	(%)
Portland Metro	323	0	0.0%	0	0.0%	0	0.0%
Southern Oregon	328	1	0.3%	1	0.0%	0	0.0%
Columbia Gorge	7	0	0.0%	0	0.0%	0	0.0%
Central Oregon	131	0	0.0%	0	0.0%	0	0.0%
Willamette Valley	18	0	0.0%	0	0.0%	0	0.0%
State Total	807	1	0.1%	1	100.0%	0	0.0%

**Figure 2. Oregon Influenza Laboratory Surveillance
Percent Positive Influenza Tests by Week, NREVSS, 2019-2020 Season**



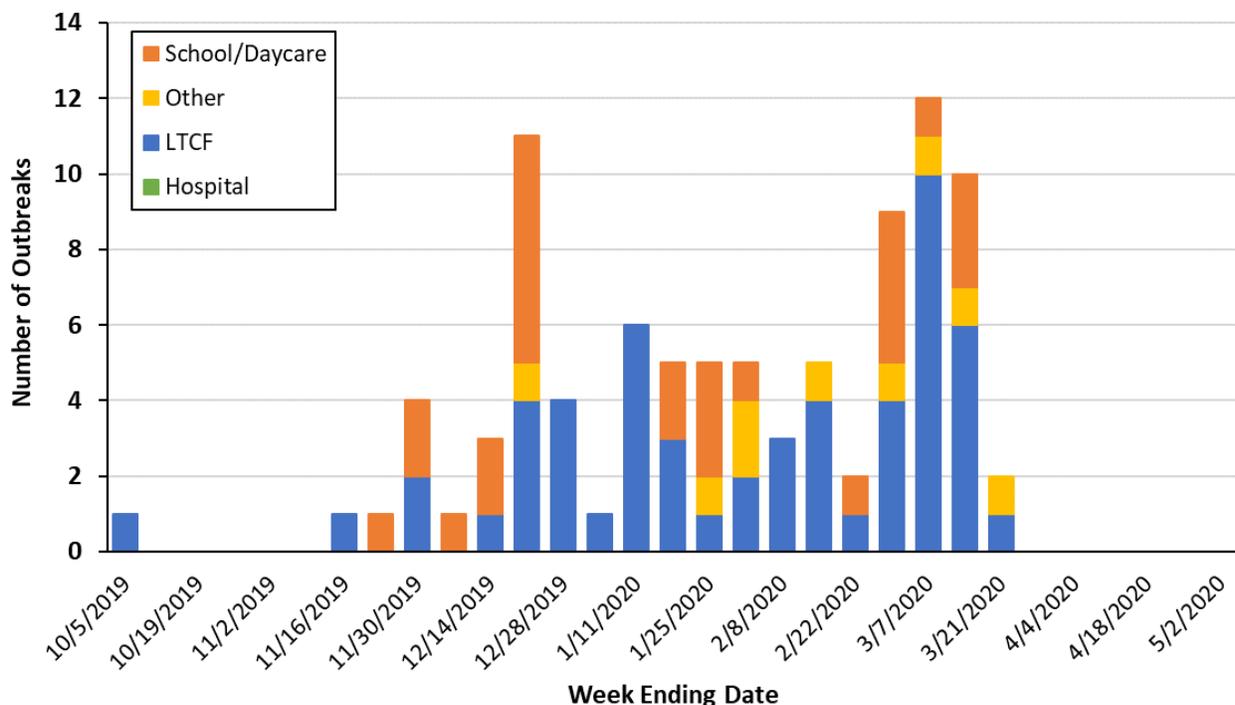
Hospitalizations: In Clackamas, Multnomah, and Washington counties no influenza-associated hospitalizations were reported during week 16 of 2020. In total, there have been 669 hospitalizations; 375 (56.1%) were positive for flu A and 294 (44.0%) were positive for flu B. Of the 60 flu A specimens that have been subtyped, 54 (90.0%) were 2009 H1N1 and 6 (10.0%) were H3. All 22 flu B specimens that were differentiated were Victoria lineage.

Figure 3. Portland Metro Area Influenza-Associated Hospitalizations by Week and Age Group, 2019-2020 Season



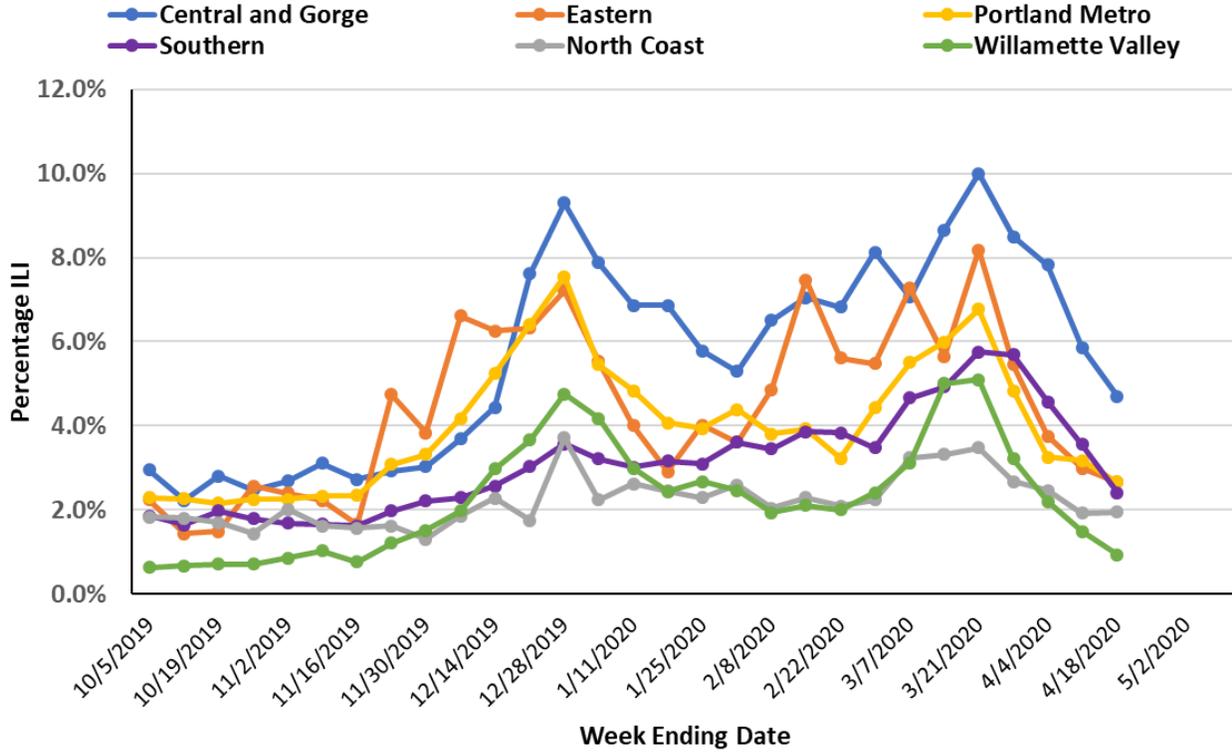
Influenza Outbreaks: There were no influenza outbreaks reported during week 16, 2020. There have been a total of 92 influenza outbreaks reported to the Oregon Health Authority in the 2019—2020 flu season; 56 (60.9%) occurred in a long-term care facility, 27 (29.3%) occurred in a school, and 9 (9.8%) occurred in another setting.

Figure 4. Number of Influenza Outbreaks in Oregon by Setting, 2019-2020 Season



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Figure 5. Percentage of Visits for ILI at Outpatient Clinics & Emergency Departments, by Oregon Region, 2019-2020



Influenza-Associated Pediatric Mortality Surveillance: Influenza-associated deaths in children 17 years of age and younger are nationally notifiable. There were no pediatric flu deaths in Oregon reported during week 15, 2020. There have been a total of 3 influenza-associated pediatric deaths reported to the Oregon Health Authority in the 2019—2020 flu season.

Data at a Glance April 5—April 11, 2020 (Week 15)

	Current Week (15)	Previous Week (14)
Percentage of emergency department visits for ILI¹	2.4%	3.5%
Percentage positive influenza tests²	0.2%	0.5%
Influenza-associated hospitalizations³	0	0
Reported influenza outbreaks	0	0
Influenza-associated pediatric mortality	0	0
Respiratory Syncytial Virus (RSV) activity⁴	2.6%	1.9%

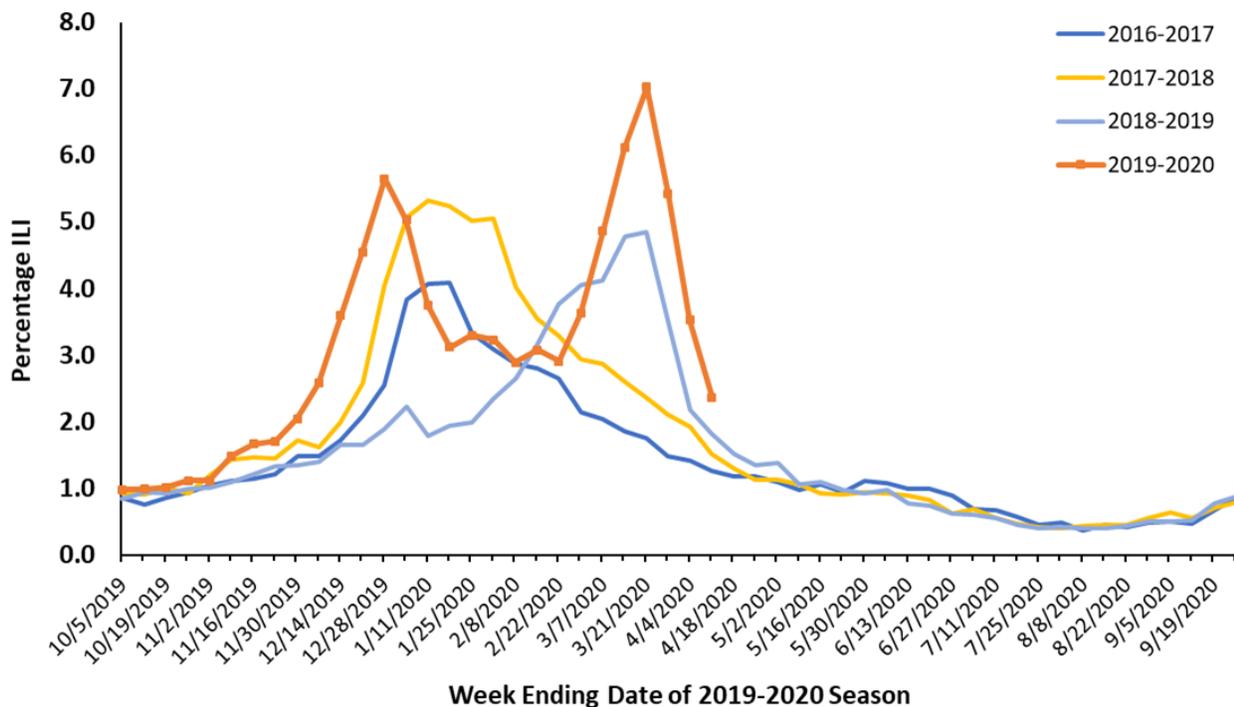
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Figure 1. Percentage of ED Visits for ILI, Oregon ESSENCE Syndromic Surveillance, 2016–2017, 2017–2018, 2018–2019, 2019–2020



Oregon ESSENCE Syndromic Surveillance: Oregon Public Health tracks hospital emergency department (ED) visits throughout the state using the Oregon ESSENCE syndromic surveillance system. ESSENCE categorizes chief complaints into syndrome categories, which include ILI. Figure 1, above, displays percentages for all of Oregon during this flu season compared with the previous three flu seasons. The percent of ED visits for ILI in all of Oregon was 2.4% during week 15, 2020.

Laboratory Surveillance: The National Respiratory and Enteric Virus Surveillance System (NREVSS) is a laboratory-based system that monitors influenza and other respiratory viruses circulating the United States. More information is at CDC's [website](#).

Table 1 shows the tests conducted and results by region for the current week for influenza in specimens tested at the Oregon laboratories reporting to NREVSS. Figure 2 shows that 0.2% of specimens tested at Oregon labs were positive for influenza during week 15, and the bar chart displays the number of influenza-positive tests by flu type and percent positivity.

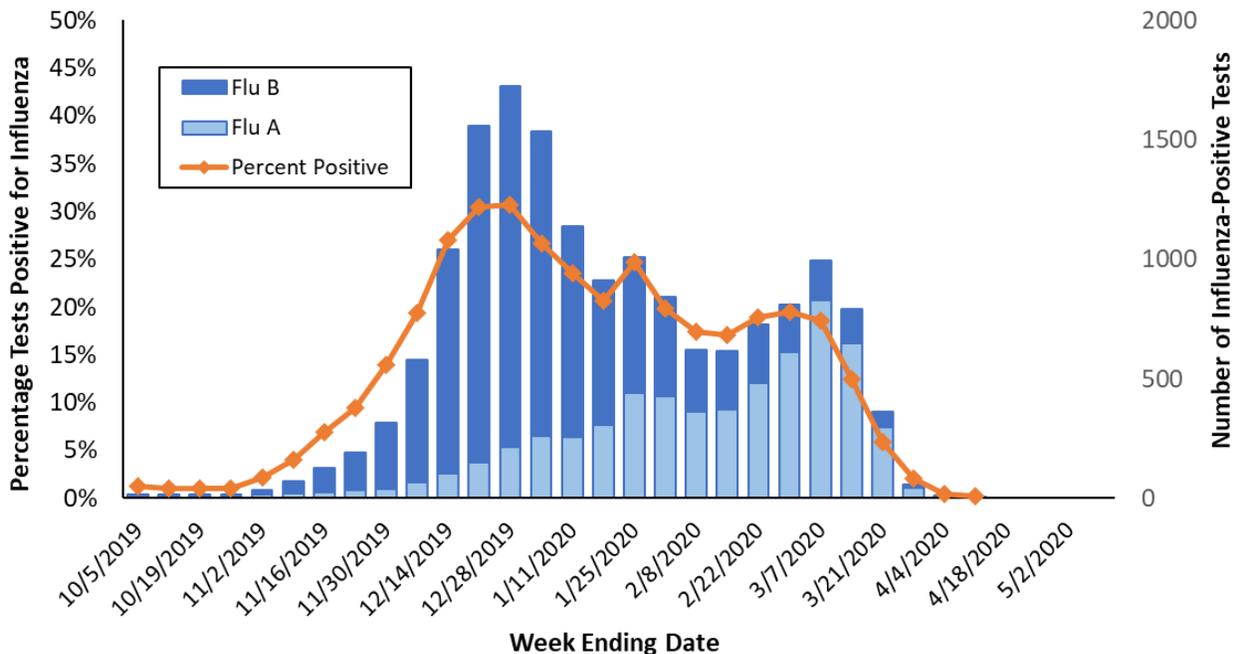
Participation by laboratories is voluntary. Current labs participating in NREVSS in Oregon include:

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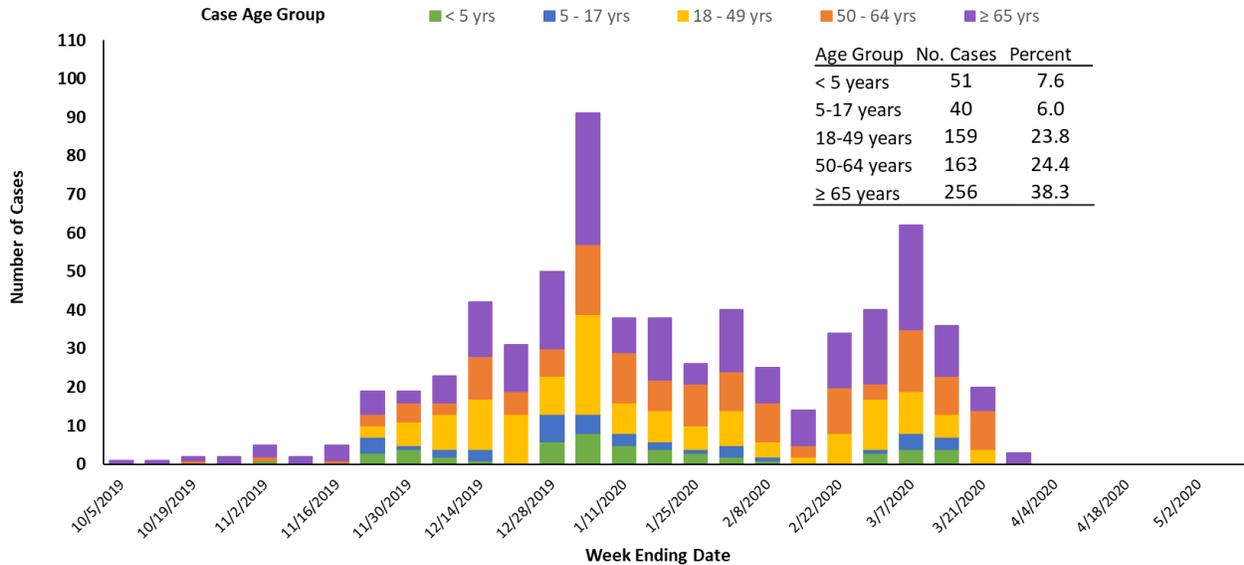
Region	Total Tests	Positive		Flu A		Flu B	
		No.	(%)	No.	(%)	No.	(%)
Portland Metro	719	1	0.1%	1	100.0%	0	0.0%
Southern Oregon	198	0	0.0%	0	0.0%	0	0.0%
Columbia Gorge	18	0	0.0%	0	0.0%	0	0.0%
Central Oregon	155	1	0.6%	1	0.0%	0	0.0%
Willamette Valley	141	0	0.0%	0	0.0%	0	0.0%
State Total	1231	2	0.2%	2	100.0%	0	0.0%

**Figure 2. Oregon Influenza Laboratory Surveillance
Percent Positive Influenza Tests by Week, NREVSS, 2019-2020 Season**



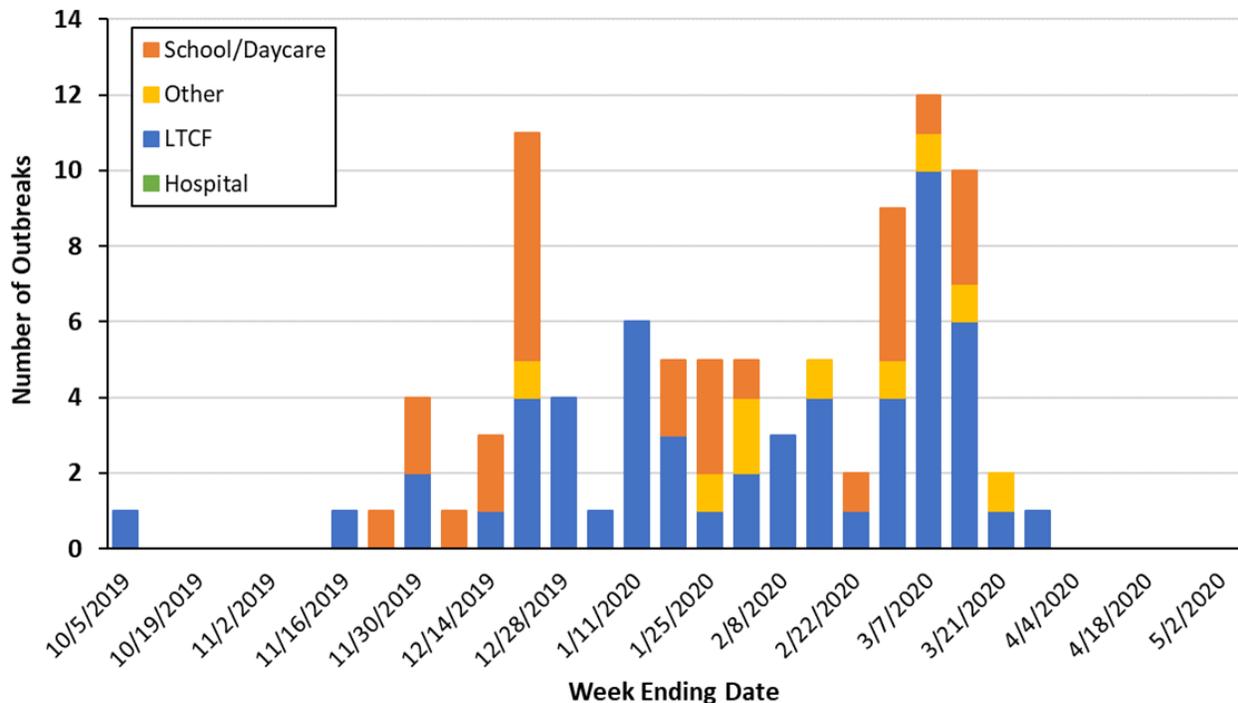
Hospitalizations: In Clackamas, Multnomah, and Washington counties no influenza-associated hospitalizations were reported during week 15 of 2020. In total, there have been 669 hospitalizations; 375 (56.1%) were positive for flu A and 294 (44.0%) were positive for flu B. Of the 60 flu A specimens that have been subtyped, 54 (90.0%) were 2009 H1N1 and 6 (10.0%) were H3. All 22 flu B specimens that were differentiated were Victoria lineage.

Figure 3. Portland Metro Area Influenza-Associated Hospitalizations by Week and Age Group, 2019-2020 Season



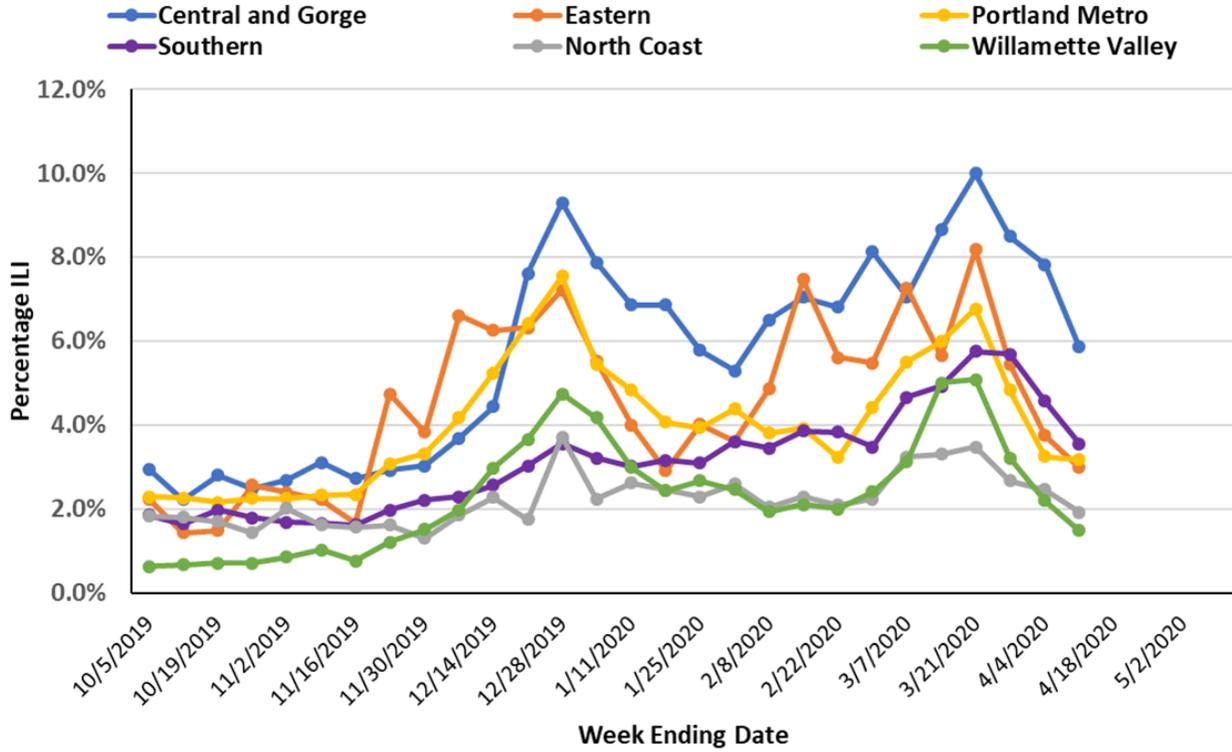
Influenza Outbreaks: There were no influenza outbreaks reported during week 15, 2020. There have been a total of 92 influenza outbreaks reported to the Oregon Health Authority in the 2019—2020 flu season; 56 (60.9%) occurred in a long-term care facility, 27 (29.3%) occurred in a school, and 9 (9.8%) occurred in another setting.

Figure 4. Number of Influenza Outbreaks in Oregon by Setting, 2019-2020 Season



Outpatient Influenza-like Illness Surveillance: Oregon’s outpatient influenza-like illness (ILI) surveillance comprises 17 voluntary reporting outpatient providers, 64 emergency departments and urgent care clinics reporting to ESSENCE, and 310 OCHIN clinics from across Oregon. The percentage of outpatients seen with ILI across the state during week 15 of 2020 was 3.1%. Regionally, the percentage was highest in the Central and Gorge region (5.9%) and lowest in the Willamette Valley (1.5%).

Figure 5. Percentage of Visits for ILI at Outpatient Clinics & Emergency Departments, by Oregon Region, 2019-2020



Influenza-Associated Pediatric Mortality Surveillance: Influenza-associated deaths in children 17 years of age and younger are nationally notifiable. There were no pediatric flu deaths in Oregon reported during week 15, 2020. There have been a total of 3 influenza-associated pediatric deaths reported to the Oregon Health Authority in the 2019—2020 flu season.

US Data (from CDC FluView): Laboratory confirmed flu activity as reported by clinical laboratories is now low. Influenza-like illness activity, while lower than last week, is still elevated. Influenza severity indicators remain moderate to low overall, but hospitalization rates differ by age group, with high rates among children and young adults.

Viruses

- **Clinical Labs:** The percentage of respiratory specimens testing positive for influenza at clinical laboratories decreased from 0.9% last week to 0.4% this week.
- **Public Health Labs:** Nationally, influenza A(H1N1)pdm09 viruses are now the most commonly reported influenza viruses this season.

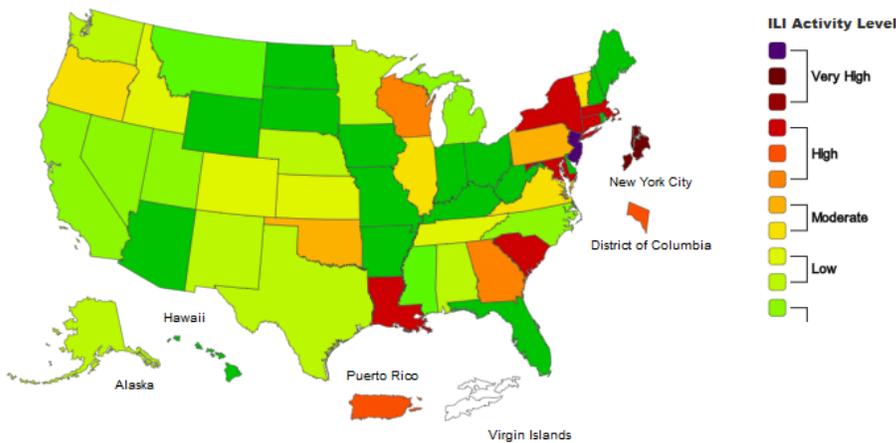
Illness

- **ILINet Outpatient Illness:** Visits to health care providers for influenza-like illness (ILI) decreased from 3.9% last week to 2.9% this week. All regions are above their baselines.
- **ILINet Activity Map:** The number of jurisdictions experiencing high or very high ILI activity decreased from 21 last week to 12 this week.
- **Geographic Spread:** The number of jurisdictions reporting regional or widespread influenza activity decreased from 31 last week to 17 this week.

Severe Disease

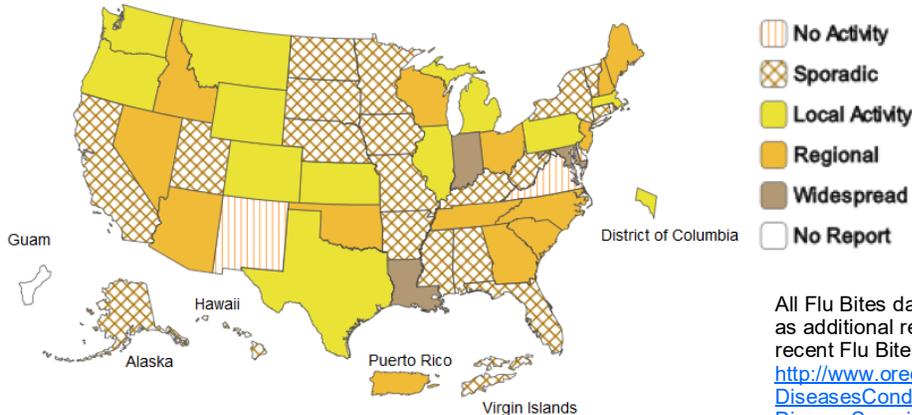
- **Hospitalizations:** The overall cumulative hospitalization rate for the season increased to 68.3 per 100,000.
- **P&I Mortality:** The percentage of deaths attributed to pneumonia and influenza is 11.9%, above the epidemic threshold of 7.1%.
- **Pediatric Deaths:** 2 influenza-associated pediatric deaths occurring during the 2019-2020 season were reported this week. The total for the season is 168.

**Influenza-like Illness (ILI) Activity Level Indicator Determined by Data Reported to ILINet
2019-2020 Influenza Season Week 15— ending April 11, 2020**



Map above: This map uses the proportion of outpatient visits to ILINet sentinel providers for influenza-like illness to measure the ILI activity level within a state. It does not, however, measure the extent of geographic spread of flu within a state. Therefore, outbreaks occurring in a single city could cause the state to display high activity levels.

**Weekly Influenza Activity Estimates Reported by State and Territorial Epidemiologists
2019-2020 Influenza Season Week 15— ending**



Map left: The map left measures the geographic spread of influenza viruses, but does not measure the intensity of influenza activity.

All Flu Bites data are preliminary and may change as additional reports are received. Find the most recent Flu Bites report online at: <http://www.oregon.gov/oha/ph/DiseasesConditions/CommunicableDisease/DiseaseSurveillanceData/Influenza/Pages/surveil.aspx>

Data at a Glance March 29—April 4, 2020 (Week 14)

	Current Week (14)	Previous Week (13)
Percentage of emergency department visits for ILI¹	3.5%	5.4%
Percentage positive influenza tests²	0.5%	2.1%
Influenza-associated hospitalizations³	0	3
Reported influenza outbreaks	0	1
Influenza-associated pediatric mortality	0	0
Respiratory Syncytial Virus (RSV) activity⁴	1.9%	4.3%

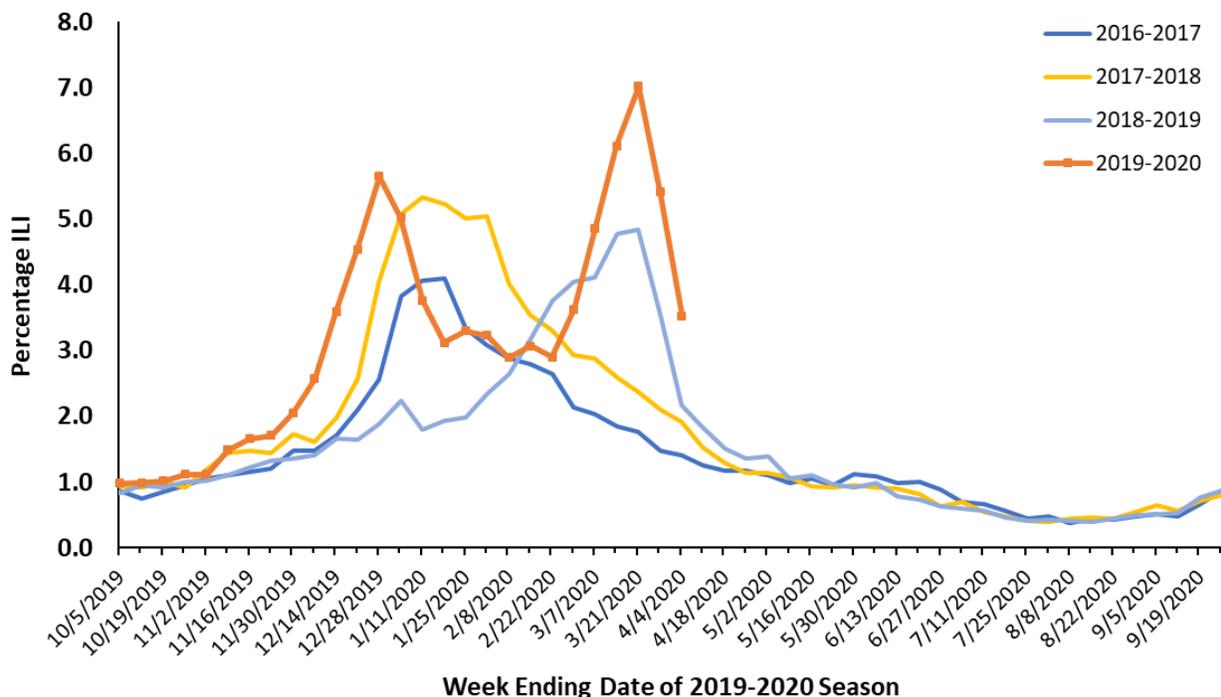
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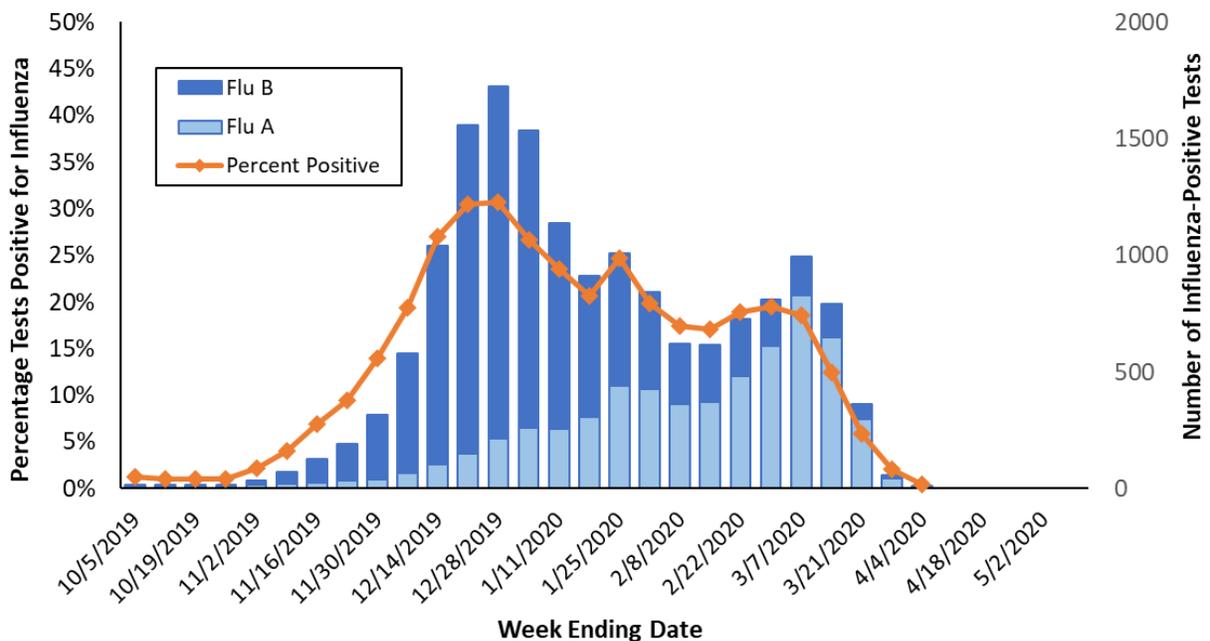
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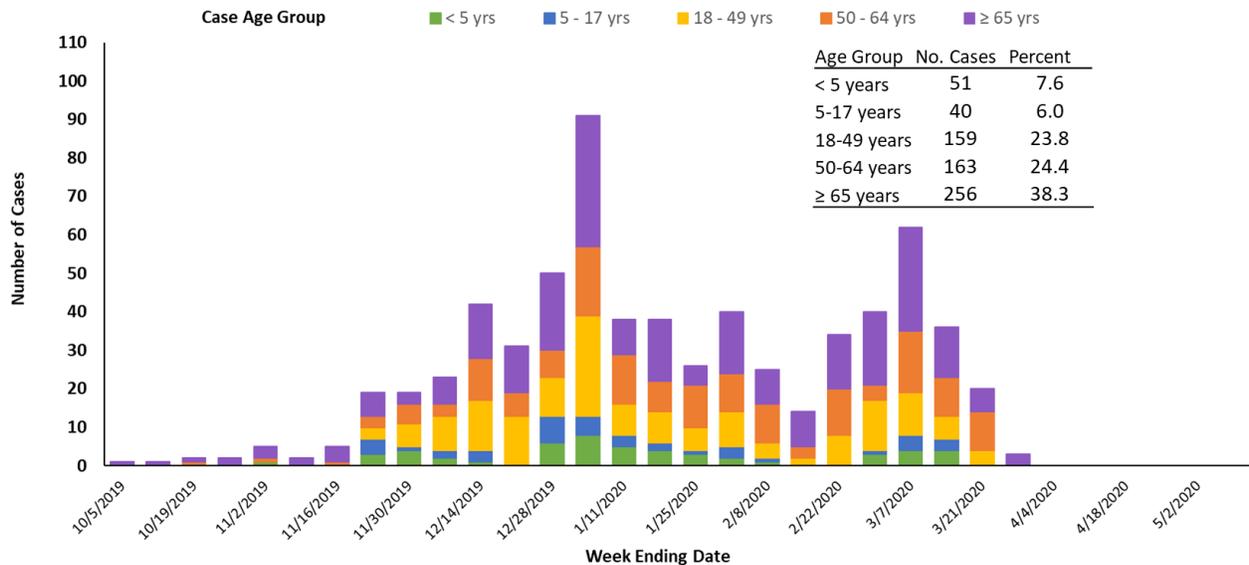
Region	Total Tests	Positive		Flu A		Flu B	
		No.	(%)	No.	(%)	No.	(%)
Portland Metro	1332	8	0.6%	7	87.5%	1	12.5%
Southern Oregon	1041	5	0.5%	0	0.0%	5	100.0%
Columbia Gorge	38	0	0.0%	0	0.0%	0	0.0%
Central Oregon	237	0	0.0%	0	0.0%	0	0.0%
Willamette Valley	208	0	0.0%	0	0.0%	0	0.0%
State Total	2856	13	0.5%	7	53.8%	6	46.2%

**Figure 2. Oregon Influenza Laboratory Surveillance
Percent Positive Influenza Tests by Week, NREVSS, 2019-2020 Season**



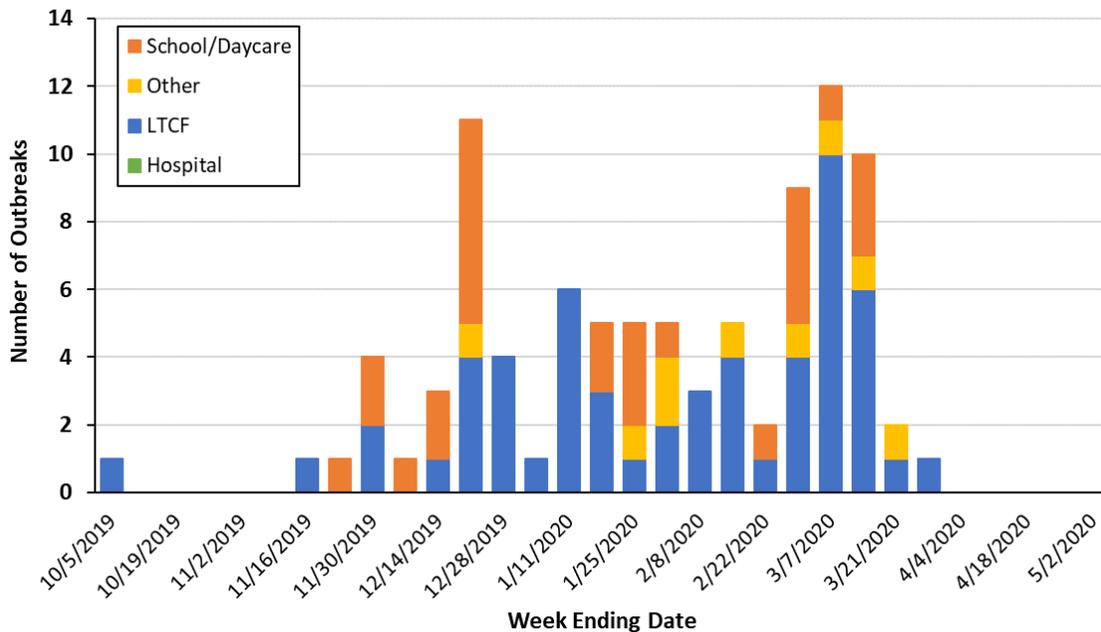
Hospitalizations: In Clackamas, Multnomah, and Washington counties no influenza-associated hospitalizations were reported during week 14 of 2020. In total, there have been 669 hospitalizations; 375 (56.1%) were positive for flu A and 294 (44.0%) were positive for flu B. Of the 60 flu A specimens that have been subtyped, 54 (90.0%) were 2009 H1N1 and 6 (10.0%) were H3. All 22 flu B specimens that were differentiated were Victoria lineage.

Figure 3. Portland Metro Area Influenza-Associated Hospitalizations by Week and Age Group, 2019-2020 Season



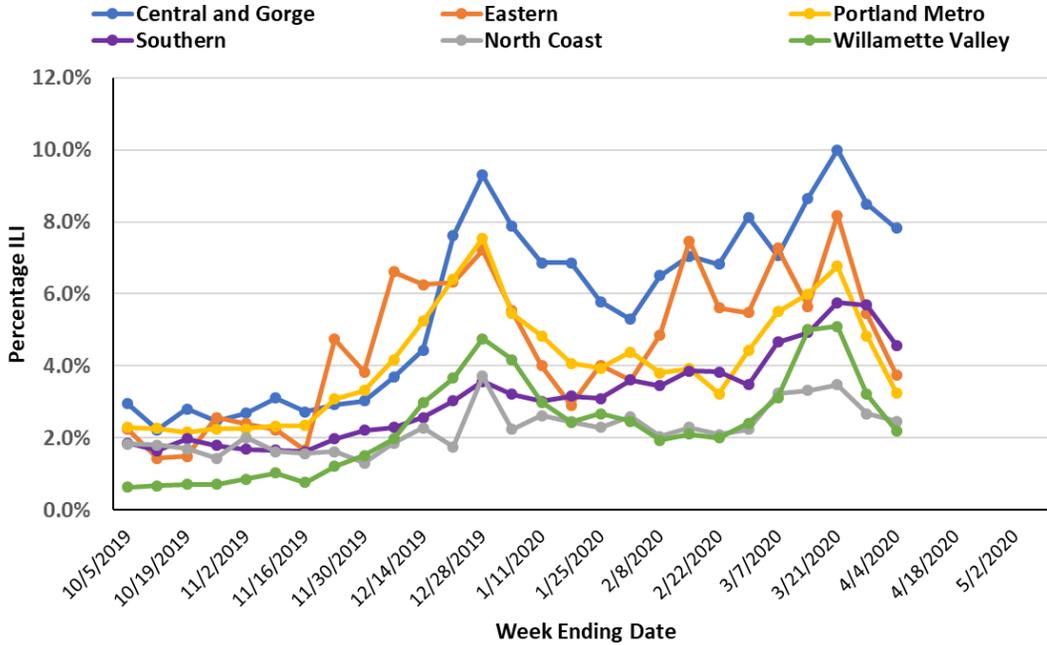
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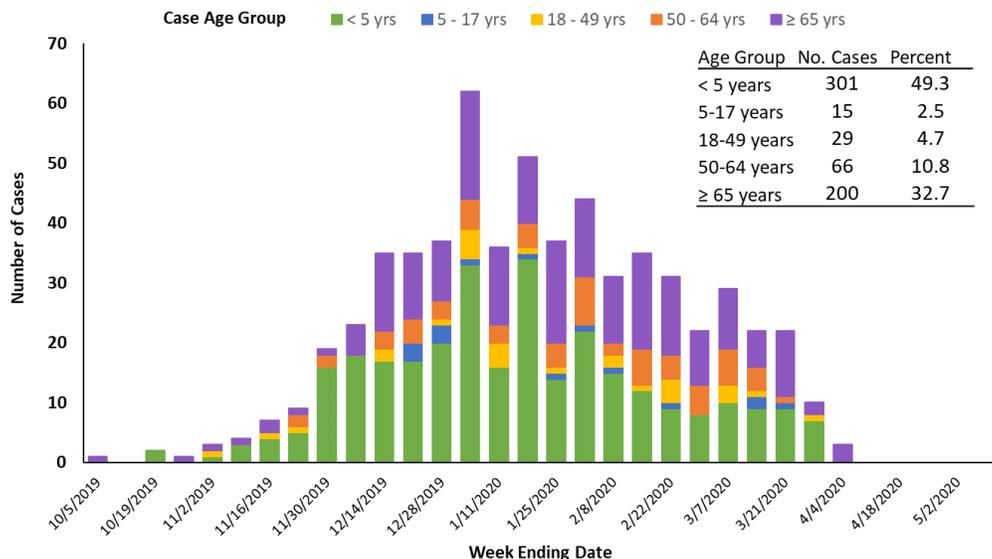
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RSV Hospitalizations: OHA conducts surveillance for lab confirmed RSV-associated hospitalizations in Clackamas, Multnomah, and Washington counties. Three RSV-associated hospitalizations were reported during week 14 of 2020. Since October 1, 2019, there have been a total of 611 hospitalizations; 301 hospitalizations (49.3%) were in children under the age of 5.

Figure 6: Portland Metro Area RSV-Associated Hospitalizations by Week and Age Group, 2019-2020 Season



Data at a Glance March 22—March 28, 2020 (Week 13)

	Current Week (13)	Previous Week (12)
Percentage of emergency department visits for ILI¹	5.4%	7.0%
Percentage positive influenza tests²	2.1%	5.7%
Influenza-associated hospitalizations³	3	19
Reported influenza outbreaks	1	2
Influenza-associated pediatric mortality	0	0
Respiratory Syncytial Virus (RSV) activity⁴	4.3%	6.2%

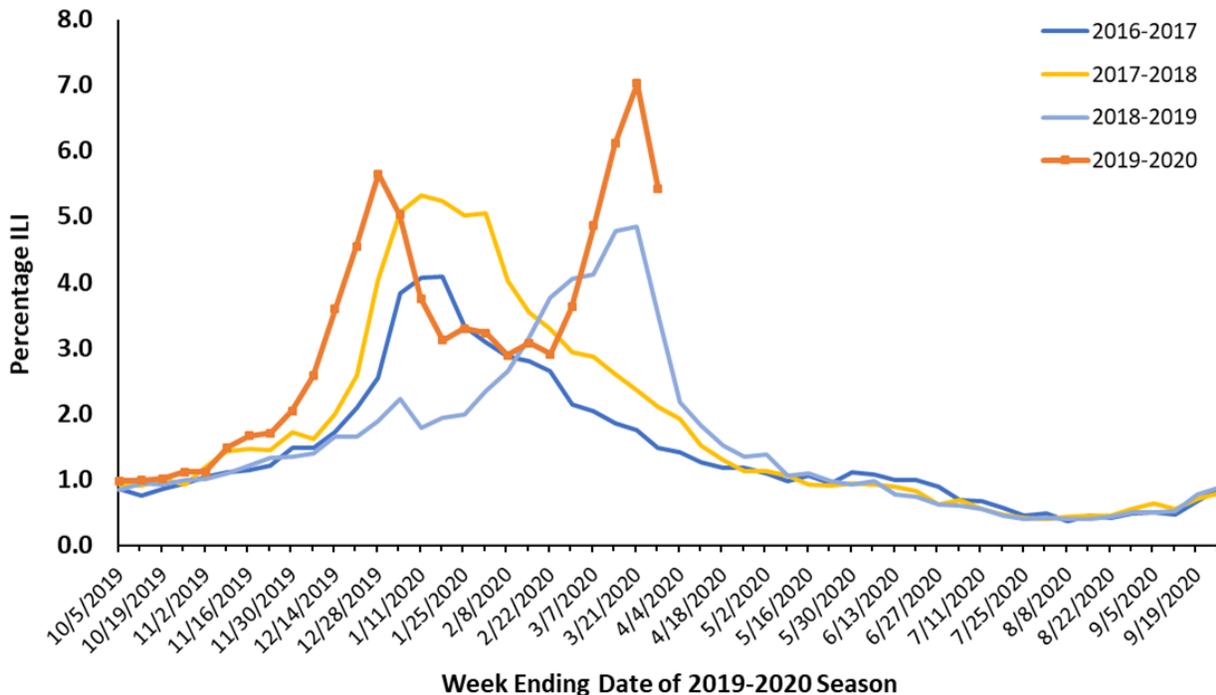
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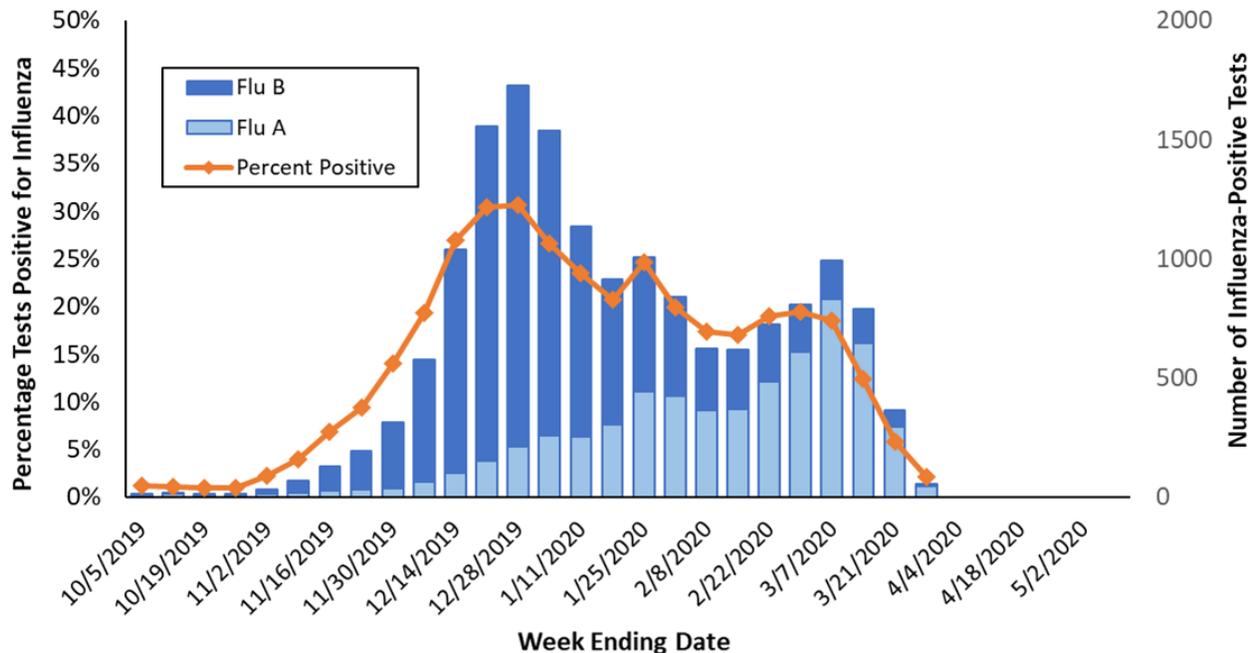
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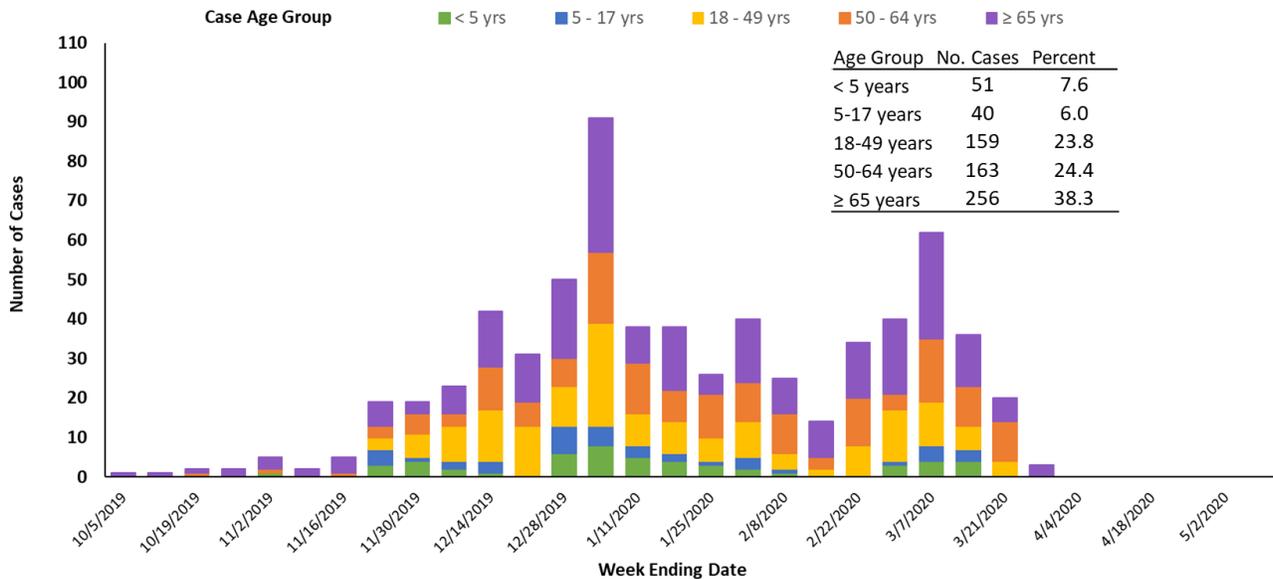
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		No.	(%)	No.	(%)	No.	(%)
Portland Metro	1374	34	2.5%	30	88.2%	4	11.8%
Southern Oregon	912	13	1.4%	7	53.8%	6	46.2%
Columbia Gorge	85	1	0.0%	1	0.0%	0	0.0%
Central Oregon	317	9	2.8%	6	66.7%	3	33.3%
Willamette Valley	48	0	0.0%	0	0.0%	0	0.0%
State Total	2736	57	2.1%	44	77.2%	13	22.8%

**Figure 2. Oregon Influenza Laboratory Surveillance
Percent Positive Influenza Tests by Week, NREVSS, 2019-2020 Season**



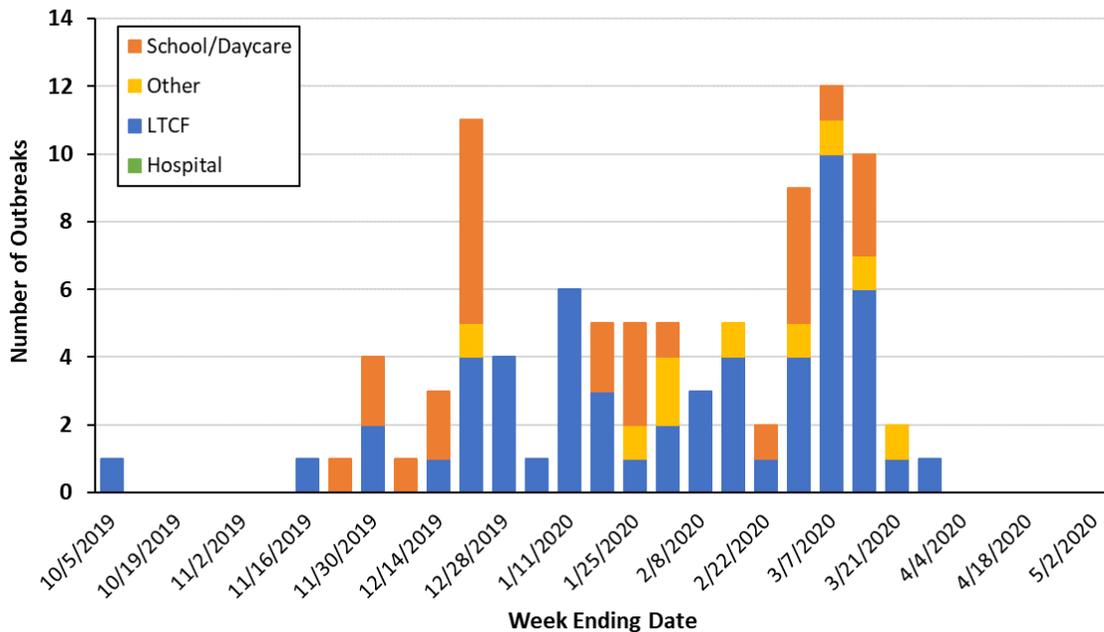
Hospitalizations: In Clackamas, Multnomah, and Washington counties 3 influenza-associated hospitalizations were reported during week 13 of 2020. In total, there have been 669 hospitalizations; 375 (56.1%) were positive for flu A and 294 (44.0%) were positive for flu B. Of the 60 flu A specimens that have been subtyped, 54 (90.0%) were 2009 H1N1 and 6 (10.0%) were H3. All 22 flu B specimens that were differentiated were Victoria lineage.

Figure 3. Portland Metro Area Influenza-Associated Hospitalizations by Week and Age Group, 2019-2020 Season



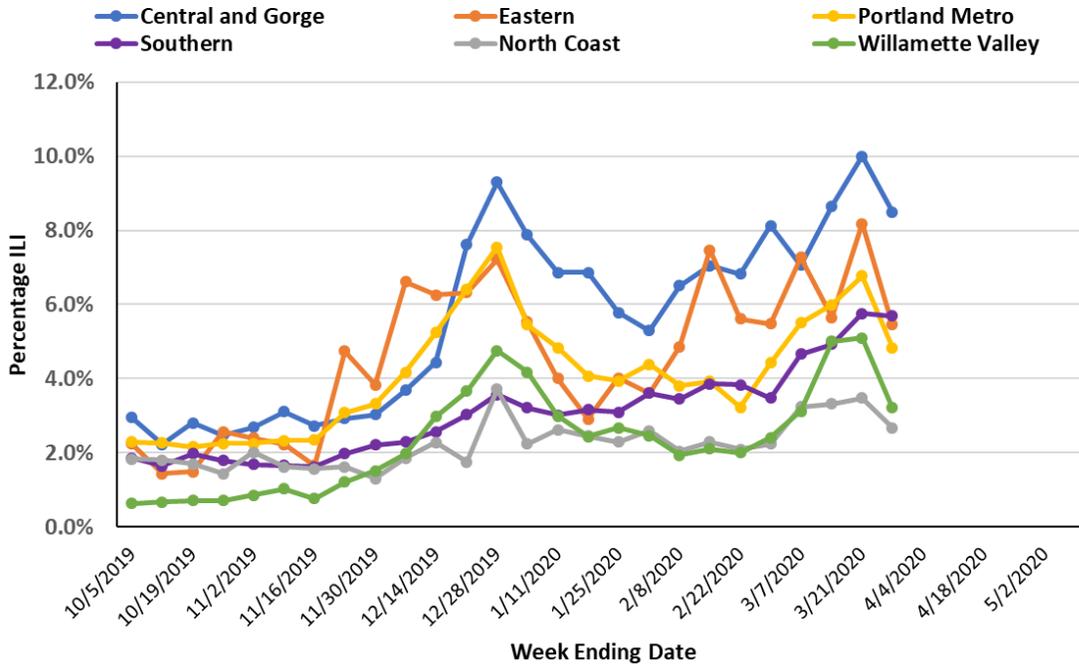
Influenza Outbreaks: There was 1 influenza outbreak reported during week 13, 2020. There have been a total of 92 influenza outbreaks reported to the Oregon Health Authority in the 2019—2020 flu season; 56 (60.9%) occurred in a long-term care facility, 27 (29.3%) occurred in a school, and 9 (9.8%) occurred in another setting.

Figure 4. Number of Influenza Outbreaks in Oregon by Setting, 2019-2020 Season



Outpatient Influenza-like Illness Surveillance: Oregon’s outpatient influenza-like illness (ILI) surveillance comprises 17 voluntary reporting outpatient providers, 64 emergency departments and urgent care clinics reporting to ESSENCE, and 310 OCHIN clinics from across Oregon. The percentage of outpatients seen with ILI across the state during week 13 of 2020 was 4.9%. Regionally, the percentage was

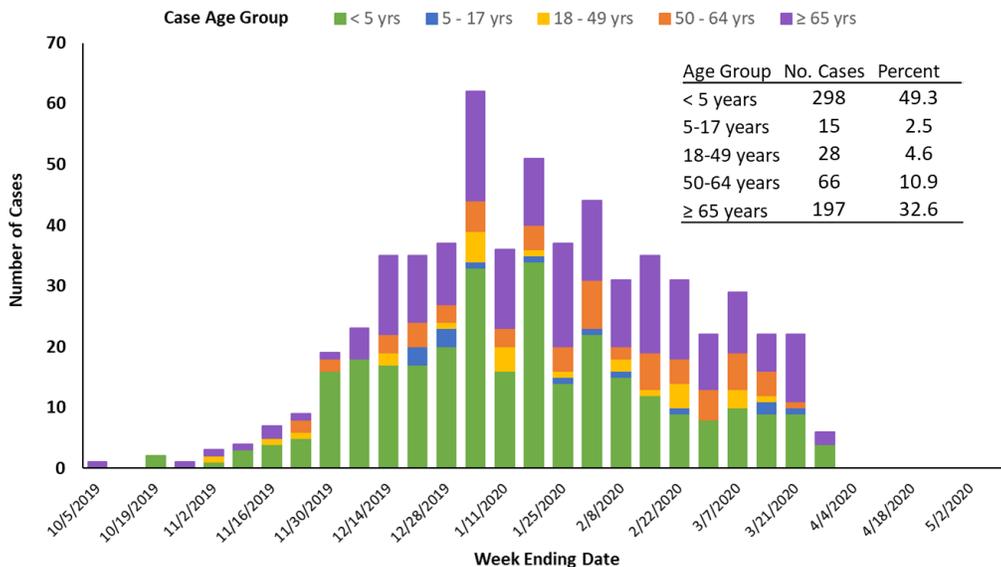
Figure 5. Percentage of Visits for ILI at Outpatient Clinics & Emergency Departments, by Oregon Region, 2019-2020



Influenza-Associated Pediatric Mortality Surveillance: Influenza-associated deaths in children 17 years of age and younger are nationally notifiable. There were no pediatric flu deaths in Oregon reported during week 13, 2020. There have been a total of 3 influenza-associated pediatric deaths reported to the Oregon Health Authority in the 2019—2020 flu season.

RSV Hospitalizations: OHA conducts surveillance for lab confirmed RSV-associated hospitalizations in Clackamas, Multnomah, and Washington counties. 6 RSV-associated hospitalizations were reported during week 13 of 2020. Since October 1, 2019, there have been a total of 604 hospitalizations; 298 hospitalizations (49.3%) were in children under the age of 5.

Figure 6: Portland Metro Area RSV-Associated Hospitalizations by Week and Age Group, 2019-2020 Season



Data at a Glance March 15—March 21, 2020 (Week 12)

	Current Week (12)	Previous Week (11)
Percentage of emergency department visits for ILI¹	7.0%	6.1%
Percentage positive influenza tests²	5.7%	12.5%
Influenza-associated hospitalizations³	19	35
Reported influenza outbreaks	19	23
Influenza-associated pediatric mortality	0	1
Respiratory Syncytial Virus (RSV) activity⁴	6.2%	8.3%

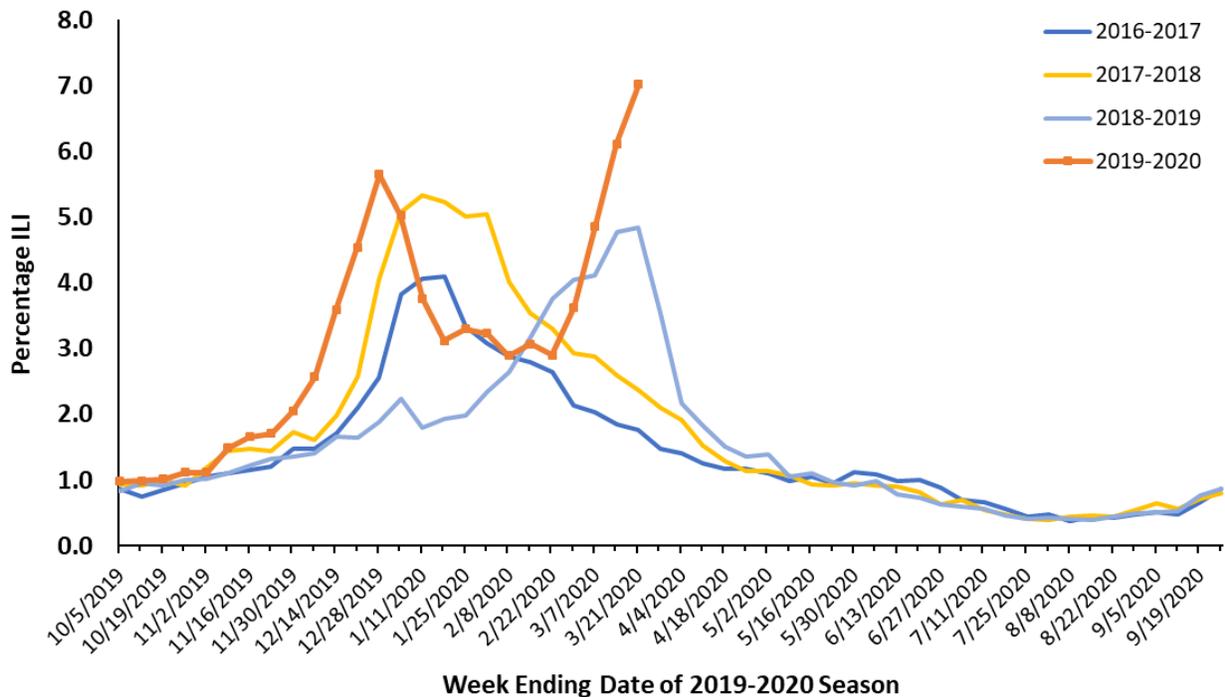
¹Based on Oregon ESSENCE Syndromic Surveillance. Data represent statewide aggregate percent.

²Percent positivity based on data from Oregon reporters to the National Respiratory and Enteric Virus Surveillance System (NREVSS)

³Based on hospitalization surveillance in Clackamas, Multnomah, and Washington counties only.

⁴Percent positivity based on data from Oregon's RSV Laboratory Surveillance System.

Figure 1. Percentage of ED Visits for ILI, Oregon ESSENCE Syndromic Surveillance, 2016–2017, 2017–2018, 2018–2019, 2019–2020



Oregon ESSENCE Syndromic Surveillance: Oregon Public Health tracks hospital emergency department (ED) visits throughout the state using the Oregon ESSENCE syndromic surveillance system. ESSENCE categorizes chief complaints into syndrome categories, which include ILI. Figure 1, above, displays percentages for all of Oregon during this flu season compared with the previous three flu seasons. The percent of ED visits for ILI in all of Oregon was 7.0% during week 12, 2020.

Laboratory Surveillance: The National Respiratory and Enteric Virus Surveillance System (NREVSS) is a laboratory-based system that monitors influenza and other respiratory viruses circulating the United States. More information is at CDC's [website](#).

Table 1 shows the tests conducted and results by region for the current week for influenza in specimens tested at the Oregon laboratories reporting to NREVSS. Figure 2 shows that 5.7% of specimens tested at Oregon labs were positive for influenza during week 12, and the bar chart displays the number of influenza-positive tests by flu type and percent positivity.

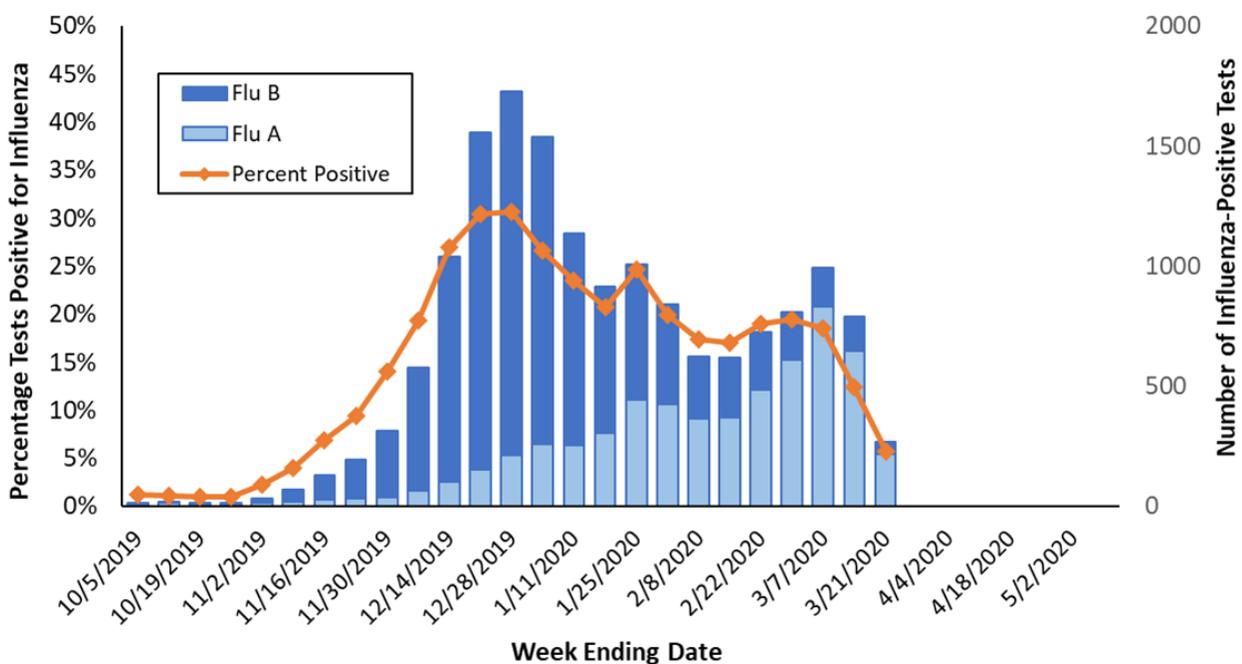
Participation by laboratories is voluntary. Current labs participating in NREVSS in Oregon include:

Legacy Emanuel Hospital and Health Center (Portland, OR), Oregon Health & Science University (Portland, OR), Providence Health (Oregon), Kaiser Permanente (Oregon), Veteran's Administration Hospital (Portland, OR), Adventist Health (Portland, OR), Bay Area Hospital (Coos Bay, OR), Curry Health Network (Brookings, OR), Mercy Medical Center (Roseburg, OR), Sky Lakes Medical Center (Klamath Falls, OR), Lake Health District, (Lakeview, OR), Rogue Valley Medical Center (SW Oregon), Good Shepherd Medical Center (Hermiston, OR), Grande Ronde Hospital, (La Grande, OR), Mid-Columbia Medical Center (The Dalles, OR), Central Oregon Pediatric Associates (Central Oregon), Harney District Hospital (Burns, OR), St. Charles (Bend, OR), Samaritan Health Services (Lebanon, OR), Columbia Memorial Hospital (Astoria, OR), PeaceHealth Southwest Medical Center (Vancouver, WA), Salem Hospital (Salem, OR), Willamette Valley Medical Center (McMinnville, OR).

Table 1. Influenza Test Results in Oregon by Region, NREVSS, Current Week, 2019–2020 Season

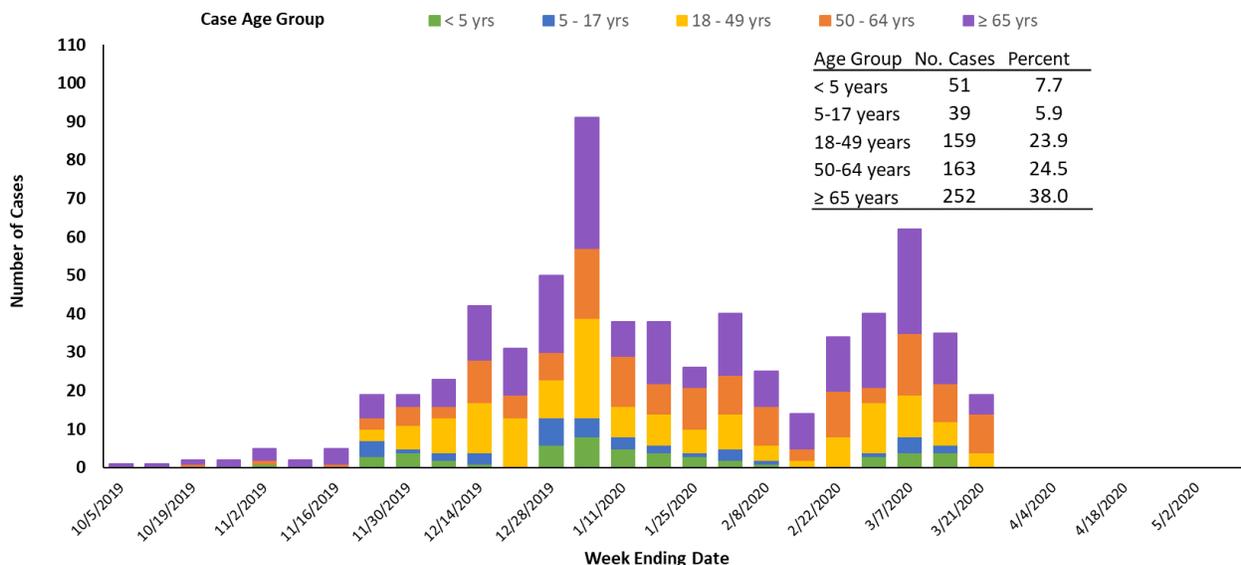
Region	Total Tests	Positive		Flu A		Flu B	
		No.	(%)	No.	(%)	No.	(%)
Portland Metro	1476	93	6.3%	85	91.4%	8	8.6%
Southern Oregon	2014	101	5.0%	63	62.4%	38	37.6%
Columbia Gorge	158	20	0.0%	19	0.0%	1	0.0%
Central Oregon	444	27	6.1%	25	92.6%	2	7.4%
Willamette Valley	627	29	4.6%	26	89.7%	3	10.3%

Figure 2. Oregon Influenza Laboratory Surveillance
Percent Positive Influenza Tests by Week, NREVSS, 2019-2020 Season



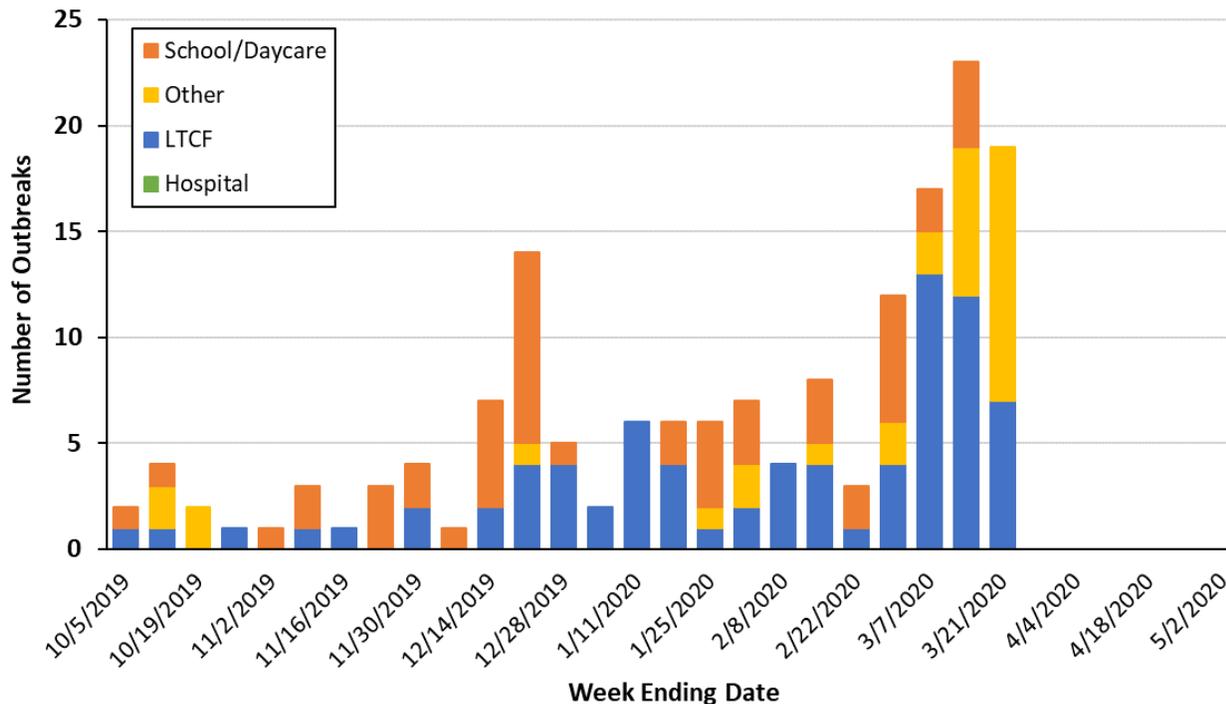
Hospitalizations: In Clackamas, Multnomah, and Washington counties 19 influenza-associated hospitalizations were reported during week 12 of 2020. In total, there have been 664 hospitalizations; 370 (55.7%) were positive for flu A and 294 (44.3%) were positive for flu B. Of the 60 flu A specimens that have been subtyped, 54 (90.0%) were 2009 H1N1 and 6 (10.0%) were H3. All 22 flu B specimens that were differentiated were Victoria lineage.

Figure 3. Portland Metro Area Influenza-Associated Hospitalizations by Week and Age Group, 2019-2020 Season



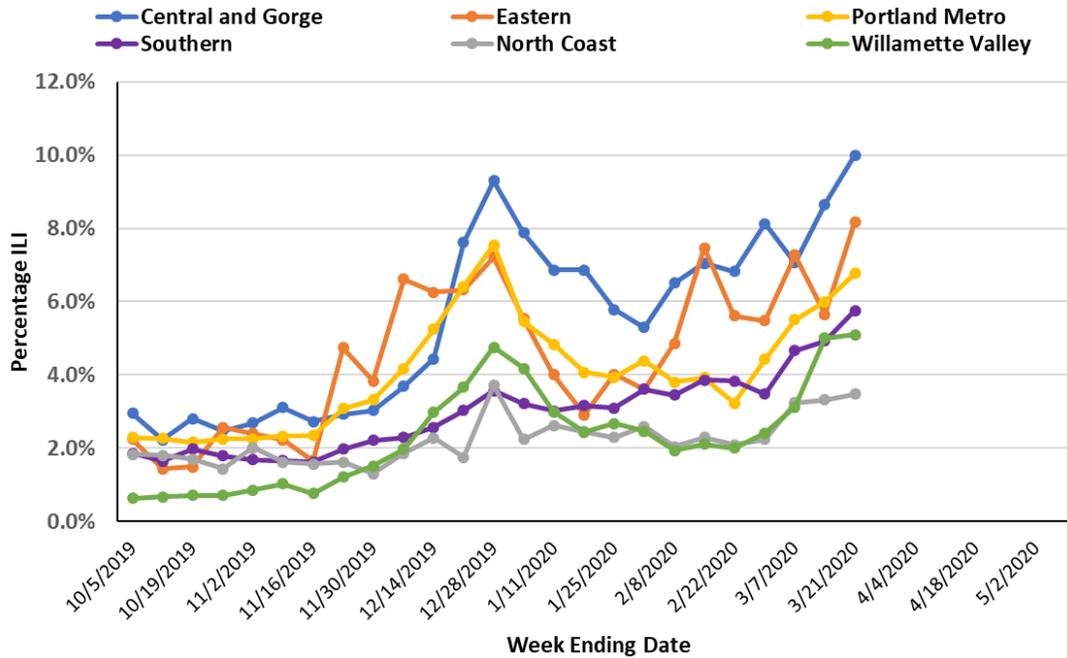
Influenza Outbreaks: There were 19 influenza outbreaks reported during week 12, 2020. There have been a total of 161 influenza outbreaks reported to the Oregon Health Authority in the 2019—2020 flu season; 77 (47.8%) occurred in a long-term care facility, 52 (32.3%) occurred in a school, and 32 (19.9%) occurred in another setting.

Figure 4. Number of Influenza Outbreaks in Oregon by Setting, 2019-2020 Season



Outpatient Influenza-like Illness Surveillance: Oregon’s outpatient influenza-like illness (ILI) surveillance comprises 17 voluntary reporting outpatient providers, 64 emergency departments and urgent care clinics reporting to ESSENCE, and 310 OCHIN clinics from across Oregon. The percentage of outpatients seen with ILI across the state during week 12 of 2020 was 6.4%. Regionally, the percentage was highest in the Central and Gorge region (10.0%) and lowest in the North Coast (3.5%).

Figure 5. Percentage of Visits for ILI at Outpatient Clinics & Emergency Departments, by Oregon Region, 2019-2020



Influenza-Associated Pediatric Mortality Surveillance: Influenza-associated deaths in children 17 years of age and younger are nationally notifiable. There were no pediatric flu deaths in Oregon reported during week 12, 2020. There have been a total of 3 influenza-associated pediatric deaths reported to the Oregon Health Authority in the 2019—2020 flu season.

Immunizations data: Influenza-Associated Pediatric Mortality Surveillance: Weekly influenza immunization reporting is based on ALERT Immunization Information System (ALERT IIS) data through Epi Week 12 of 2020 (March 21st). Rates of new influenza immunization per week, while declining, continue to run above what is normally observed at this time of year. As a caveat, while most immunizations are reported quickly and electronically to ALERT IIS, some reporting is delayed- current weekly totals will be adjusted upward later.

Figure 6. 2019-2020 Oregon Flu Vaccine Doses in ALERT IIS by Epi Week

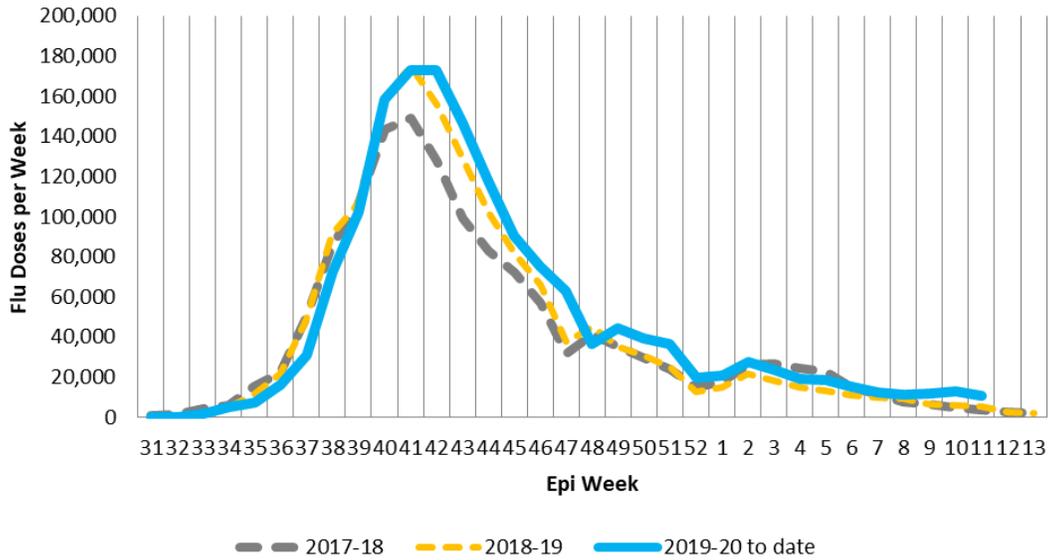
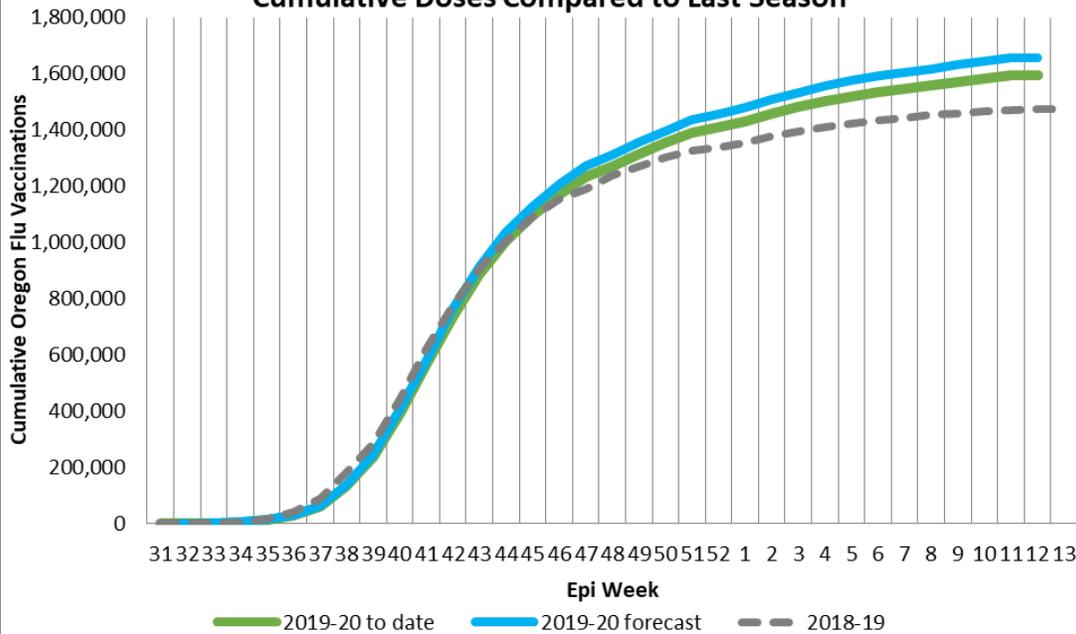


Figure 7. 2019-2020 Flu Vaccination in ALERT IIS by Epi Week, Cumulative Doses Compared to Last Season



US Data (from CDC FluView): Laboratory confirmed flu activity as reported by clinical laboratories continues to decrease; however, influenza-like illness activity is increasing. Influenza severity indicators remain moderate to low overall, but hospitalization rates differ by age group, with high rates among children and young adults.

Viruses

- **Clinical Labs:** The percentage of respiratory specimens testing positive for influenza at clinical laboratories decreased from 14.9% last week to 6.9% this week.
- **Public Health Labs:** Nationally, influenza A(H1N1)pdm09 viruses are now the most commonly reported influenza viruses this season.

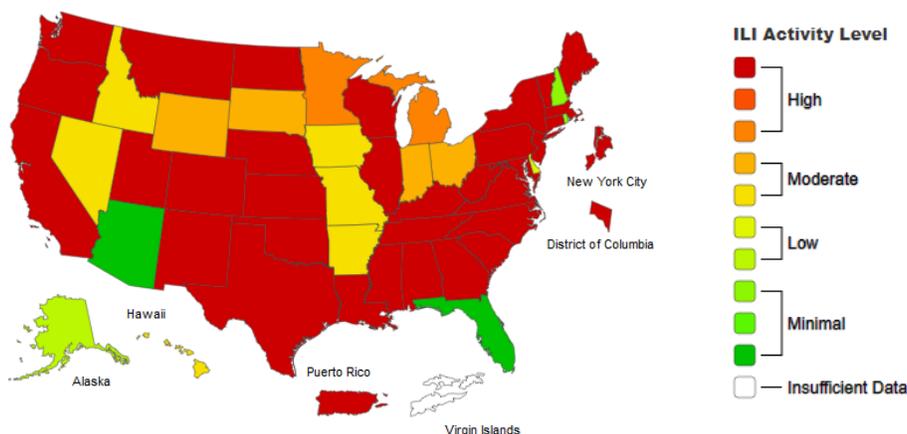
Illness

- **ILINet Outpatient Illness:** Visits to health care providers for influenza-like illness (ILI) increased from 5.6% last week to 6.4% this week. All regions are above their baselines.
- **ILINet Activity Map:** The number of jurisdictions experiencing high ILI activity decreased from 40 last week to 37 this week.
- **Geographic Spread:** The number of jurisdictions reporting regional or widespread influenza activity decreased from 50 last week to 49 this week.

Severe Disease

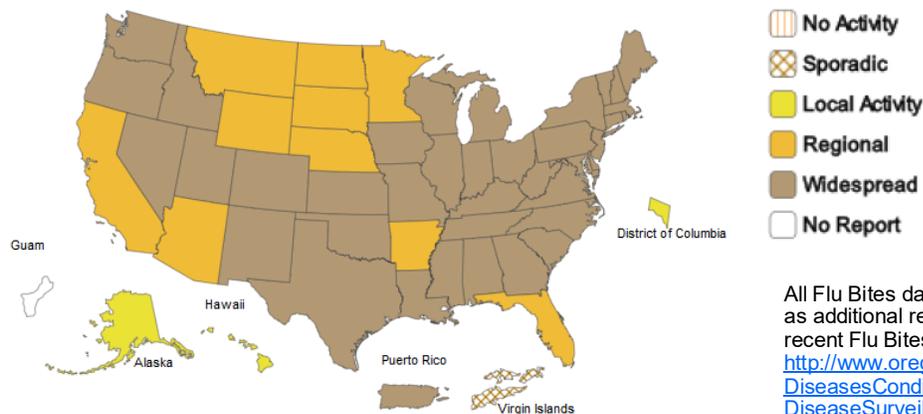
- **Hospitalizations:** The overall cumulative hospitalization rate for the season increased to 67.3 per 100,000.
- **P&I Mortality:** The percentage of deaths attributed to pneumonia and influenza is 7.4%, above the epidemic threshold of 7.3%.
- **Pediatric Deaths:** 6 influenza-associated pediatric deaths occurring during the 2019-2020 season were reported this week. The total for the season is 155.

**Influenza-like Illness (ILI) Activity Level Indicator Determined by Data Reported to ILINet
2019-20 Infection Season Week 12— ending March 21, 2020**



Map above: This map uses the proportion of outpatient visits to ILINet sentinel providers for influenza-like illness to measure the ILI activity level within a state. It does not, however, measure the extent of geographic spread of flu within a state. Therefore, outbreaks occurring in a single city could cause the state to display high activity levels.

**Weekly Influenza Activity Estimates Reported by State and Territorial Epidemiologists
2019-20 Infection Season Week 12— ending March 21, 2020**



Map left: The map left measures the geographic spread of influenza viruses, but does not measure the intensity of influenza activity.

All Flu Bites data are preliminary and may change as additional reports are received. Find the most recent Flu Bites report online at: <http://www.oregon.gov/oha/ph/DiseasesConditions/CommunicableDisease/DiseaseSurveillanceData/Influenza/Pages/surveil.aspx>

Data at a Glance March 8—March 14, 2020 (Week 11)

	Current Week (11)	Previous Week (10)
Percentage of emergency department visits for ILI¹	6.1%	4.9%
Percentage positive influenza tests²	12.5%	18.5%
Influenza-associated hospitalizations³	33	60
Reported influenza outbreaks	2	10
Influenza-associated pediatric mortality	1	0
Respiratory Syncytial Virus (RSV) activity⁴	8.3%	12.6%

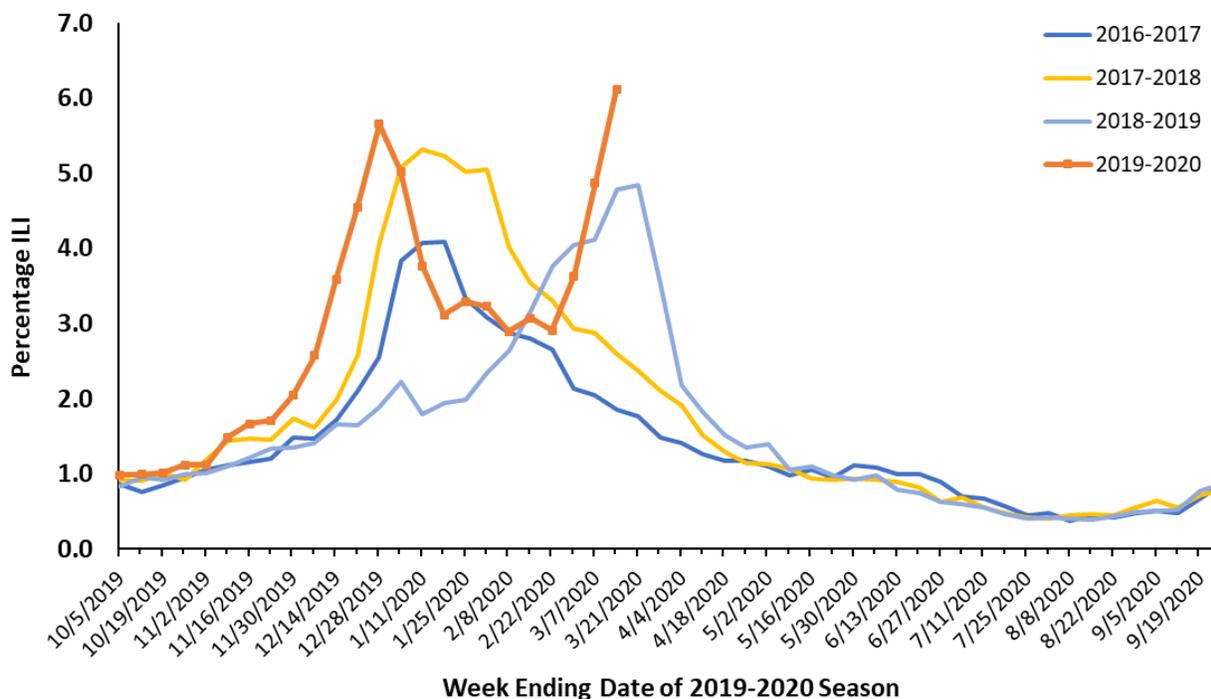
¹Based on Oregon ESSENCE Syndromic Surveillance. Data represent statewide aggregate percent.

²Percent positivity based on data from Oregon reporters to the National Respiratory and Enteric Virus Surveillance System (NREVSS)

³Based on hospitalization surveillance in Clackamas, Multnomah, and Washington counties only.

⁴Percent positivity based on data from Oregon's RSV Laboratory Surveillance System.

Figure 1. Percentage of ED Visits for ILI, Oregon ESSENCE Syndromic Surveillance, 2016–2017, 2017–2018, 2018–2019, 2019–2020



Oregon ESSENCE Syndromic Surveillance: Oregon Public Health tracks hospital emergency department (ED) visits throughout the state using the Oregon ESSENCE syndromic surveillance system. ESSENCE categorizes chief complaints into syndrome categories, which include ILI. Figure 1, above, displays percentages for all of Oregon during this flu season compared with the previous three flu seasons. The percent of ED visits for ILI in all of Oregon was 6.1% during week 11, 2020.

Laboratory Surveillance: The National Respiratory and Enteric Virus Surveillance System (NREVSS) is a laboratory-based system that monitors influenza and other respiratory viruses circulating the United States. More information is at CDC’s [website](#).

Table 1 shows the tests conducted and results by region for the current week for influenza in specimens tested at the Oregon laboratories reporting to NREVSS. Figure 2 shows that 12.5% of specimens tested at Oregon labs were positive for influenza during week 11, and the bar chart displays the number of influenza -positive tests by flu type and percent positivity.

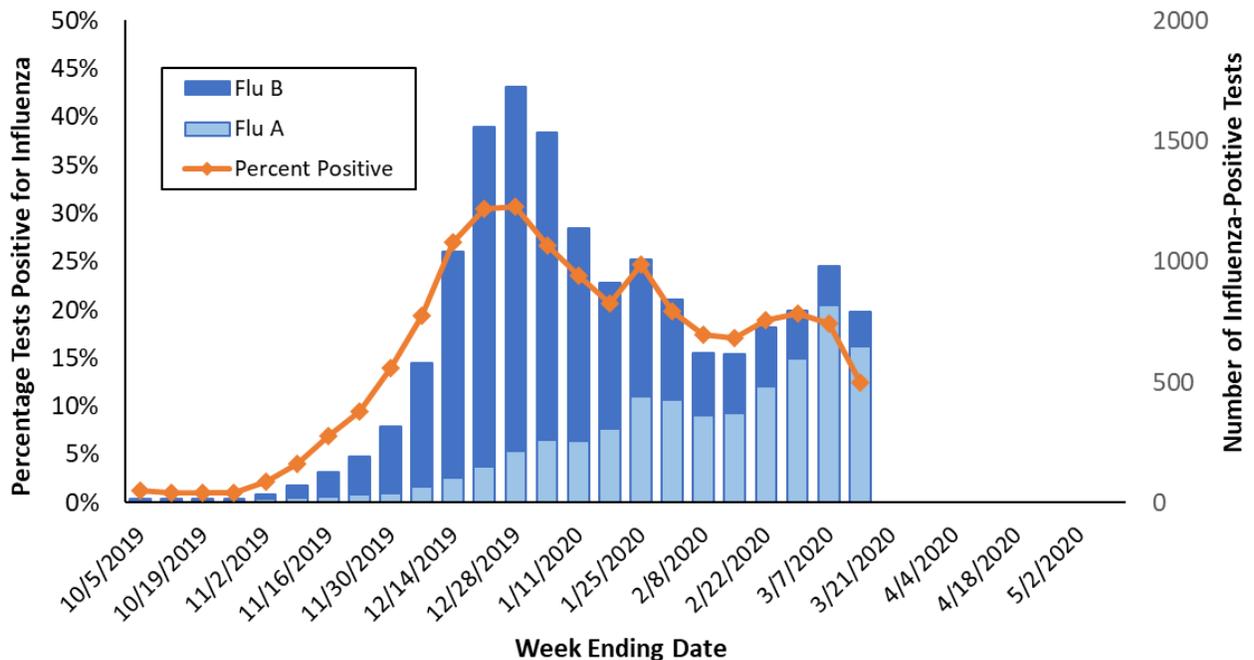
Participation by laboratories is voluntary. Current labs participating in NREVSS in Oregon include:

Legacy Emanuel Hospital and Health Center (Portland, OR), Oregon Health & Science University (Portland, OR), Providence Health (Oregon), Kaiser Permanente (Oregon), Veteran’s Administration Hospital (Portland, OR), Adventist Health (Portland, OR), Bay Area Hospital (Coos Bay, OR), Curry Health Network (Brookings, OR), Mercy Medical Center (Roseburg, OR), Sky Lakes Medical Center (Klamath Falls, OR), Lake Health District, (Lakeview, OR), Rogue Valley Medical Center (SW Oregon), Good Shepherd Medical Center (Hermiston, OR), Grande Ronde Hospital, (La Grande, OR), Mid-Columbia Medical Center (The Dalles, OR), Central Oregon Pediatric Associates (Central Oregon), Harney District Hospital (Burns, OR), St. Charles (Bend, OR), Samaritan Health Services (Lebanon, OR), Columbia Memorial Hospital (Astoria, OR), PeaceHealth Southwest Medical Center (Vancouver, WA), Salem Hospital (Salem, OR), Willamette Valley Medical Center (McMinnville, OR).

Table 1. Influenza Test Results in Oregon by Region, NREVSS, Current Week, 2019–2020 Season

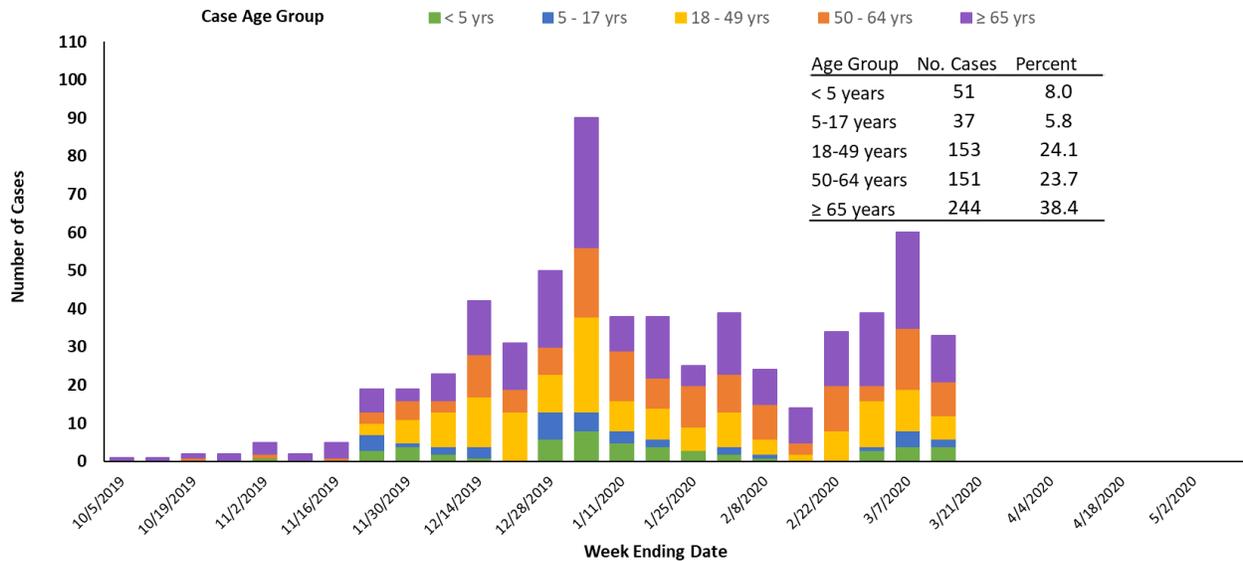
Region	Total Tests	Positive		Flu A		Flu B	
		No.	(%)	No.	(%)	No.	(%)
Portland Metro	3363	406	12.1%	360	88.7%	46	11.3%
Southern Oregon	1475	215	14.6%	140	65.1%	75	34.9%
Columbia Gorge	147	32	0.0%	32	0.0%	0	0.0%
Central Oregon	708	64	9.0%	50	78.1%	14	21.9%
Willamette Valley	659	74	11.2%	66	89.2%	8	10.8%
State Total	6352	791	12.5%	648	81.9%	143	18.1%

**Figure 2. Oregon Influenza Laboratory Surveillance
Percent Positive Influenza Tests by Week, NREVSS, 2019-2020 Season**



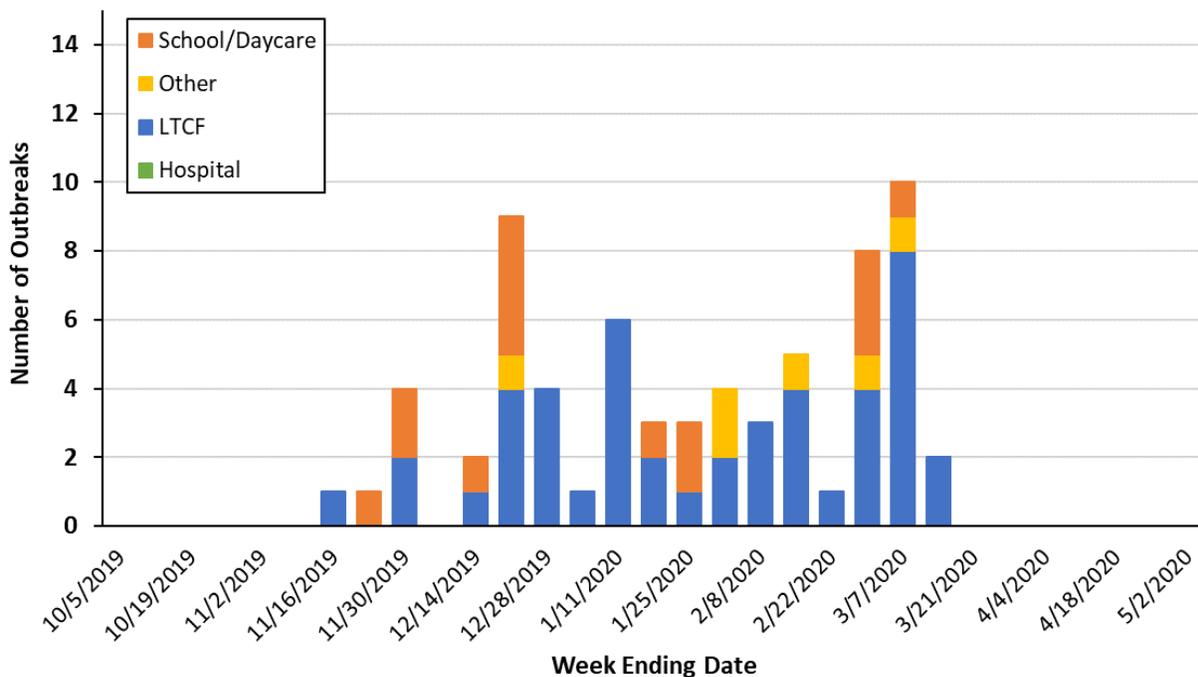
Hospitalizations: In Clackamas, Multnomah, and Washington counties 33 influenza-associated hospitalizations were reported during week 11 of 2020. In total, there have been 636 hospitalizations; 344 (54.1%) were positive for flu A and 292 (45.9%) were positive for flu B. Of the 56 flu A specimens that have been subtyped, 50 (89.3%) were 2009 H1N1 and 6 (10.7%) were H3. All 22 flu B specimens that were differentiated were Victoria lineage.

Figure 3. Portland Metro Area Influenza-Associated Hospitalizations by Week and Age Group, 2019-2020 Season



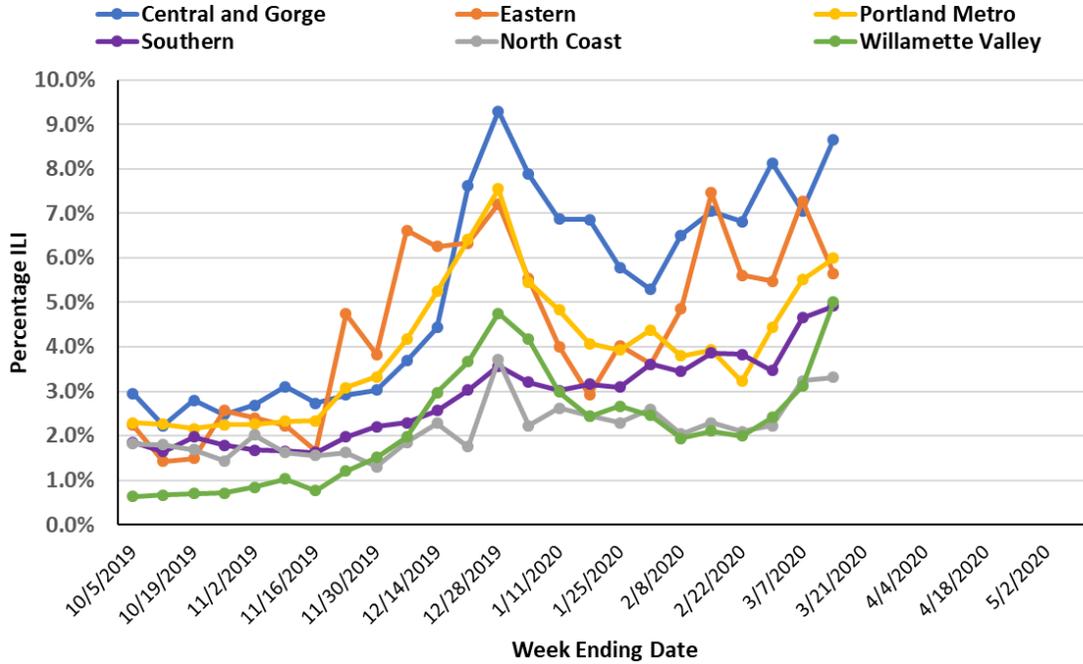
Influenza Outbreaks: There were 2 influenza outbreaks reported during week 11, 2020. There have been a total of 67 influenza outbreaks reported to the Oregon Health Authority in the 2019—2020 flu season; 46 (68.7%) occurred in a long-term care facility, 25 (22.4%) occurred in a school, and 6 (9.0%) occurred in another setting.

Figure 4. Number of Influenza Outbreaks in Oregon by Setting, 2019-2020 Season



Outpatient Influenza-like Illness Surveillance: Oregon’s outpatient influenza-like illness (ILI) surveillance comprises 17 voluntary reporting outpatient providers, 64 emergency departments and urgent care clinics reporting to ESSENCE, and 310 OCHIN clinics from across Oregon. The percentage of outpatients seen with ILI across the state during week 11 of 2020 was 5.7%. Regionally, the percentage was highest in the Central and Gorge region (8.7%) and lowest in the North Coast (3.3%).

Figure 5. Percentage of Visits for ILI at Outpatient Clinics & Emergency Departments, by Oregon Region, 2019-2020



Influenza-Associated Pediatric Mortality Surveillance: Influenza-associated deaths in children 17 years of age and younger are nationally notifiable. There was one pediatric flu death in Oregon reported during week 11, 2020. There have been a total of 3 influenza-associated pediatric deaths reported to the Oregon Health Authority in the 2019—2020 flu season.

US Data (from CDC FluView): Laboratory confirmed flu activity as reported by clinical laboratories continued to decrease; however, influenza-like illness activity increased. Influenza severity indicators remain moderate to low overall, but hospitalization rates differ by age group, with high rates among children and young adults.

Viruses

- **Clinical Labs:** The percentage of respiratory specimens testing positive for influenza at clinical laboratories decreased from 21.1% last week to 15.3% this week.
- **Public Health Labs:** Nationally, influenza A(H1N1)pdm09 viruses are now the most commonly reported influenza viruses this season.

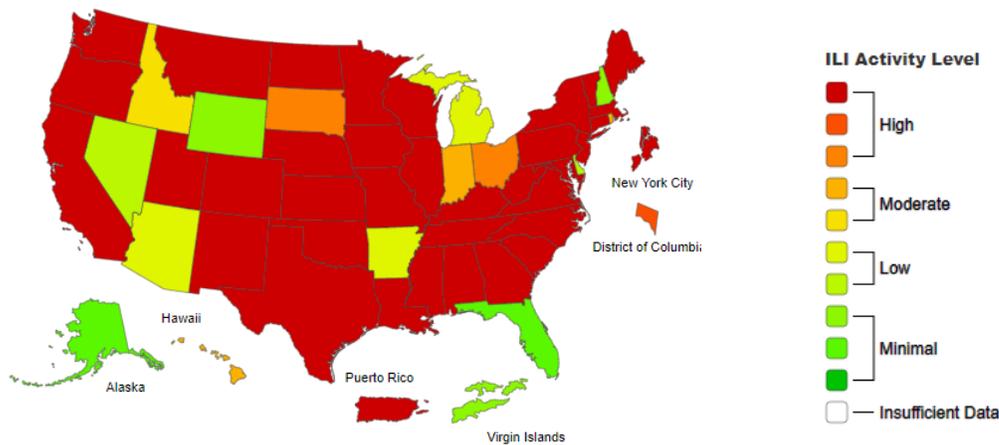
Illness

- **ILINet Outpatient Illness:** Visits to health care providers for influenza-like illness (ILI) increased from 5.2% last week to 5.8% this week. All regions are above their baselines.
- **ILINet Activity Map:** The number of jurisdictions experiencing high ILI activity decreased from 43 last week to 40 this week.
- **Geographic Spread:** The number of jurisdictions reporting regional or widespread influenza activity remained at 50 this week.

Severe Disease

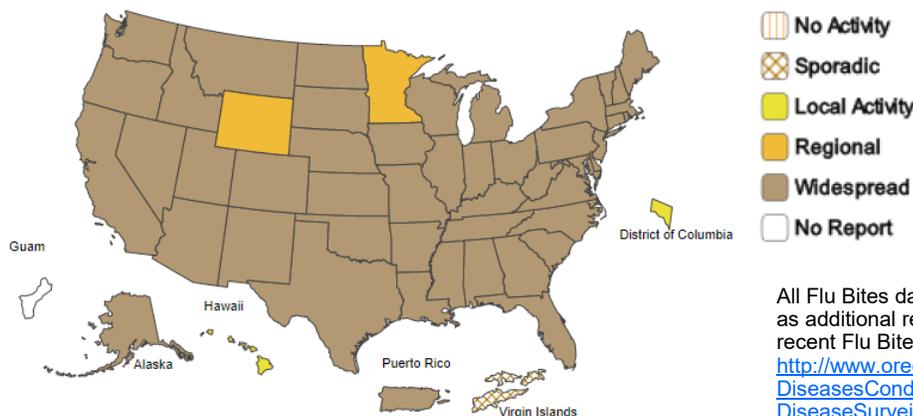
- **Hospitalizations:** The overall cumulative hospitalization rate for the season increased to 65.1 per 100,000.
- **P&I Mortality:** The percentage of deaths attributed to pneumonia and influenza is 7.1%, below the epidemic threshold of 7.3%.
- **Pediatric Deaths:** 5 influenza-associated pediatric deaths occurring during the 2019-2020 season were reported this week. The total for the season is 149.

**Influenza-like Illness (ILI) Activity Level Indicator Determined by Data Reported to ILINet
2019-20 Infection Season Week 11— ending March 14, 2020**



Map above: This map uses the proportion of outpatient visits to ILINet sentinel providers for influenza-like illness to measure the ILI activity level within a state. It does not, however, measure the extent of geographic spread of flu within a state. Therefore, outbreaks occurring in a single city could cause the state to display high activity levels.

**Weekly Influenza Activity Estimates Reported by State and Territorial Epidemiologists
2019-20 Infection Season Week 11— ending March 14, 2020**



Map left: The map left measures the geographic spread of influenza viruses, but does not measure the intensity of influenza activity.

All Flu Bites data are preliminary and may change as additional reports are received. Find the most recent Flu Bites report online at: <http://www.oregon.gov/oha/ph/DiseasesConditions/CommunicableDisease/DiseaseSurveillanceData/Influenza/Pages/surveil.aspx>

Data at a Glance February 23—February 29, 2020 (Week 09)

	Current Week (09)	Previous Week (08)
Percentage of emergency department visits for ILI ¹	3.6%	2.9%
Percentage positive influenza tests ²	19.7%	19.0%
Influenza-associated hospitalizations ³	28	30
Reported influenza outbreaks	8	2
Influenza-associated pediatric mortality	1	0
Respiratory Syncytial Virus (RSV) activity ⁴	12.9%	13.4%

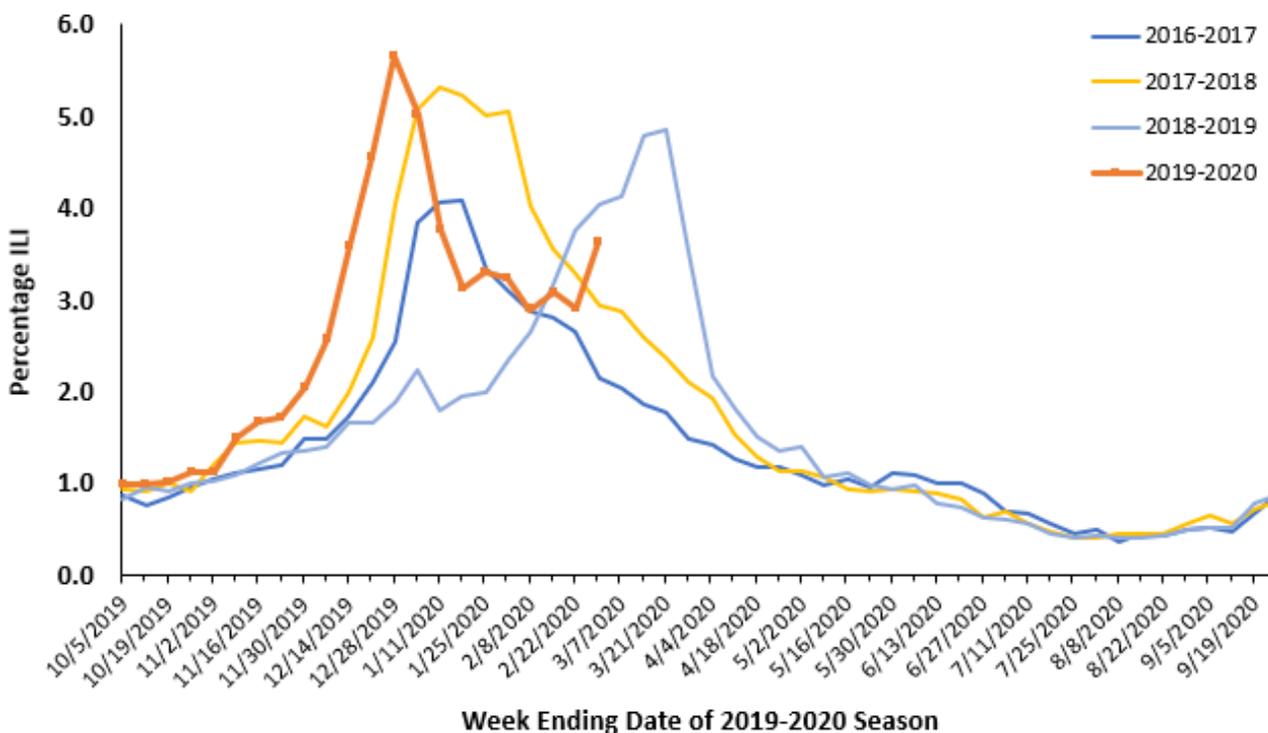
¹Based on Oregon ESSENCE Syndromic Surveillance. Data represent statewide aggregate percent.

²Percent positivity based on data from Oregon reporters to the National Respiratory and Enteric Virus Surveillance System (NREVSS)

³Based on hospitalization surveillance in Clackamas, Multnomah, and Washington counties only.

⁴Percent positivity based on data from Oregon's RSV Laboratory Surveillance System.

Figure 1. Percentage of ED Visits for ILI, Oregon ESSENCE Syndromic Surveillance, 2016–2017, 2017–2018, 2018–2019, 2019–2020



Oregon ESSENCE Syndromic Surveillance: Oregon Public Health tracks hospital emergency department (ED) visits throughout the state using the Oregon ESSENCE syndromic surveillance system. ESSENCE categorizes chief complaints into syndrome categories, which include ILI. Figure 1, above, displays percentages for all of Oregon during this flu season compared with the previous three flu seasons. The percent of ED visits for ILI in all of Oregon was 3.6% during week 9, 2020.

Laboratory Surveillance: The National Respiratory and Enteric Virus Surveillance System (NREVSS) is a laboratory-based system that monitors influenza and other respiratory viruses circulating the United States. More information is at CDC's [website](#).

Table 1 shows the tests conducted and results by region for the current week for influenza in specimens tested at the Oregon laboratories reporting to NREVSS. Figure 2 shows that 19.7% of specimens tested at Oregon labs were positive for influenza during week 9, and the bar chart displays the number of influenza-positive tests by flu type and percent positivity.

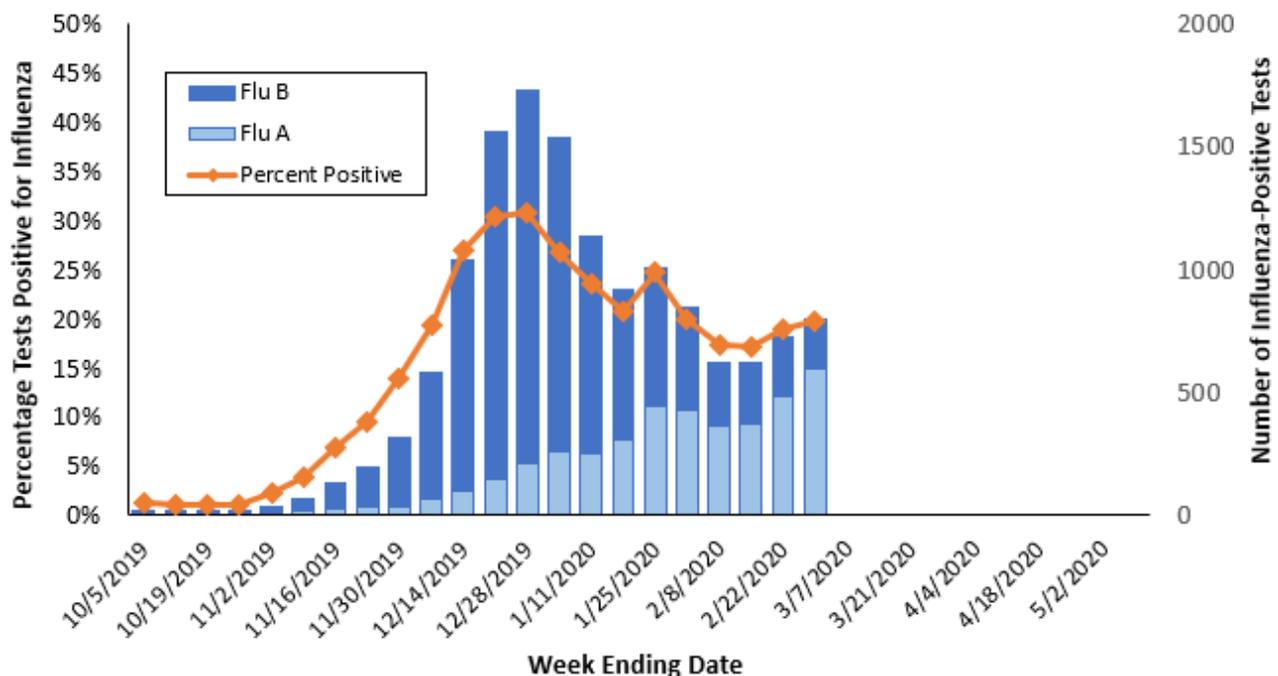
Participation by laboratories is voluntary. Current labs participating in NREVSS in Oregon include:

Legacy Emanuel Hospital and Health Center (Portland, OR), Oregon Health & Science University (Portland, OR), Providence Health (Oregon), Kaiser Permanente (Oregon), Veteran's Administration Hospital (Portland, OR), Adventist Health (Portland, OR), Bay Area Hospital (Coos Bay, OR), Curry Health Network (Brookings, OR), Mercy Medical Center (Roseburg, OR), Sky Lakes Medical Center (Klamath Falls, OR), Lake Health District, (Lakeview, OR), Rogue Valley Medical Center (SW Oregon), Good Shepherd Medical Center (Hermiston, OR), Grande Ronde Hospital, (La Grande, OR), Mid-Columbia Medical Center (The Dalles, OR), Central Oregon Pediatric Associates (Central Oregon), Harney District Hospital (Burns, OR), St. Charles (Bend, OR), Samaritan Health Services (Lebanon, OR), Columbia Memorial Hospital (Astoria, OR), PeaceHealth Southwest Medical Center (Vancouver, WA), Salem Hospital (Salem, OR), Willamette Valley Medical Center (McMinnville, OR).

Table 1. Influenza Test Results in Oregon by Region, NREVSS, Current Week, 2019–2020 Season

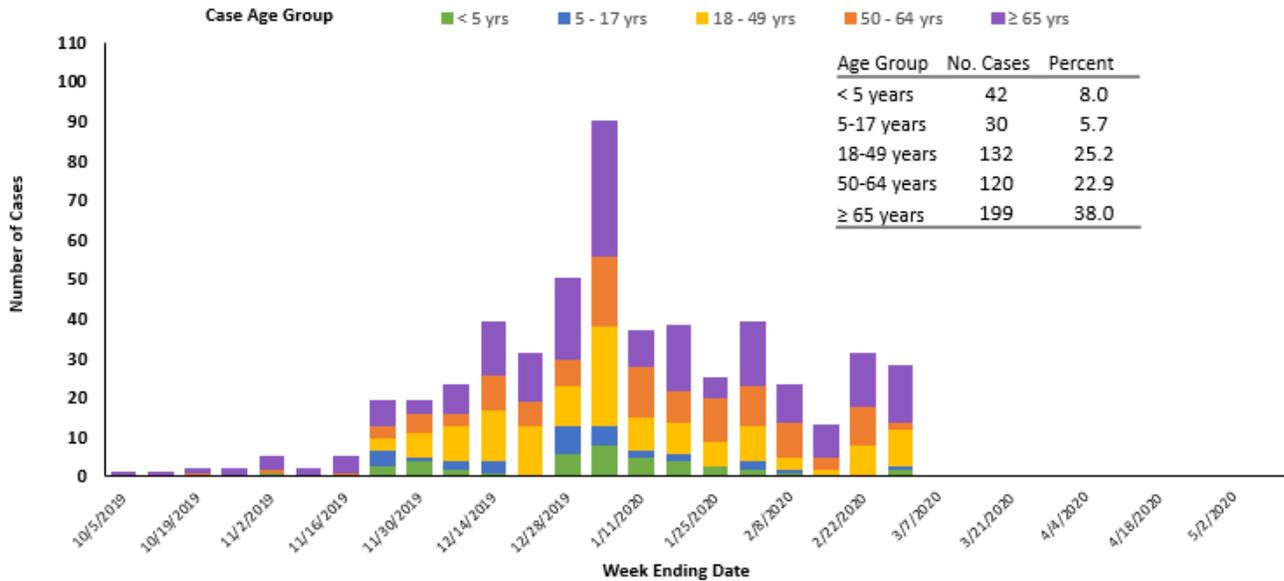
Region	Total Tests	Positive		Flu A		Flu B	
		No.	(%)	No.	(%)	No.	(%)
Portland Metro	2048	392	19.1%	326	83.2%	66	16.8%
Southern Oregon	1092	259	23.7%	152	58.7%	107	41.3%
Columbia Gorge	60	16	26.7%	15	93.8%	1	6.3%
Central Oregon	513	96	18.7%	76	79.2%	20	20.8%
Willamette Valley	337	33	9.8%	27	81.8%	6	18.2%
State Total	4050	796	19.7%	596	74.9%	200	25.1%

**Figure 2. Oregon Influenza Laboratory Surveillance
Percent Positive Influenza Tests by Week, NREVSS, 2019-2020 Season**



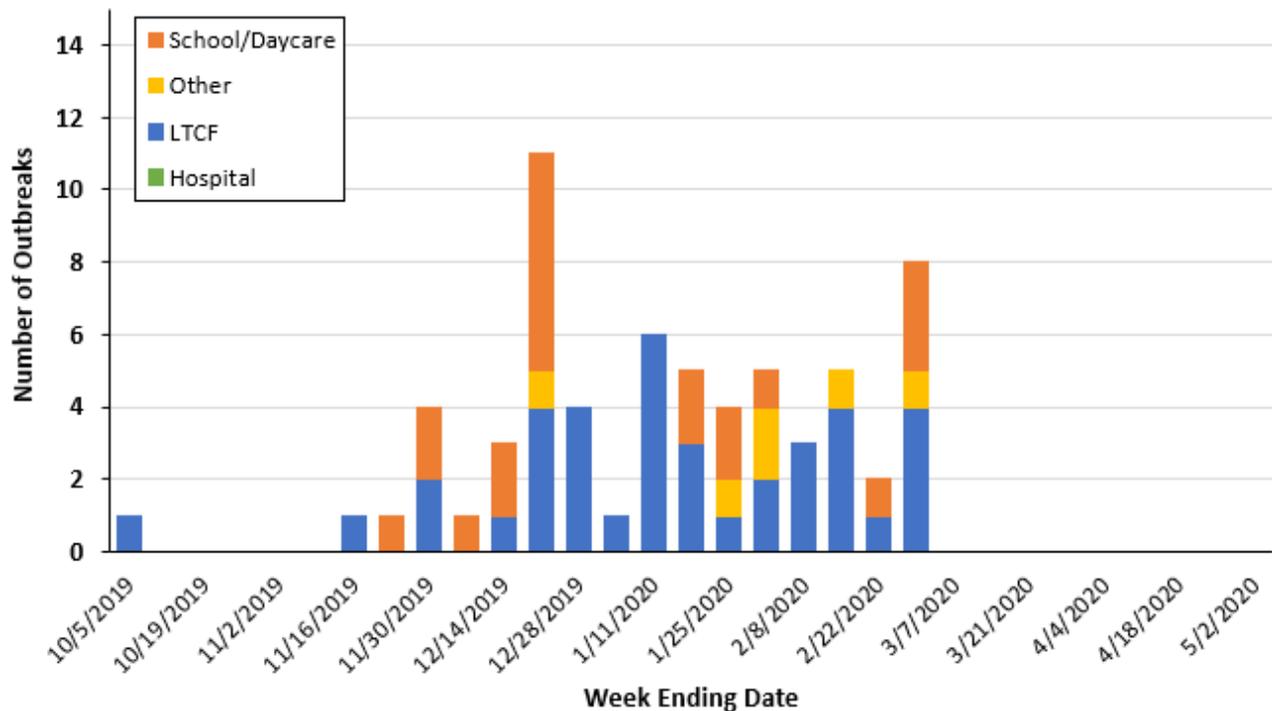
Hospitalizations: In Clackamas, Multnomah, and Washington counties 28 influenza-associated hospitalizations were reported during week 9 of 2020. In total, there have been 523 hospitalizations; 240 (45.9%) were positive for flu A and 283 (54.1%) were positive for flu B. Of the 40 flu A specimens that have been subtyped, 34 (85.0%) were 2009 H1N1 and 6 (15.0%) were H3. All 22 flu B specimens that were differentiated were Victoria lineage.

Figure 3. Portland Metro Area Influenza-Associated Hospitalizations by Week and Age Group, 2019-2020 Season



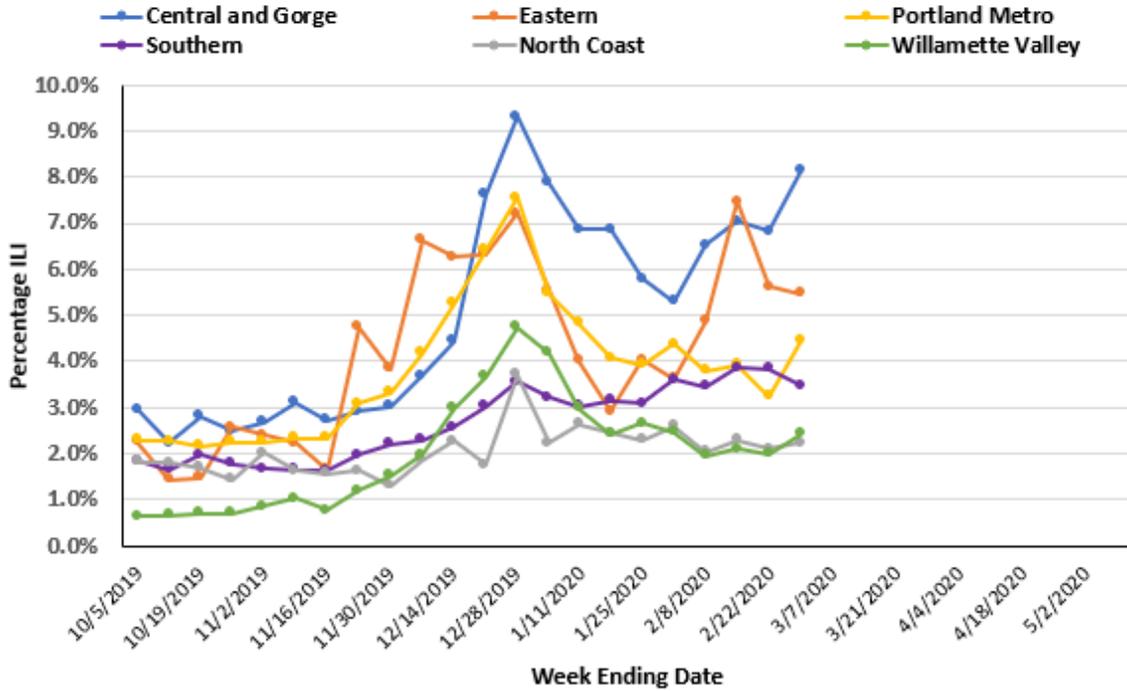
Influenza Outbreaks: There were 8 influenza outbreaks reported during week 9, 2020. There have been a total of 65 influenza outbreaks reported to the Oregon Health Authority in the 2019—2020 flu season; 38 (58.5%) occurred in a long-term care facility, 21 (32.3%) occurred in a school, and 6 (9.2%) occurred in another setting.

Figure 4. Number of Influenza Outbreaks in Oregon by Setting, 2019-2020 Season



Outpatient Influenza-like Illness Surveillance: Oregon’s outpatient influenza-like illness (ILI) surveillance comprises 17 voluntary reporting outpatient providers, 64 emergency departments and urgent care clinics reporting to ESSENCE, and 310 OCHIN clinics from across Oregon. The percentage of outpatients seen with ILI across the state during week 9 of 2020 was 4.1%. Regionally, the percentage was highest in the Central Oregon and Columbia Gorge region (8.1%) and lowest in the North Coast (2.2%).

Figure 5. Percentage of Visits for ILI at Outpatient Clinics & Emergency Departments, by Oregon Region, 2019-2020



Influenza-Associated Pediatric Mortality Surveillance: Influenza-associated deaths in children 17 years of age and younger are nationally notifiable. There was 1 pediatric flu death in Oregon reported during week 9, 2020. There have been a total of 2 influenza-associated pediatric deaths reported to the Oregon Health Authority in the 2019—2020 flu season.

Immunizations data: Weekly influenza immunization reporting is based on ALERT Immunization Information System (ALERT IIS) data through epi week 9 of 2020 (February 29th). Rates of new influenza immunization per week are currently running slightly above what is typically seen at this time of the season. As a caveat, while most immunizations are reported quickly and electronically to ALERT IIS, some reporting is delayed- current weekly totals will be adjusted upward later.

Figure 6. 2019-2020 Oregon Flu Vaccine Doses in ALERT IIS by Epi Week

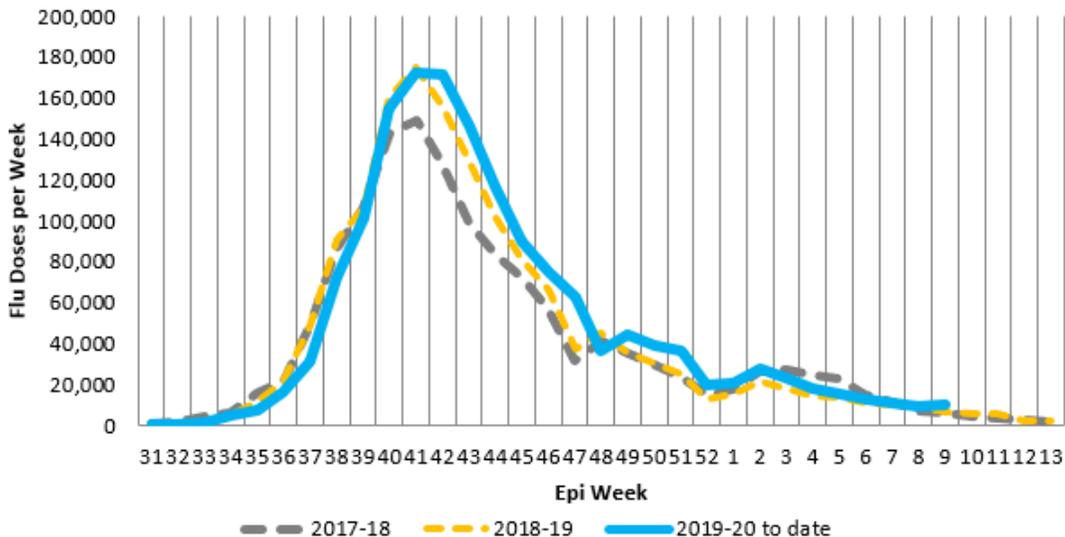


Figure 7. 2019-2020 Flu Vaccination in ALERT IIS by Epi Week, Cumulative Doses Compared to Last Season

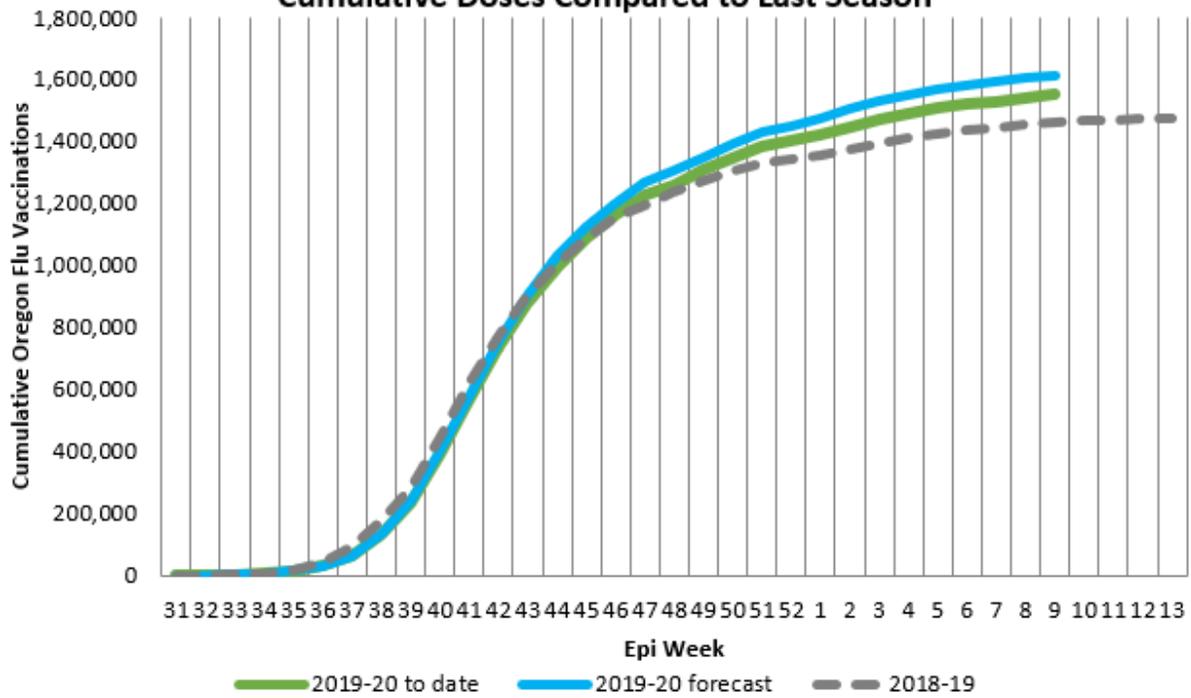
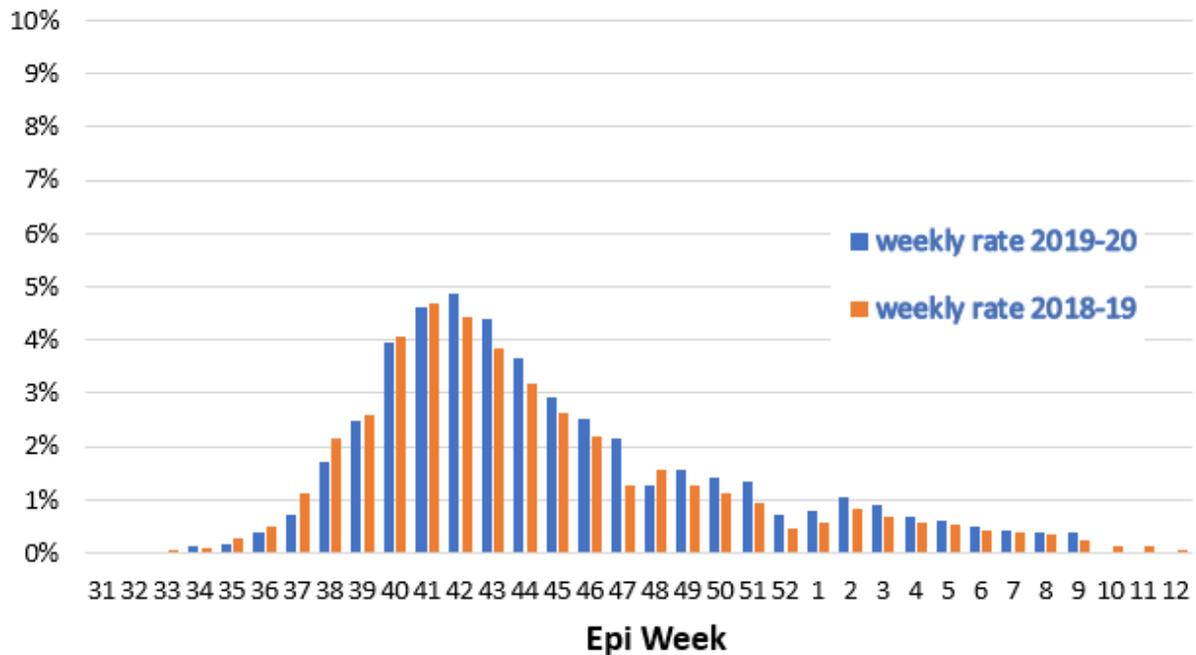


Figure 8. Weekly Influenza Immunization Rate Among Not-Yet Immunized Oregonians, 2019-20 Compared to 2018-19 by Epi Week



US Data (from CDC FluView): Key indicators that track flu activity remain high but decreased for the third week in a row. Severity indicators (hospitalizations and deaths) remain moderate to low overall, but hospitalization rates differ by age group, with high rates among children and young adults.

Viruses

- **Clinical Labs:** The percentage of respiratory specimens testing positive for influenza at clinical laboratories decreased from 28.0% last week to 24.3% this week.
- **Public Health Labs:** Nationally, influenza A(H1N1)pdm09 viruses are now the most commonly reported influenza viruses this season.

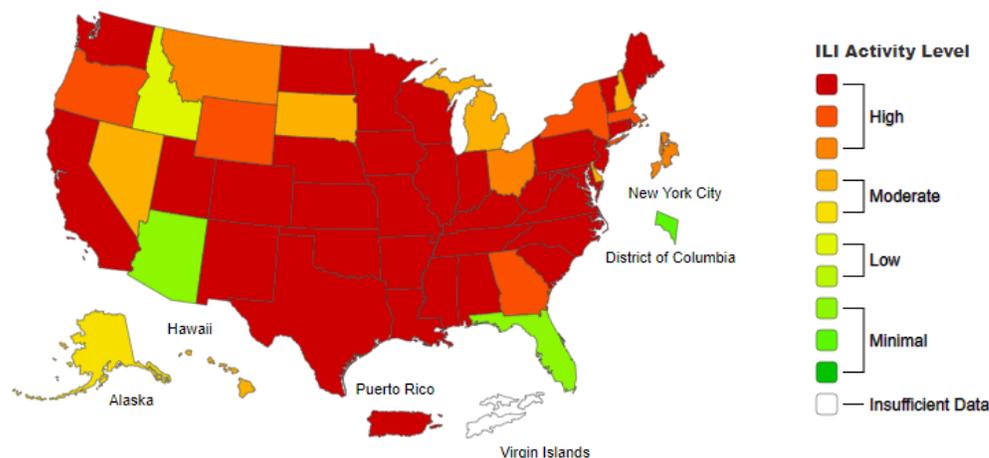
Illness

- **ILINet Outpatient Illness:** Visits to health care providers for influenza-like illness (ILI) decreased from 5.5% last week to 5.3% this week. All regions remain above their baselines.
- **ILINet Activity Map:** The number of jurisdictions experiencing high ILI activity decreased from 45 last week to 42 this week.
- **Geographic Spread:** The number of jurisdictions reporting regional or widespread influenza activity increased from 50 last week to 51 this week.

Severe Disease

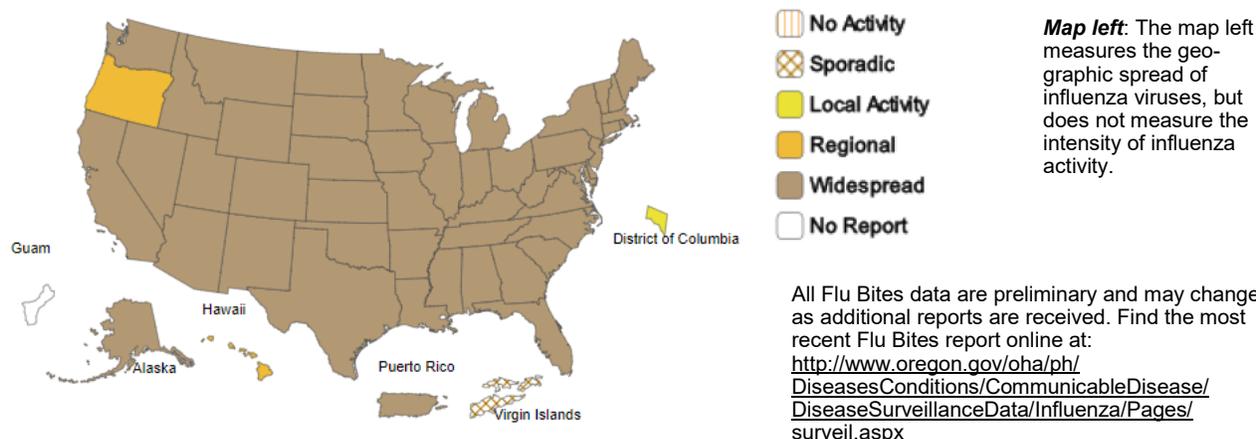
- **Hospitalizations:** The overall cumulative hospitalization rate for the season increased to 57.9 per 100,000.
- **P&I Mortality:** The percentage of deaths attributed to pneumonia and influenza is 6.9%, below the epidemic threshold of 7.3%.
- **Pediatric Deaths:** 11 influenza-associated pediatric deaths occurring during the 2019-2020 season were reported this week. The total for the season is 136.

**Influenza-like Illness (ILI) Activity Level Indicator Determined by Data Reported to ILINet
2019-2020 Influenza Season Week 9— ending February 29, 2020**



Map above: This map uses the proportion of outpatient visits to ILINet sentinel providers for influenza-like illness to measure the ILI activity level within a state. It does not, however, measure the extent of geographic spread of flu within a state. Therefore, outbreaks occurring in a single city could cause the state to display high activity levels.

**Weekly Influenza Activity Estimates Reported by State and Territorial Epidemiologists
2019-2020 Influenza Season Week 9— ending February 29, 2020**



Data at a Glance February 16—February 22, 2020 (Week 08)

	Current Week (08)	Previous Week (07)
Percentage of emergency department visits for ILI¹	2.9%	3.1%
Percentage positive influenza tests²	19.0%	17.1%
Influenza-associated hospitalizations³	30	13
Reported influenza outbreaks	2	5
Influenza-associated pediatric mortality	0	0
Respiratory Syncytial Virus (RSV) activity⁴	13.4%	13.6%

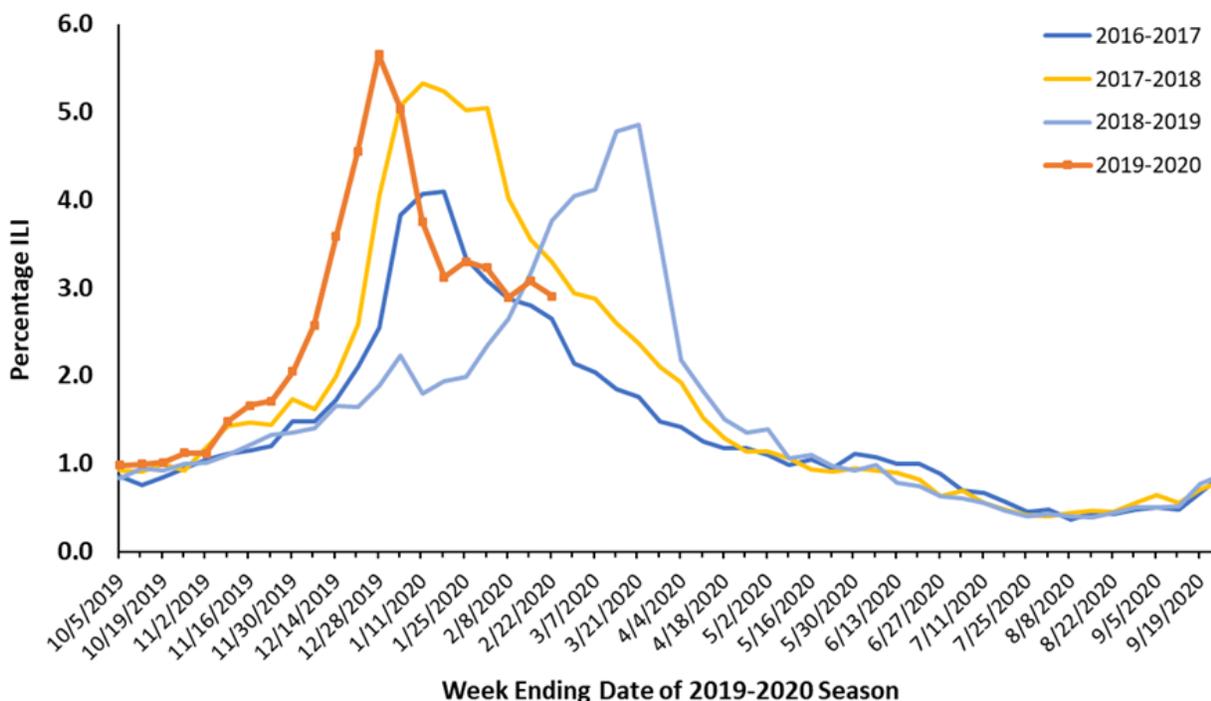
¹Based on Oregon ESSENCE Syndromic Surveillance. Data represent statewide aggregate percent.

²Percent positivity based on data from Oregon reporters to the National Respiratory and Enteric Virus Surveillance System (NREVSS)

³Based on hospitalization surveillance in Clackamas, Multnomah, and Washington counties only.

⁴Percent positivity based on data from Oregon's RSV Laboratory Surveillance System.

Figure 1. Percentage of ED Visits for ILI, Oregon ESSENCE Syndromic Surveillance, 2016–2017, 2017–2018, 2018–2019, 2019–2020



Oregon ESSENCE Syndromic Surveillance: Oregon Public Health tracks hospital emergency department (ED) visits throughout the state using the Oregon ESSENCE syndromic surveillance system. ESSENCE categorizes chief complaints into syndrome categories, which include ILI. Figure 1, above, displays percentages for all of Oregon during this flu season compared with the previous three flu seasons. The percent of ED visits for ILI in all of Oregon was 2.9% during week 8, 2020.

Laboratory Surveillance: The National Respiratory and Enteric Virus Surveillance System (NREVSS) is a laboratory-based system that monitors influenza and other respiratory viruses circulating the United States. More information is at CDC’s [website](#).

Table 1 shows the tests conducted and results by region for the current week for influenza in specimens tested at the Oregon laboratories reporting to NREVSS. Figure 2 shows that 19.0% of specimens tested at Oregon labs were positive for influenza during week 8, and the bar chart displays the number of influenza-positive tests by flu type and percent positivity.

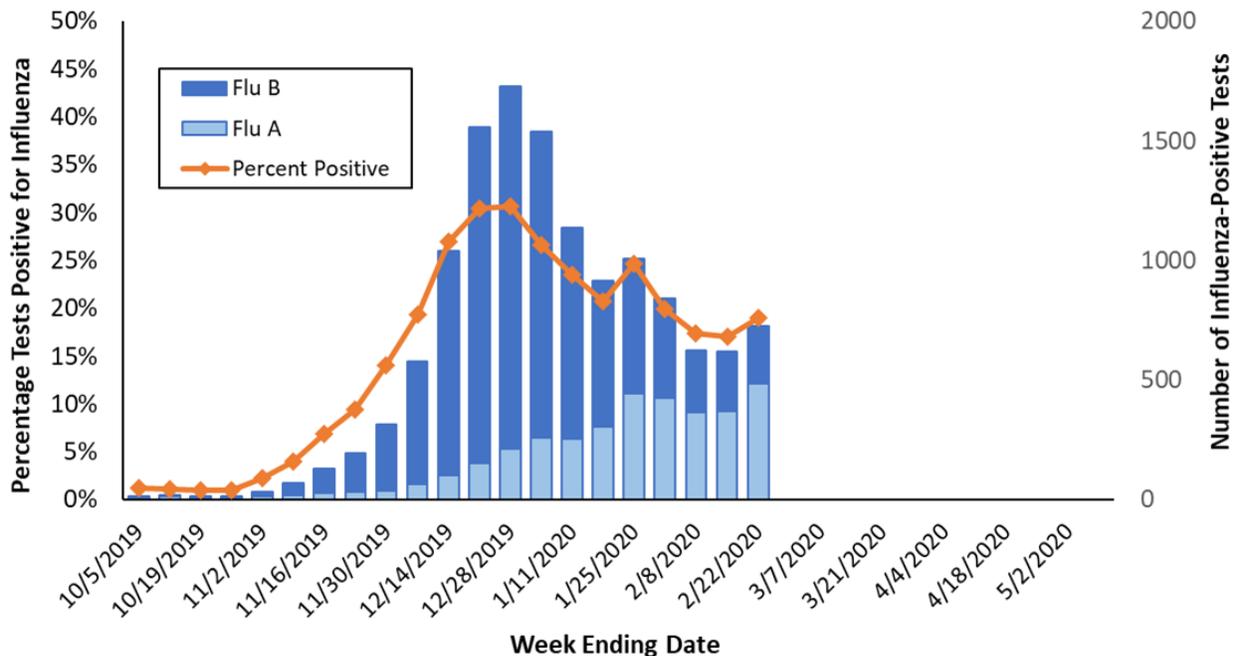
Participation by laboratories is voluntary. Current labs participating in NREVSS in Oregon include:

Legacy Emanuel Hospital and Health Center (Portland, OR), Oregon Health & Science University (Portland, OR), Providence Health (Oregon), Kaiser Permanente (Oregon), Veteran’s Administration Hospital (Portland, OR), Adventist Health (Portland, OR), Bay Area Hospital (Coos Bay, OR), Curry Health Network (Brookings, OR), Mercy Medical Center (Roseburg, OR), Sky Lakes Medical Center (Klamath Falls, OR), Lake Health District, (Lakeview, OR), Rogue Valley Medical Center (SW Oregon), Good Shepherd Medical Center (Hermiston, OR), Grande Ronde Hospital, (La Grande, OR), Mid-Columbia Medical Center (The Dalles, OR), Central Oregon Pediatric Associates (Central Oregon), Harney District Hospital (Burns, OR), St. Charles (Bend, OR), Samaritan Health Services (Lebanon, OR), Columbia Memorial Hospital (Astoria, OR), PeaceHealth Southwest Medical Center (Vancouver, WA), Salem Hospital (Salem, OR), Willamette Valley Medical Center (McMinnville, OR).

Table 1. Influenza Test Results in Oregon by Region, NREVSS, Current Week, 2019–2020 Season

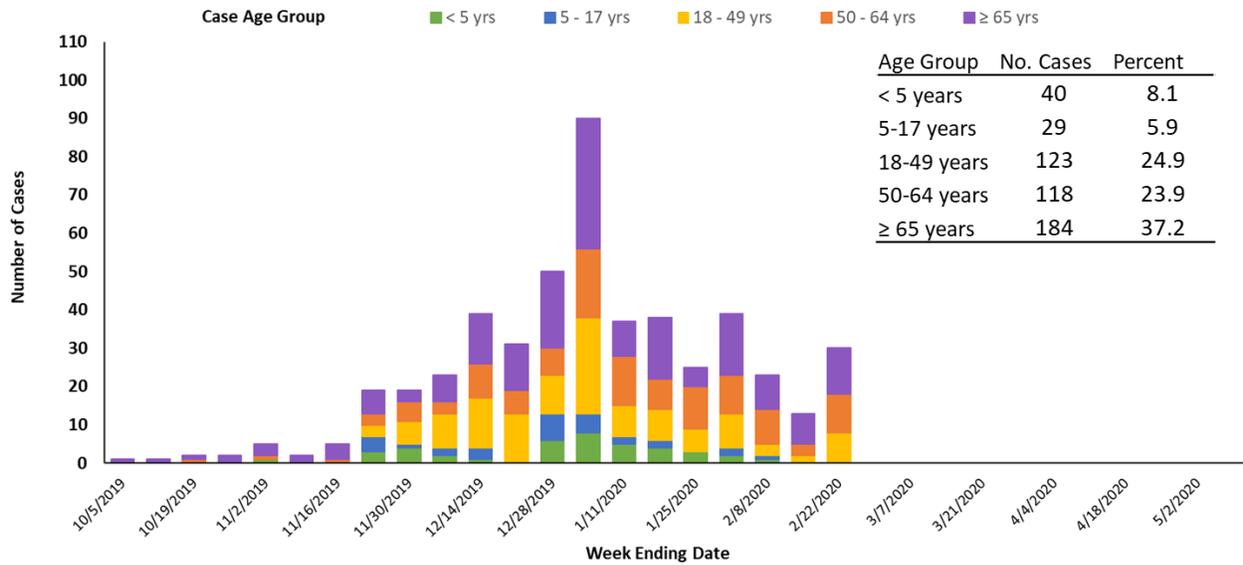
Region	Total Tests	Positive		Flu A		Flu B	
		No.	(%)	No.	(%)	No.	(%)
Portland Metro	1782	292	16.4%	226	77.4%	66	22.6%
Southern Oregon	1055	244	23.1%	128	52.5%	116	47.5%
Columbia Gorge	104	13	12.5%	11	84.6%	2	15.4%
Central Oregon	489	119	24.3%	75	63.0%	44	37.0%
Willamette Valley	394	57	14.5%	44	77.2%	13	22.8%
State Total	3824	725	19.0%	484	66.8%	241	33.2%

Figure 2. Oregon Influenza Laboratory Surveillance
Percent Positive Influenza Tests by Week, NREVSS, 2019-2020 Season



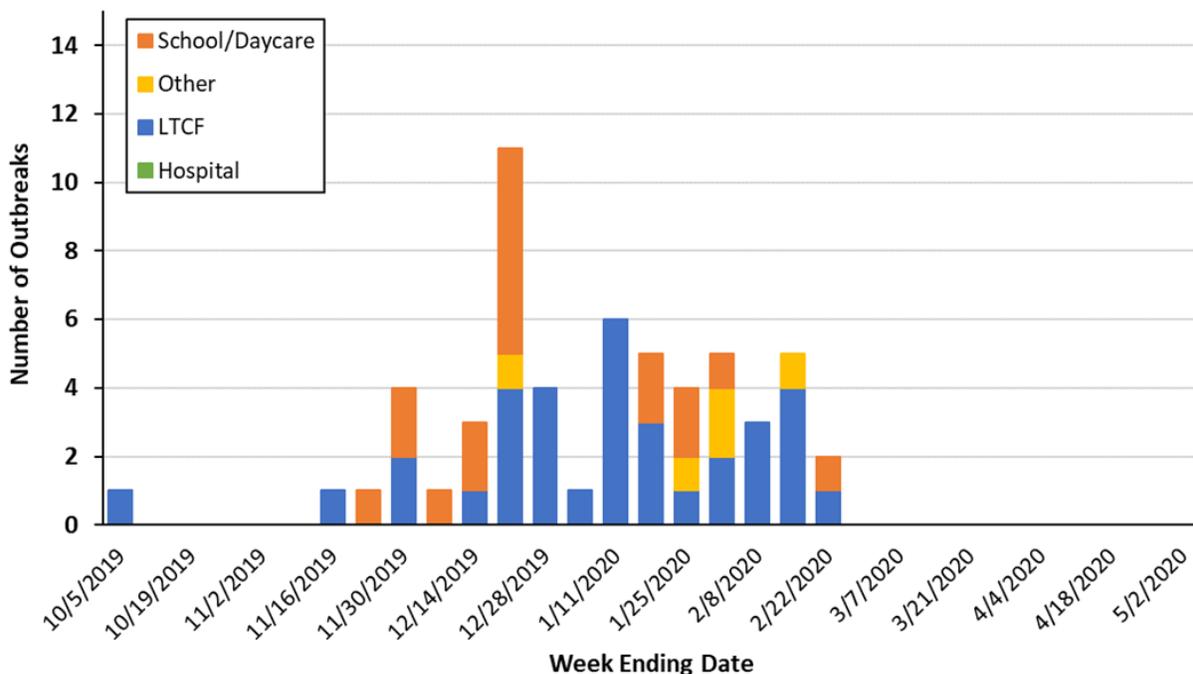
Hospitalizations: In Clackamas, Multnomah, and Washington counties 30 influenza-associated hospitalizations were reported during week 8 of 2020. In total, there have been 494 hospitalizations; 213 (43.1%) were positive for flu A and 278 (56.9.7%) were positive for flu B. Of the 40 flu A specimens that have been subtyped, 34 (85.0%) were 2009 H1N1 and 5 (15.0%) were H3. All 22 flu B specimens that were differentiated were Victoria lineage.

Figure 3. Portland Metro Area Influenza-Associated Hospitalizations by Week and Age Group, 2019-2020 Season



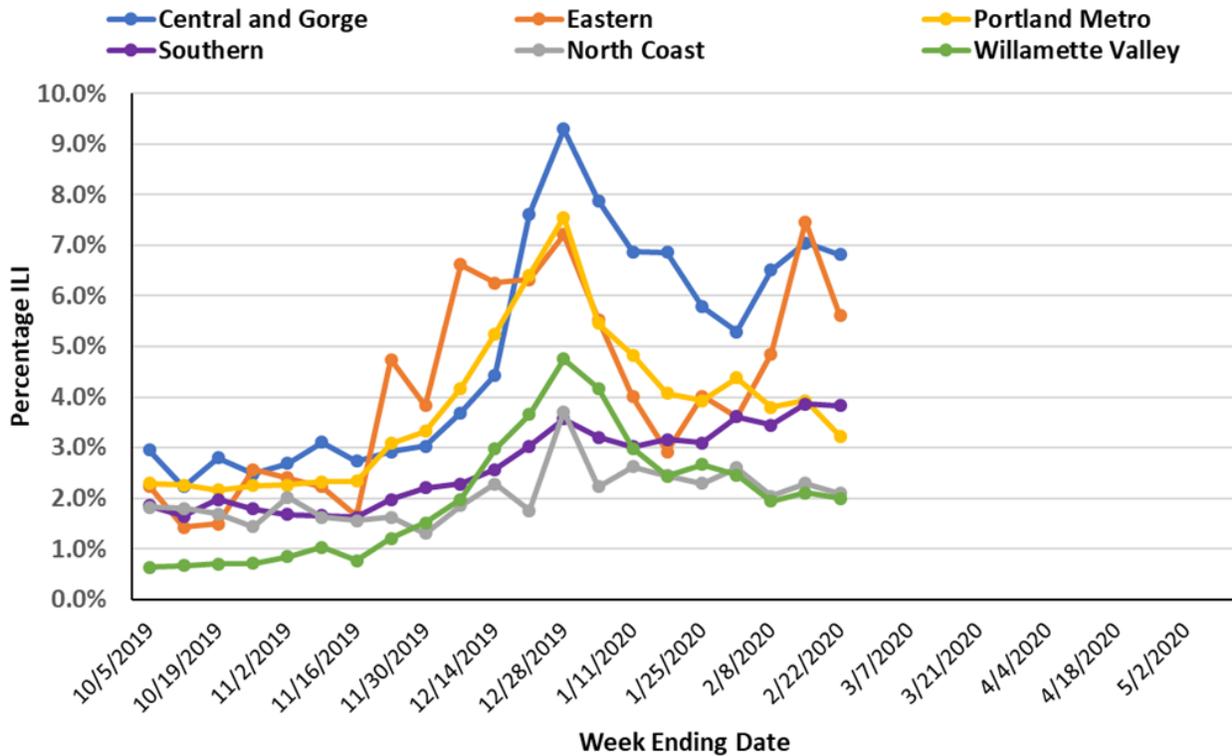
Influenza Outbreaks: There were 2 influenza outbreaks reported during week 8, 2020. There has been a total of 57 influenza outbreaks reported to the Oregon Health Authority in the 2019—2020 flu season; 34 (59.6%) occurred in a long-term care facility, 18 (31.6%) occurred in a school, and 5 (8.8%) occurred in another setting.

Figure 4. Number of Influenza Outbreaks in Oregon by Setting, 2019-2020 Season



Outpatient Influenza-like Illness Surveillance: Oregon’s outpatient influenza-like illness (ILI) surveillance comprises 17 voluntary reporting outpatient providers, 64 emergency departments and urgent care clinics reporting to ESSENCE, and 310 OCHIN clinics from across Oregon. The percent of outpatients seen with ILI across the state during week 7 of 2020 was 3.4%. Regionally, the percent was highest in the Central Oregon and Columbia Gorge region (6.8%) and lowest in the Willamette Valley (2.0%).

Figure 5. Percentage of Visits for ILI at Outpatient Clinics & Emergency Departments, by Oregon Region, 2019-2020



Influenza-Associated Pediatric Mortality Surveillance: Influenza-associated deaths in children 17 years of age and younger are nationally notifiable. There were no pediatric flu deaths in Oregon reported during week 8, 2020. There has been a total of 1 influenza-associated pediatric death reported to the Oregon Health Authority in the 2019—2020 flu season.

Immunizations data: Weekly influenza immunization reporting is based on ALERT Immunization Information System (ALERT IIS) data through epi week 8 of 2020 (February 22nd). The ALERT IIS to date has received reports of 1.7 million influenza immunizations for this season. As a caveat, while most immunizations are reported quickly and electronically to ALERT IIS, some reporting is delayed- current weekly totals will be adjusted upward later.

Figure 6. 2019-2020 Oregon Flu Vaccine Doses in ALERT IIS by Epi Week

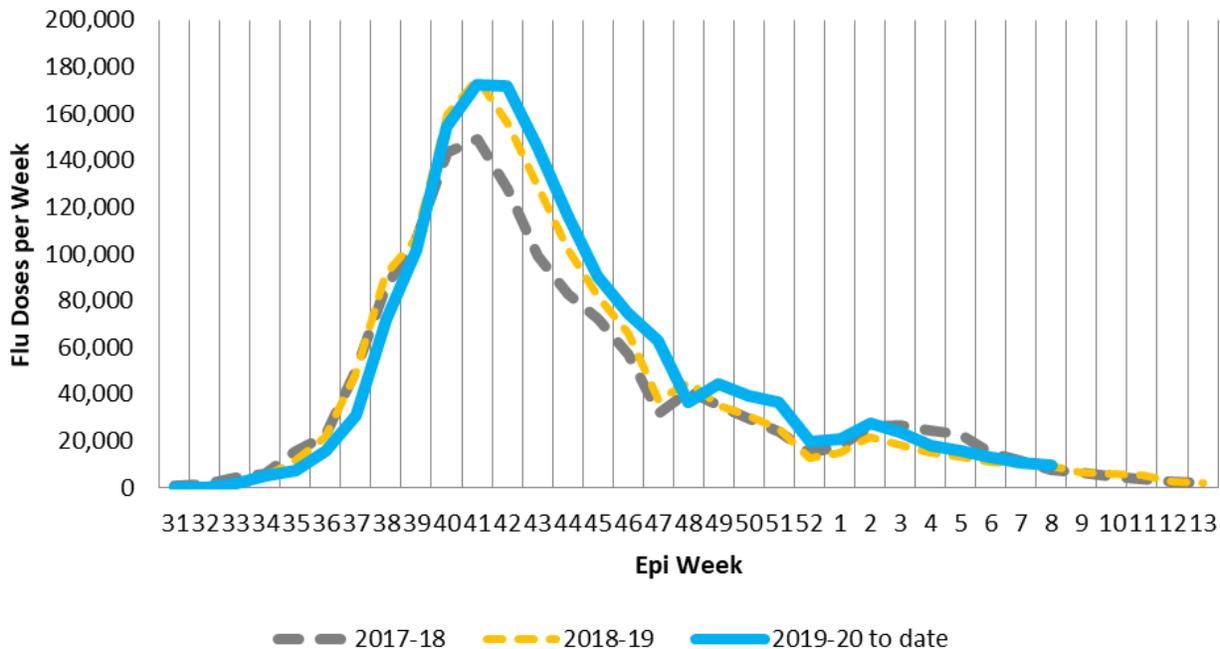
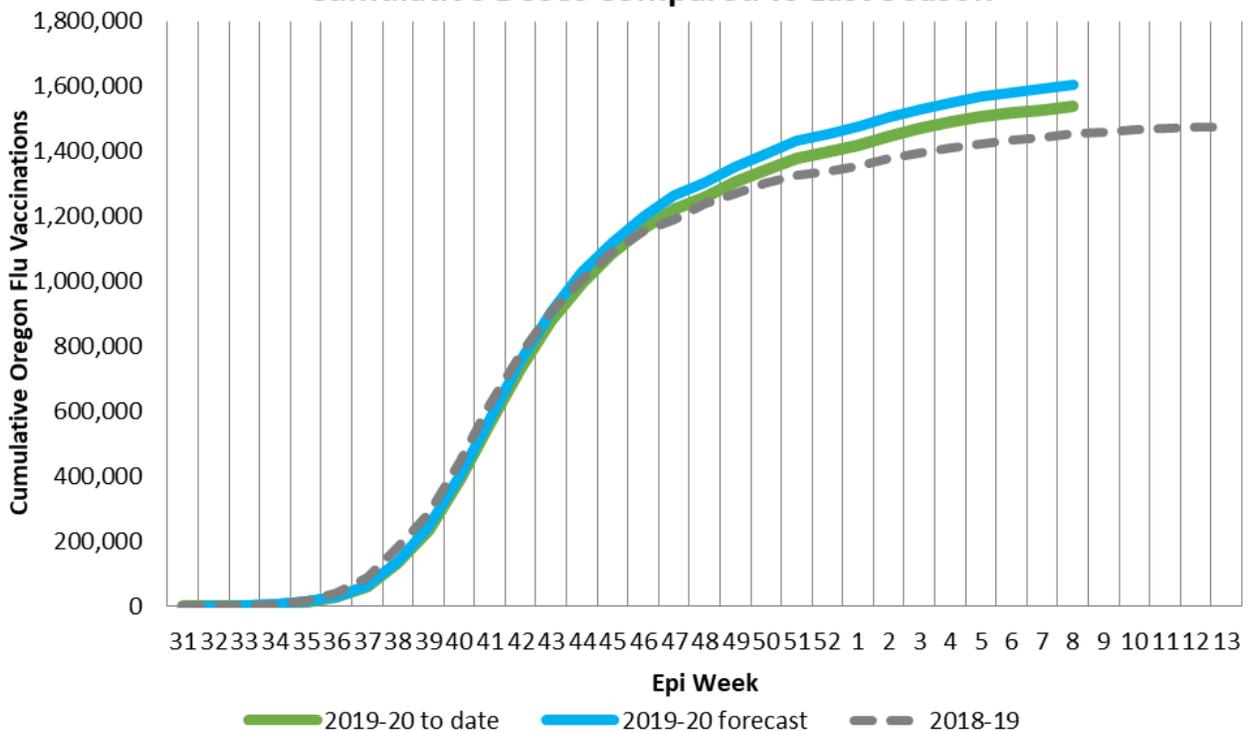


Figure 7. 2019-2020 Flu Vaccination in ALERT IIS by Epi Week, Cumulative Doses Compared to Last Season



Data at a Glance February 9—February 15, 2020 (Week 07)

	Current Week (07)	Previous Week (06)
Percentage of emergency department visits for ILI¹	3.1%	2.9%
Percentage positive influenza tests²	17.1%	17.4%
Influenza-associated hospitalizations³	12	22
Reported influenza outbreaks	5	3
Influenza-associated pediatric mortality	0	0
Respiratory Syncytial Virus (RSV) activity⁴	13.6%	12.7%

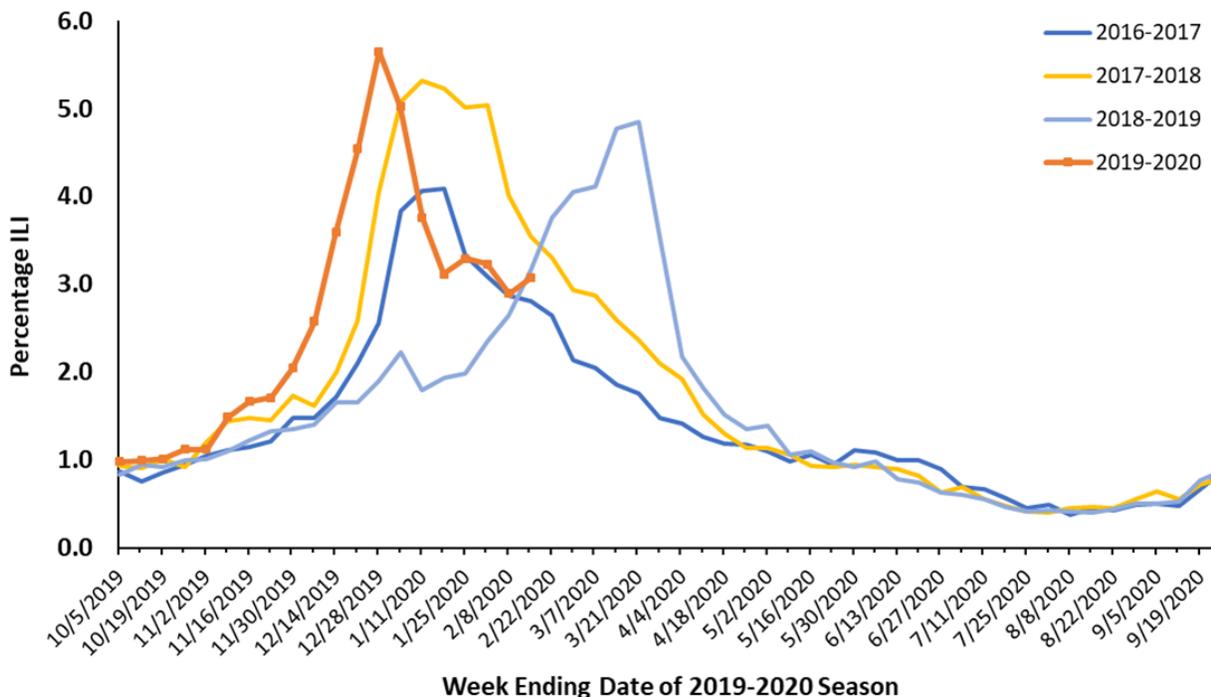
¹Based on Oregon ESSENCE Syndromic Surveillance. Data represent statewide aggregate percent.

²Percent positivity based on data from Oregon reporters to the National Respiratory and Enteric Virus Surveillance System (NREVSS)

³Based on hospitalization surveillance in Clackamas, Multnomah, and Washington counties only.

⁴Percent positivity based on data from Oregon's RSV Laboratory Surveillance System.

Figure 1. Percentage of ED Visits for ILI, Oregon ESSENCE Syndromic Surveillance, 2016–2017, 2017–2018, 2018–2019, 2019–2020



Oregon ESSENCE Syndromic Surveillance: Oregon Public Health tracks hospital emergency department (ED) visits throughout the state using the Oregon ESSENCE syndromic surveillance system. ESSENCE categorizes chief complaints into syndrome categories, which include ILI. Figure 1, above, displays percentages for all of Oregon during this flu season compared with the previous three flu seasons. The percent of ED visits for ILI in all of Oregon was 3.1% during week 7, 2020.

Laboratory Surveillance: The National Respiratory and Enteric Virus Surveillance System (NREVSS) is a laboratory-based system that monitors influenza and other respiratory viruses circulating the United States. More information is at CDC's [website](#).

Table 1 shows the tests conducted and results by region for the current week for influenza in specimens tested at the Oregon laboratories reporting to NREVSS. Figure 2 shows that 17.1% of specimens tested at Oregon labs were positive for influenza during week 7, and the bar chart displays the number of influenza-positive tests by flu type and percent positivity.

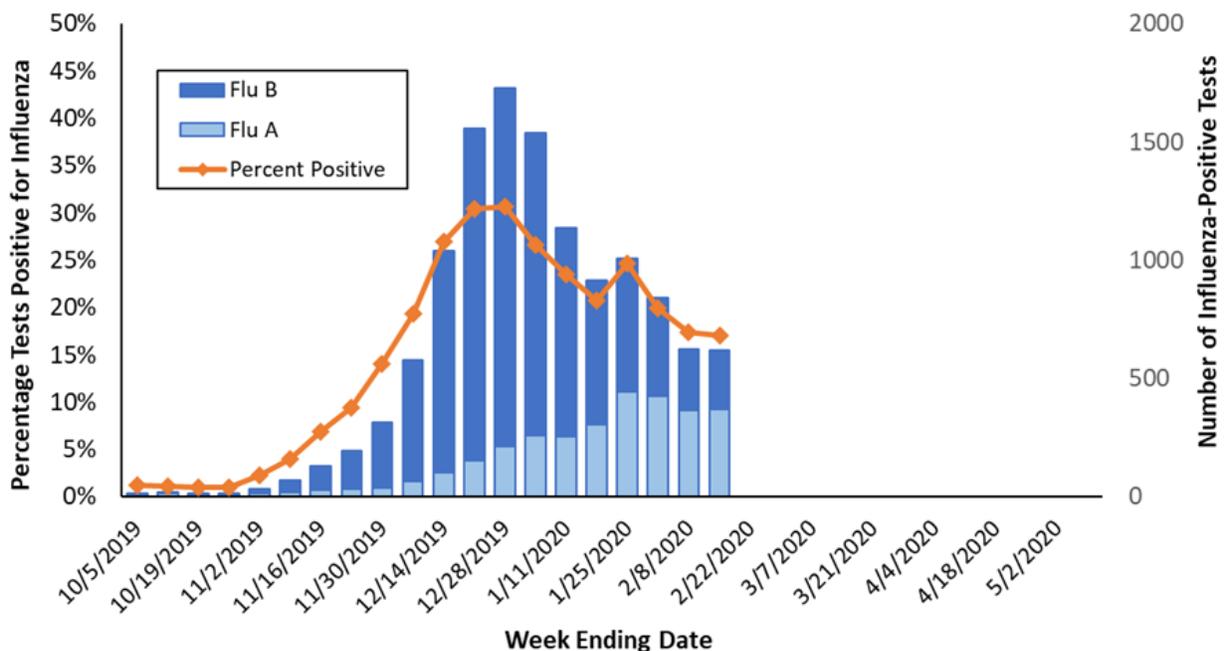
Participation by laboratories is voluntary. Current labs participating in NREVSS in Oregon include:

Legacy Emanuel Hospital and Health Center (Portland, OR), Oregon Health & Science University (Portland, OR), Providence Health (Oregon), Kaiser Permanente (Oregon), Veteran's Administration Hospital (Portland, OR), Adventist Health (Portland, OR), Bay Area Hospital (Coos Bay, OR), Curry Health Network (Brookings, OR), Mercy Medical Center (Roseburg, OR), Sky Lakes Medical Center (Klamath Falls, OR), Lake Health District, (Lakeview, OR), Rogue Valley Medical Center (SW Oregon), Good Shepherd Medical Center (Hermiston, OR), Grande Ronde Hospital, (La Grande, OR), Mid-Columbia Medical Center (The Dalles, OR), Central Oregon Pediatric Associates (Central Oregon), Harney District Hospital (Burns, OR), St. Charles (Bend, OR), Samaritan Health Services (Lebanon, OR), Columbia Memorial Hospital (Astoria, OR), PeaceHealth Southwest Medical Center (Vancouver, WA), Salem Hospital (Salem, OR), Willamette Valley Medical Center (McMinnville, OR).

Table 1. Influenza Test Results in Oregon by Region, NREVSS, Current Week, 2019–2020 Season

Region	Total Tests	Positive		Flu A		Flu B	
		No.	(%)	No.	(%)	No.	(%)
Portland Metro	1711	224	13.1%	158	70.5%	66	29.5%
Southern Oregon	913	221	24.2%	101	45.7%	120	54.3%
Columbia Gorge	94	15	16.0%	12	80.0%	3	20.0%
Central Oregon	505	105	20.8%	62	59.0%	43	41.0%
Willamette Valley	393	53	13.5%	38	71.7%	15	28.3%
State Total	3616	618	17.1%	371	60.0%	247	40.0%

**Figure 2. Oregon Influenza Laboratory Surveillance
Percent Positive Influenza Tests by Week, NREVSS, 2019-2020 Season**



Hospitalizations: In Clackamas, Multnomah, and Washington counties 12 influenza-associated hospitalizations were reported during week 7 of 2020. Of note, 11 of those week 7 hospitalizations were for flu A. In total, there have been 462 hospitalizations; 191 (41.3%) were positive for flu A and 271 (58.7%) were positive for flu B. Of the 32 flu A specimens that have been subtyped, 27 (84.4%) were 2009 H1N1 and 5 (15.6%) were flu A H3. All 22 flu B specimens that were differentiated were Victoria lineage.

Figure 3. Portland Metro Area Influenza-Associated Hospitalizations by Week and Age Group, 2019-2020 Season

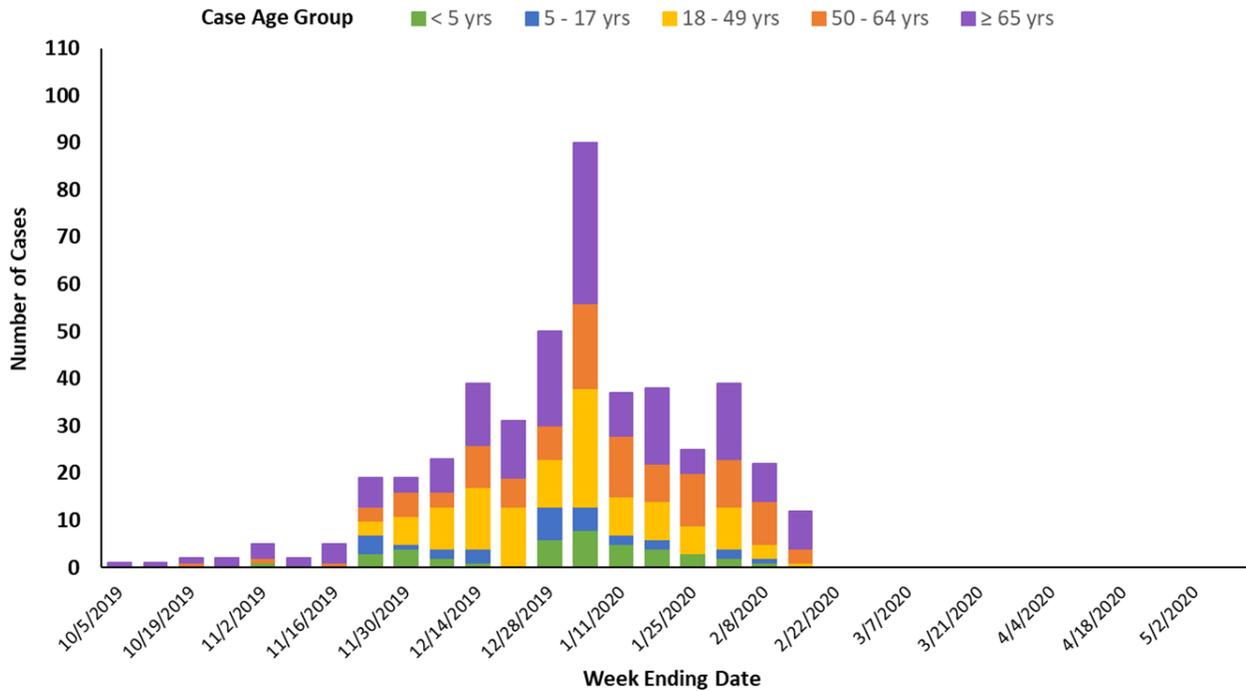
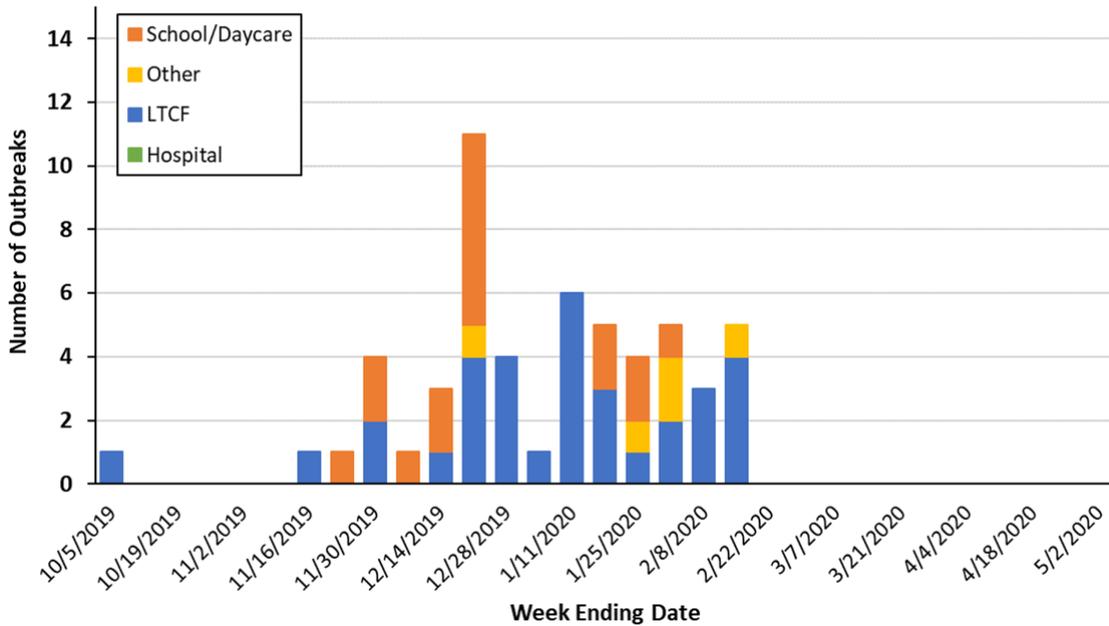


Table 2. Portland Metro Area Influenza-Associated Hospitalizations by Age, 2019–2020 Season

Age Group	No. Cases	Percent
< 5 years	40	8.7
5-17 years	29	6.3
18-49 years	114	24.7
50-64 years	108	23.4
50-64 years	171	37.0
Total	462	100.0

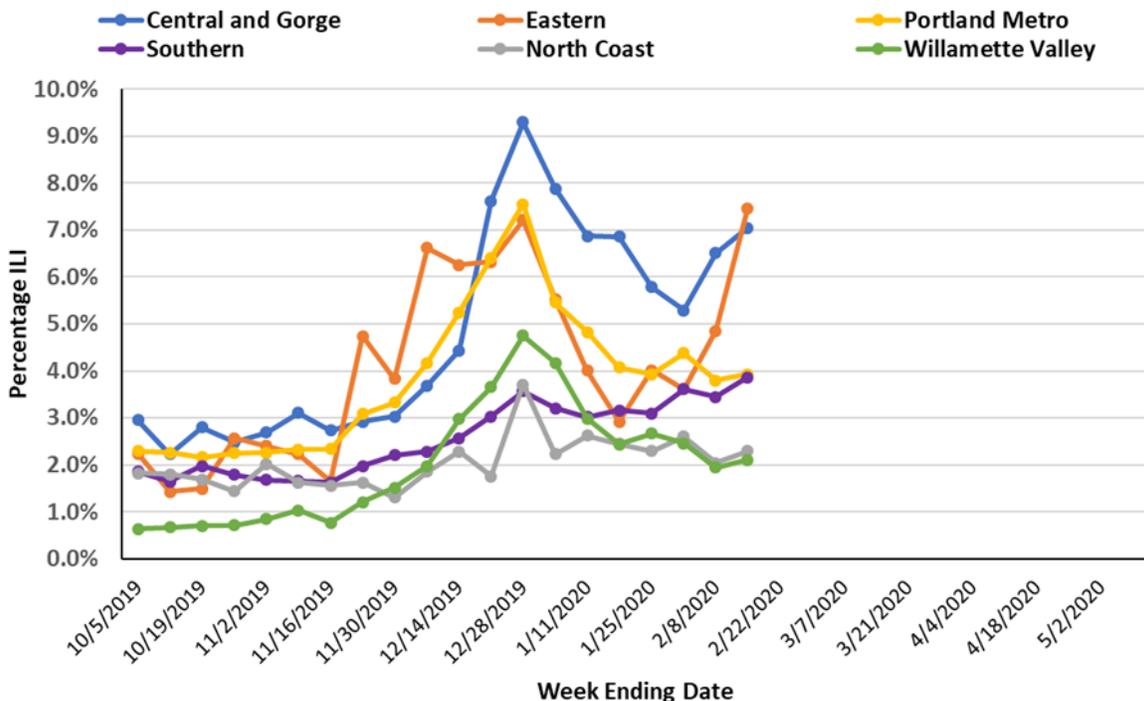
Influenza Outbreaks: There were 5 influenza outbreaks reported during week 7, 2020. There have been a total of 55 influenza outbreaks reported to the Oregon Health Authority in the 2019—2020 flu season; 33 (60.0%) occurred in a long-term care facility, 17 (30.9%) occurred in a school, and 5 (9.1%) occurred in another setting.

Figure 4. Number of Influenza Outbreaks in Oregon by Setting, 2019-2020 Season



Outpatient Influenza-like Illness Surveillance: Oregon’s outpatient influenza-like illness (ILI) surveillance comprises 17 voluntary reporting outpatient providers, 64 emergency departments and urgent care clinics reporting to ESSENCE, and 310 OCHIN clinics from across Oregon. The percent of outpatients seen with ILI across the state during week 7 of 2020 was 3.9%. Regionally, the percent was highest in the Eastern region (7.5%) and lowest in the Willamette Valley (2.1%).

Figure 5. Percentage of Visits for ILI at Outpatient Clinics & Emergency Departments, by Oregon Region, 2019-2020



Immunizations data: Weekly influenza immunization reporting is based on ALERT Immunization Information System (ALERT IIS) data through epi week 7 of 2020 (February 15th). The ALERT IIS to date has received reports of 1.65 million influenza immunizations for this season. As a caveat, while most immunizations are reported quickly and electronically to ALERT IIS, some reporting is delayed- current weekly totals will be adjusted upward later.

Figure 6. 2019-2020 Oregon Flu Vaccine Doses in ALERT IIS by Epi Week

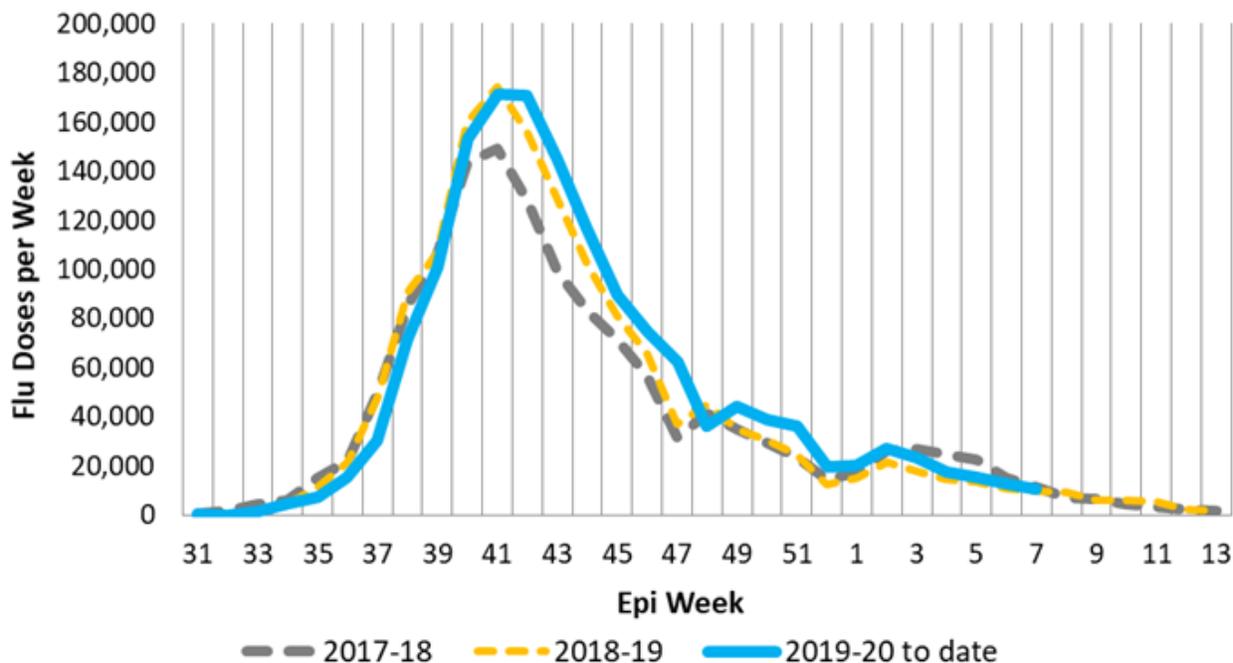
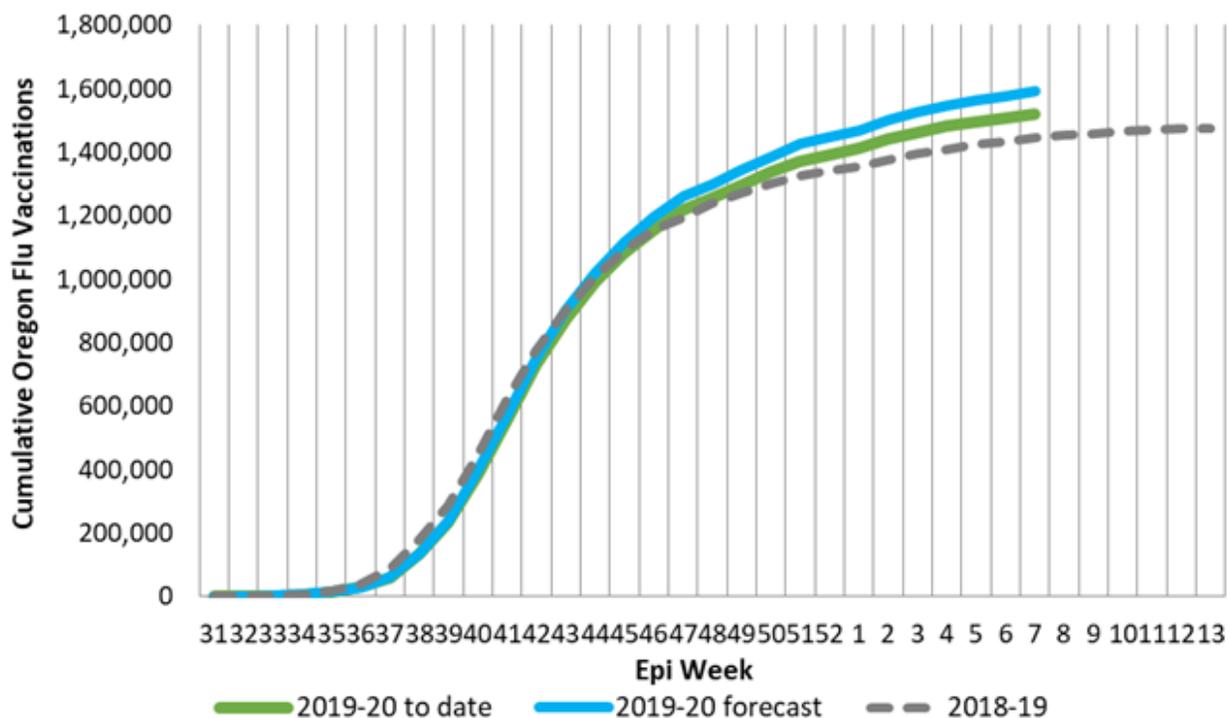


Figure 7. 2019-2020 Flu Vaccination in ALERT IIS by Epiweek, Cumulative Doses Compared to Last Season



US Data (from CDC FluView): Key indicators that track flu activity remain high but decreased slightly this week. Indicators that track overall severity (hospitalizations and deaths) are not high at this point in the season.

Viruses

- **Clinical Labs:** The percentage of respiratory specimens testing positive for influenza at clinical laboratories increased from 30.3% last week to 29.6% this week.
- **Public Health Labs:** Numbers of influenza B/Victoria and A(H1N1)pdm09 viruses are approximately equal for the season overall, with continued increases in influenza A(H1N1)pdm09 viruses in recent weeks.

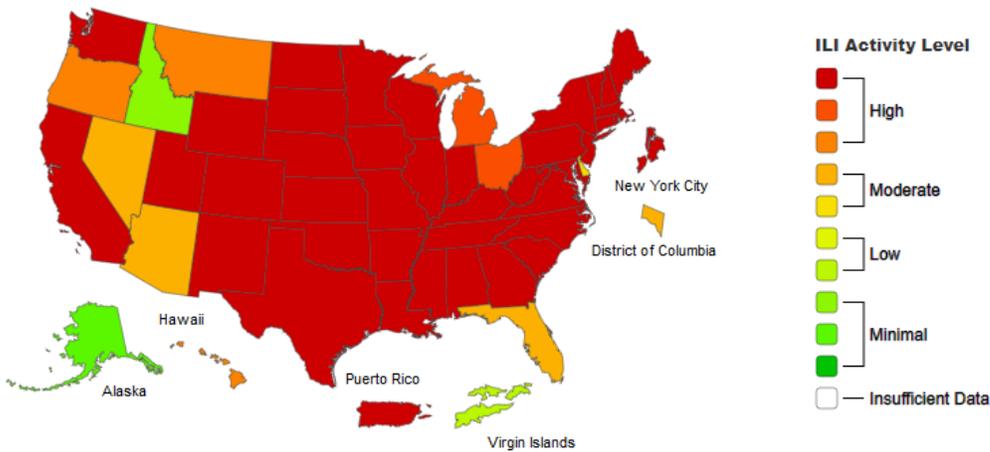
Illness

- **ILINet Outpatient Illness:** Visits to health care providers for influenza-like illness (ILI) decreased from 6.7% last week to 6.1% this week. All regions remain above their baselines.
- **ILINet Activity Map:** The number of jurisdictions experiencing high ILI activity remained at 46 this week.
- **Geographic Spread:** The number of jurisdictions reporting regional or widespread influenza activity remained at 51 this week.

Severe Disease

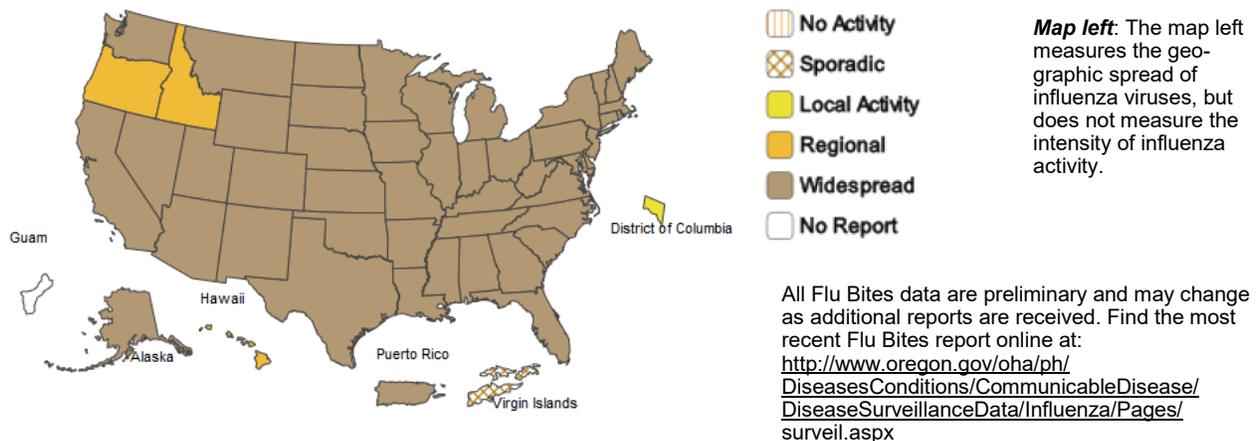
- **Hospitalizations:** The overall hospitalization rate for the season increased to 47.4 per 100,000. This is similar to what has been seen at this time during recent seasons.
- **P&I Mortality:** The percentage of deaths attributed to pneumonia and influenza is 6.8%, below the epidemic threshold of 7.3%.
- **Pediatric Deaths:** Thirteen influenza-associated pediatric deaths occurring during the 2019-2020 season were reported this week. The total for the season is 105.

**Influenza-like Illness (ILI) Activity Level Indicator Determined by Data Reported to ILINet
2019-20 Infection Season Week 6 ending February 08, 2020**



Map above: This map uses the proportion of outpatient visits to ILINet sentinel providers for influenza-like illness to measure the ILI activity level within a state. It does not, however, measure the extent of geographic spread of flu within a state. Therefore, outbreaks occurring in a single city could cause the state to display high activity levels.

**Weekly Influenza Activity Estimates Reported by State and Territorial Epidemiologists
Week ending February 08, 2020— Week 6**



Data at a Glance February 2—February 8, 2020 (Week 06)

	Current Week (06)	Previous Week (05)
Percentage of emergency department visits for ILI ¹	2.9%	3.2%
Percentage positive influenza tests ²	17.4%	19.9%
Influenza-associated hospitalizations ³	19	33
Reported influenza outbreaks	3	4
Influenza-associated pediatric mortality	0	0
Respiratory Syncytial Virus (RSV) activity ⁴	13.9%	13.2%

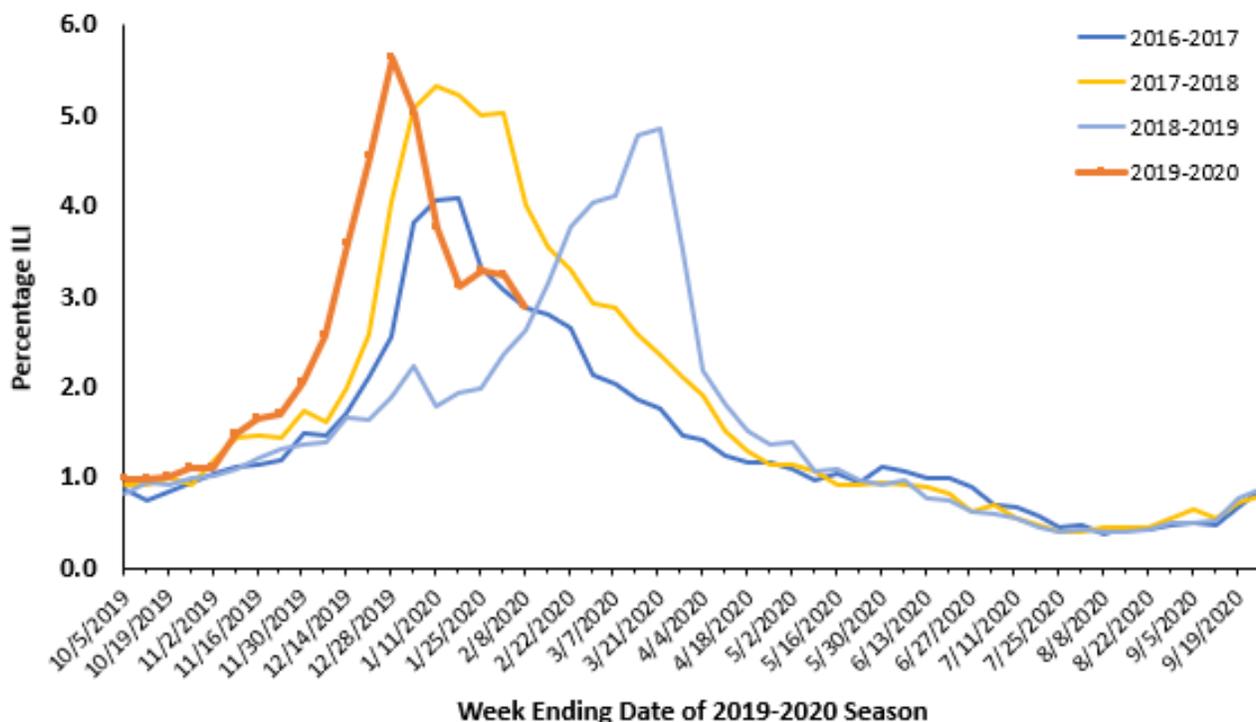
¹Based on Oregon ESSENCE Syndromic Surveillance. Data represent statewide aggregate percent.

²Percent positivity based on data from Oregon reporters to the National Respiratory and Enteric Virus Surveillance System (NREVSS)

³Based on hospitalization surveillance in Clackamas, Multnomah, and Washington counties only.

⁴Percent positivity based on data from Oregon's RSV Laboratory Surveillance System.

Figure 1. Percentage of ED Visits for ILI, Oregon ESSENCE Syndromic Surveillance, 2016–2017, 2017–2018, 2018–2019, 2019–2020



Oregon ESSENCE Syndromic Surveillance: Oregon Public Health tracks hospital emergency department (ED) visits throughout the state using the Oregon ESSENCE syndromic surveillance system. ESSENCE categorizes chief complaints into syndrome categories, which include ILI. Figure 1, above, displays percentages for all of Oregon during this flu season compared with the previous three flu seasons. The percent of ED visits for ILI in all of Oregon was 2.9% during week 6, 2020.

Laboratory Surveillance: The National Respiratory and Enteric Virus Surveillance System (NREVSS) is a laboratory-based system that monitors influenza and other respiratory viruses circulating the United States. More information is at CDC’s [website](#).

Table 1 shows the tests conducted and results by region for the current week for influenza in specimens tested at the Oregon laboratories reporting to NREVSS. Figure 2 shows that 17.4% of specimens tested at Oregon labs were positive for influenza during week 6, and the bar chart displays the number of influenza-positive tests by flu type and percent positivity.

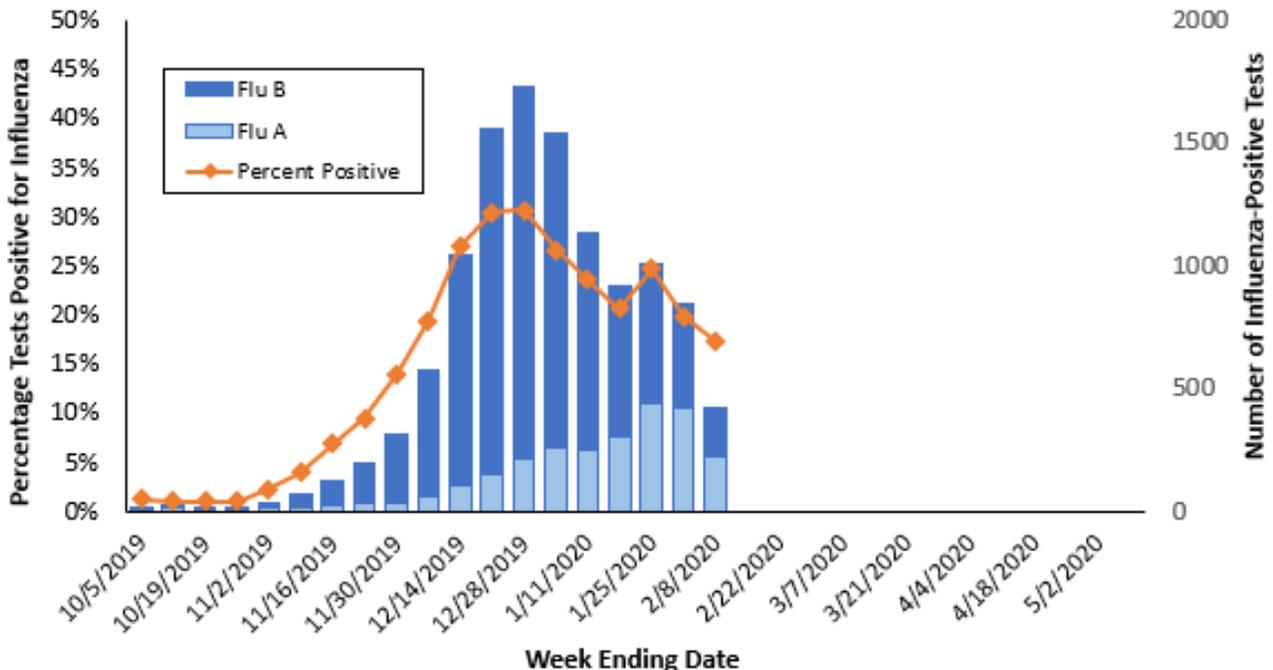
Participation by laboratories is voluntary. Current labs participating in NREVSS in Oregon include:

Legacy Emanuel Hospital and Health Center (Portland, OR), Oregon Health & Science University (Portland, OR), Providence Health (Oregon), Kaiser Permanente (Oregon), Veteran’s Administration Hospital (Portland, OR), Adventist Health (Portland, OR), Bay Area Hospital (Coos Bay, OR), Curry Health Network (Brookings, OR), Mercy Medical Center (Roseburg, OR), Sky Lakes Medical Center (Klamath Falls, OR), Lake Health District, (Lakeview, OR), Rogue Valley Medical Center (SW Oregon), Good Shepherd Medical Center (Hermiston, OR), Grande Ronde Hospital, (La Grande, OR), Mid-Columbia Medical Center (The Dalles, OR), Central Oregon Pediatric Associates (Central Oregon), Harney District Hospital (Burns, OR), St. Charles (Bend, OR), Samaritan Health Services (Lebanon, OR), Columbia Memorial Hospital (Astoria, OR), PeaceHealth Southwest Medical Center (Vancouver, WA), Salem Hospital (Salem, OR), Willamette Valley Medical Center (McMinnville, OR).

Table 1. Influenza Test Results in Oregon by Region, NREVSS, Current Week, 2019–2020 Season

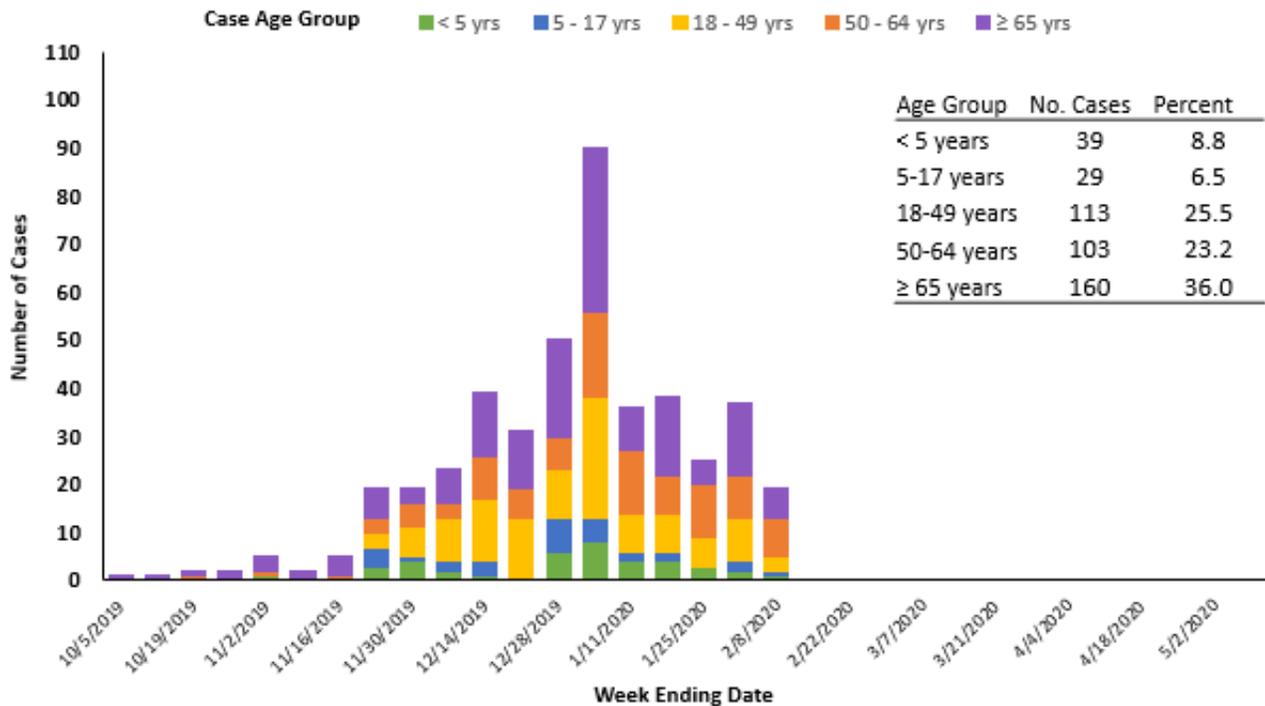
Region	Total Tests	Positive		Flu A		Flu B	
		No.	(%)	No.	(%)	No.	(%)
Portland Metro	1123	141	12.6%	98	69.5%	43	30.5%
Southern Oregon	624	135	21.6%	61	45.2%	74	54.8%
Columbia Gorge	115	21	18.3%	11	52.4%	10	47.6%
Central Oregon	490	107	21.8%	54	50.5%	53	49.5%
Willamette Valley	53	14	26.4%	2	14.3%	12	85.7%
State Total	2405	418	17.4%	226	54.1%	192	45.9%

**Figure 2. Oregon Influenza Laboratory Surveillance
Percent Positive Influenza Tests by Week, NREVSS, 2019-2020 Season**



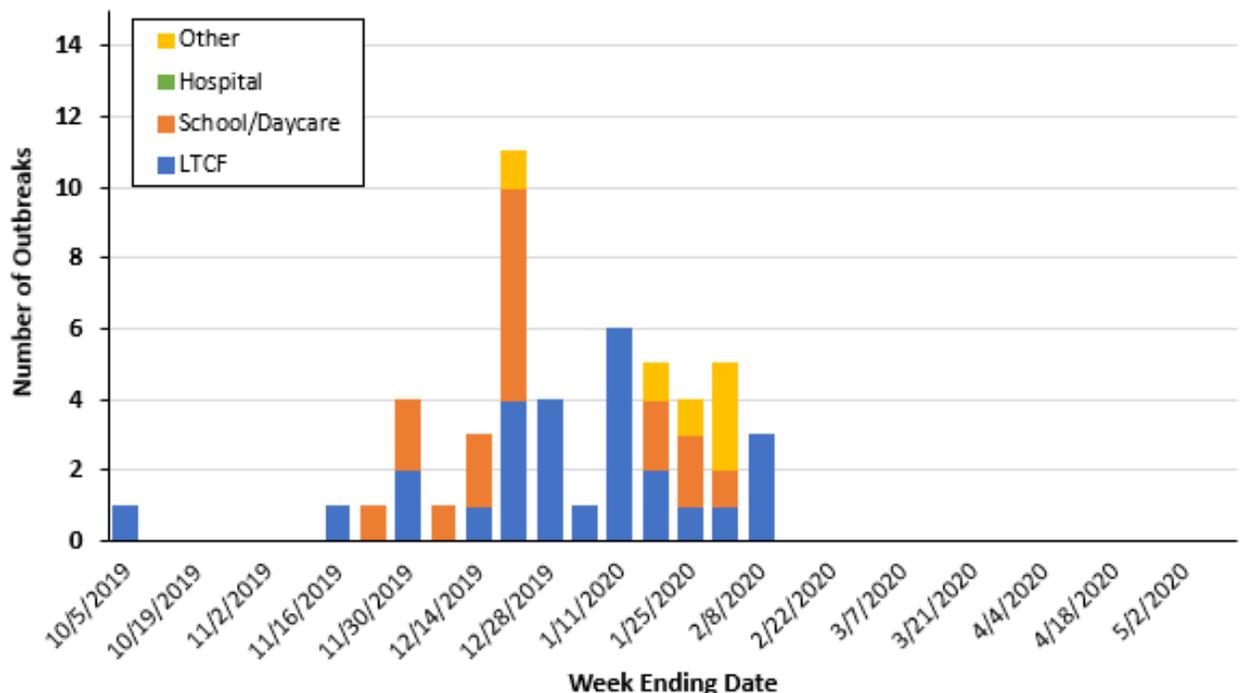
Hospitalizations: In Clackamas, Multnomah, and Washington counties 19 influenza-associated hospitalizations were reported during week 6 of 2020. In total, there have been 444 hospitalizations; 175 (39.4%) were positive for flu A and 269 (60.6%) were positive for flu B. Of the 32 flu A specimens that have been subtyped, 27 (84.4%) were 2009 H1N1 and 5 (15.6%) were flu A H3. All 22 flu B specimens that were differentiated were Victoria lineage.

Figure 3. Portland Metro Area Influenza-Associated Hospitalizations by Week and Age Group, 2019-2020 Season



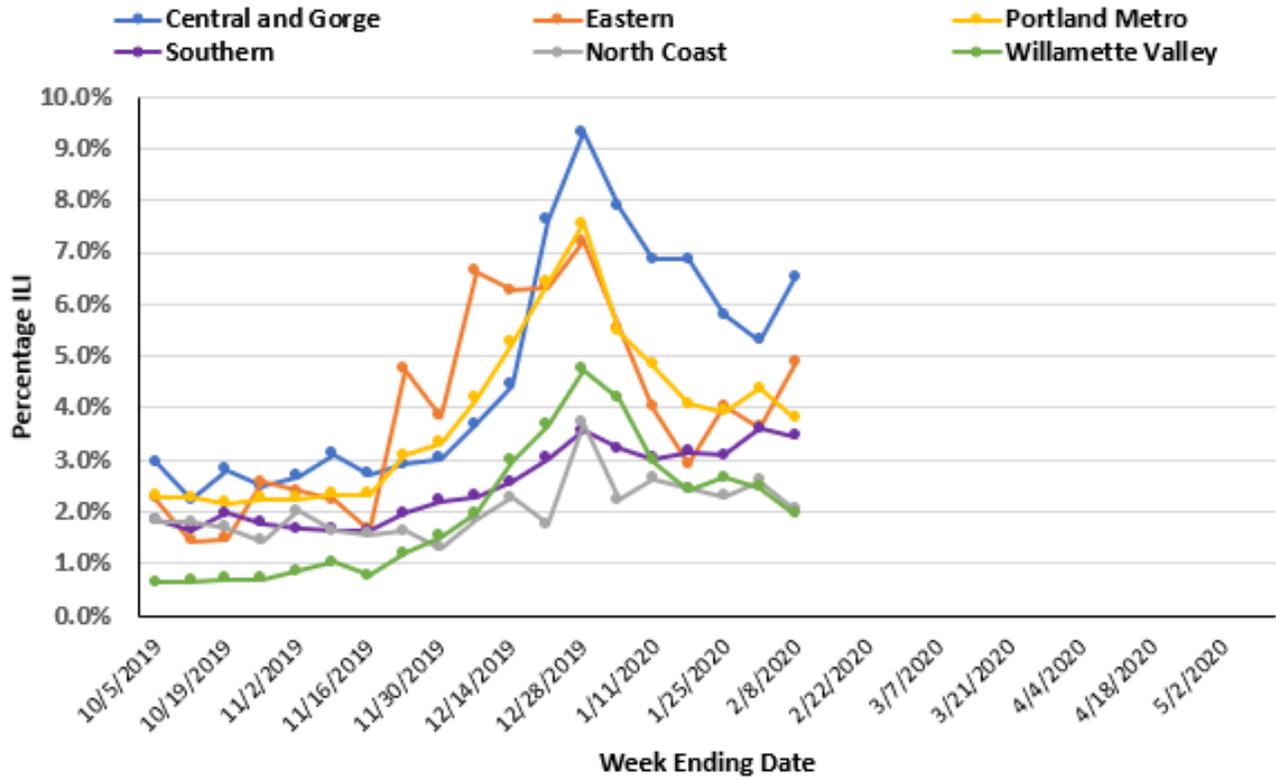
Influenza Outbreaks: There were 3 influenza outbreaks reported during Week 6, 2020. There have been a total of 50 influenza outbreaks reported to the Oregon Health Authority in the 2019—2020 flu season; 27 occurred in a long-term care facility, 17 occurred in a school, and 6 occurred in another setting.

Figure 4. Number of Influenza Outbreaks in Oregon by Setting, 2019-2020 Season



Outpatient Influenza-like Illness Surveillance: Oregon's outpatient influenza-like illness (ILI) surveillance comprises 17 voluntary reporting outpatient providers, 64 emergency departments and urgent care clinics reporting to ESSENCE, and 309 OCHIN clinics from across Oregon. The percent of outpatients seen with ILI across the state during week 6 of 2020 was 3.5%. Regionally, the percent was highest in the Central and Gorge region (6.5%) and lowest in the Willamette Valley (1.9%).

Figure 5. Percentage of Visits for ILI at Outpatient Clinics & Emergency Departments, by Oregon Region, 2019-2020



Immunizations data: Weekly influenza immunization reporting is based on ALERT Immunization Information System (ALERT IIS) data through epi week 6 of 2020 (February 8th). To date, 1.5 million influenza immunizations given to Oregonians have been reported to ALERT IIS this season. As a caveat, while most immunizations are reported quickly and electronically to ALERT IIS, some reporting is delayed- current weekly totals will be adjusted upward later.

Figure 6. 2019-2020 Oregon Flu Vaccine Doses in ALERT IIS by Epi Week

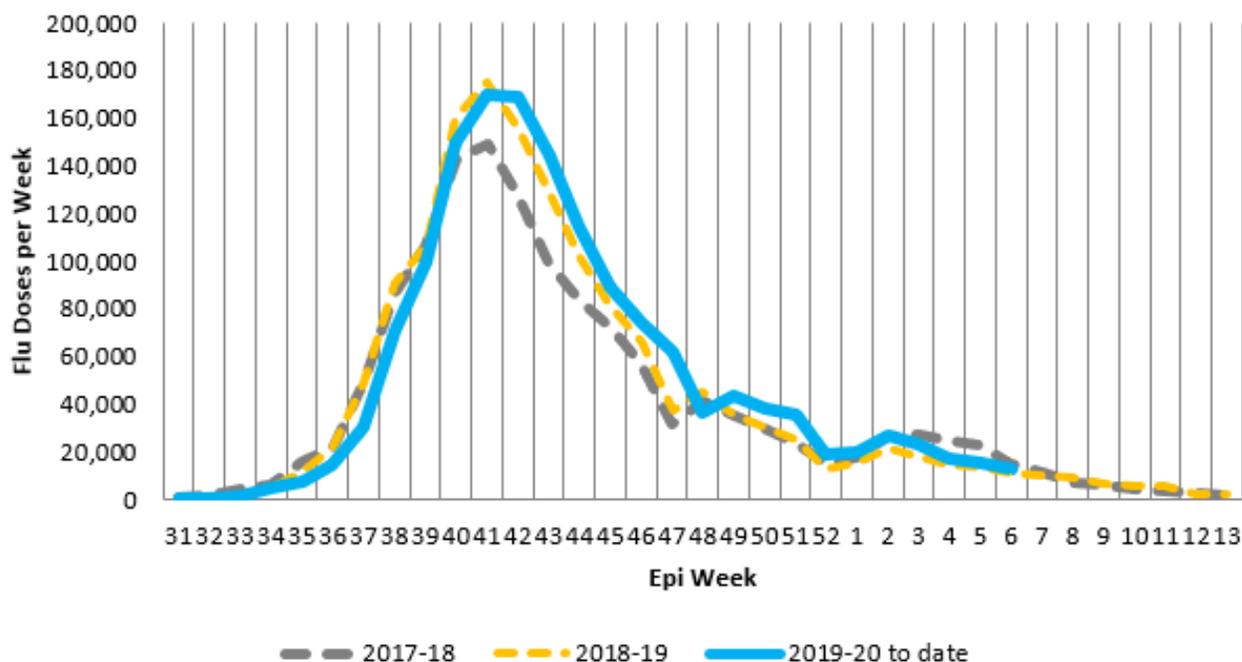
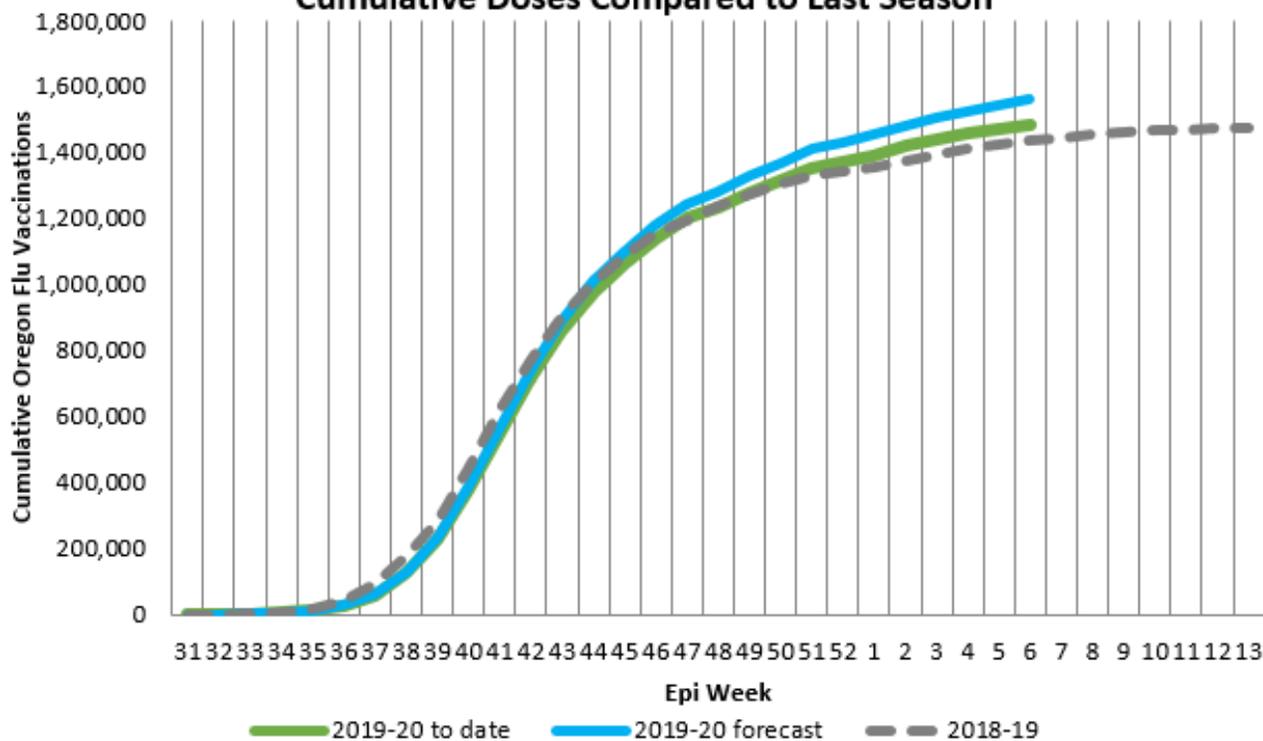


Figure 7. 2019-2020 Flu Vaccination in ALERT IIS by Epi Week, Cumulative Doses Compared to Last Season



US Data (from CDC FluView): Key indicators that track flu activity remain high and, after falling during the first two weeks of the year, increased over the last four weeks. Indicators that track overall severity (hospitalizations and deaths) are not high at this point in the season.

Viruses

- **Clinical Labs:** The percentage of respiratory specimens testing positive for influenza at clinical laboratories increased from 30.1% last week to 30.8% this week.
- **Public Health Labs:** Numbers of influenza B/Victoria and A(H1N1)pdm09 viruses are approximately equal for the season overall, with continued increases in influenza A(H1N1)pdm09 viruses in recent weeks.

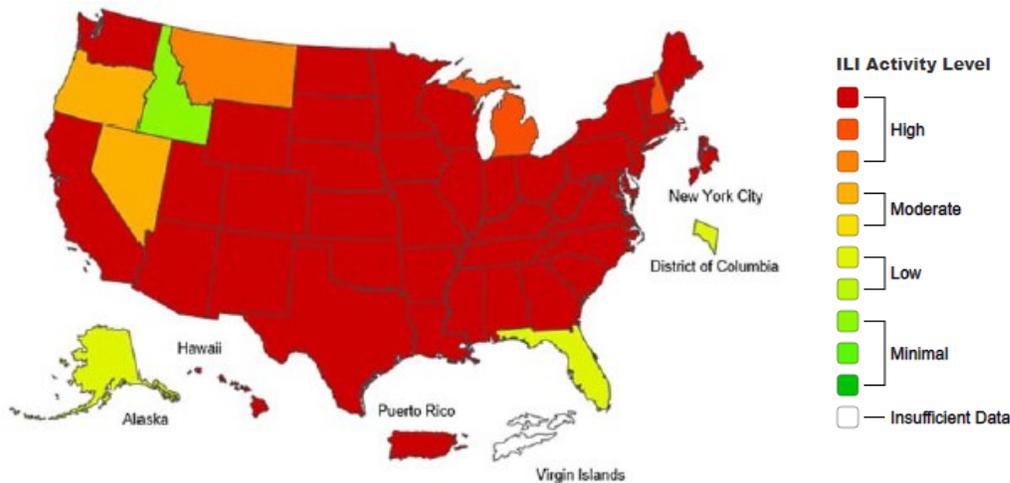
Illness

- **ILINet Outpatient Illness:** Visits to health care providers for influenza-like illness (ILI) increased from 6.6% last week to 6.8% this week. All regions remain above their baselines.
- **ILINet Activity Map:** The number of jurisdictions experiencing high ILI activity decreased slightly from 47 last week to 46 this week.
- **Geographic Spread:** The number of jurisdictions reporting regional or widespread influenza activity remained at 51 this week.

Severe Disease

- **Hospitalizations:** The overall hospitalization rate for the season increased to 41.9 per 100,000. This is similar to what has been seen at this time during recent seasons.
- **P&I Mortality:** The percentage of deaths attributed to pneumonia and influenza is 6.8%, below the epidemic threshold of 7.2%.
- **Pediatric Deaths:** Fourteen new influenza-associated pediatric deaths occurring during the 2019-2020 season were reported this week. The total for the season is 92.

**Influenza-like Illness (ILI) Activity Level Indicator Determined by Data Reported to ILINet
2019-20 Infection Season Week 6 ending February 08, 2020**



Map above: This map uses the proportion of outpatient visits to ILINet sentinel providers for influenza-like illness to measure the ILI activity level within a state. It does not, however, measure the extent of geographic spread of flu within a state. Therefore, outbreaks occurring in a single city could cause the state to display high activity levels.

**Weekly Influenza Activity Estimates Reported by State and Territorial Epidemiologists
Week ending February 08, 2020— Week 6**



Map left: The map left measures the geographic spread of influenza viruses, but does not measure the intensity of influenza activity.

All Flu Bites data are preliminary and may change as additional reports are received. Find the most recent Flu Bites report online at: <http://www.oregon.gov/oha/ph/DiseasesConditions/CommunicableDisease/DiseaseSurveillanceData/Influenza/Pages/surveil.aspx>

Data at a Glance January 26—February 1, 2020 (Week 05)

	Current Week (05)	Previous Week (04)
Percentage of emergency department visits for ILI ¹	3.2%	3.3%
Percentage positive influenza tests ²	19.9%	24.7%
Influenza-associated hospitalizations ³	33	22
Reported influenza outbreaks	4	4
Influenza-associated pediatric mortality	0	0
Respiratory Syncytial Virus (RSV) activity ⁴	13.2%	12.9%

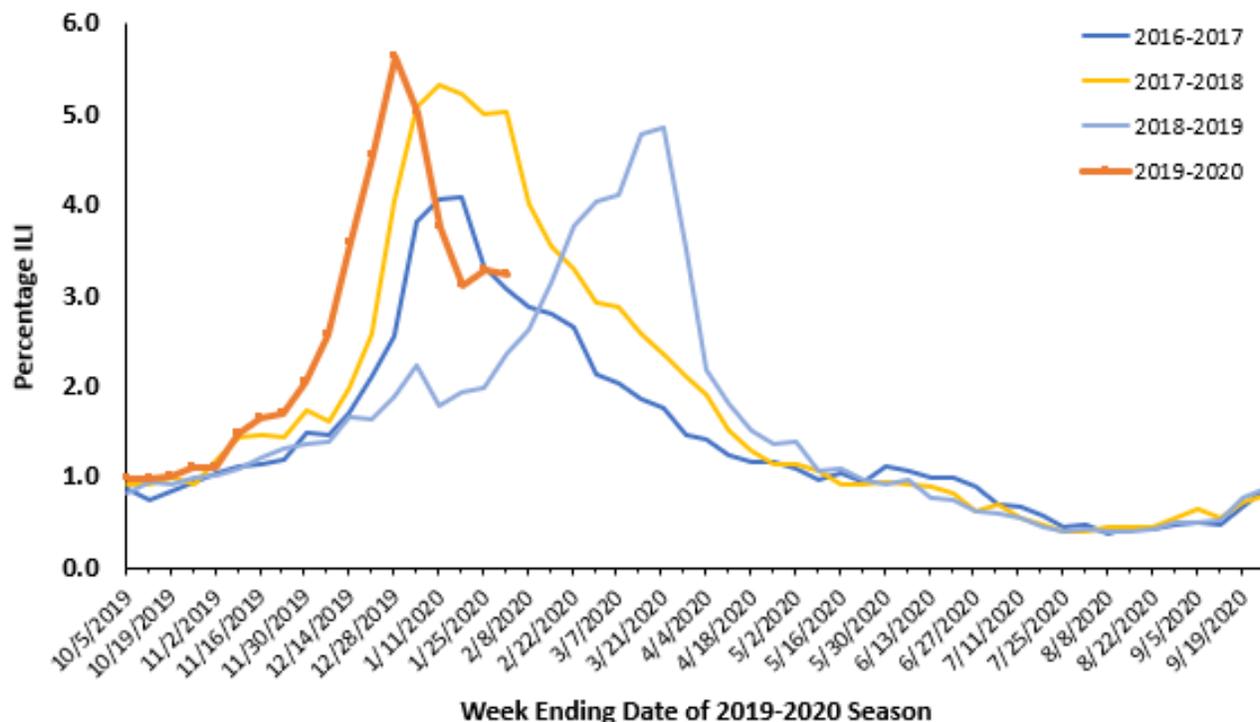
¹Based on Oregon ESSENCE Syndromic Surveillance. Data represent statewide aggregate percent.

²Percent positivity based on data from Oregon reporters to the National Respiratory and Enteric Virus Surveillance System (NREVSS)

³Based on hospitalization surveillance in Clackamas, Multnomah, and Washington counties only.

⁴Percent positivity based on data from Oregon's RSV Laboratory Surveillance System.

Figure 1. Percentage of ED Visits for ILI, Oregon ESSENCE Syndromic Surveillance, 2016–2017, 2017–2018, 2018–2019, 2019–2020



Oregon ESSENCE Syndromic Surveillance: Oregon Public Health tracks hospital emergency department (ED) visits throughout the state using the Oregon ESSENCE syndromic surveillance system. ESSENCE categorizes chief complaints into syndrome categories, which include ILI. Figure 1, above, displays percentages for all of Oregon during this flu season compared with the previous three flu seasons. The percent of ED visits for ILI in all of Oregon was 3.2% during week 5, 2020.

Laboratory Surveillance: The National Respiratory and Enteric Virus Surveillance System (NREVSS) is a laboratory-based system that monitors influenza and other respiratory viruses circulating the United States. More information is at CDC’s [website](#).

Table 1 shows the tests conducted and results by region for the current week for influenza in specimens tested at the Oregon laboratories reporting to NREVSS. Figure 2 shows that 19.9% of specimens tested at Oregon labs were positive for influenza during week 5, and the bar chart displays the number of influenza-positive tests by flu type and percent positivity.

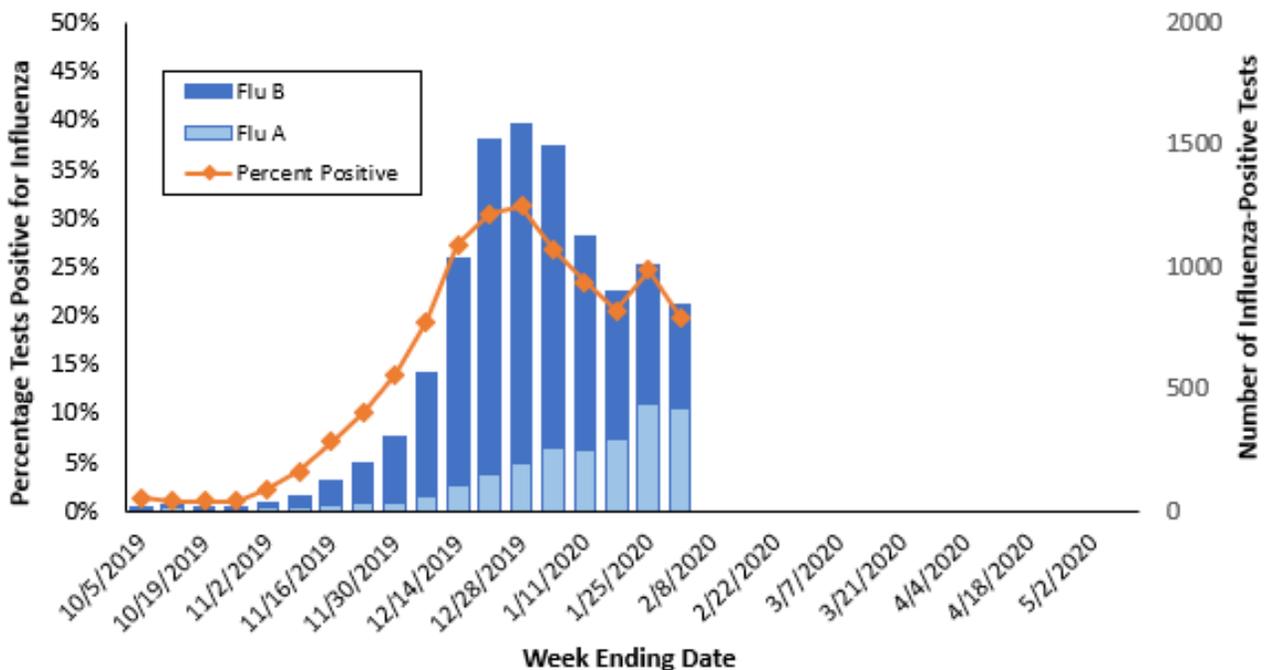
Participation by laboratories is voluntary. Current labs participating in NREVSS in Oregon include:

Legacy Emanuel Hospital and Health Center (Portland, OR), Oregon Health & Science University (Portland, OR), Providence Health (Oregon), Kaiser Permanente (Oregon), Veteran’s Administration Hospital (Portland, OR), Adventist Health (Portland, OR), Bay Area Hospital (Coos Bay, OR), Curry Health Network (Brookings, OR), Mercy Medical Center (Roseburg, OR), Sky Lakes Medical Center (Klamath Falls, OR), Lake Health District, (Lakeview, OR), Rogue Valley Medical Center (SW Oregon), Good Shepherd Medical Center (Hermiston, OR), Grande Ronde Hospital, (La Grande, OR), Mid-Columbia Medical Center (The Dalles, OR), Central Oregon Pediatric Associates (Central Oregon), Harney District Hospital (Burns, OR), St. Charles (Bend, OR), Samaritan Health Services (Lebanon, OR), Columbia Memorial Hospital (Astoria, OR), PeaceHealth Southwest Medical Center (Vancouver, WA), Salem Hospital (Salem, OR), Willamette Valley Medical Center (McMinnville, OR).

Table 1. Influenza Test Results in Oregon by Region, NREVSS, Current Week, 2019–2020 Season

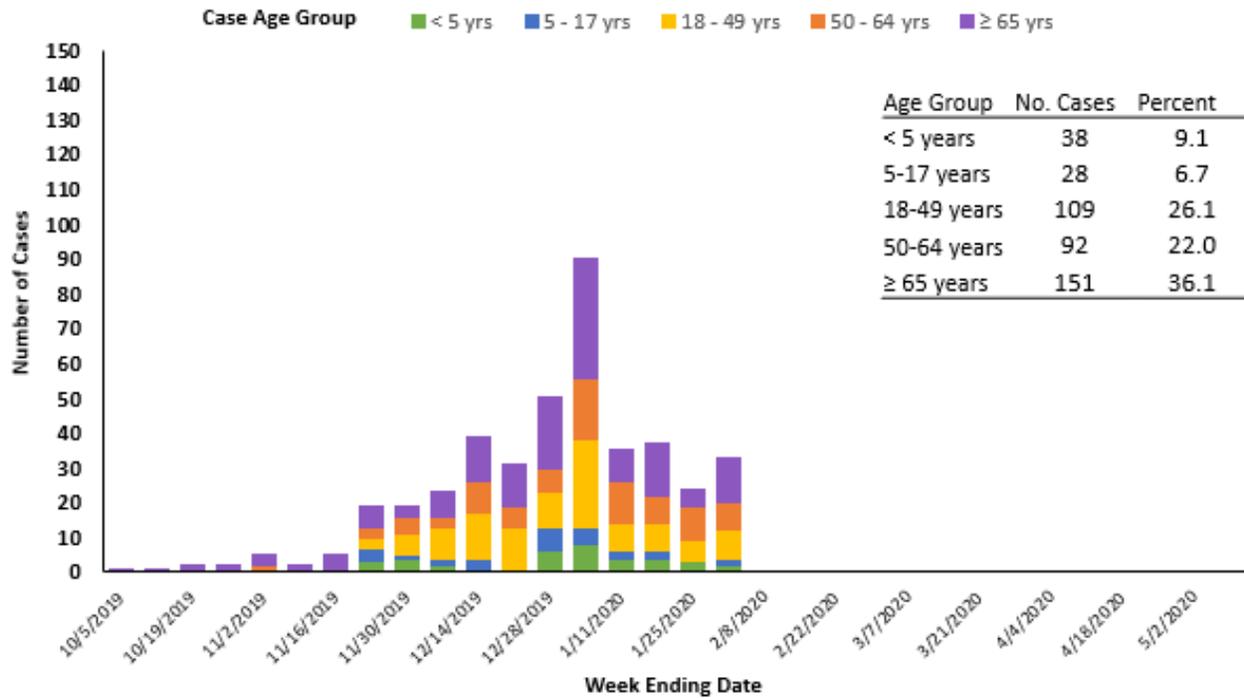
Region	Total Tests	Positive		Flu A		Flu B	
		No.	(%)	No.	(%)	No.	(%)
Portland Metro	2053	364	17.7%	227	62.4%	137	37.6%
Southern Oregon	1032	222	21.5%	82	36.9%	140	63.1%
Columbia Gorge	117	23	19.7%	7	30.4%	16	69.6%
Central Oregon	501	146	29.1%	68	46.6%	78	53.4%
Willamette Valley	527	87	16.5%	42	48.3%	45	51.7%
State Total	4230	842	19.9%	426	50.6%	416	49.4%

**Figure 2. Oregon Influenza Laboratory Surveillance
Percent Positive Influenza Tests by Week, NREVSS, 2019-2020 Season**



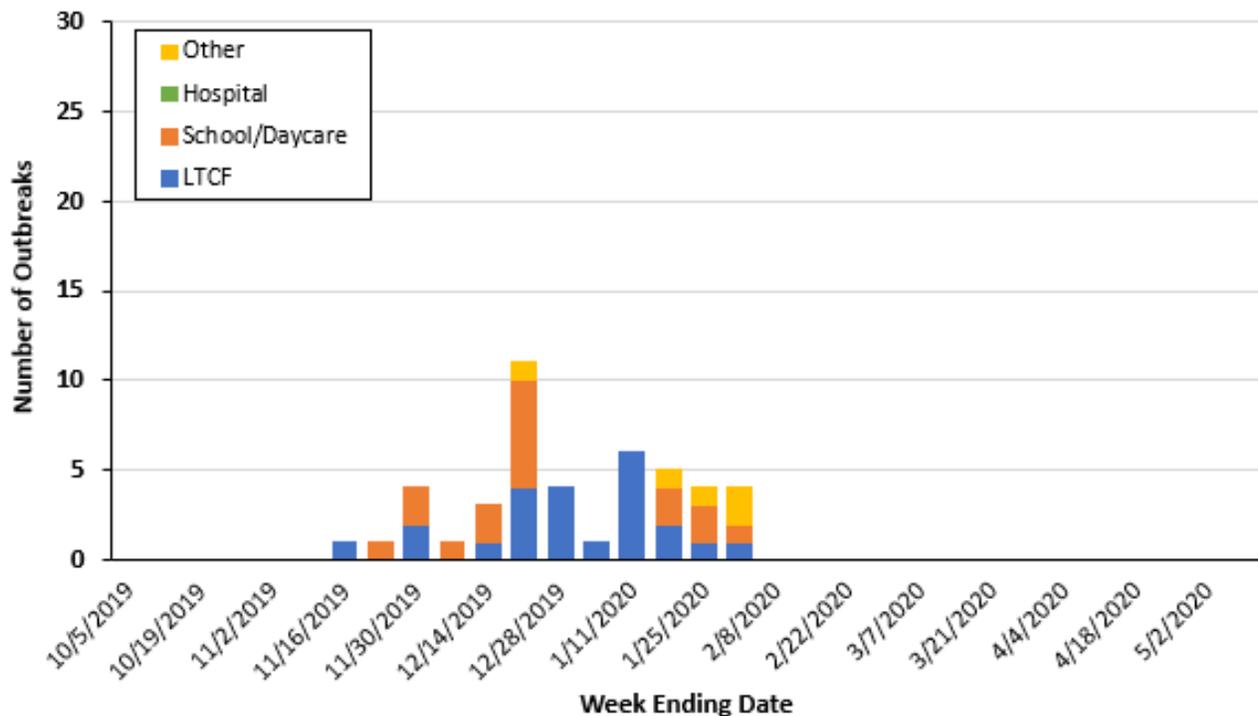
Hospitalizations: In Clackamas, Multnomah, and Washington counties 33 influenza-associated hospitalizations were reported during week 5 of 2020. In total, there have been 418 hospitalizations; 160 (38.3%) were positive for flu A and 258 (61.72%) were positive for flu B. Of the 32 flu A specimens that have been subtyped, 27 (84.4%) were 2009 H1N1 and 5 (15.6%) were flu A H3. All 22 flu B specimens that were differentiated were Victoria lineage.

Figure 3. Portland Metro Area Influenza-Associated Hospitalizations by Week and Age Group, 2019-2020 Season



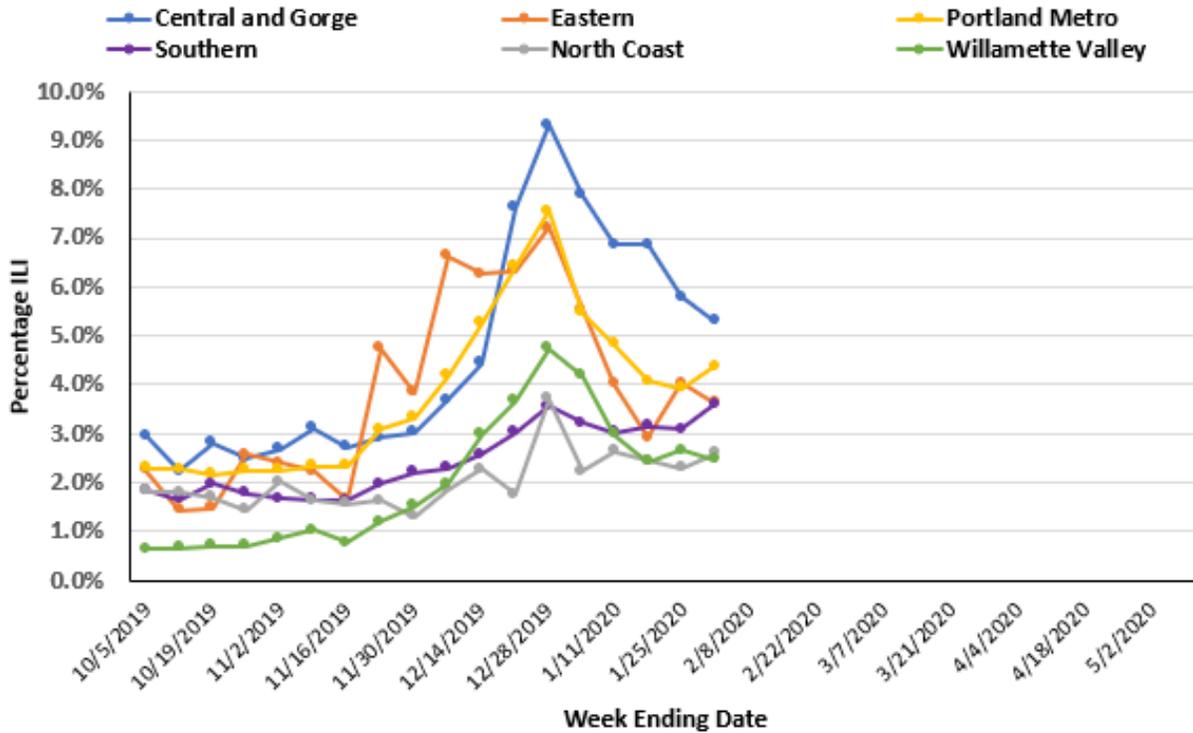
Influenza Outbreaks: There were 4 influenza outbreaks reported during Week 5, 2020. There have been a total of 45 influenza outbreaks reported to the Oregon Health Authority in the 2019—2020 flu season; 23 occurred in a long-term care facility, 17 occurred in a school, and 5 occurred in another setting.

Figure 4. Number of Influenza Outbreaks in Oregon by Setting, 2019-2020 Season



Outpatient Influenza-like Illness Surveillance: Oregon’s outpatient influenza-like illness (ILI) surveillance comprises 17 voluntary reporting outpatient providers, 64 emergency departments and urgent care clinics reporting to ESSENCE, and 309 OCHIN clinics from across Oregon. The percent of outpatients seen with ILI across the state during week 5 of 2020 was 3.9%. Regionally, the percent was highest in the Central and Gorge region (5.3%) and lowest in the Willamette Valley (2.5%).

Figure 5. Percentage of Visits for ILI at Outpatient Clinics & Emergency Departments, by Oregon Region, 2019-2020



Immunizations data: Weekly influenza immunization reporting is based on ALERT Immunization Information System (ALERT IIS) data through epi week 5 of 2020 (February 1st). As a caveat, while most immunizations are reported quickly and electronically to ALERT IIS, some reporting is delayed- current weekly totals will be adjusted upward later.

Figure 6. 2019-2020 Oregon Flu Vaccine Doses in ALERT IIS by Epi Week

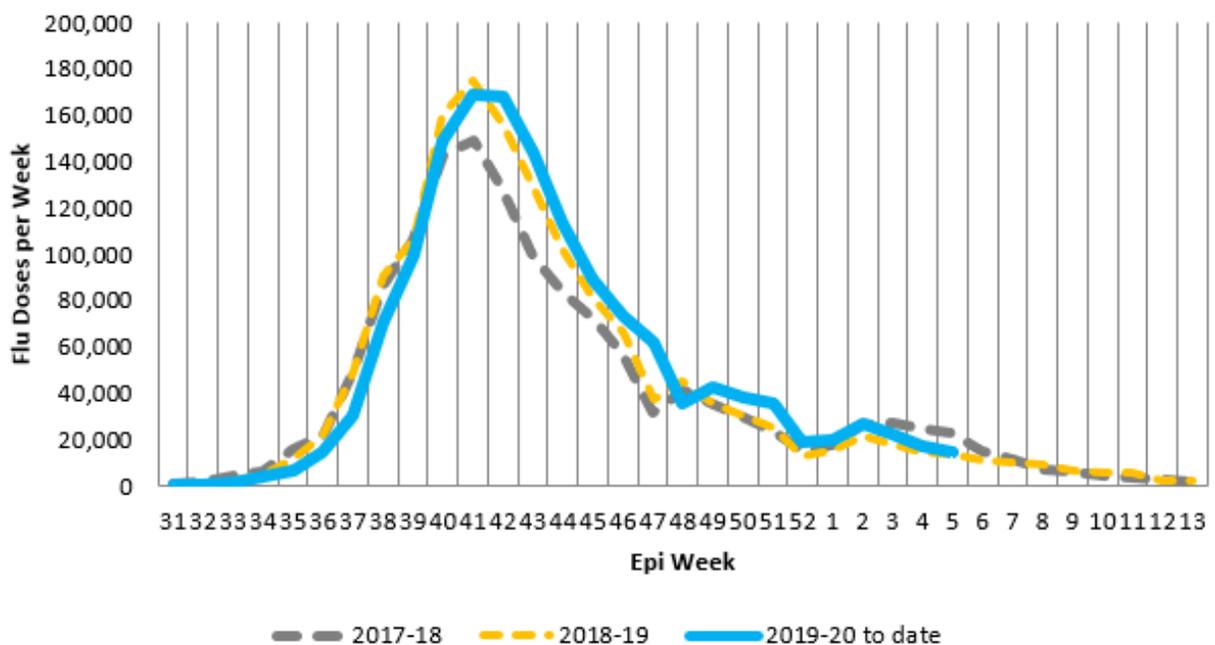
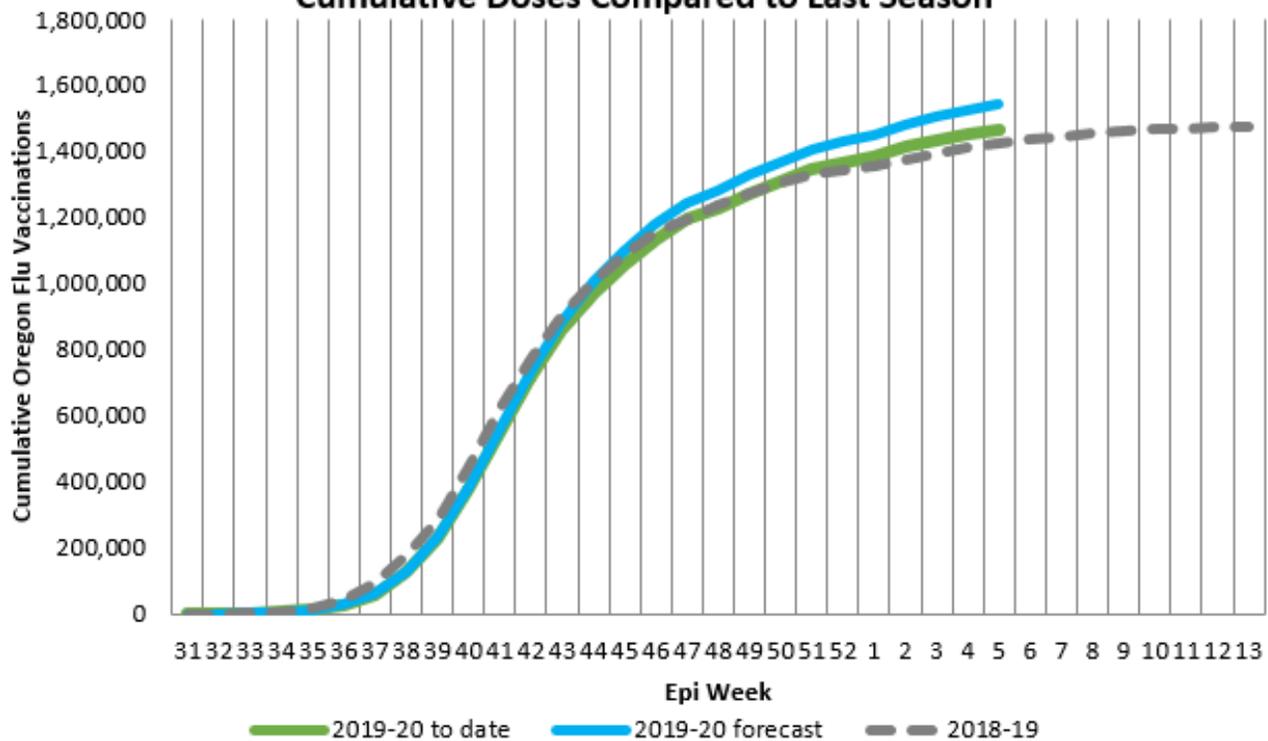


Figure 7. 2019-2020 Flu Vaccination in ALERT IIS by Epi Week, Cumulative Doses Compared to Last Season



Immunizations data (continued): Oregon Immunizations Program is currently projecting a 2019-20 influenza immunization rate of 45.5% among Oregonians of all ages. This is slightly above last season’s rate of 45.2%. For this week, a table is included for projected all-age influenza immunization rates by race (single categories) and ethnicity. Consistent with prior seasons, Hispanic Oregonians have lower influenza immunization rates than other groups, but all groups remain substantially below target immunization rates.

Table 2. Projected Oregon 2019-20 All-Age Influenza Immunization Rates

Race/ethnicity	rate
White	46.6%
Black	45.5%
Asian or Pacific Islander	46.2%
American Indian/Alaskan Native	45.5%
Hispanic (any race)	40.4%
All	45.5%

US Data (from CDC FluView): Key indicators that track flu activity remain high and, after falling during the first two weeks of the year, increased over the last three weeks. Indicators that track overall severity (hospitalizations and deaths) are not high at this point in the season.

Viruses

- **Clinical Labs:** The percentage of respiratory specimens testing positive for influenza at clinical laboratories increased from 28.4% last week to 29.8% this week.
- **Public Health Labs:** Numbers of influenza B/Victoria and A(H1N1)pdm09 viruses are approximately equal for the season overall, with continued increases in influenza A(H1N1)pdm09 viruses in recent weeks.

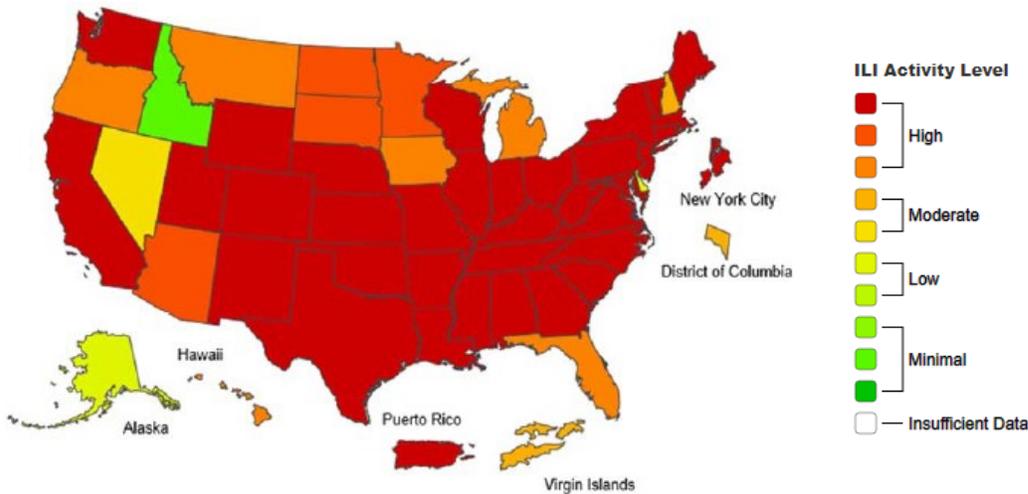
Illness

- **ILINet Outpatient Illness:** Visits to health care providers for influenza-like illness (ILI) increased from 6.0% last week to 6.7% this week. All regions remain above their baselines.
- **ILINet Activity Map:** The number of jurisdictions experiencing high ILI activity increased from 44 last week to 47 this week.
- **Geographic Spread:** The number of jurisdictions reporting regional or widespread influenza activity remained at 51 this week.

Severe Disease

- **Hospitalizations:** The overall hospitalization rate for the season increased to 35.5 per 100,000. This is similar to what has been seen at this time during recent seasons.
- **P&I Mortality:** The percentage of deaths attributed to pneumonia and influenza is 7.1%, below the epidemic threshold of 7.2%.
- **Pediatric Deaths:** Ten new influenza-associated pediatric deaths occurring during the 2019-2020 season were reported this week. The total for the season is 78.

**Influenza-like Illness (ILI) Activity Level Indicator Determined by Data Reported to ILINet
2019-20 Infection Season Week 5 ending February 01, 2020**



Map above: This map uses the proportion of outpatient visits to ILINet sentinel providers for influenza-like illness to measure the ILI activity level within a state. It does not, however, measure the extent of geographic spread of flu within a state. Therefore, outbreaks occurring in a single city could cause the state to display high activity levels.

**Weekly Influenza Activity Estimates Reported by State and Territorial Epidemiologists
Week ending February 01, 2020— Week 5**



Map left: The map left measures the geographic spread of influenza viruses, but does not measure the intensity of influenza activity.

All Flu Bites data are preliminary and may change as additional reports are received. Find the most recent Flu Bites report online at: <http://www.oregon.gov/oha/ph/DiseasesConditions/CommunicableDisease/DiseaseSurveillanceData/Influenza/Pages/surveil.aspx>

Data at a Glance January 19—January 25, 2020 (Week 04)

	Current Week (04)	Previous Week (03)
Percentage of emergency department visits for ILI¹	3.3%	3.1%
Percentage positive influenza tests²	24.7%	20.6%
Influenza-associated hospitalizations³	22	36
Reported influenza outbreaks	4	5
Influenza-associated pediatric mortality	0	0
Respiratory Syncytial Virus (RSV) activity⁴	12.9%	12.7%

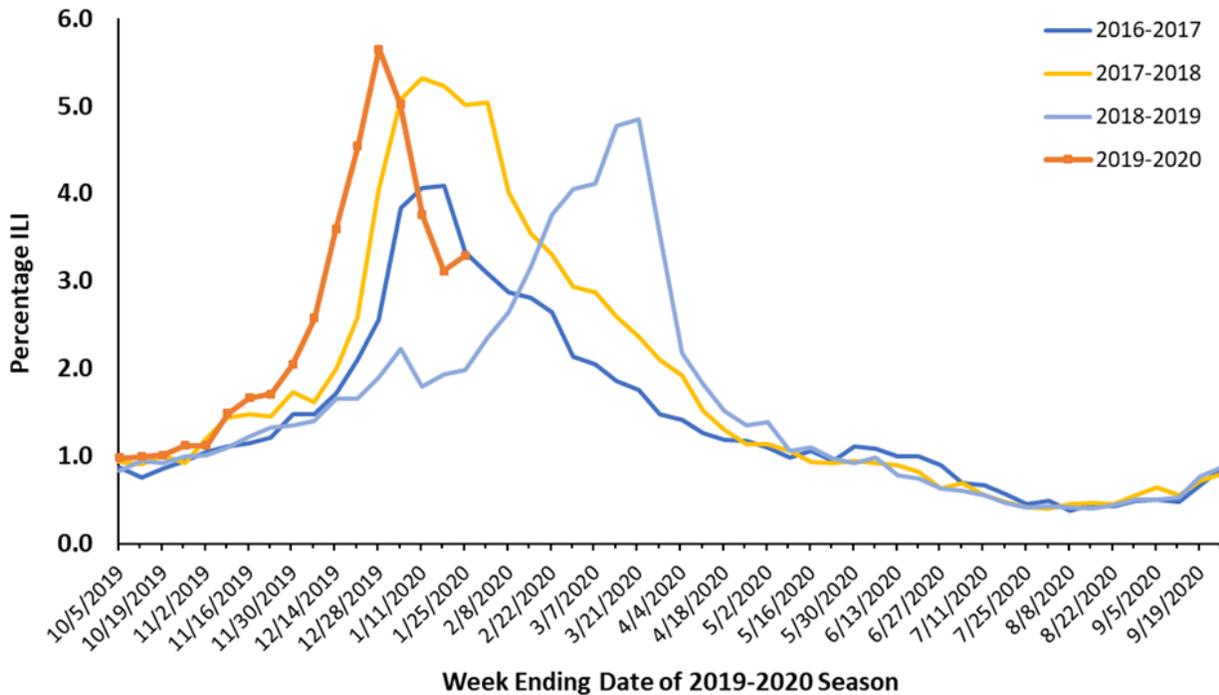
¹Based on Oregon ESSENCE Syndromic Surveillance. Data represent statewide aggregate percent.

²Percent positivity based on data from Oregon reporters to the National Respiratory and Enteric Virus Surveillance System (NREVSS)

³Based on hospitalization surveillance in Clackamas, Multnomah, and Washington counties only.

⁴Percent positivity based on data from Oregon's RSV Laboratory Surveillance System.

Figure 1. Percentage of ED Visits for ILI, Oregon ESSENCE Syndromic Surveillance, 2016–2017, 2017–2018, 2018–2019, 2019–2020



Oregon ESSENCE Syndromic Surveillance: Oregon Public Health tracks hospital emergency department (ED) visits throughout the state using the Oregon ESSENCE syndromic surveillance system. ESSENCE categorizes chief complaints into syndrome categories, which include ILI. Figure 1, above, displays percentages for all of Oregon during this flu season compared with the previous three flu seasons. The percent of ED visits for ILI in all of Oregon was 3.3% during week 4, 2020.

Laboratory Surveillance: The National Respiratory and Enteric Virus Surveillance System (NREVSS) is a laboratory-based system that monitors influenza and other respiratory viruses circulating the United States. More information is at CDC's [website](#).

Table 1 shows the tests conducted and results by region for the current week for influenza in specimens tested at the Oregon laboratories reporting to NREVSS. Figure 2 shows that 24.7% of specimens tested at Oregon labs were positive for influenza during week 4, and the bar chart displays the number of influenza-positive tests by flu type and percent positivity.

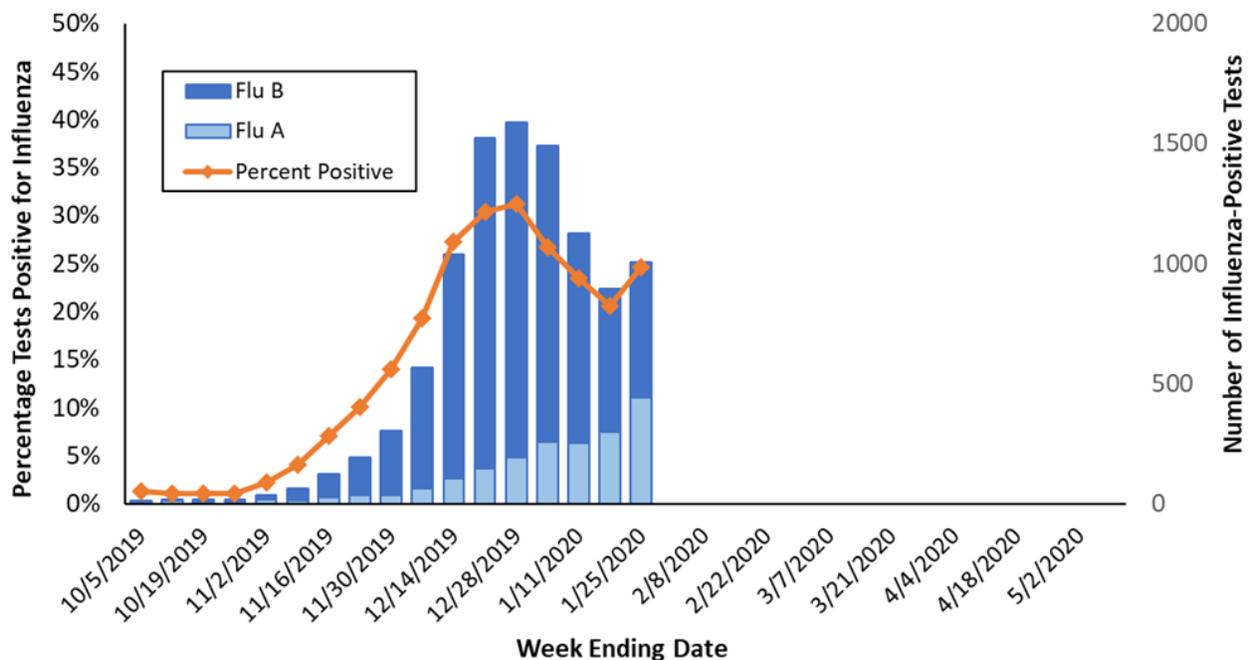
Participation by laboratories is voluntary. Current labs participating in NREVSS in Oregon include:

Legacy Emanuel Hospital and Health Center (Portland, OR), Oregon Health & Science University (Portland, OR), Providence Health (Oregon), Kaiser Permanente (Oregon), Veteran's Administration Hospital (Portland, OR), Adventist Health (Portland, OR), Bay Area Hospital (Coos Bay, OR), Curry Health Network (Brookings, OR), Mercy Medical Center (Roseburg, OR), Sky Lakes Medical Center (Klamath Falls, OR), Lake Health District, (Lakeview, OR), Rogue Valley Medical Center (SW Oregon), Good Shepherd Medical Center (Hermiston, OR), Grande Ronde Hospital, (La Grande, OR), Mid-Columbia Medical Center (The Dalles, OR), Central Oregon Pediatric Associates (Central Oregon), Harney District Hospital (Burns, OR), St. Charles (Bend, OR), Samaritan Health Services (Lebanon, OR), Columbia Memorial Hospital (Astoria, OR), PeaceHealth Southwest Medical Center (Vancouver, WA), Salem Hospital (Salem, OR), Willamette Valley Medical Center (McMinnville, OR).

Table 1. Influenza Test Results in Oregon by Region, NREVSS, Current Week, 2019–2020 Season

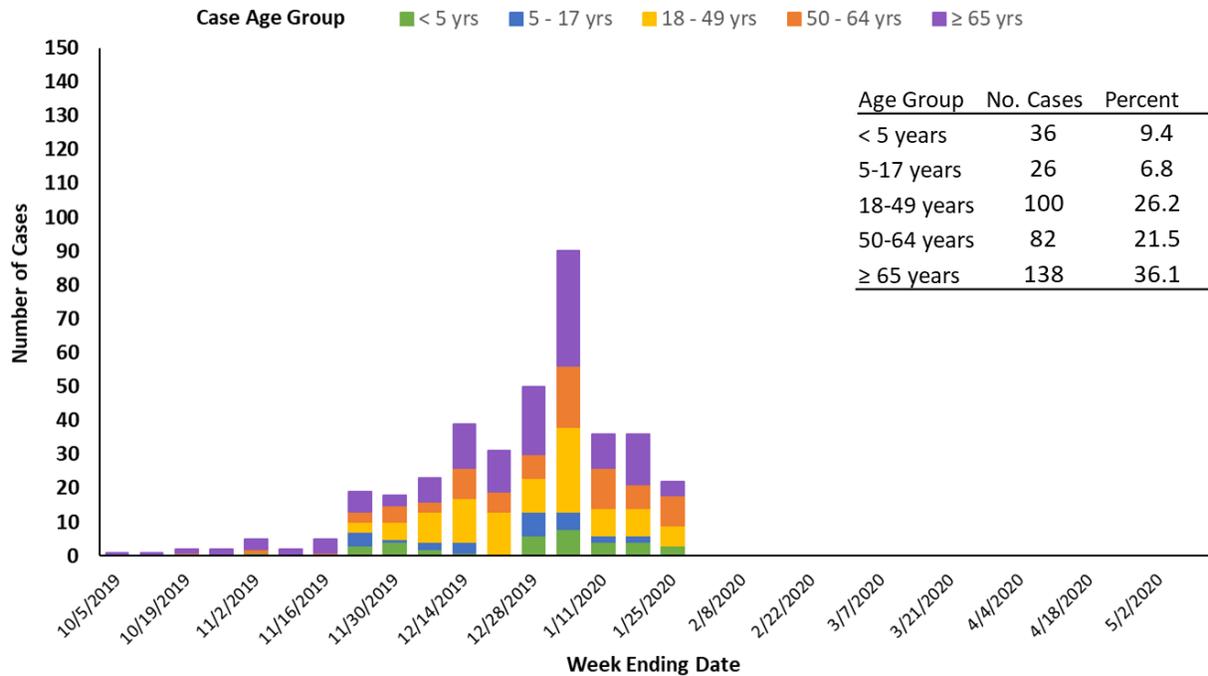
Region	Total Tests	Positive		Flu A		Flu B	
		No.	(%)	No.	(%)	No.	(%)
Portland Metro	2108	441	20.9%	238	54.0%	203	46.0%
Southern Oregon	914	270	29.5%	86	31.9%	184	68.1%
Columbia Gorge	113	16	14.2%	3	18.8%	13	81.3%
Central Oregon	471	141	29.9%	71	50.4%	70	49.6%
Willamette Valley	482	140	29.0%	43	30.7%	97	69.3%
State Total	4088	1008	24.7%	441	43.8%	567	56.3%

**Figure 2. Oregon Influenza Laboratory Surveillance
Percent Positive Influenza Tests by Week, NREVSS, 2019-2020 Season**



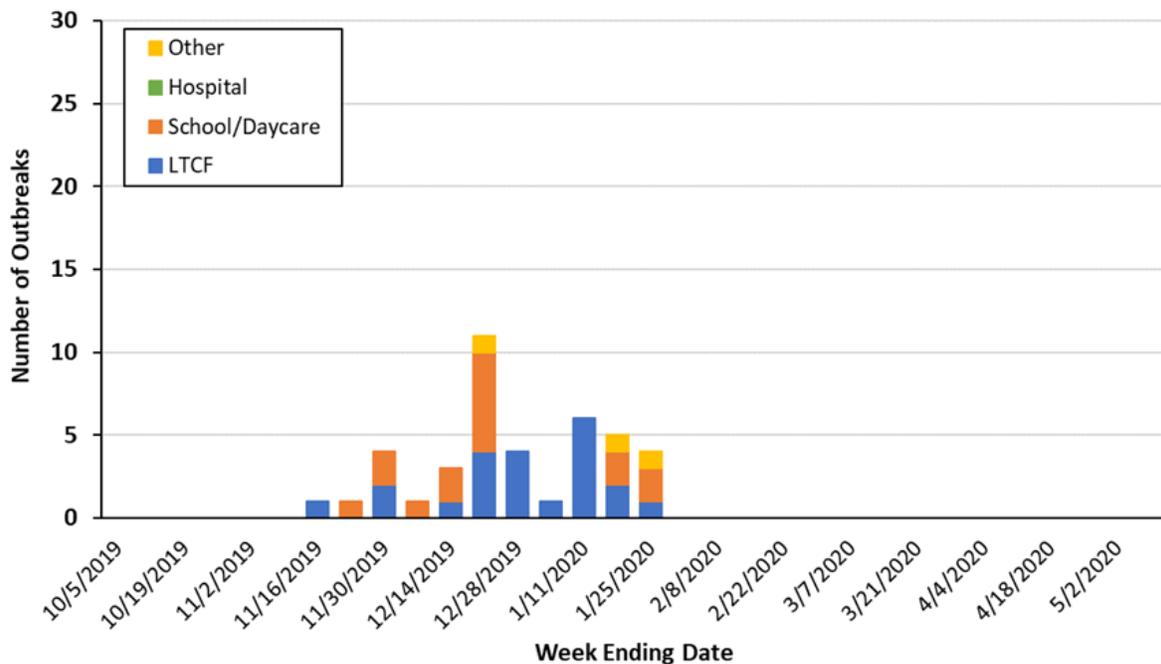
Hospitalizations: In Clackamas, Multnomah, and Washington counties 22 influenza-associated hospitalizations were reported during week 4 of 2020. In total, there have been 382 hospitalizations; 134 (35.1%) were positive for flu A and 248 (64.9%) were positive for flu B. Of the 15 flu A specimens that have been subtyped, 11 (73.3%) were 2009 H1N1 and 4 (26.7%) were flu A H3. All 22 flu B specimens that were differentiated were Victoria lineage.

Figure 3. Portland Metro Area Influenza-Associated Hospitalizations by Week and Age Group, 2019-2020 Season



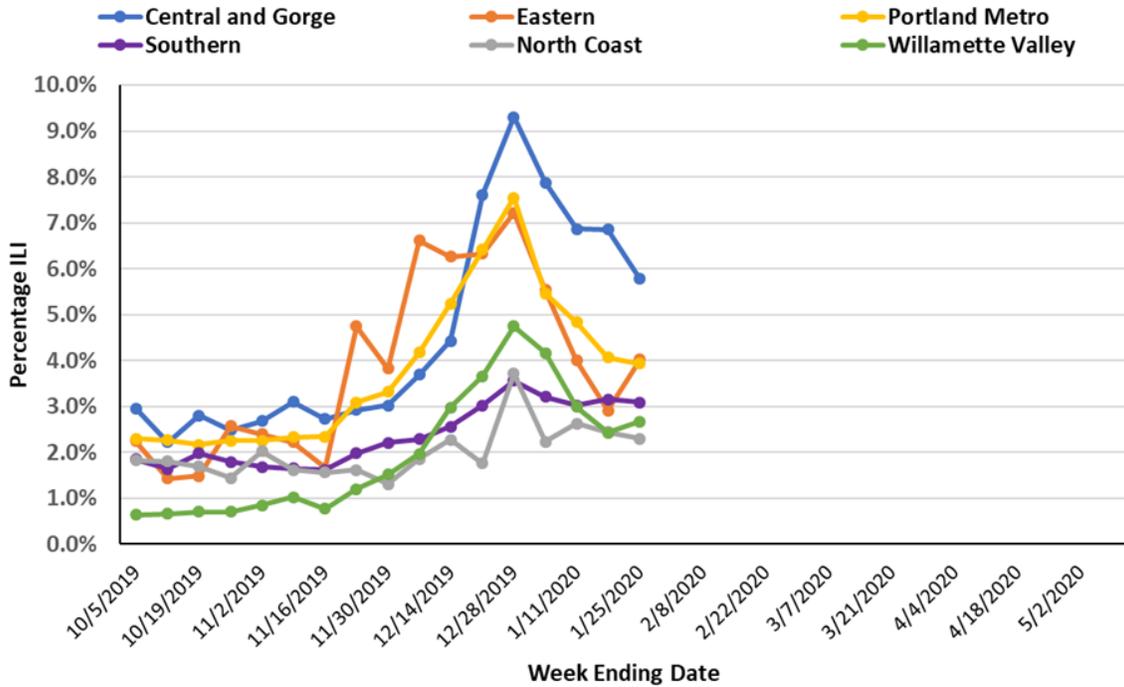
Influenza Outbreaks: There were 4 influenza outbreaks reported during Week 4, 2020. There have been a total of 41 influenza outbreaks reported to the Oregon Health Authority in the 2019—2020 flu season; 22 occurred in a long-term care facility, 13 occurred in a school, and 3 occurred in another setting.

Figure 4. Number of Influenza Outbreaks in Oregon by Setting, 2019-2020 Season



Outpatient Influenza-like Illness Surveillance: Oregon’s outpatient influenza-like illness (ILI) surveillance comprises 17 voluntary reporting outpatient providers, 64 emergency departments and urgent care clinics reporting to ESSENCE, and 309 OCHIN clinics from across Oregon. The percent of outpatients seen with ILI across the state during week 4 of 2020 was 3.6%. Regionally, the percent was highest in the Central and Gorge region (5.8%) and lowest in the North Coast (2.3%).

Figure 5. Percentage of Visits for ILI at Outpatient Clinics & Emergency Departments, by Oregon Region, 2019-2020



Immunizations data: Weekly influenza immunization reporting is based on ALERT Immunization Information System (ALERT IIS) data through epi week 4 of 2020 (January 25th). At this time, new influenza immunization seeking appears to be dropping. As a caveat, while most immunizations are reported quickly and electronically to ALERT IIS, some reporting is delayed- current weekly totals will be adjusted upward later.

Figure 6. 2019-2020 Oregon Flu Vaccine Doses in ALERT IIS by Epi Week

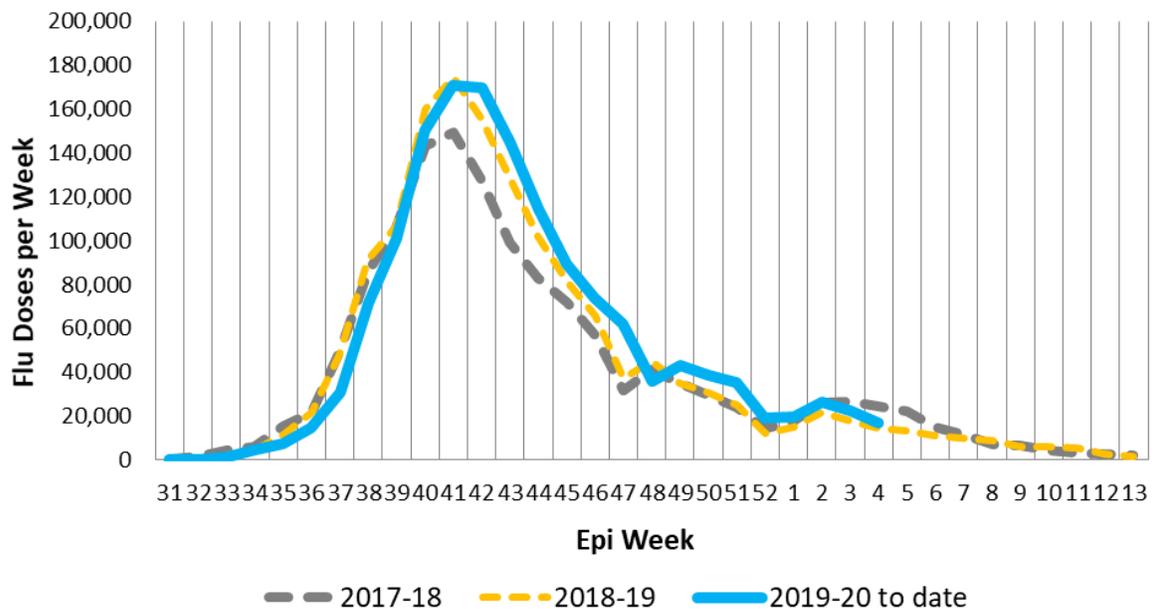
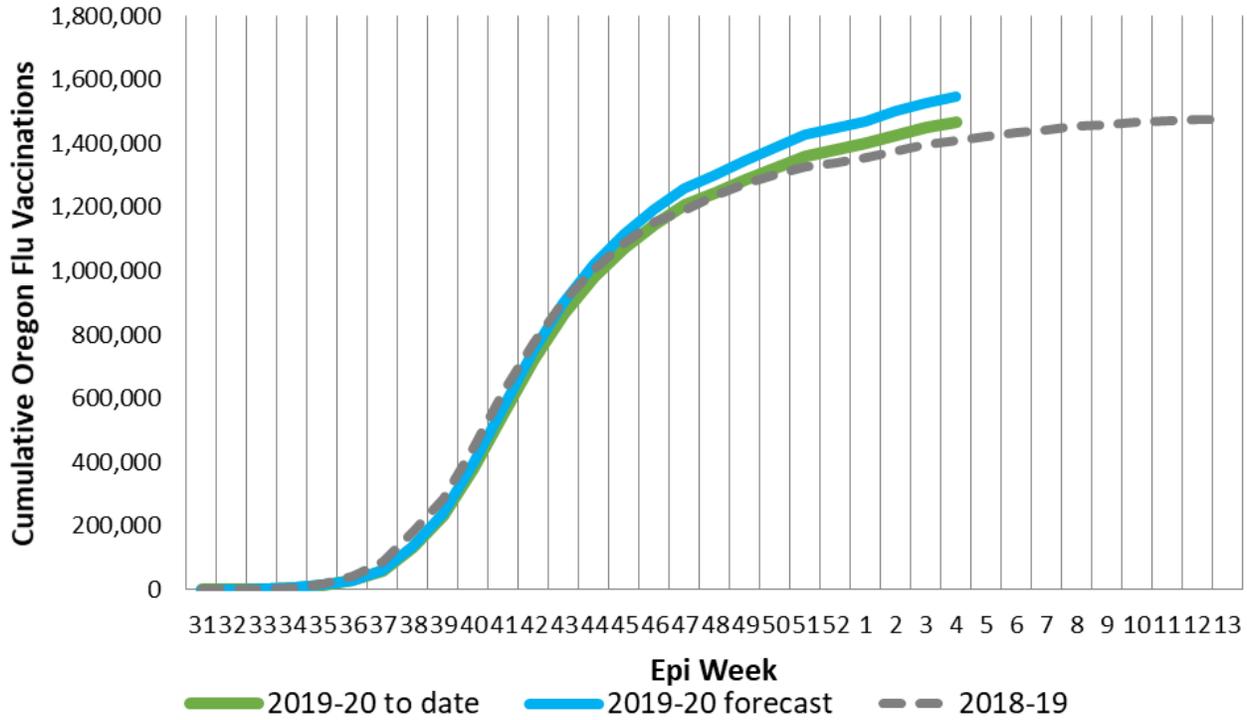
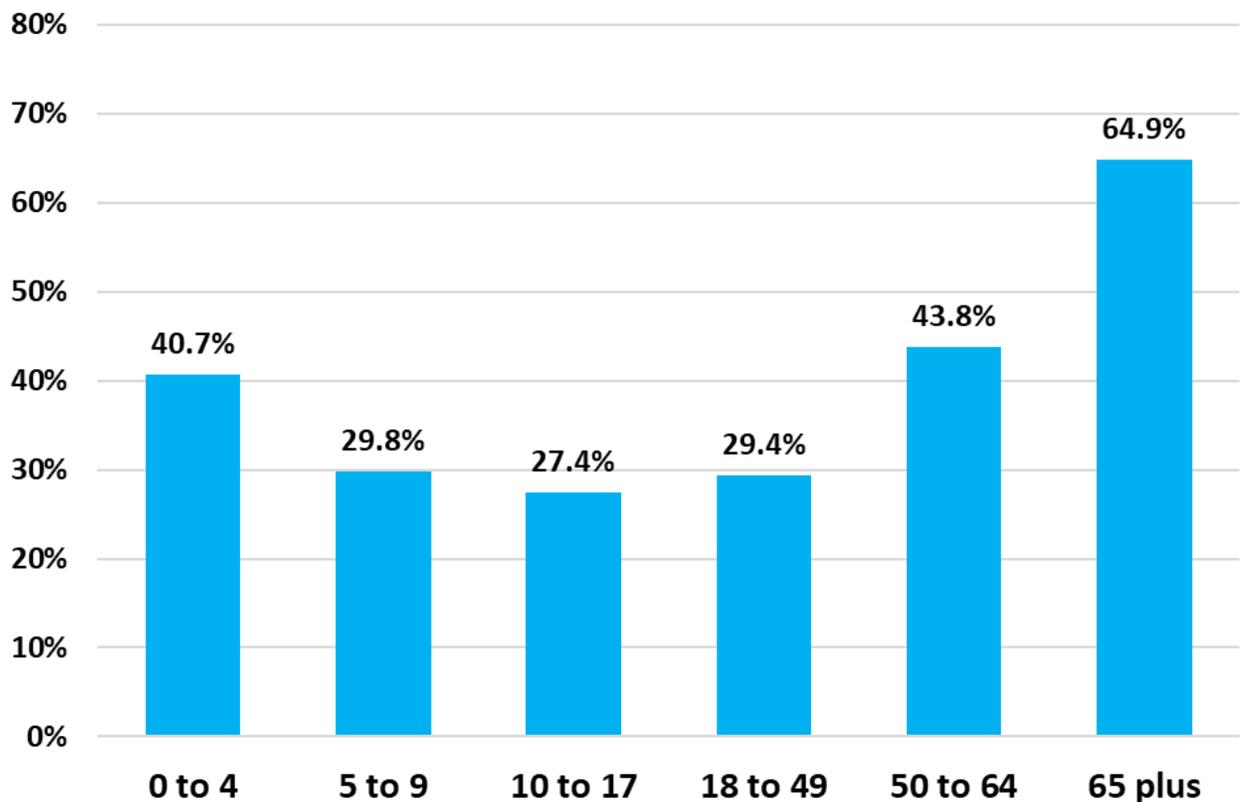


Figure 7. 2019-2020 Flu Vaccination in ALERT IIS by Epi Week, Cumulative Doses Compared to Last Season



Immunizations data (continued): For this week, we've added preliminary estimates of influenza immunization rates by age.

Figure 8. Oregon 2019-20 Influenza Immunization Rates by Age



Data at a Glance January 12—January 18, 2020 (Week 03)

	Current Week (03)	Previous Week (02)
Percentage of emergency department visits for ILI ¹	3.1%	3.8%
Percentage positive influenza tests ²	19.8%	23.1%
Influenza-associated hospitalizations ³	36	30
Reported influenza outbreaks	3	6
Influenza-associated pediatric mortality	0	0
Respiratory Syncytial Virus (RSV) activity ⁴	12.6%	11.5%

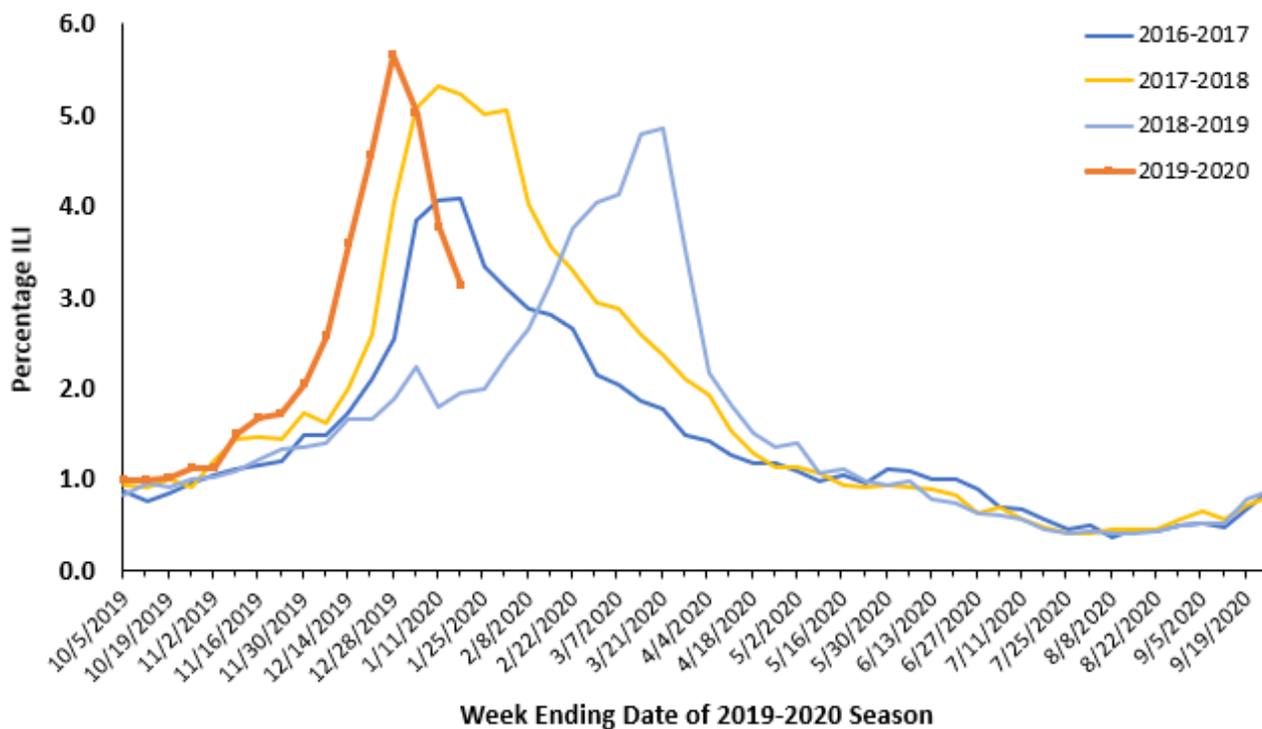
¹Based on Oregon ESSENCE Syndromic Surveillance. Data represent statewide aggregate percent.

²Percent positivity based on data from Oregon reporters to the National Respiratory and Enteric Virus Surveillance System (NREVSS)

³Based on hospitalization surveillance in Clackamas, Multnomah, and Washington counties only.

⁴Percent positivity based on data from Oregon's RSV Laboratory Surveillance System.

Figure 1. Percentage of ED Visits for ILI, Oregon ESSENCE Syndromic Surveillance, 2016–2017, 2017–2018, 2018–2019, 2019–2020



Oregon ESSENCE Syndromic Surveillance: Oregon Public Health tracks hospital emergency department (ED) visits throughout the state using the Oregon ESSENCE syndromic surveillance system. ESSENCE categorizes chief complaints into syndrome categories, which include ILI. Figure 1, above, displays percentages for all of Oregon during this flu season compared with the previous three flu seasons. The percent of ED visits for ILI in all of Oregon was 3.1% during week 3, 2020.

Laboratory Surveillance: The National Respiratory and Enteric Virus Surveillance System (NREVSS) is a laboratory-based system that monitors influenza and other respiratory viruses circulating the United States. More information is at CDC's [website](#).

Table 1 shows the tests conducted and results by region for the current week for influenza in specimens tested at the Oregon laboratories reporting to NREVSS. Figure 2 shows that 19.8% of specimens tested at Oregon labs were positive for influenza during week 3, and the bar chart displays the number of influenza-positive tests by flu type and percent positivity.

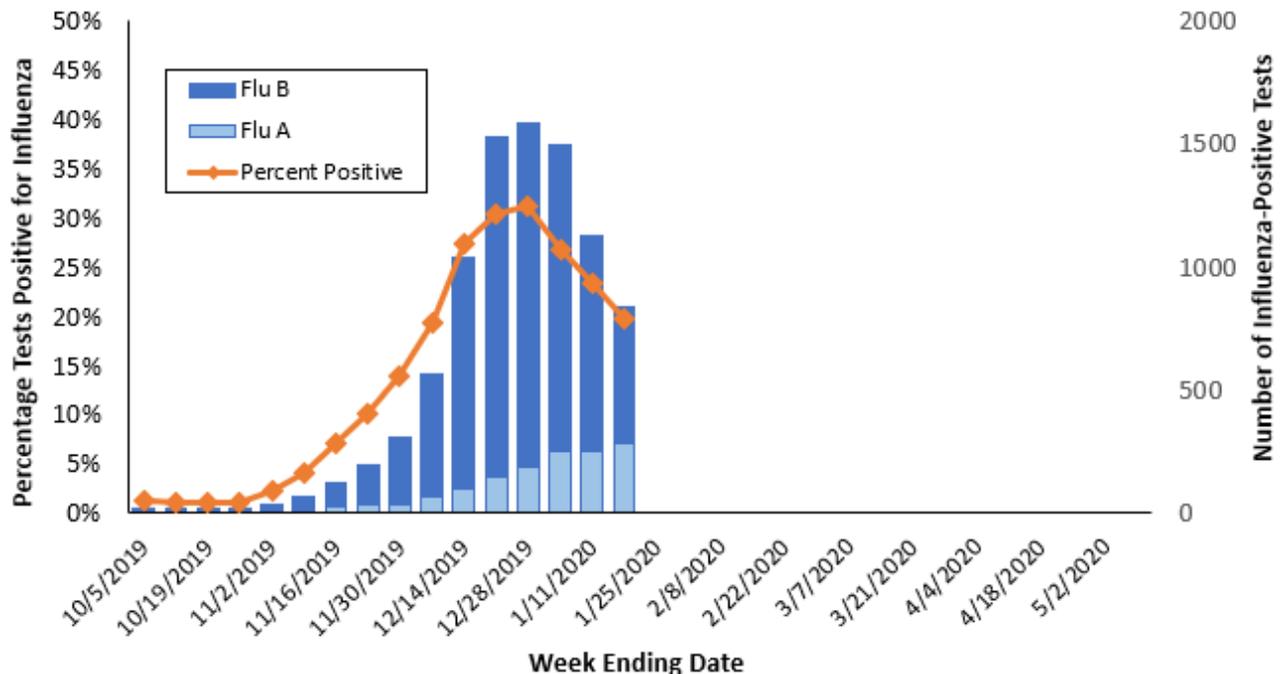
Participation by laboratories is voluntary. Current labs participating in NREVSS in Oregon include:

Legacy Emanuel Hospital and Health Center (Portland, OR), Oregon Health & Science University (Portland, OR), Providence Health (Oregon), Kaiser Permanente (Oregon), Veteran's Administration Hospital (Portland, OR), Adventist Health (Portland, OR), Bay Area Hospital (Coos Bay, OR), Curry Health Network (Brookings, OR), Mercy Medical Center (Roseburg, OR), Sky Lakes Medical Center (Klamath Falls, OR), Lake Health District, (Lakeview, OR), Rogue Valley Medical Center (SW Oregon), Good Shepherd Medical Center (Hermiston, OR), Grande Ronde Hospital, (La Grande, OR), Mid-Columbia Medical Center (The Dalles, OR), Central Oregon Pediatric Associates (Central Oregon), Harney District Hospital (Burns, OR), St. Charles (Bend, OR), Samaritan Health Services (Lebanon, OR), Columbia Memorial Hospital (Astoria, OR), PeaceHealth Southwest Medical Center (Vancouver, WA), Salem Hospital (Salem, OR), Willamette Valley Medical Center (McMinnville, OR).

Table 1. Influenza Test Results in Oregon by Region, NREVSS, Current Week, 2019–2020 Season

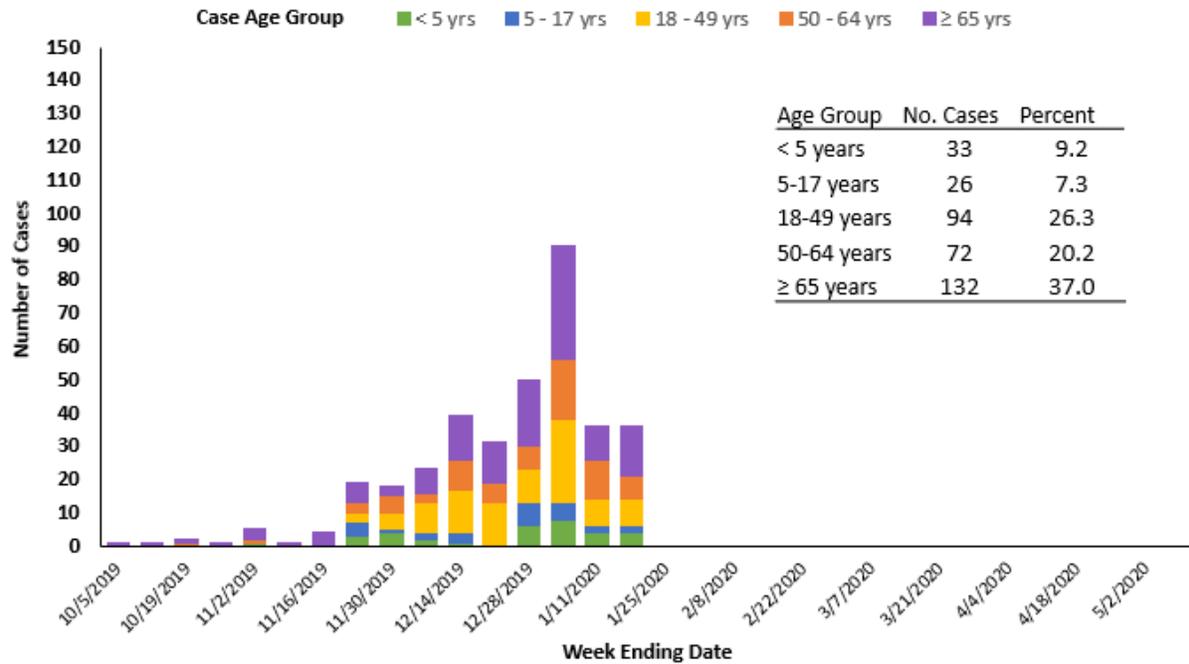
Region	Total Tests	Positive		Flu A		Flu B	
		No.	(%)	No.	(%)	No.	(%)
Portland Metro	2173	407	18.7%	158	38.8%	249	61.2%
Southern Oregon	1032	211	20.4%	41	19.4%	170	80.6%
Columbia Gorge	191	38	19.9%	14	36.8%	24	63.2%
Central Oregon	405	96	23.7%	47	49.0%	49	51.0%
Willamette Valley	444	88	19.8%	22	25.0%	66	75.0%
State Total	4245	840	19.8%	282	33.6%	558	66.4%

**Figure 2. Oregon Influenza Laboratory Surveillance
Percent Positive Influenza Tests by Week, NREVSS, 2019-2020 Season**



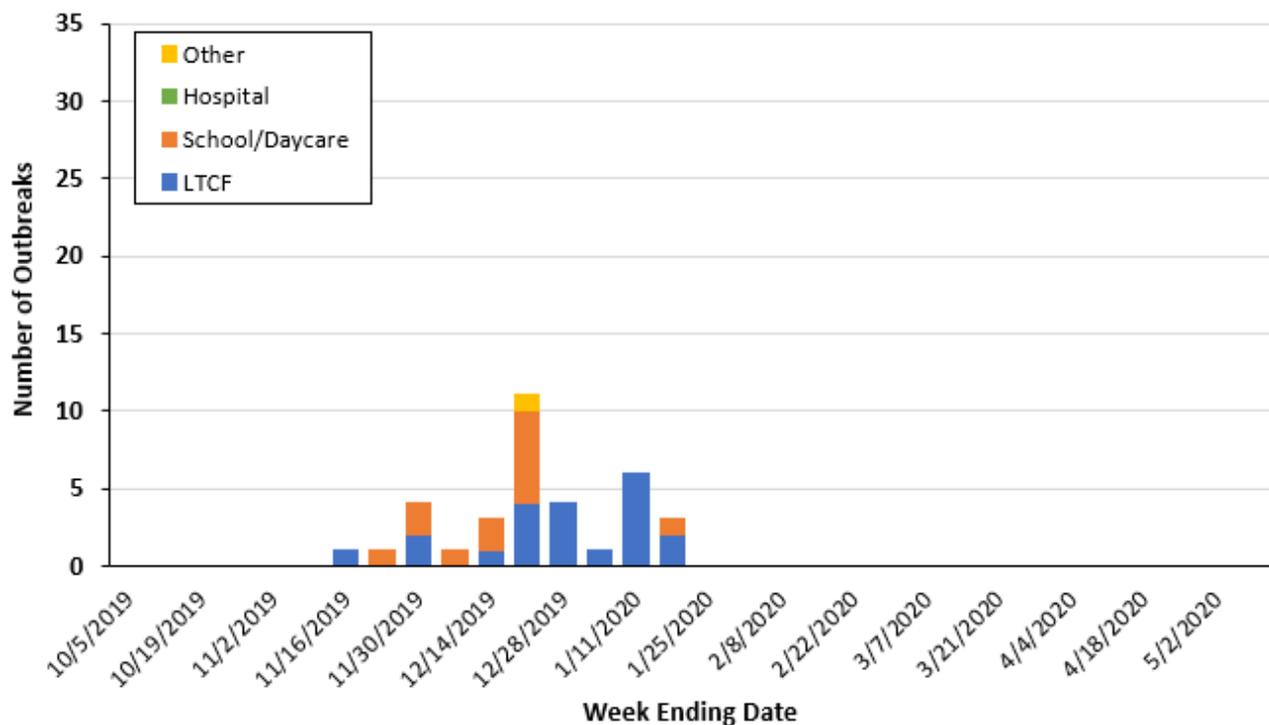
Hospitalizations: In Clackamas, Multnomah, and Washington counties 36 influenza-associated hospitalizations were reported during week 3 of 2020. In total, there have been 357 hospitalizations; 115 (32.2%) were positive for flu A and 242 (67.8%) were positive for flu B. Of the 15 flu A specimens that have been subtyped, 11 (73.3%) were 2009 H1N1 and 4 (26.7%) were flu A H3. All 22 flu B specimens that were differentiated were Victoria lineage.

Figure 3. Portland Metro Area Influenza-Associated Hospitalizations by Week and Age Group, 2019-2020 Season



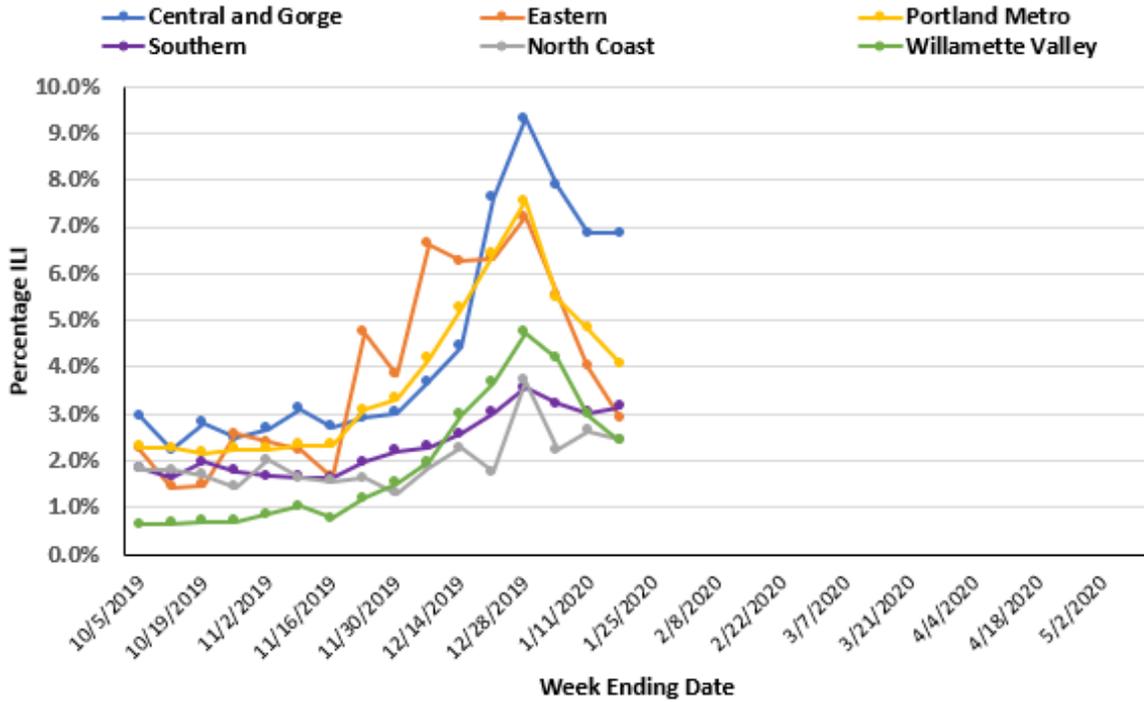
Influenza Outbreaks: There were 3 influenza outbreaks reported during Week 3, 2020. There have been a total of 35 influenza outbreaks reported to the Oregon Health Authority in the 2019—2020 flu season, 21 occurred in a long-term care facility, 13 occurred in a school, and 1 occurred in another setting.

Figure 4. Number of Influenza Outbreaks in Oregon by Setting, 2019-2020 Season



Outpatient Influenza-like Illness Surveillance: Oregon’s outpatient influenza-like illness (ILI) surveillance comprises 17 voluntary reporting outpatient providers, 64 emergency departments and urgent care clinics reporting to ESSENCE, and 186 OCHIN clinics from across Oregon. The percent of outpatients seen with ILI across the state during week 3 of 2020 was 4.2%. Regionally, the percent was highest in the Central and Gorge region (6.9%) and lowest in the North coast and Willamette Valley (2.4%).

Figure 5. Percentage of Visits for ILI at Outpatient Clinics & Emergency Departments, by Oregon Region, 2019-2020



Immunizations data: Weekly influenza immunization reporting is based on ALERT Immunization Information System (ALERT IIS) data through epi week 3 of 2020 (January 18th). Immunization patterns continue to closely match to last season’s patterns at this time of year. As a caveat, while most immunizations are reported quickly and electronically to ALERT IIS, some reporting is delayed- current weekly totals will be adjusted upward later.

Figure 6. 2019-2020 Oregon Flu Vaccine Doses in ALERT IIS by Epi Week

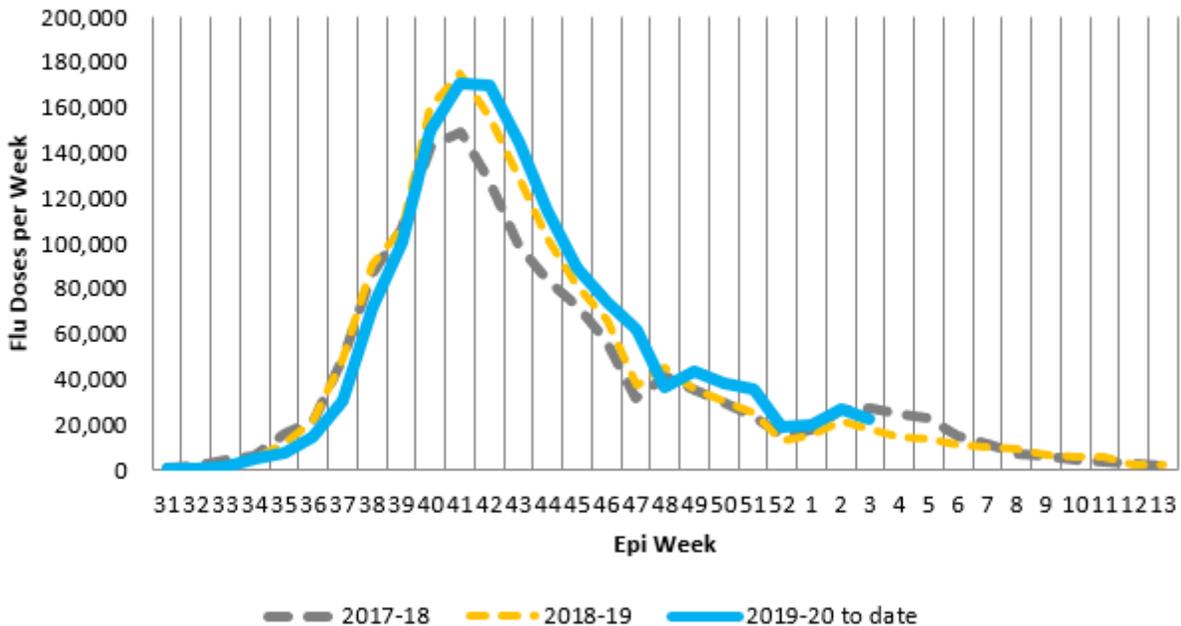
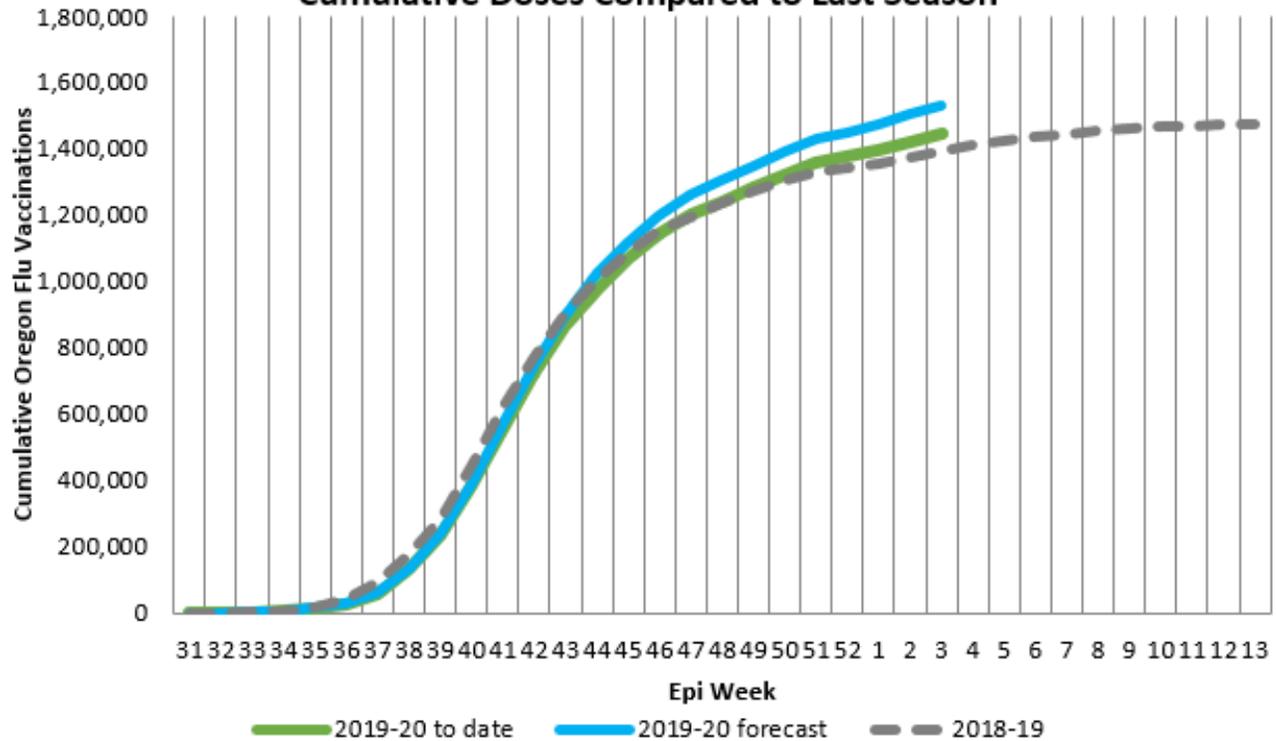
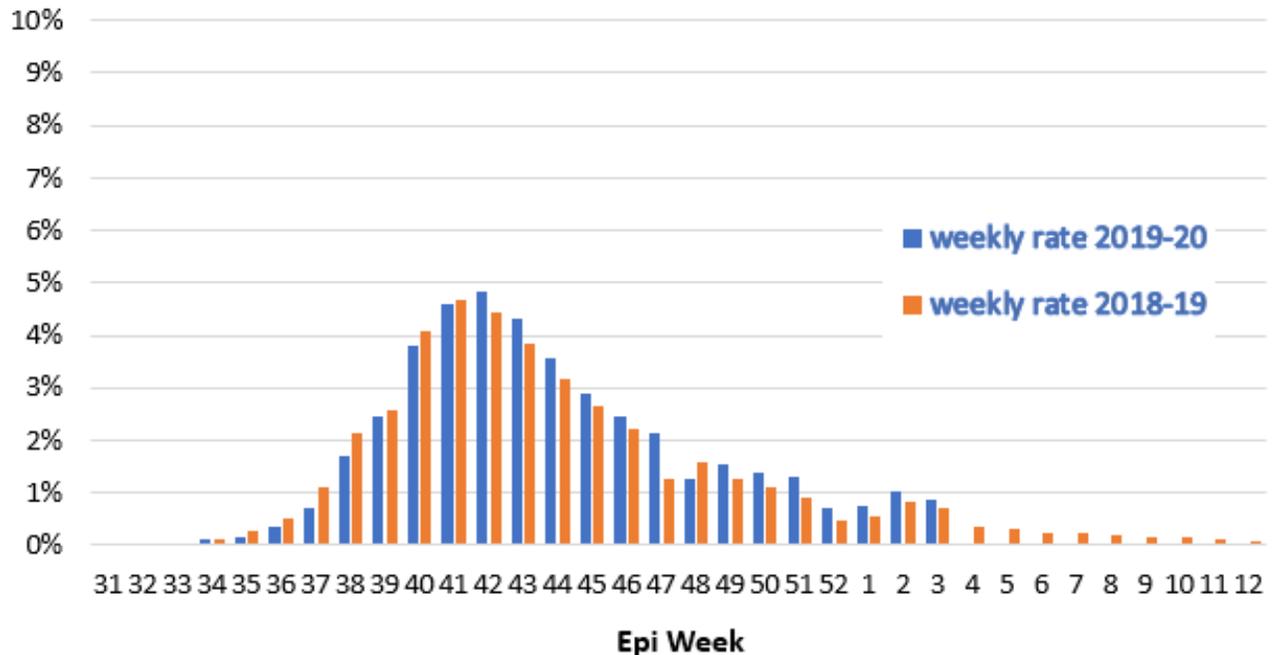


Figure 7. 2019-2020 Flu Vaccination in ALERT IIS by Epi Week, Cumulative Doses Compared to Last Season



Immunizations data (continued): This week, we are also including a classic epidemiological graph of rates of influenza immunizations per week compared to last season.

Figure 8. Weekly Influenza Immunization Rate Among Not Yet Immunized Oregonians, 2019-20 Compared to 2018-19 by Epi Week



US Data (from CDC FluView): Key indicators that track flu activity remain high and, after falling during the first two weeks of the year, increased slightly this week. Indicators that track severity (hospitalizations and deaths) are not high at this point in the season.

Viruses

- **Clinical Lab:** The percentage of respiratory specimens testing positive for influenza at clinical laboratories increased from 23.4% last week to 25.6% this week.
- **Public Health Lab:** Nationally, B/Victoria viruses are the predominant viruses this season; however, during recent weeks, approximately equal numbers of B/Victoria and A(H1N1)pdm09 viruses have been reported.
- **Virus Characterization:** Genetic and antigenic characterization and antiviral susceptibility of influenza viruses collected in the U.S. are summarized in this report.

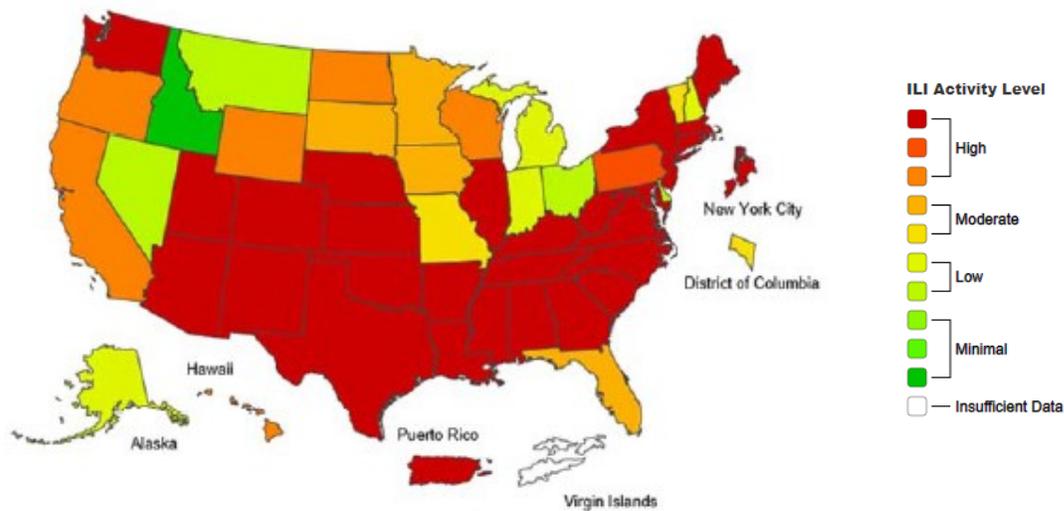
Illness

- **ILINet Outpatient Illness:** Visits to health care providers for influenza-like illness (ILI) increased from 4.7% last week to 5.0% this week. All regions remain above their baselines.
- **ILINet Activity Map:** The number of jurisdictions experiencing high ILI activity increased from 34 last week to 37 this week.
- **Geographic Spread:** The number of jurisdictions reporting regional or widespread influenza activity remained at 50 this week.

Severe Disease

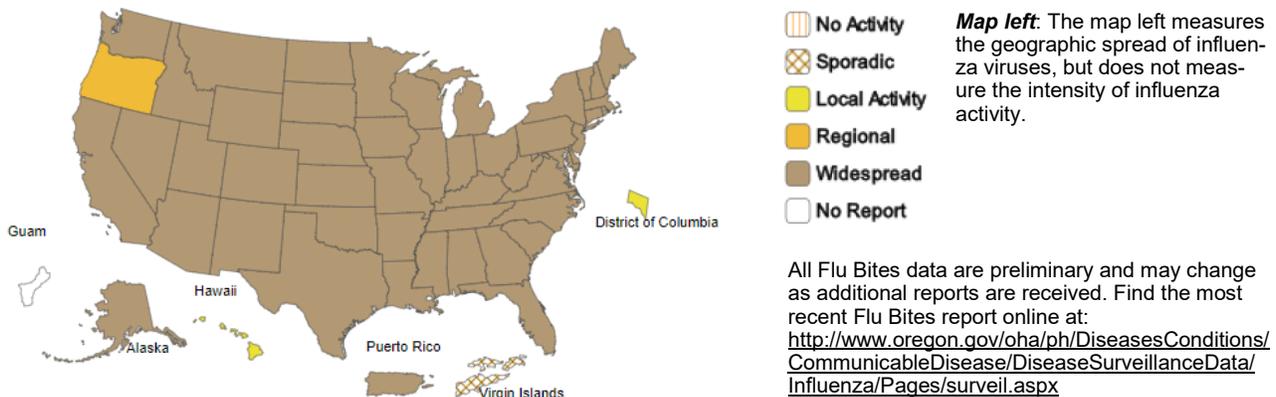
- **Hospitalizations:** The overall hospitalization rate for the season increased to 24.1 per 100,000. This is similar to what has been seen at this time during recent seasons.
- **P&I Mortality:** The percentage of deaths attributed to pneumonia and influenza decreased from 7.1% to 6.7% and is below the epidemic threshold.
- **Pediatric Deaths:** Fifteen new influenza-associated pediatric deaths occurring during the 2019-2020 season were reported this week. The total for the season is 54.

**Influenza-Like Illness (ILI) Activity Level Indicator Determined by Data Reported to ILINet
2019-20 Inﬂuenza Season Week 3 ending Jan 18, 2020**



Map above: This map uses the proportion of outpatient visits to ILINet sentinel providers for influenza-like illness to measure the ILI activity level within a state. It does not, however, measure the extent of geographic spread of flu within a state. Therefore, outbreaks occurring in a single city could cause the state to display high activity levels.

**Weekly Influenza Activity Estimates Reported by State and Territorial Epidemiologists
Week Ending Jan 18, 2020 - Week 3**



Map left: The map left measures the geographic spread of influenza viruses, but does not measure the intensity of influenza activity.

All Flu Bites data are preliminary and may change as additional reports are received. Find the most recent Flu Bites report online at:
<http://www.oregon.gov/oha/ph/DiseasesConditions/CommunicableDisease/DiseaseSurveillanceData/Influenza/Pages/surveil.aspx>

Data at a Glance January 5—January 11, 2020 (Week 02)

	Current Week (02)	Previous Week (01)
Percentage of emergency department visits for ILI ¹	3.8%	5.0%
Percentage positive influenza tests ²	23.1%	26.6%
Influenza-associated hospitalizations ³	30	90
Reported influenza outbreaks	6	1
Influenza-associated pediatric mortality	0	0
Respiratory Syncytial Virus (RSV) activity ⁴	11.5%	12.3%

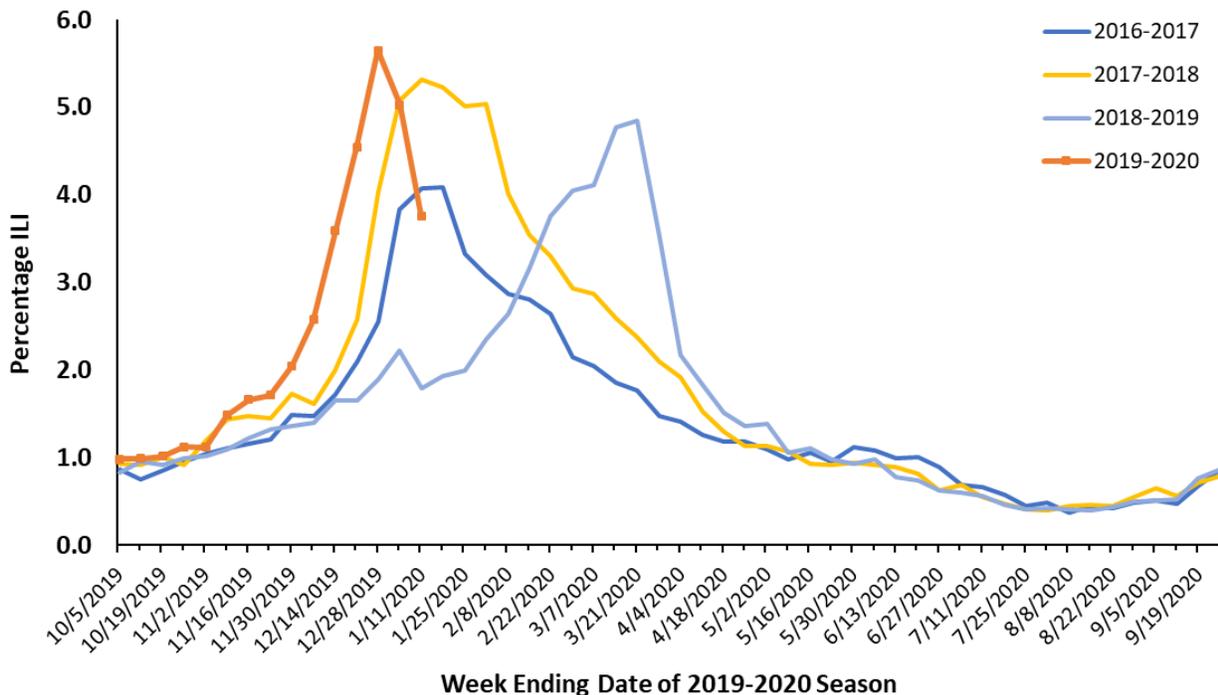
¹Based on Oregon ESSENCE Syndromic Surveillance. Data represent statewide aggregate percent.

²Percent positivity based on data from Oregon reporters to the National Respiratory and Enteric Virus Surveillance System (NREVS)

³Based on hospitalization surveillance in Clackamas, Multnomah, and Washington counties only.

⁴Percent positivity based on data from Oregon's RSV Laboratory Surveillance System.

Figure 1. Percentage of ED Visits for ILI, Oregon ESSENCE Syndromic Surveillance, 2016–2017, 2017–2018, 2018–2019, 2019–2020



Oregon ESSENCE Syndromic Surveillance: Oregon Public Health tracks hospital emergency department (ED) visits throughout the state using the Oregon ESSENCE syndromic surveillance system. ESSENCE categorizes chief complaints into syndrome categories, which include ILI. Figure 1, above, displays percentages for all of Oregon during this flu season compared with the previous three flu seasons. The percent of ED visits for ILI in all of Oregon was 3.8% during week 2, 2020.

Laboratory Surveillance: The National Respiratory and Enteric Virus Surveillance System (NREVSS) is a laboratory-based system that monitors influenza and other respiratory viruses circulating the United States. More information is at CDC's [website](#).

Table 1 shows the tests conducted and results by region for the current week for influenza in specimens tested at the Oregon laboratories reporting to NREVSS. Figure 2 shows that 23.1% of specimens tested at Oregon labs were positive for influenza during week 2, and the bar chart displays the number of influenza-positive tests by flu type and percent positivity.

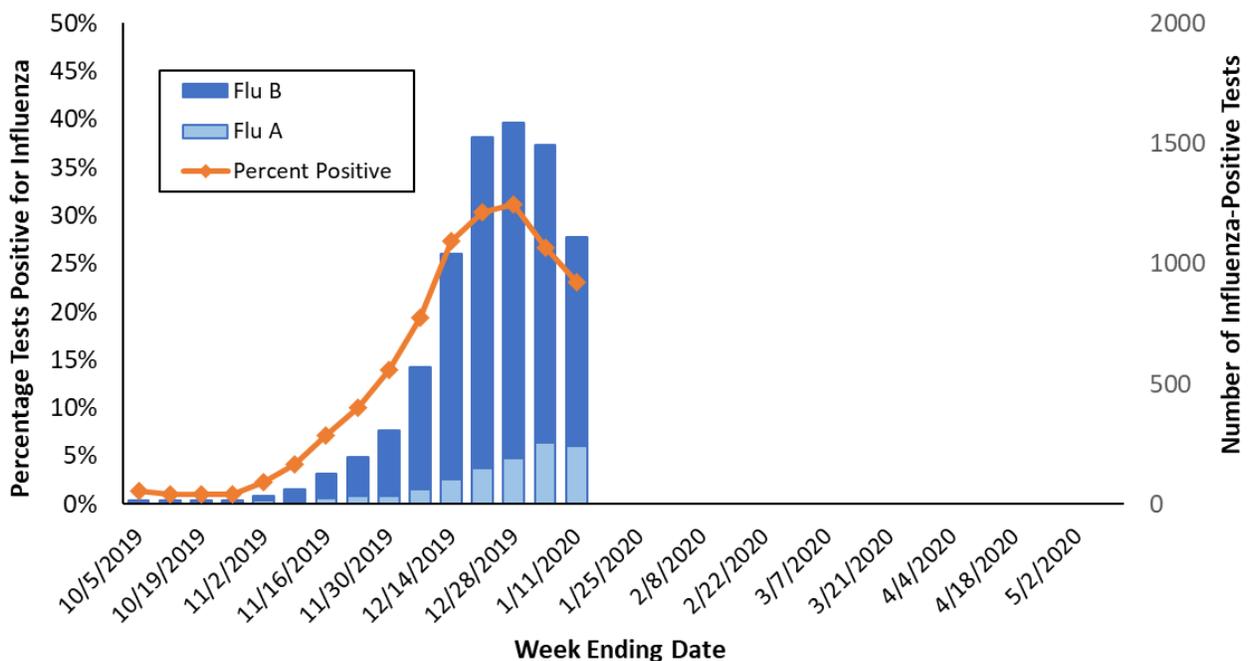
Participation by laboratories is voluntary. Current labs participating in NREVSS in Oregon include:

Legacy Emanuel Hospital and Health Center (Portland, OR), Oregon Health & Science University (Portland, OR), Providence Health (Oregon), Kaiser Permanente (Oregon), Veteran's Administration Hospital (Portland, OR), Adventist Health (Portland, OR), Bay Area Hospital (Coos Bay, OR), Curry Health Network (Brookings, OR), Mercy Medical Center (Roseburg, OR), Sky Lakes Medical Center (Klamath Falls, OR), Lake Health District, (Lakeview, OR), Rogue Valley Medical Center (SW Oregon), Good Shepherd Medical Center (Hermiston, OR), Grande Ronde Hospital, (La Grande, OR), Mid-Columbia Medical Center (The Dalles, OR), Central Oregon Pediatric Associates (Central Oregon), Harney District Hospital (Burns, OR), St. Charles (Bend, OR), Samaritan Health Services (Lebanon, OR), Columbia Memorial Hospital (Astoria, OR), PeaceHealth Southwest Medical Center (Vancouver, WA), Salem Hospital (Salem, OR), Willamette Valley Medical Center (McMinnville, OR).

Table 1. Influenza Test Results in Oregon by Region, NREVSS, Current Week, 2019–2020 Season

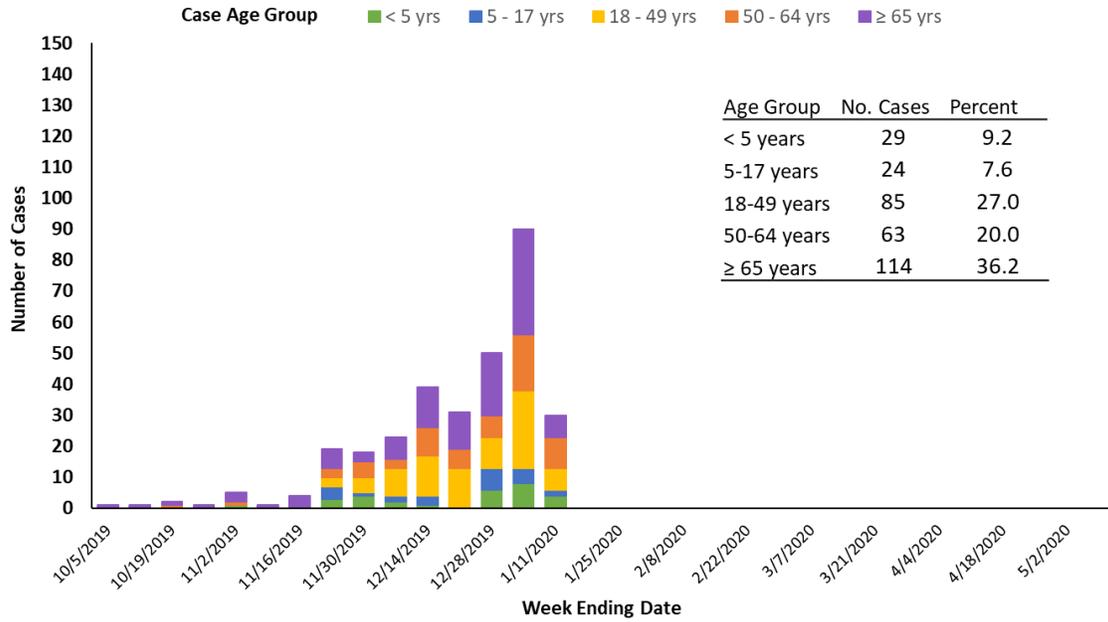
Region	Total Tests	Positive		Flu A		Flu B	
		No.	(%)	No.	(%)	No.	(%)
Portland Metro	2608	560	21.5%	136	24.3%	424	75.7%
Southern Oregon	839	158	18.8%	30	19.0%	128	81.0%
Columbia Gorge	304	75	24.7%	9	12.0%	66	88.0%
Central Oregon	495	135	27.3%	40	29.6%	95	70.4%
Willamette Valley	567	184	32.5%	25	13.6%	159	86.4%
State Total	4813	1112	23.1%	240	21.6%	872	78.4%

**Figure 2. Oregon Influenza Laboratory Surveillance
Percent Positive Influenza Tests by Week, NREVSS, 2019-2020 Season**



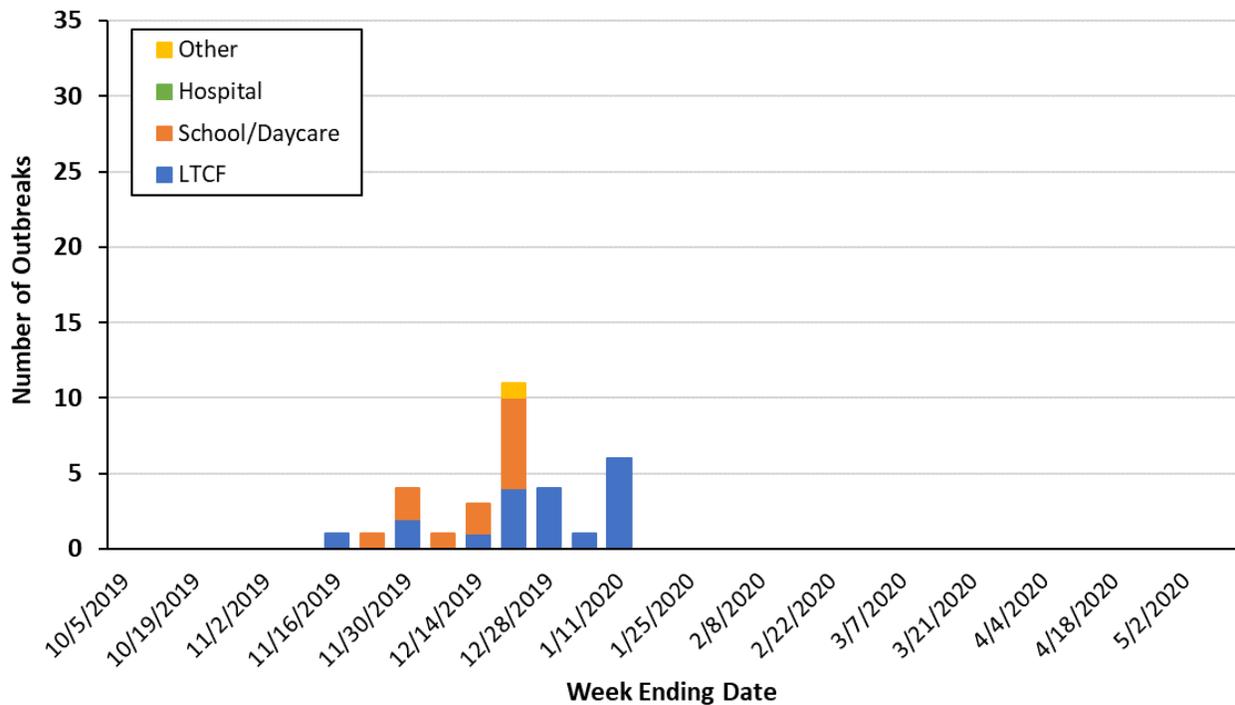
Hospitalizations: In Clackamas, Multnomah, and Washington counties 30 influenza-associated hospitalizations were reported during week 2 of 2020. In total, there have been 315 hospitalizations; 93 (30.5%) were positive for flu A and 212 (69.5%) were positive for flu B. Of the 12 flu A specimens that have been subtyped, 8 (66.7%) were 2009 H1N1 and 4 (33.3%) were flu A H3. All 22 flu B specimens that were differentiated were Victoria lineage.

Figure 3. Portland Metro Area Influenza-Associated Hospitalizations by Week and Age Group, 2019-2020 Season



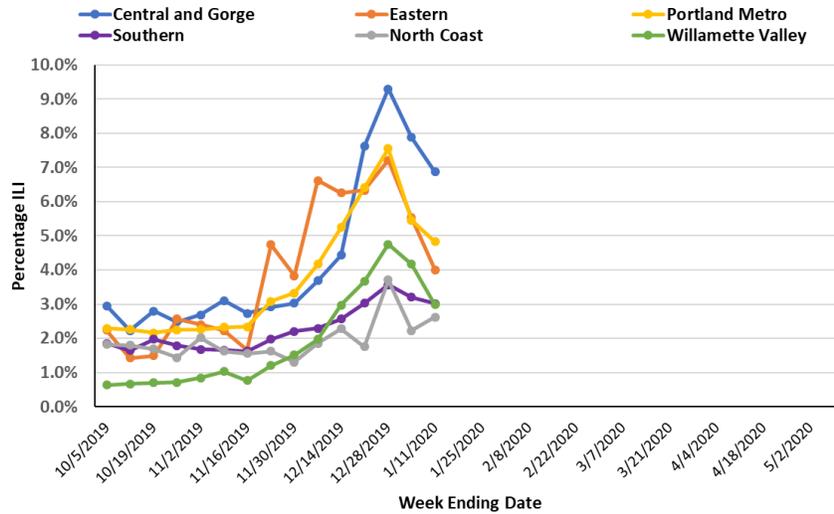
Influenza Outbreaks: There were 6 influenza outbreaks reported during Week 2, 2020. There have been a total of 32 influenza outbreaks reported to the Oregon Health Authority in the 2019—2020 flu season, 19 occurred in a long-term care facility, 12 occurred in a school, and 1 occurred in another setting.

Figure 4. Number of Influenza Outbreaks in Oregon by Setting, 2019-2020 Season



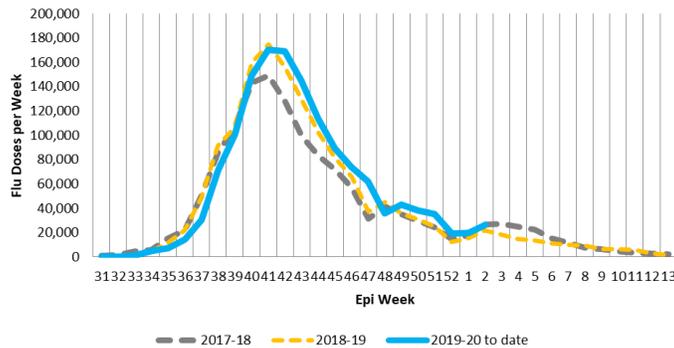
Outpatient Influenza-like Illness Surveillance: Oregon’s outpatient influenza-like illness (ILI) surveillance comprises 17 voluntary reporting outpatient providers, 64 emergency departments and urgent care clinics reporting to ESSENCE, and 186 OCHIN clinics from across Oregon. The percent of outpatients seen with ILI across the state during week 2 of 2020 was 4.2%. Regionally, the percent was highest in the Central and Gorge region (6.9%) and lowest in the North coast (2.6%).

Figure 5. Percentage of Visits for ILI at Outpatient Clinics & Emergency Departments, by Oregon Region, 2019-2020

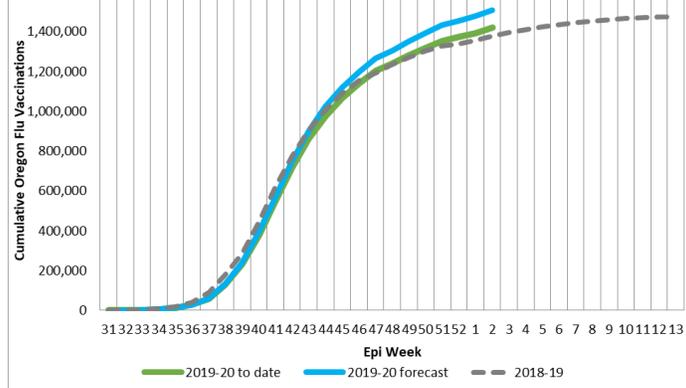


Vaccination Information: Weekly influenza immunization reporting is based on ALERT Immunization Information System (ALERT IIS) data through Epiweek 2 of 2020 (January 11th). Currently we are seeing a January uptick in immunizations, in line with prior seasons. As a caveat, while most immunizations are reported quickly and electronically to ALERT IIS, some reporting is delayed- current weekly totals will be adjusted upward later.

2019/2020 Oregon Flu Vaccine Doses in ALERT IIS by Epiweek



2019/2020 Flu Vaccination in ALERT IIS by Epiweek, Cumulative Doses Compared to Last Season



Data at a Glance December 29, 2019—January 4, 2020 (Week 1)

	Current Week (1)	Previous Week (52)
Percentage of emergency department visits for ILI ¹	5.0%	5.7%
Percentage positive influenza tests ²	26.6%	31.2%
Influenza-associated hospitalizations ³	84	44
Reported influenza outbreaks	1	4
Influenza-associated pediatric mortality	0	0
Respiratory Syncytial Virus (RSV) activity ⁴	12.3%	11.1%

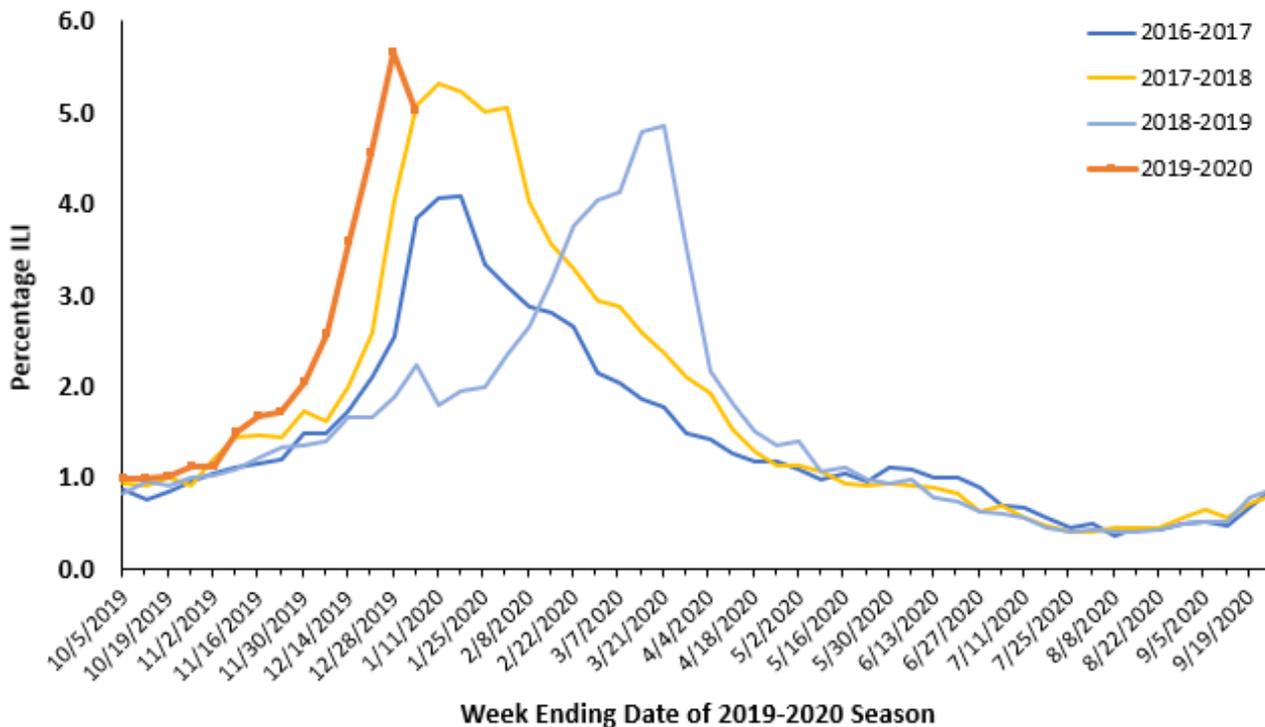
¹Based on Oregon ESSENCE Syndromic Surveillance. Data represent statewide aggregate percent.

²Percent positivity based on data from Oregon reporters to the National Respiratory and Enteric Virus Surveillance System (NREVSS)

³Based on hospitalization surveillance in Clackamas, Multnomah, and Washington counties only.

⁴Percent positivity based on data from Oregon's RSV Laboratory Surveillance System.

Figure 1. Percentage of ED Visits for ILI, Oregon ESSENCE Syndromic Surveillance, 2016–2017, 2017–2018, 2018–2019, 2019–2020



Oregon ESSENCE Syndromic Surveillance: Oregon Public Health tracks hospital emergency department (ED) visits throughout the state using the Oregon ESSENCE syndromic surveillance system. ESSENCE categorizes chief complaints into syndrome categories, which include ILI. Figure 1, above, displays percentages for all of Oregon during this flu season compared with the previous three flu seasons. The percent of ED visits for ILI in all of Oregon was 5.0% during week 1, 2020.

Laboratory Surveillance: The National Respiratory and Enteric Virus Surveillance System (NREVSS) is a laboratory-based system that monitors influenza and other respiratory viruses circulating the United States. More information is at CDC’s [website](#).

Table 1 shows the tests conducted and results by region for the current week for influenza in specimens tested at the Oregon laboratories reporting to NREVSS. Figure 2 shows that 26.6% of specimens tested at Oregon labs were positive for influenza during week 1, and the bar chart displays the number of influenza-positive tests by flu type and percent positivity.

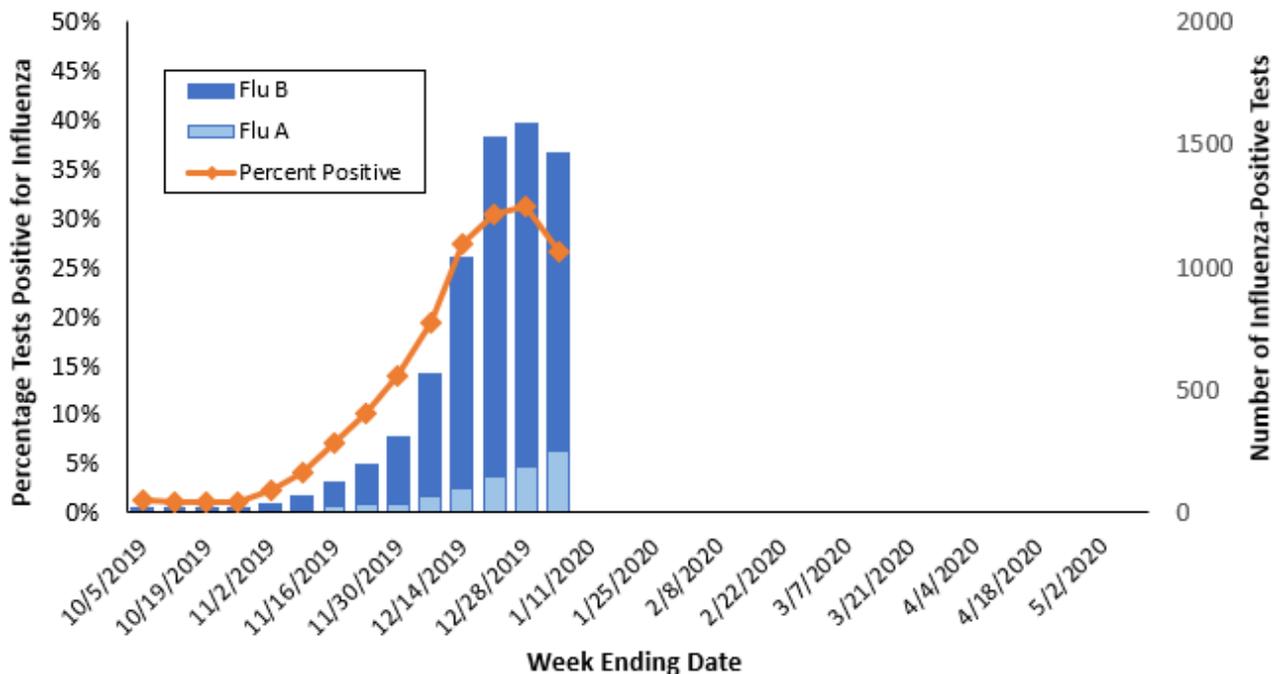
Participation by laboratories is voluntary. Current labs participating in NREVSS in Oregon include:

Legacy Emanuel Hospital and Health Center (Portland, OR), Oregon Health & Science University (Portland, OR), Providence Health (Oregon), Kaiser Permanente (Oregon), Veteran’s Administration Hospital (Portland, OR), Adventist Health (Portland, OR), Bay Area Hospital (Coos Bay, OR), Curry Health Network (Brookings, OR), Mercy Medical Center (Roseburg, OR), Sky Lakes Medical Center (Klamath Falls, OR), Lake Health District, (Lakeview, OR), Rogue Valley Medical Center (SW Oregon), Good Shepherd Medical Center (Hermiston, OR), Grande Ronde Hospital, (La Grande, OR), Mid-Columbia Medical Center (The Dalles, OR), Central Oregon Pediatric Associates (Central Oregon), Harney District Hospital (Burns, OR), St. Charles (Bend, OR), Samaritan Health Services (Lebanon, OR), Columbia Memorial Hospital (Astoria, OR), PeaceHealth Southwest Medical Center (Vancouver, WA), Salem Hospital (Salem, OR), Willamette Valley Medical Center (McMinnville, OR).

Table 1. Influenza Test Results in Oregon by Region, NREVSS, Current Week, 2019–2020 Season

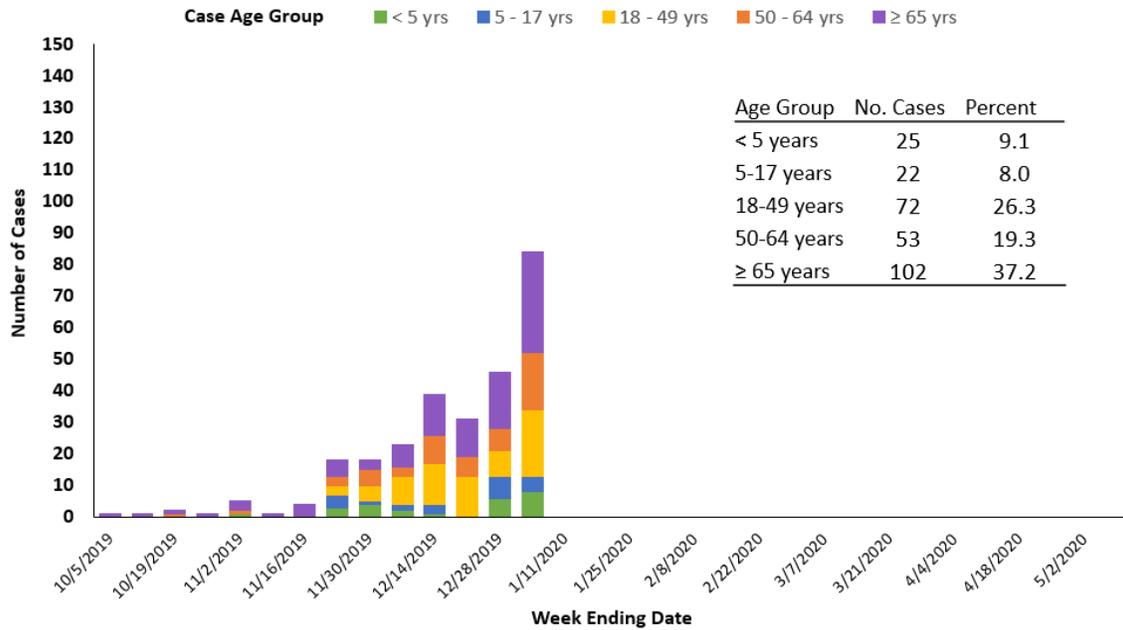
Region	Total Tests	Positive		Flu A		Flu B	
		No.	(%)	No.	(%)	No.	(%)
Portland Metro	3121	832	26.7%	146	17.5%	686	82.5%
Southern Oregon	882	220	24.9%	38	17.3%	182	82.7%
Columbia Gorge	171	63	36.8%	14	22.2%	49	77.8%
Central Oregon	567	138	24.3%	35	25.4%	103	74.6%
Willamette Valley	754	208	27.6%	20	9.6%	188	90.4%
State Total	5495	1461	26.6%	253	17.3%	1208	82.7%

**Figure 2. Oregon Influenza Laboratory Surveillance
Percent Positive Influenza Tests by Week, NREVSS, 2019-2020 Season**



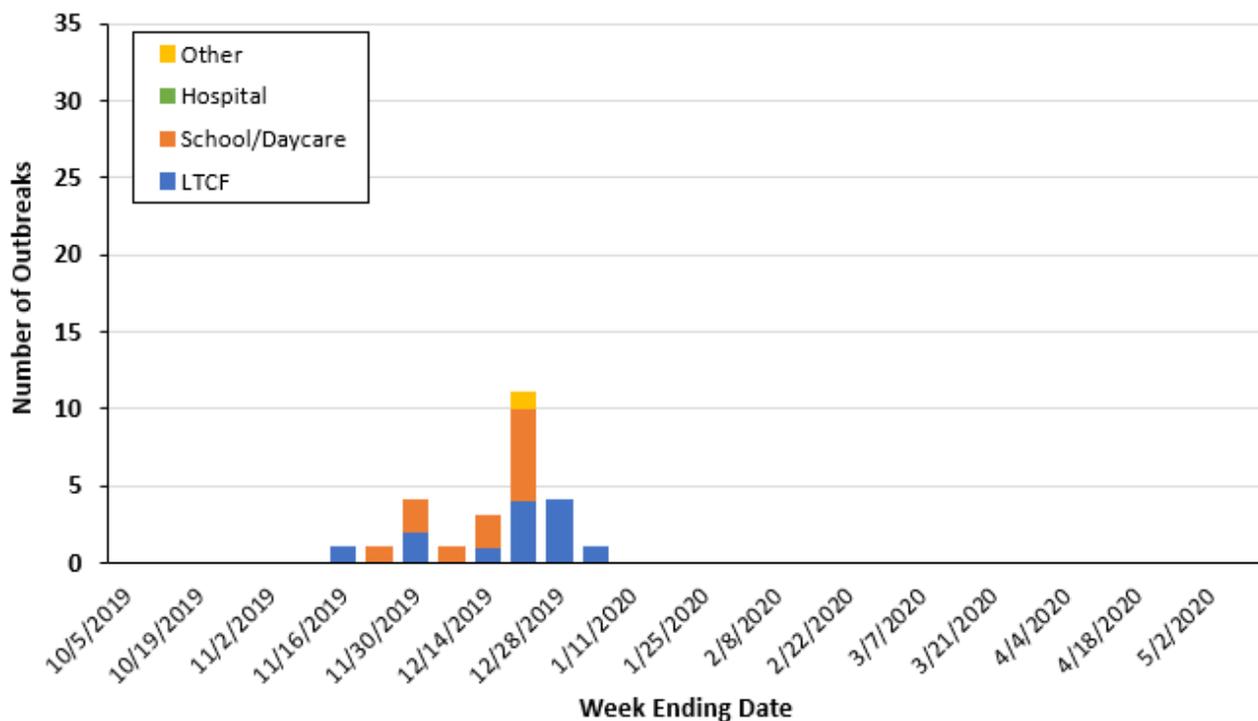
Hospitalizations: In Clackamas, Multnomah, and Washington counties 84 influenza-associated hospitalizations were reported during week 1 of 2020. In total, there have been 274 hospitalizations; 84 (30.7%) were positive for flu A and 190 (69.3%) were positive for flu B. Of the 7 flu A specimens that have been subtyped, 4 (57.1%) were 2009 H1N1 and 3 (42.9%) were flu A H3. All 21 flu B specimens that were differentiated were Victoria lineage.

Figure 3. Portland Metro Area Influenza-Associated Hospitalizations by Week and Age Group, 2019-2020 Season



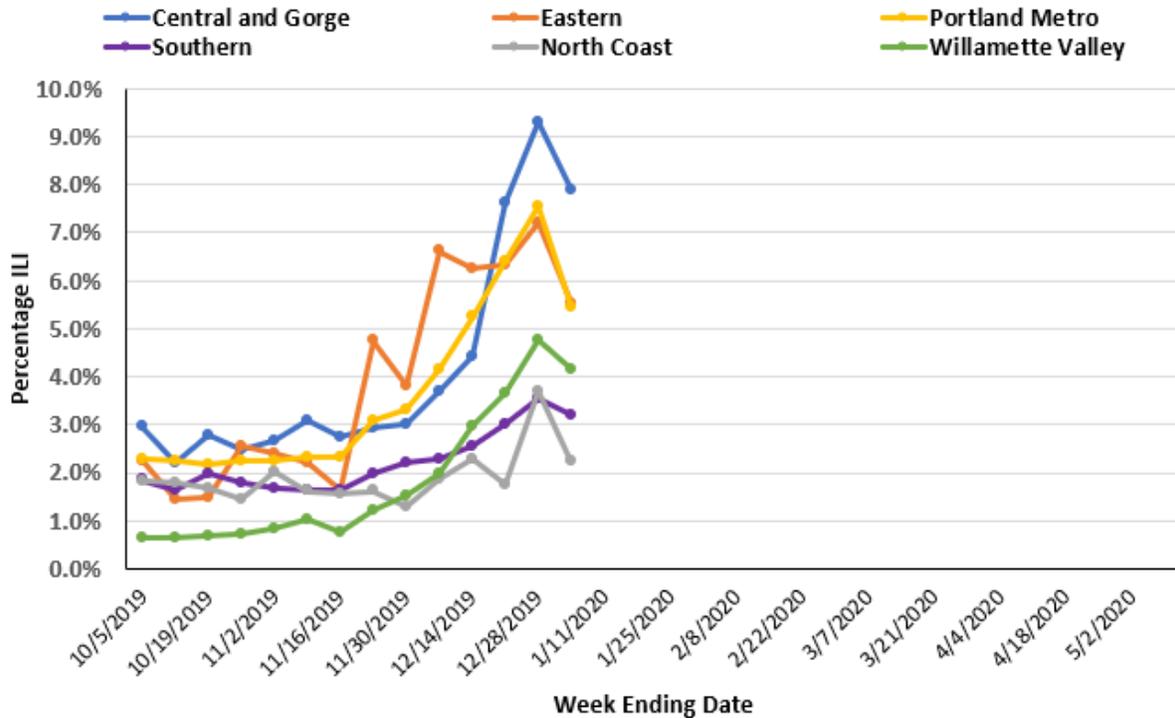
Influenza Outbreaks: There was 1 influenza outbreak reported during Week 1, 2020. There have been a total of 26 influenza outbreaks reported to the Oregon Health Authority in the 2019—2020 flu season, 13 occurred in a long-term care facility, 12 occurred in a school, and 1 occurred in another setting.

Figure 4. Number of Influenza Outbreaks in Oregon by Setting, 2019-2020 Season



Outpatient Influenza-like Illness Surveillance: Oregon’s outpatient influenza-like illness (ILI) surveillance comprises 17 voluntary reporting outpatient providers, 64 emergency departments and urgent care clinics reporting to ESSENCE, and 186 OCHIN clinics from across Oregon. The percent of outpatients seen with ILI across the state during week 1 of 2020 was 4.9%. Regionally, the percent was highest in the Central and Gorge region (7.9%) and lowest in the North Coast region (2.2%).

Figure 5. Percentage of Visits for ILI at Outpatient Clinics & Emergency Departments, by Oregon Region, 2019-2020



Vaccination Information: Weekly influenza immunization reporting is based on ALERT Immunization Information System (ALERT IIS) data through epi week 1 of 2020 (January 4th). As a caveat, while most immunizations are reported quickly and electronically to ALERT IIS, some reporting is delayed; current weekly totals will be adjusted upward later.

Figure 6. 2019-2020 Oregon Flu Vaccine Doses in ALERT IIS by Epi Week

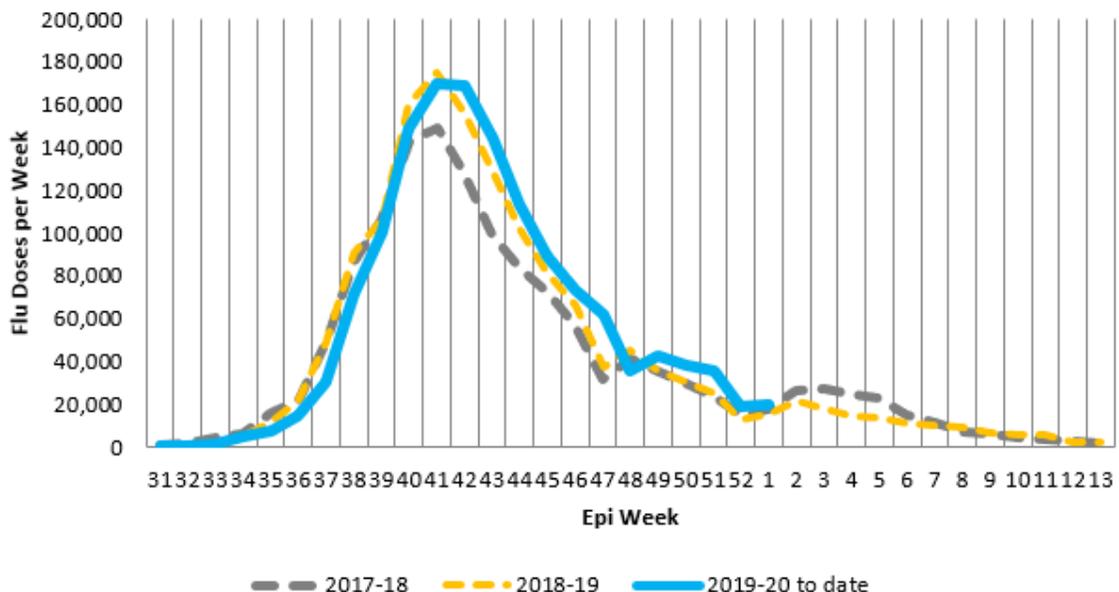
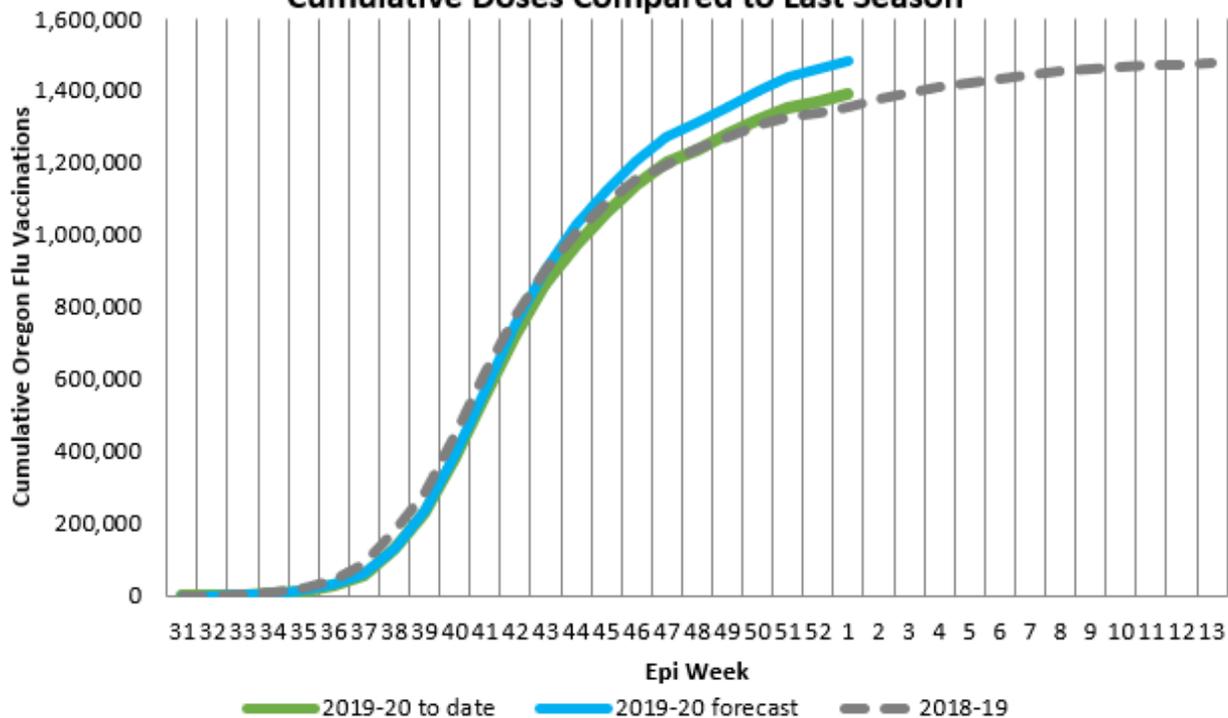
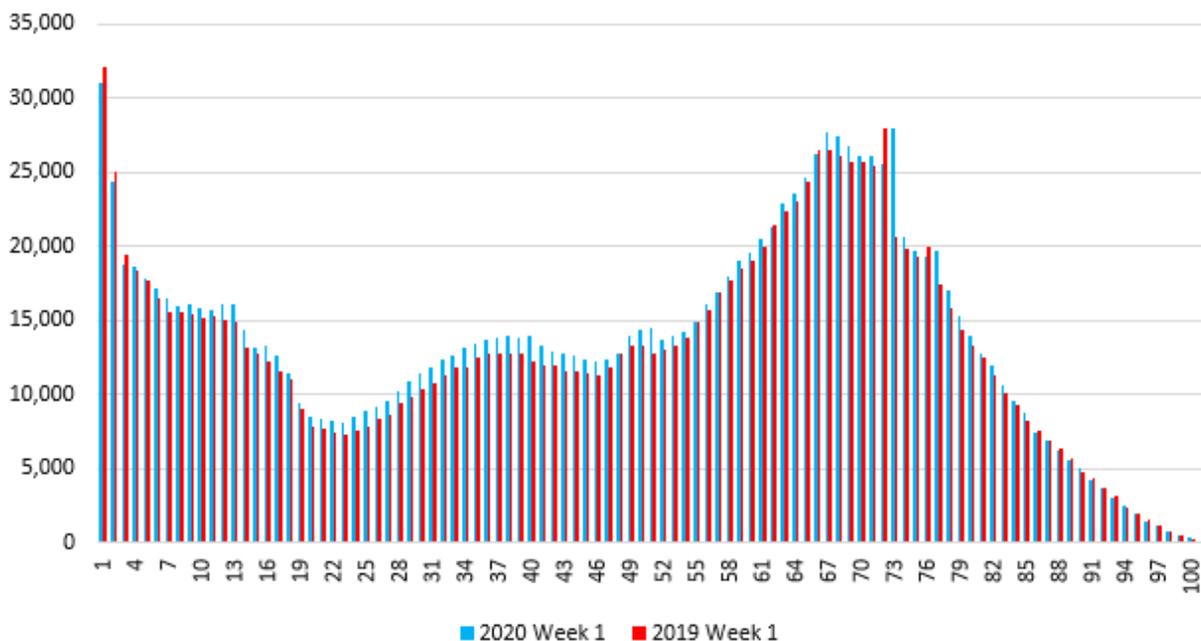


Figure 7. 2019-2020 Flu Vaccination in ALERT IIS by Epi Week, Cumulative Doses Compared to Last Season



Vaccination Information (continued): For this week, we are including a comparison by age of influenza immunizations given this season compared to what was reported last season at this time (Figure 8). Overall, there is a slight drop in early childhood influenza immunizations, a moderate increase in older child and adolescent influenza immunizations, and an increase in non-senior adult influenza immunizations.

Figure 8. Influenza Immunizations by Year of Age Reported to ALERT IIS through Week 1 of 2020 Compared to Week 1 of 2019



US Data (from CDC FluView): Key indicators that track flu activity remain high, but indicators that track severity (hospitalizations and deaths) are not high at this point in the season.

Viruses

- **Clinical Lab:** The percentage of respiratory specimens testing positive for influenza at clinical laboratories decreased from 26.4% last week to 23.3% this week.
- **Public Health Lab:** Nationally, B/Victoria viruses are most common followed by A(H1N1)pdm09 viruses. The predominant virus varies by region and age group. There is low circulation of A(H3N2) and B/Yamagata viruses.
- **Virus Characterization:** Genetic and antigenic characterization and antiviral susceptibility of influenza viruses collected in the U.S. this season is summarized in this report.

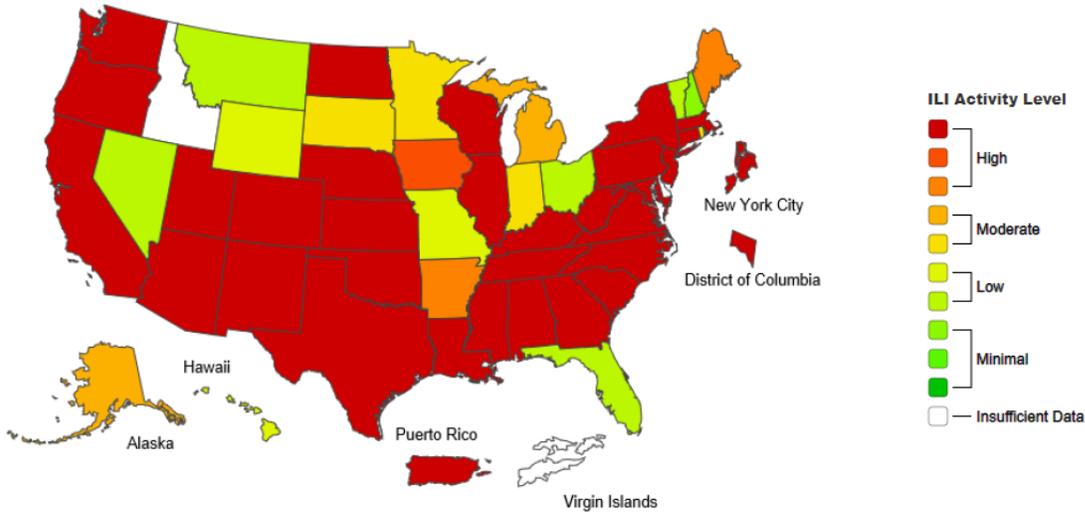
Illness

- **ILINet Outpatient Illness:** Visits to health care providers for influenza-like illness (ILI) decreased from 7.0% last week to 5.8% this week. All regions remain above their baselines.
- **ILINet Activity Map:** The number of jurisdictions experiencing high ILI activity decreased from 37 last week to 36 this week.
- **Geographic Spread:** The number of jurisdictions reporting regional or widespread influenza activity increased to 50 this week compared to 48 last week.

Severe Disease

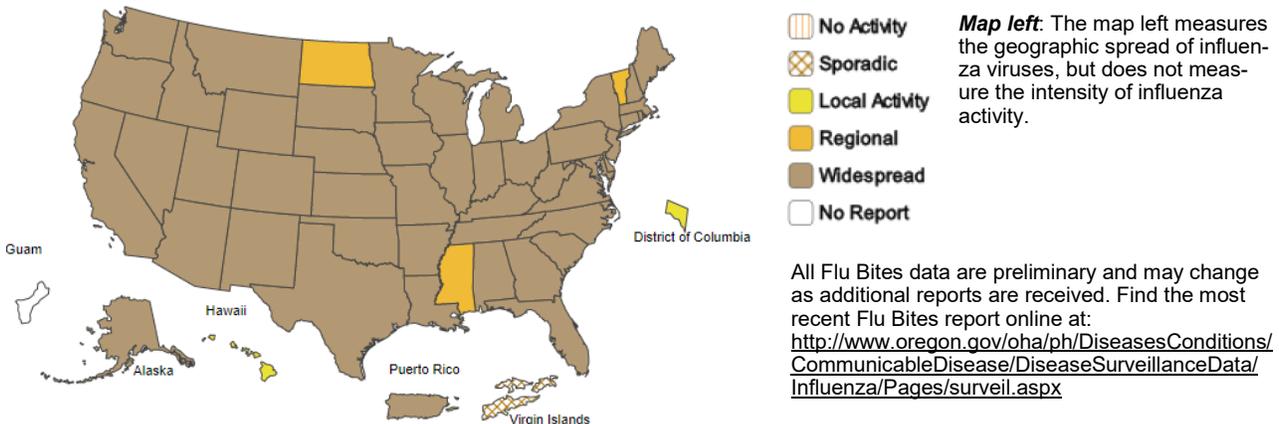
- **Hospitalizations:** The overall hospitalization rate for the season increased to 14.6 per 100,000. This is similar to what has been seen at this time during recent seasons.
- **P&I Mortality:** The percentage of deaths attributed to pneumonia and influenza is 5.8% which is below the epidemic threshold.
- **Pediatric Deaths:** Five new influenza-associated pediatric deaths occurring during the 2019-2020 season were reported this week. The total for the season is 32.

**Influenza-Like Illness (ILI) Activity Level Indicator Determined by Data Reported to ILINet
2019-20 Influenza Season Week 1 ending Jan 04, 2020**



Map above: This map uses the proportion of outpatient visits to ILINet sentinel providers for influenza-like illness to measure the ILI activity level within a state. It does not, however, measure the extent of geographic spread of flu within a state. Therefore, outbreaks occurring in a single city could cause the state to display high activity levels.

**Weekly Influenza Activity Estimates Reported by State and Territorial Epidemiologists
Week Ending Jan 04, 2020 - Week 1**



Map left: The map left measures the geographic spread of influenza viruses, but does not measure the intensity of influenza activity.

All Flu Bites data are preliminary and may change as additional reports are received. Find the most recent Flu Bites report online at:
<http://www.oregon.gov/oha/ph/DiseasesConditions/CommunicableDisease/DiseaseSurveillanceData/Influenza/Pages/surveil.aspx>

Data at a Glance December 22—December 28, 2019 (Week 52)

	Current Week (52)	Previous Week (51)
Percentage of emergency department visits for ILI ¹	5.7%	4.5%
Percentage positive influenza tests ²	31.2%	30.8%
Influenza-associated hospitalizations ³	44	30
Reported influenza outbreaks	4	11
Influenza-associated pediatric mortality	0	0
Respiratory Syncytial Virus (RSV) activity ⁴	11.1%	8.2%

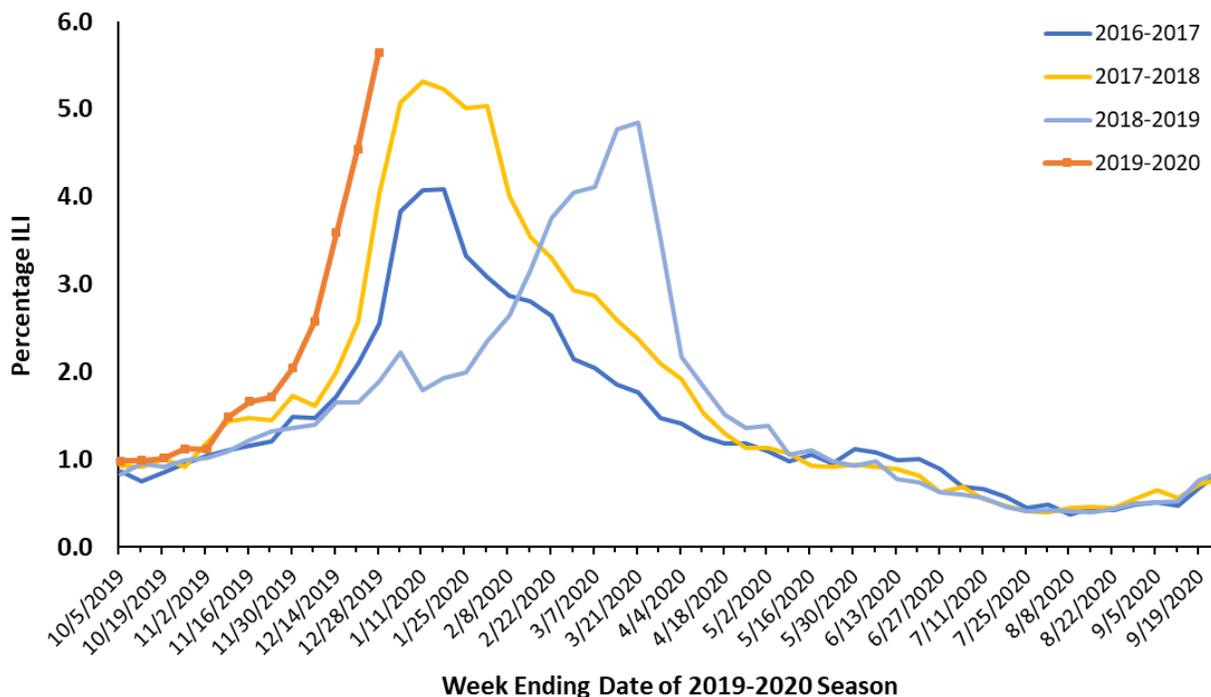
¹Based on Oregon ESSENCE Syndromic Surveillance. Data represent statewide aggregate percent.

²Percent positivity based on data from Oregon reporters to the National Respiratory and Enteric Virus Surveillance System (NREVS)

³Based on hospitalization surveillance in Clackamas, Multnomah, and Washington counties only.

⁴Percent positivity based on data from Oregon's RSV Laboratory Surveillance System.

Figure 1. Percentage of ED Visits for ILI, Oregon ESSENCE Syndromic Surveillance, 2016–2017, 2017–2018, 2018–2019, 2019–2020



Oregon ESSENCE Syndromic Surveillance: Oregon Public Health tracks hospital emergency department (ED) visits throughout the state using the Oregon ESSENCE syndromic surveillance system. ESSENCE categorizes chief complaints into syndrome categories, which include ILI. Figure 1, above, displays percentages for all of Oregon during this flu season compared with the previous three flu seasons. The percent of ED visits for ILI in all of Oregon was 5.7% during week 52, 2019.

Laboratory Surveillance: The National Respiratory and Enteric Virus Surveillance System (NREVSS) is a laboratory-based system that monitors influenza and other respiratory viruses circulating the United States. More information is at CDC’s [website](#).

Table 1 shows the tests conducted and results by region for the current week for influenza in specimens tested at the Oregon laboratories reporting to NREVSS. Figure 2 shows that 31.2% of specimens tested at Oregon labs were positive for influenza during week 52, and the bar chart displays the number of influenza -positive tests by flu type and percent positivity.

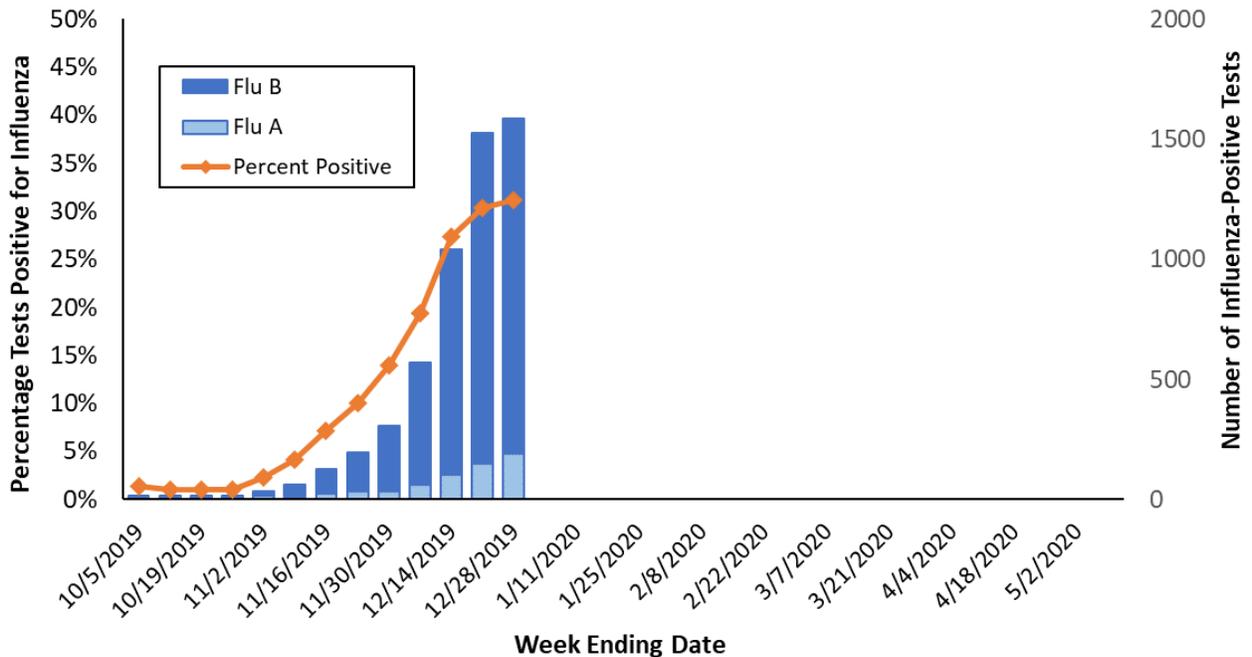
Participation by laboratories is voluntary. Current labs participating in NREVSS in Oregon include:

Legacy Emanuel Hospital and Health Center (Portland, OR), Oregon Health & Science University (Portland, OR), Providence Health (Oregon), Kaiser Permanente (Oregon), Veteran’s Administration Hospital (Portland, OR), Adventist Health (Portland, OR), Bay Area Hospital (Coos Bay, OR), Curry Health Network (Brookings, OR), Mercy Medical Center (Roseburg, OR), Sky Lakes Medical Center (Klamath Falls, OR), Lake Health District, (Lakeview, OR), Rogue Valley Medical Center (SW Oregon), Good Shepherd Medical Center (Hermiston, OR), Grande Ronde Hospital, (La Grande, OR), Mid-Columbia Medical Center (The Dalles, OR), Central Oregon Pediatric Associates (Central Oregon), Harney District Hospital (Burns, OR), St. Charles (Bend, OR), Samaritan Health Services (Lebanon, OR), Columbia Memorial Hospital (Astoria, OR), PeaceHealth Southwest Medical Center (Vancouver, WA), Salem Hospital (Salem, OR), Willamette Valley Medical Center (McMinnville, OR).

Table 1. Influenza Test Results in Oregon by Region, NREVSS, Current Week, 2019–2020 Season

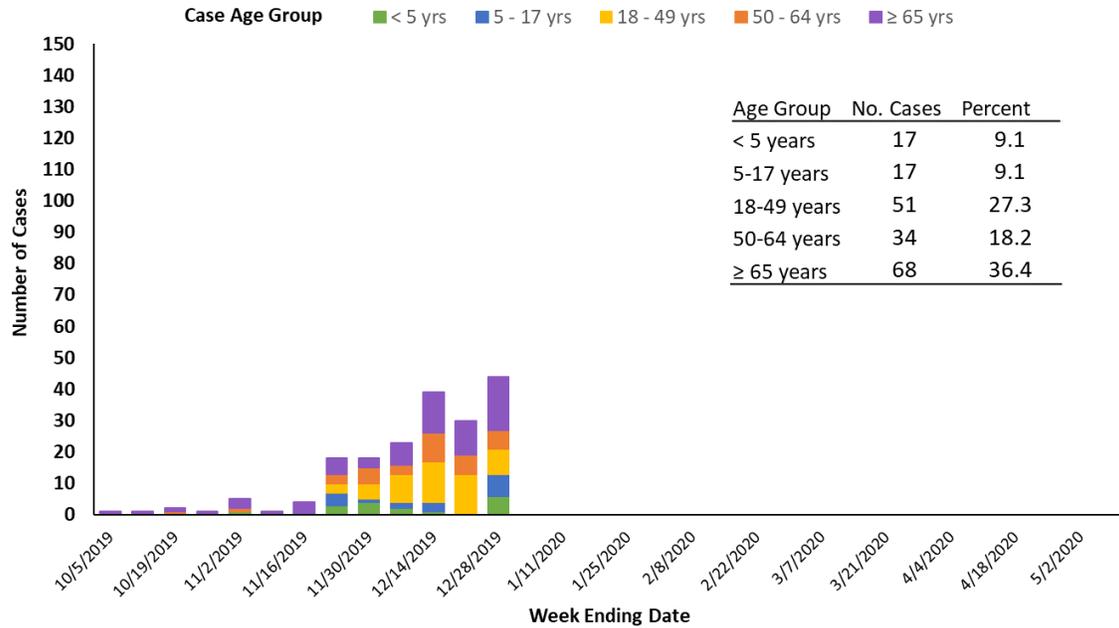
Region	Total Tests	Positive		Flu A		Flu B	
		No.	(%)	No.	(%)	No.	(%)
Portland Metro	2627	825	31.4%	101	12.2%	724	87.8%
Southern Oregon	770	174	22.6%	45	25.9%	129	74.1%
Columbia Gorge	394	158	40.1%	10	0.0%	148	93.7%
Central Oregon	584	186	31.8%	25	13.4%	161	86.6%
Willamette Valley	709	243	34.3%	11	4.5%	232	95.5%
State Total	5084	1586	31.2%	192	12.1%	1394	87.9%

**Figure 2. Oregon Influenza Laboratory Surveillance
Percent Positive Influenza Tests by Week, NREVSS, 2019-2020 Season**



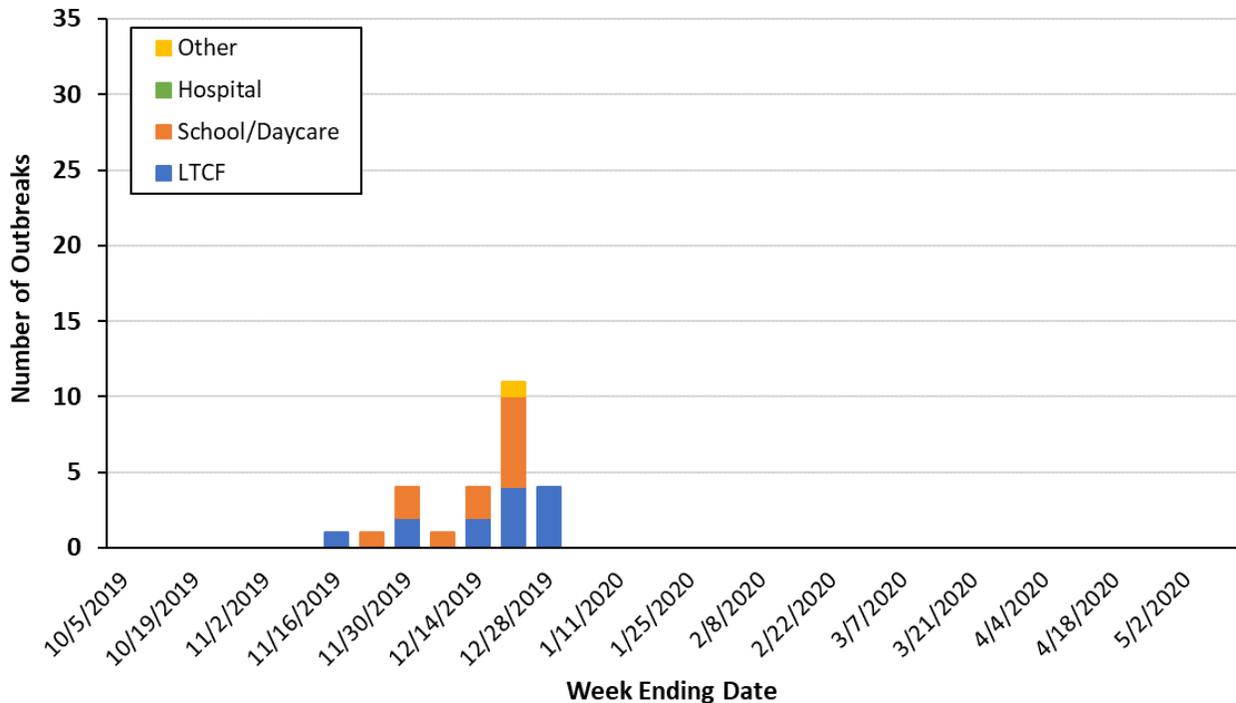
Hospitalizations: In Clackamas, Multnomah, and Washington counties 44 influenza-associated hospitalizations were reported during week 52 of 2019. In total, there have been 187 hospitalizations; 63 (29.2%) were positive for flu A and 153 (70.8%) were positive for flu B. Of the 7 flu A specimens that have been subtyped, 4 (57.1%) were 2009 H1N1 and 3 (42.9%) were flu A H3. All 18 flu B specimens that were differentiated were Victoria lineage.

Figure 3. Portland Metro Area Influenza-Associated Hospitalizations by Week and Age Group, 2019-2020 Season



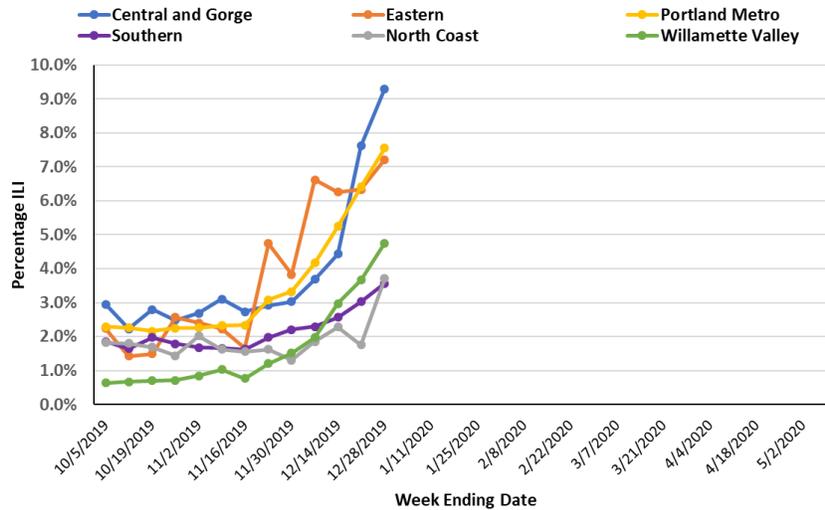
Influenza Outbreaks: There were 4 influenza outbreaks reported during Week 52, 2019. There have been a total of 26 influenza outbreaks reported to the Oregon Health Authority in the 2019—2020 flu season, 13 occurred in a long-term care facility, 12 occurred in a school, and 1 occurred in another setting.

Figure 4. Number of Influenza Outbreaks in Oregon by Setting, 2019-2020 Season



Outpatient Influenza-like Illness Surveillance: Oregon’s outpatient influenza-like illness (ILI) surveillance comprises 17 voluntary reporting outpatient providers, 64 emergency departments and urgent care clinics reporting to ESSENCE, and 186 OCHIN clinics from across Oregon. The percent of outpatients seen with ILI across the state during week 52 of 2019 was 6.4%. Regionally, the percent was highest in the Central and Gorge region (9.3%) and lowest in the Southern region (3.6%).

Figure 5. Percentage of Visits for ILI at Outpatient Clinics & Emergency Departments, by Oregon Region, 2019-2020



Vaccination Information: Weekly influenza immunization reporting is based on ALERT Immunization Information System (ALERT IIS) data through epi week 52 of 2019 (December 28th). To date, 1.5 million Oregonians have received an influenza immunization in this season. As a caveat, while most immunizations are reported quickly and electronically to ALERT IIS, some reporting is delayed- current weekly totals will be adjusted upward later.

Figure 6. 2019-2020 Oregon Flu Vaccine Doses in ALERT IIS by Epi Week

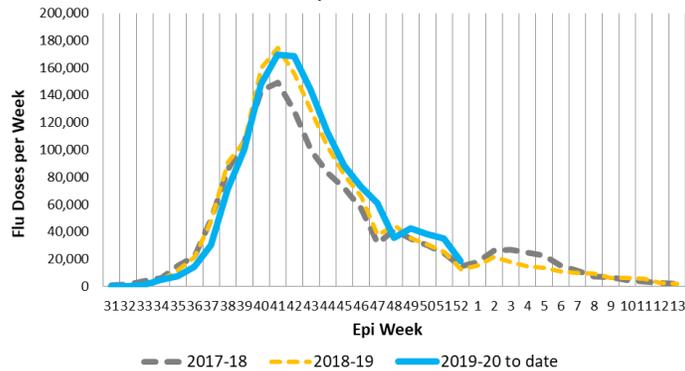
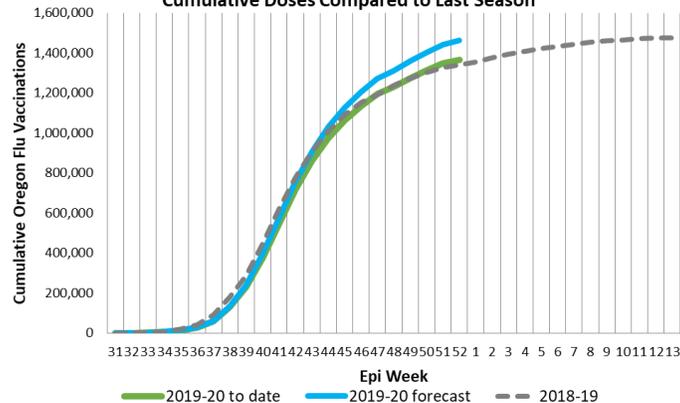


Figure 7. 2019-2020 Flu Vaccination in ALERT IIS by Epiweek, Cumulative Doses Compared to Last Season



US Data (from CDC FluView): Seasonal influenza activity in the United States is high and continues to increase. Activity has been elevated for eight weeks.

Viruses

- **Clinical Lab:** The percentage of respiratory specimens testing positive for influenza at clinical laboratories increased from 23.0% last week to 26.3% this week.
- **Public Health Lab:** Nationally, B/Victoria viruses are most common followed by A(H1N1)pdm09 viruses. The predominant virus varies by region and age group. There is low circulation of A(H3N2) and B/Yamagata viruses.
- **Virus Characterization:** Genetic and antigenic characterization and antiviral susceptibility of influenza viruses collected in the U.S. this season is summarized in this report.

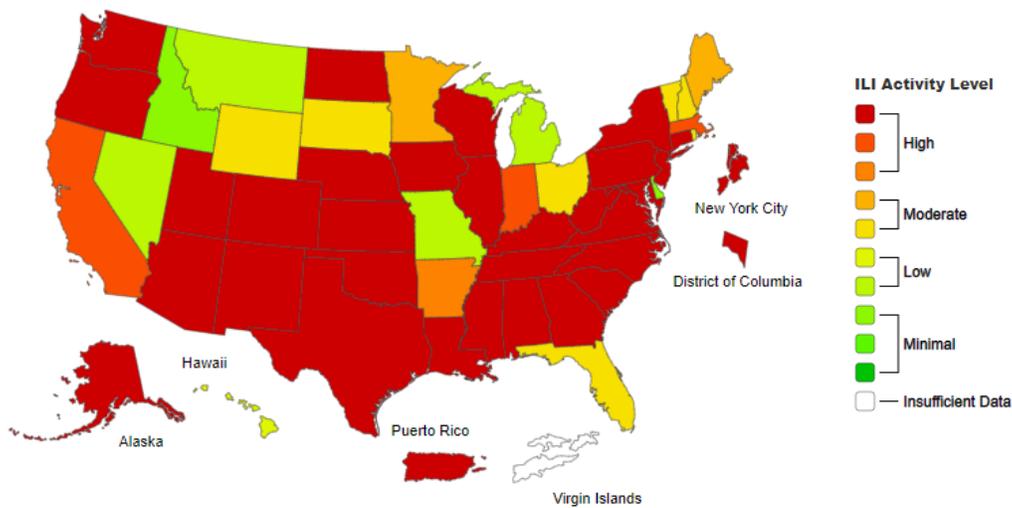
Illness

- **ILINet Outpatient Illness:** Visits to health care providers for influenza-like illness (ILI) increased from 5.1% last week to 6.9% this week. All regions were above their baselines and continuing to increase.
- **ILINet Activity Map:** The number of jurisdictions experiencing high ILI activity increased to 37 this week compared to 28 last week.
- **Geographic Spread:** The number of jurisdictions reporting regional or widespread influenza activity increased to 50 this week compared to 48 last week.

Severe Disease

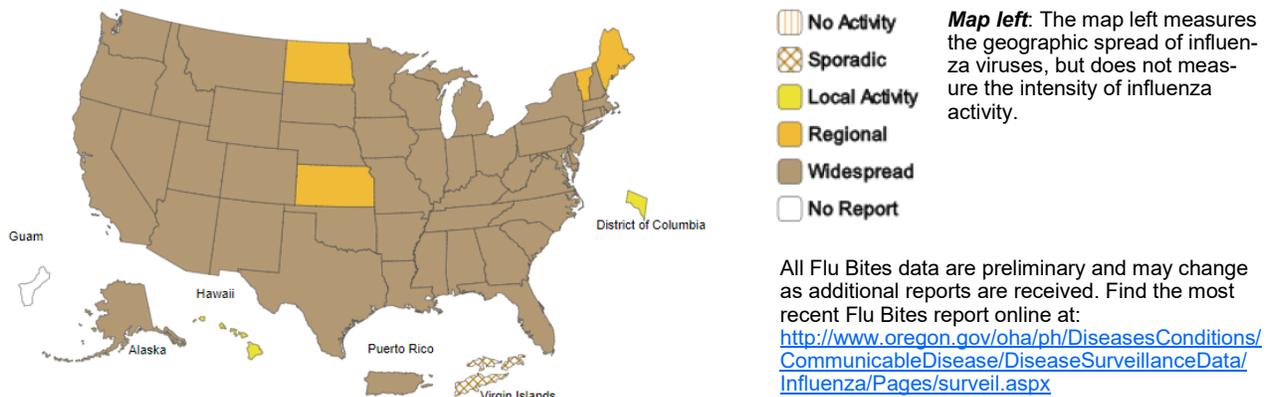
- **Hospitalizations:** The overall hospitalization rate for the season increased to 9.2 per 100,000. This is similar to what has been seen at this time during recent seasons.
- **P&I Mortality:** The percentage of deaths attributed to pneumonia and influenza is 5.5% which is below the epidemic threshold.
- **Pediatric Deaths:** Five new influenza-associated pediatric deaths occurring during the 2019-2020 season were reported this week. The total for the season is 27.

**Influenza-Like Illness (ILI) Activity Level Indicator Determined by Data Reported to ILINet
2019-20 Influenza Season Week 52 ending Dec 28, 2019**



Map above: This map uses the proportion of outpatient visits to ILINet sentinel providers for influenza-like illness to measure the ILI activity level within a state. It does not, however, measure the extent of geographic spread of flu within a state. Therefore, outbreaks occurring in a single city could cause the state to display high activity levels.

**Weekly Influenza Activity Estimates Reported by State and Territorial Epidemiologists
Week Ending Dec 28, 2019 - Week 52**



Map left: The map left measures the geographic spread of influenza viruses, but does not measure the intensity of influenza activity.

All Flu Bites data are preliminary and may change as additional reports are received. Find the most recent Flu Bites report online at:
<http://www.oregon.gov/oha/ph/DiseasesConditions/CommunicableDisease/DiseaseSurveillanceData/Influenza/Pages/surveil.aspx>

Data at a Glance December 15—December 21, 2019 (Week 51)

	Current Week (51)	Previous Week (50)
Percentage of emergency department visits for ILI¹	4.5%	3.6%
Percentage positive influenza tests²	30.8%	27.3%
Influenza-associated hospitalizations³	25	31
Reported influenza outbreaks	11	3
Influenza-associated pediatric mortality	0	1
Respiratory Syncytial Virus (RSV) activity⁴	8.2%	8.1%

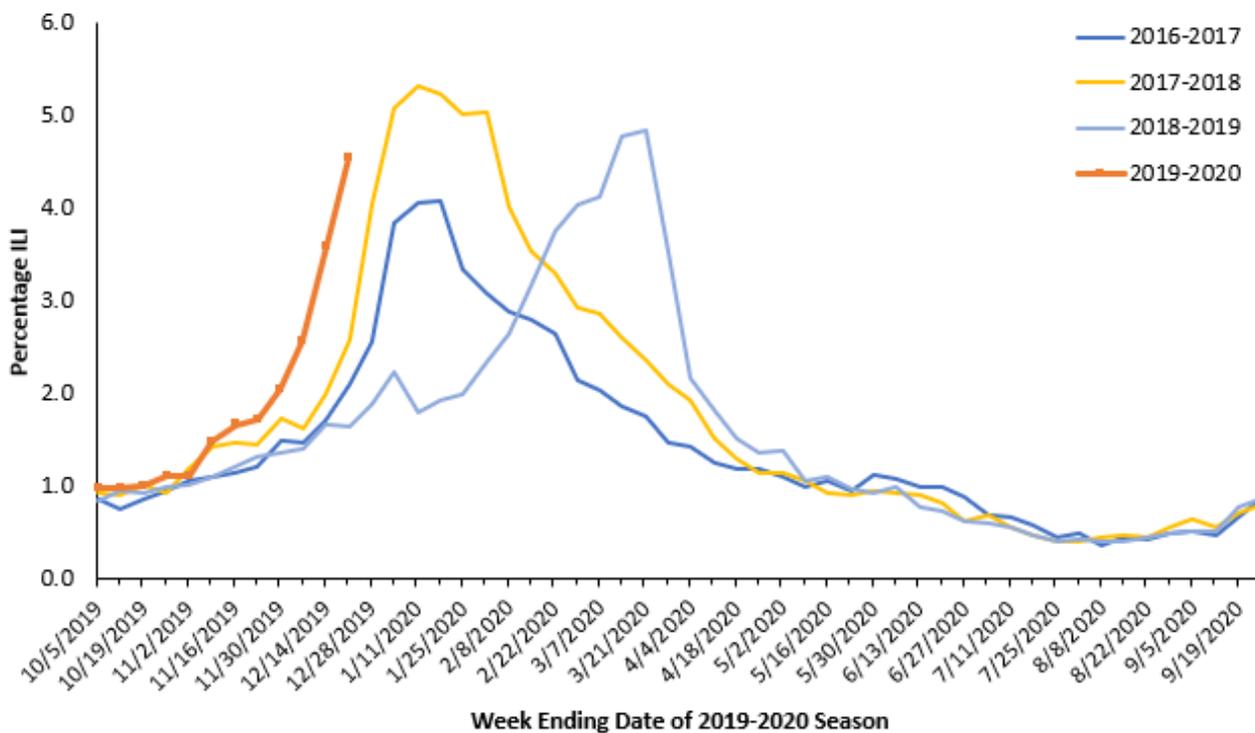
¹Based on Oregon ESSENCE Syndromic Surveillance. Data represent statewide aggregate percent.

²Percent positivity based on data from Oregon reporters to the National Respiratory and Enteric Virus Surveillance System (NREVSS)

³Based on hospitalization surveillance in Clackamas, Multnomah, and Washington counties only.

⁴Percent positivity based on data from Oregon's RSV Laboratory Surveillance System.

Figure 1. Percentage of ED Visits for ILI, Oregon ESSENCE Syndromic Surveillance, 2016–2017, 2017–2018, 2018–2019, 2019–2020



Oregon ESSENCE Syndromic Surveillance: Oregon Public Health tracks hospital emergency department (ED) visits throughout the state using the Oregon ESSENCE syndromic surveillance system. ESSENCE categorizes chief complaints into syndrome categories, which include ILI. Figure 1, above, displays percentages for all of Oregon during this flu season compared with the previous three flu seasons. The percent of ED visits for ILI in all of Oregon was 4.5% during week 51, 2019.

Laboratory Surveillance: The National Respiratory and Enteric Virus Surveillance System (NREVSS) is a laboratory-based system that monitors influenza and other respiratory viruses circulating the United States. More information is at CDC's [website](#).

Table 1 shows the tests conducted and results by region for the current week for influenza in specimens tested at the Oregon laboratories reporting to NREVSS. Figure 2 shows that 30.8% of specimens tested at Oregon labs were positive for influenza during week 51, and the bar chart displays the number of influenza-positive tests by flu type and percent positivity.

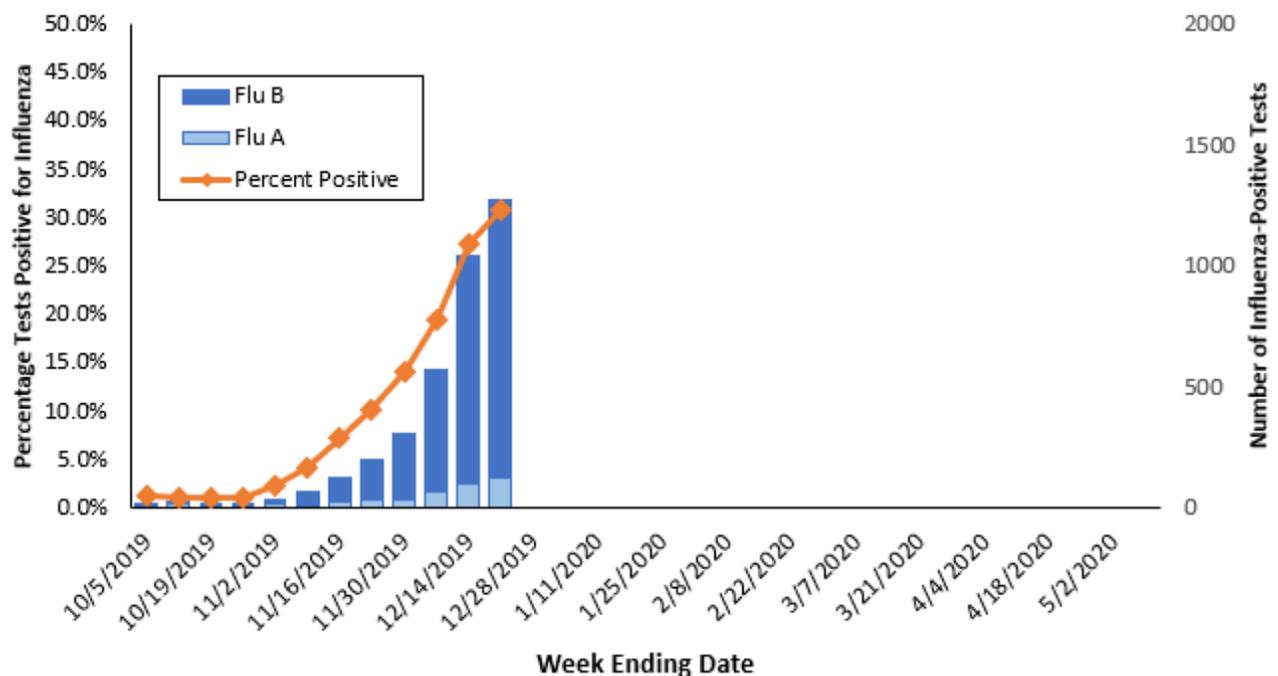
Participation by laboratories is voluntary. Current labs participating in NREVSS in Oregon include:

Legacy Emanuel Hospital and Health Center (Portland, OR), Oregon Health & Science University (Portland, OR), Providence Health (Oregon), Kaiser Permanente (Oregon), Veteran's Administration Hospital (Portland, OR), Adventist Health (Portland, OR), Bay Area Hospital (Coos Bay, OR), Curry Health Network (Brookings, OR), Mercy Medical Center (Roseburg, OR), Sky Lakes Medical Center (Klamath Falls, OR), Lake Health District, (Lakeview, OR), Rogue Valley Medical Center (SW Oregon), Good Shepherd Medical Center (Hermiston, OR), Grande Ronde Hospital, (La Grande, OR), Mid-Columbia Medical Center (The Dalles, OR), Central Oregon Pediatric Associates (Central Oregon), Harney District Hospital (Burns, OR), St. Charles (Bend, OR), Samaritan Health Services (Lebanon, OR), Columbia Memorial Hospital (Astoria, OR), PeaceHealth Southwest Medical Center (Vancouver, WA), Salem Hospital (Salem, OR), Willamette Valley Medical Center (McMinnville, OR).

Table 1. Influenza Test Results in Oregon by Region, NREVSS, Current Week, 2019–2020 Season

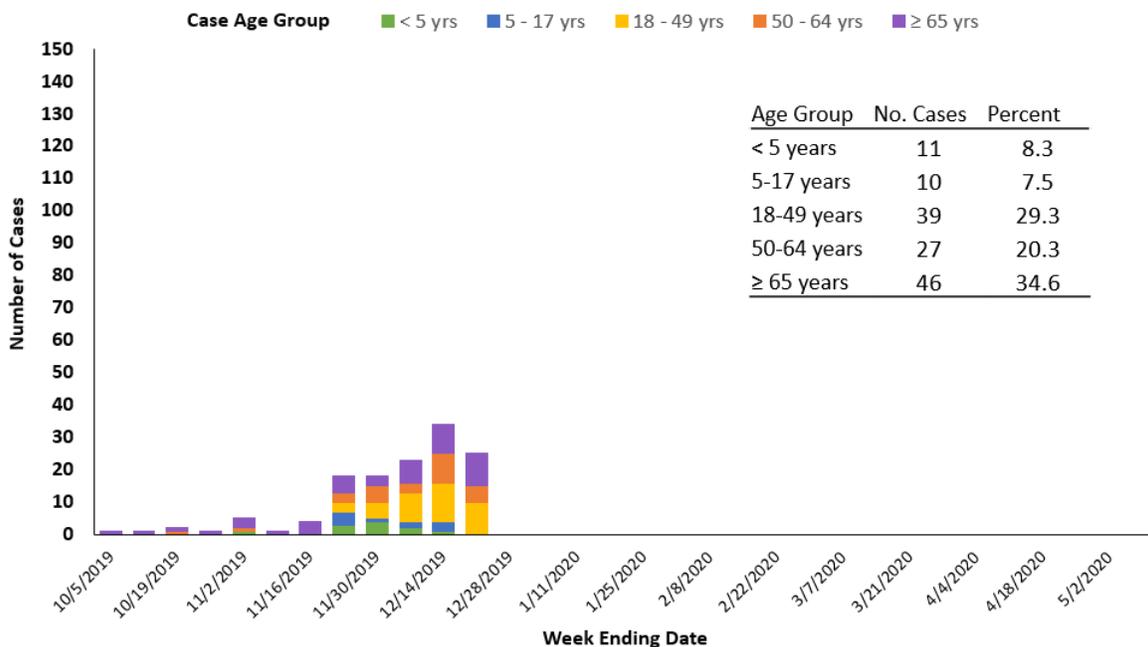
Region	Total Tests	Positive		Flu A		Flu B	
		No.	(%)	No.	(%)	No.	(%)
Portland Metro	1954	628	32.1%	47	7.5%	581	92.5%
Southern Oregon	674	135	20.0%	24	17.8%	111	82.2%
Columbia Gorge	314	134	42.7%	18	0.0%	116	86.6%
Central Oregon	595	208	35.0%	27	13.0%	181	87.0%
Willamette Valley	606	172	28.4%	10	5.8%	162	94.2%
State Total	4143	1277	30.8%	126	9.9%	1151	90.1%

**Figure 2. Oregon Influenza Laboratory Surveillance
Percent Positive Influenza Tests by Week, NREVSS, 2019-2020 Season**



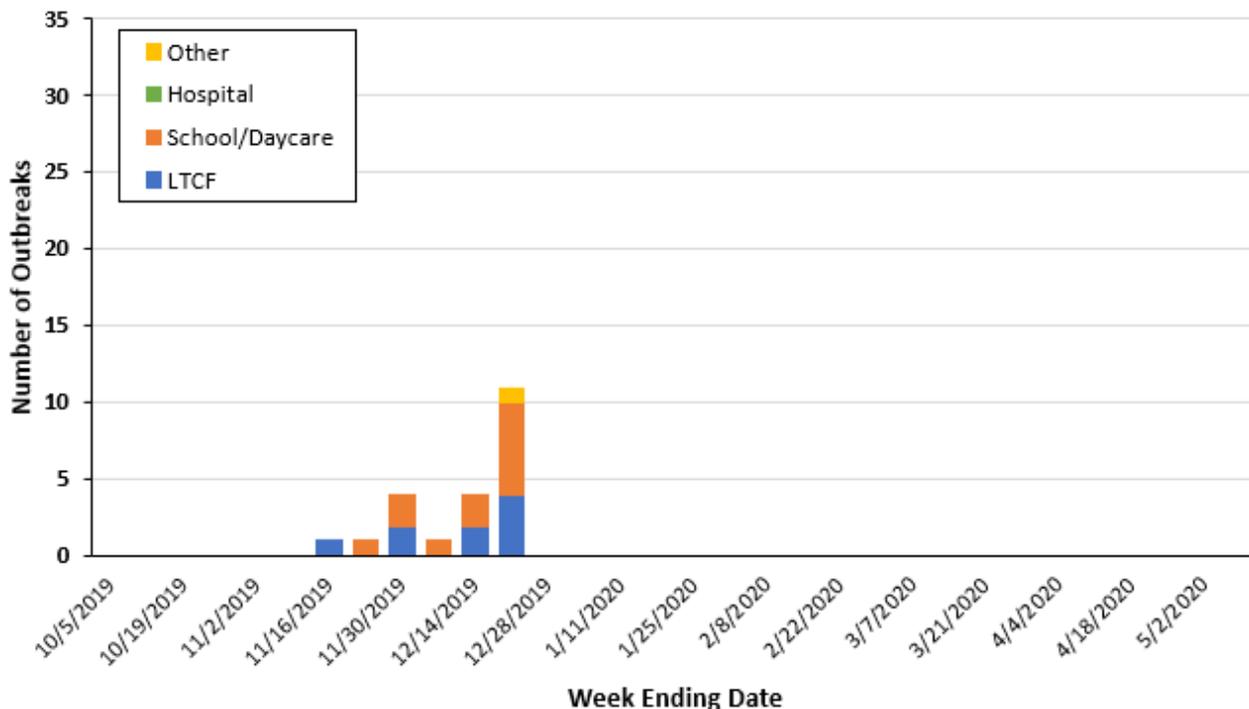
Hospitalizations: In Clackamas, Multnomah, and Washington counties 25 influenza-associated hospitalizations were reported during week 51 of 2019. In total, there have been 134 hospitalizations; 33 (24.6%) were positive for flu A and 101 (75.4%) were positive for flu B. Of the 4 flu A specimens that have been subtyped, 2 (50.0%) were 2009 H1N1 and 2 (50.0%) were flu A H3. All 16 flu B specimens that were differentiated were Victoria lineage.

Figure 3. Portland Metro Area Influenza-Associated Hospitalizations by Week and Age Group, 2019-2020 Season



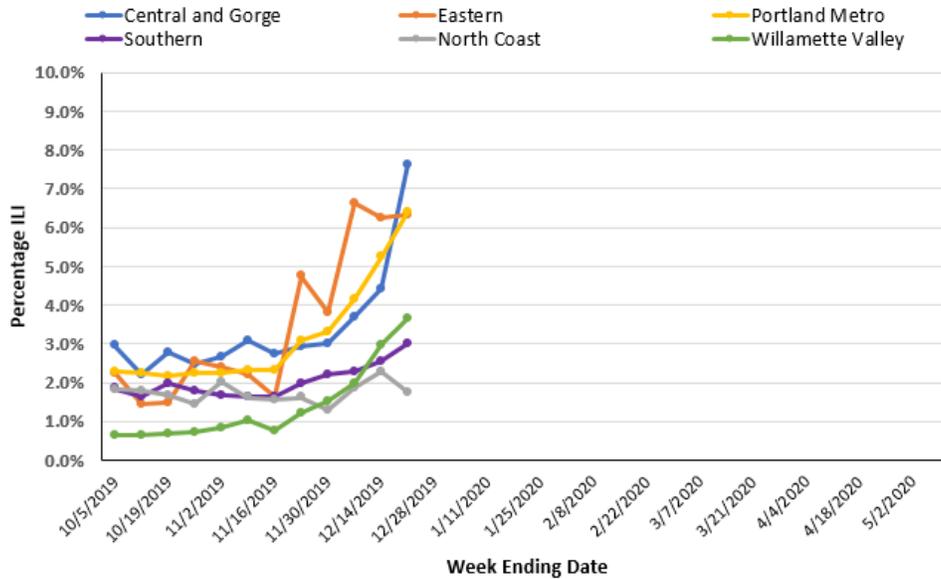
Influenza Outbreaks: There were 11 influenza outbreaks reported during Week 51, 2019. There have been a total of 22 influenza outbreaks reported to the Oregon Health Authority in the 2019—2020 flu season, 9 occurred in a long-term care facility, 12 occurred in a school, and 1 occurred in an other setting.

Figure 4. Number of Influenza Outbreaks in Oregon by Setting, 2019-2020 Season



Outpatient Influenza-like Illness Surveillance: Oregon’s outpatient influenza-like illness (ILI) surveillance comprises 17 voluntary reporting outpatient providers, 64 emergency departments and urgent care clinics reporting to ESSENCE, and 186 OCHIN clinics from across Oregon. The percent of outpatients seen with ILI across the state during week 51 of 2019 was 5.3%. Regionally, the percent was highest in the Central and Gorge region (7.6%) and lowest in the North Coast (1.8%).

Figure 5. Percentage of Visits for ILI at Outpatient Clinics & Emergency Departments, by Oregon Region, 2019-2020



Vaccination Information: Weekly influenza immunization reporting is based on ALERT Immunization Information System (ALERT IIS) data through Epi week 51 of 2019 (December 21st). New influenza immunization seeking continued through Epiweek 51 at a level slightly above last season.

Figure 6. 2019-2020 Oregon Flu Vaccine Doses in ALERT IIS by Epi Week

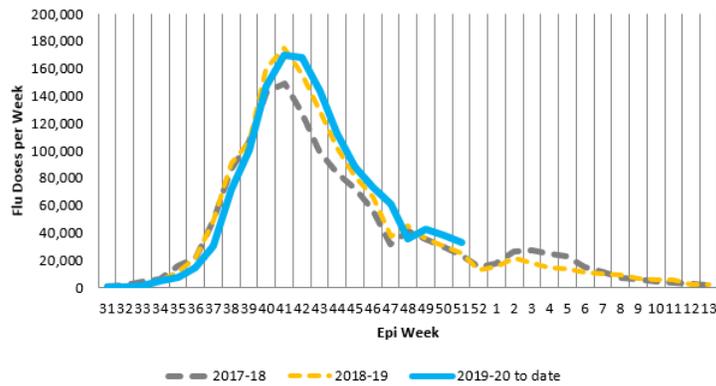
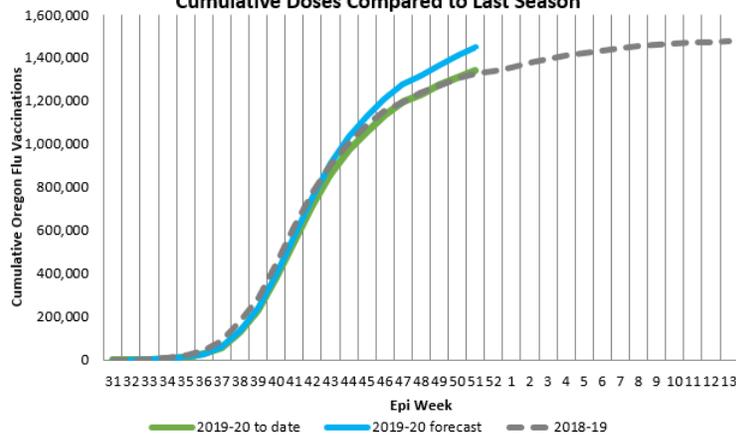


Figure 7. 2019-2020 Flu Vaccination in ALERT IIS by Epi Week, Cumulative Doses Compared to Last Season



US Data (from CDC FluView): Seasonal influenza activity in the United States continues to increase and has been elevated for seven weeks.

Viruses

- **Clinical Lab:** The percentage of respiratory specimens testing positive for influenza at clinical laboratories increased to 22.1% this week.
- **Public Health Lab:** Nationally, B/Victoria viruses are most common followed by A(H1N1)pdm09 viruses. The predominant virus varies by region and age group.
- **Virus Characterization:** Genetic and antigenic characterization and antiviral susceptibility of viruses collected in the U.S. this season are now being reported.

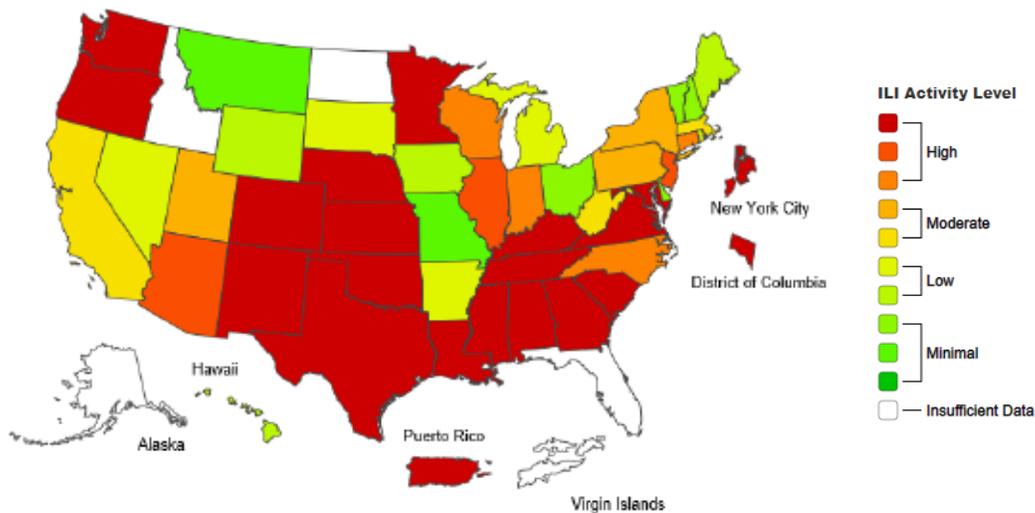
Illness

- **ILINet Outpatient Illness:** Visits to health care providers for influenza-like illness (ILI) increased to 5.1%. ILI has been at or above the national baseline of 2.4% for seven weeks. All regions were at or above their baselines .
- **ILINet Activity Map:** The number of jurisdictions experiencing high ILI activity increased to 28 this week compared to 21 last week.
- **Geographic Spread:** The number of jurisdictions reporting regional or widespread activity stayed the same as last week at 48.

Severe Disease

- **Hospitalizations:** The overall hospitalization rate for the season increased to 6.6 per 100,000. This is similar to what has been seen at this time during recent seasons.
- **P&I Mortality:** The percentage of deaths attributed to pneumonia and influenza increased to 5.7% but remains below the epidemic threshold.
- **Pediatric Deaths:** Three new influenza-associated pediatric deaths occurring during the 2019-2020 season were reported to CDC this week. The total for the season is 22.

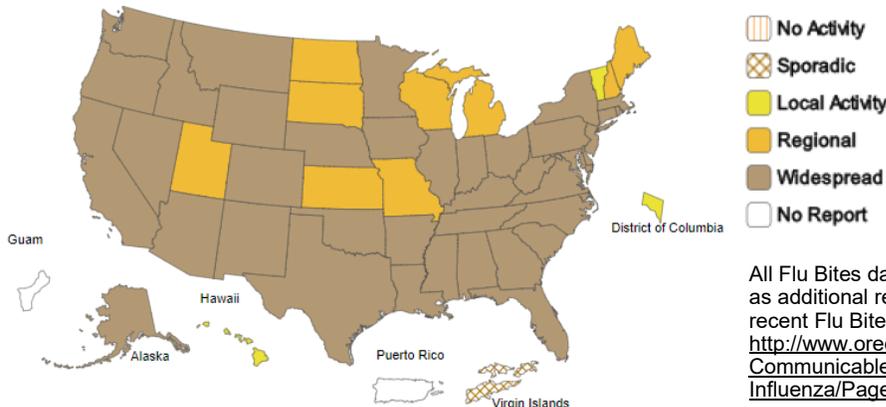
Influenza-Like Illness (ILI) Activity Level Indicator Determined by Data Reported to ILINet
2019-20 Influenza Season Week 51 ending Dec 21, 2019



Map above: This map uses the proportion of outpatient visits to ILINet sentinel providers for influenza-like illness to measure the ILI activity level within a state. It does not, however, measure the extent of geographic spread of flu within a state. Therefore, outbreaks occurring in a single city could cause the state to display high activity levels.

Weekly Influenza Activity Estimates Reported by State and Territorial Epidemiologists

Week Ending Dec 21, 2019 - Week 51



Map left: The map left measures the geographic spread of influenza viruses, but does not measure the intensity of influenza activity.

All Flu Bites data are preliminary and may change as additional reports are received. Find the most recent Flu Bites report online at:
<http://www.oregon.gov/oha/ph/DiseasesConditions/CommunicableDisease/DiseaseSurveillanceData/Influenza/Pages/surveil.aspx>

Data at a Glance December 08—December 14, 2019 (Week 50)

	Current Week (50)	Previous Week (49)
Percentage of emergency department visits for ILI¹	3.6%	2.6%
Percentage positive influenza tests²	27.3%	19.4%
Influenza-associated hospitalizations³	31	21
Reported influenza outbreaks	3	1
Influenza-associated pediatric mortality	1	0
Respiratory Syncytial Virus (RSV) activity⁴	8.1%	6.1%

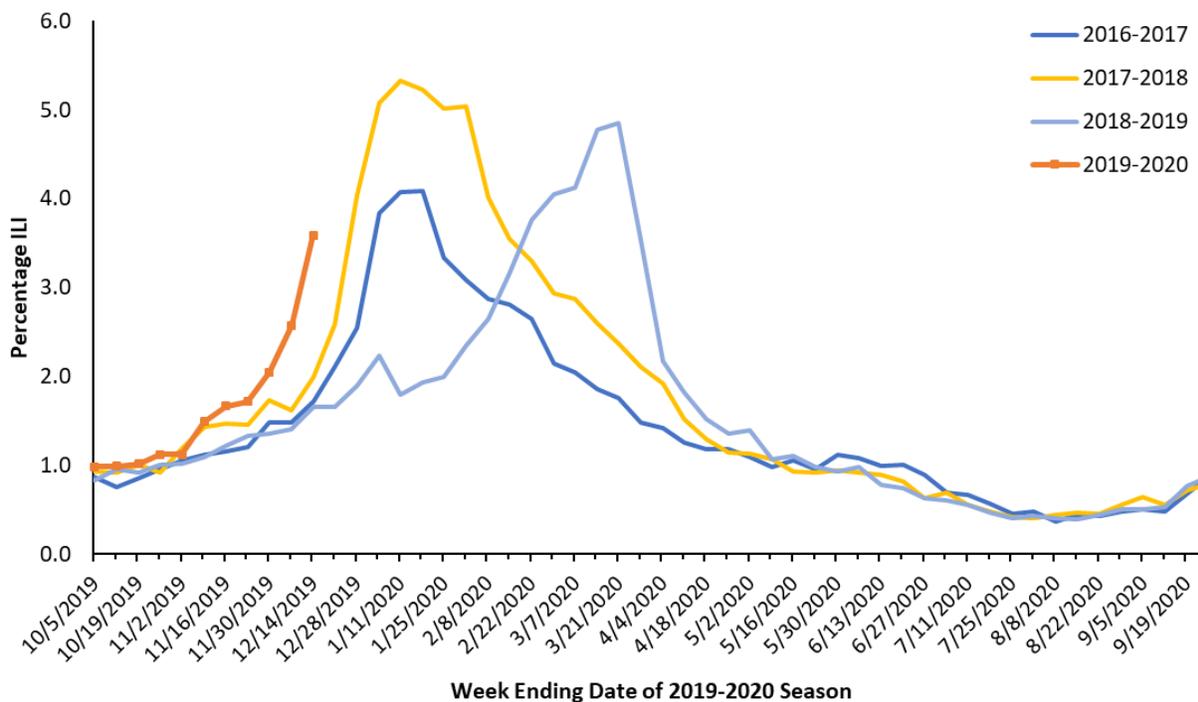
¹Based on Oregon ESSENCE Syndromic Surveillance. Data represent statewide aggregate percent.

²Percent positivity based on data from Oregon reporters to the National Respiratory and Enteric Virus Surveillance System (NREVSS)

³Based on hospitalization surveillance in Clackamas, Multnomah, and Washington counties only.

⁴Percent positivity based on data from Oregon's RSV Laboratory Surveillance System.

Figure 1. Percentage of ED Visits for ILI, Oregon ESSENCE Syndromic Surveillance, 2016–2017, 2017–2018, 2018-2019, 2019-2020



Oregon ESSENCE Syndromic Surveillance: Oregon Public Health tracks hospital emergency department (ED) visits throughout the state using the Oregon ESSENCE syndromic surveillance system. ESSENCE categorizes chief complaints into syndrome categories, which include ILI. Figure 1, above, displays percentages for all of Oregon during this flu season compared with the previous three flu seasons. The percent of ED visits for ILI in all of Oregon was 3.6% during week 50, 2019.

Laboratory Surveillance: The National Respiratory and Enteric Virus Surveillance System (NREVSS) is a laboratory-based system that monitors influenza and other respiratory viruses circulating the United States. More information is at CDC's [website](#).

Table 1 shows the tests conducted and results by region for the current week for influenza in specimens tested at the Oregon laboratories reporting to NREVSS. Figure 2 shows that 27.3% of specimens tested at Oregon labs were positive for influenza during week 50, and the bar chart displays the number of influenza-positive tests by flu type and percent positivity.

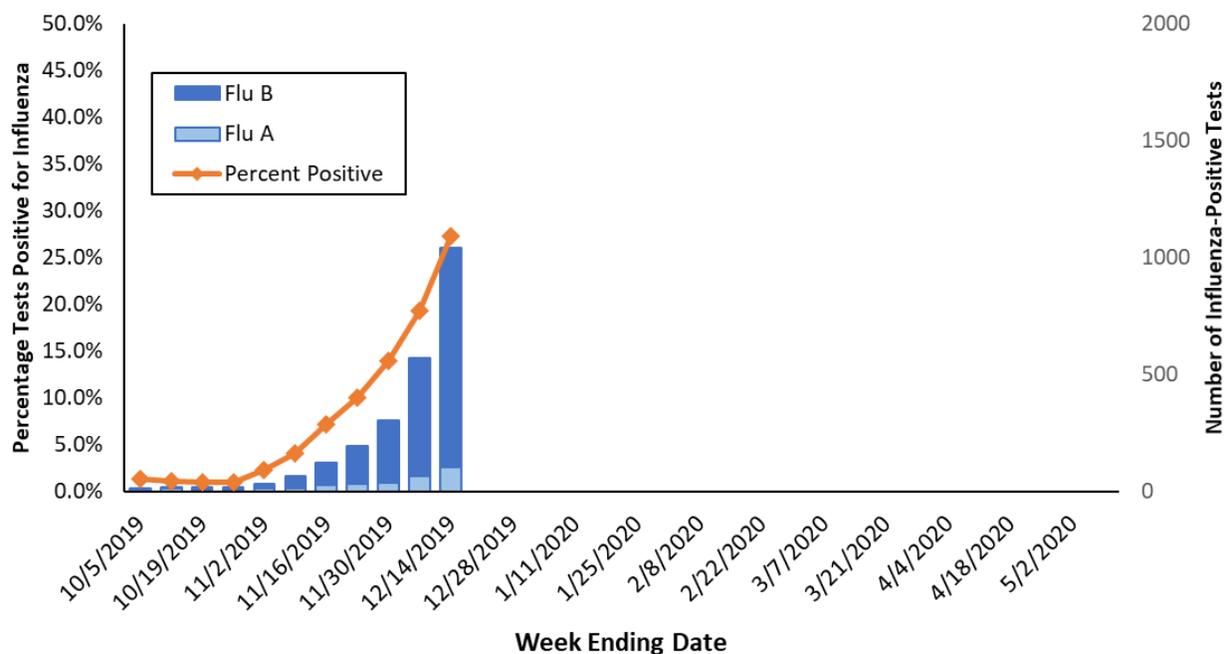
Participation by laboratories is voluntary. Current labs participating in NREVSS in Oregon include:

Legacy Emanuel Hospital and Health Center (Portland, OR), Oregon Health & Science University (Portland, OR), Providence Health (Oregon), Kaiser Permanente (Oregon), Veteran's Administration Hospital (Portland, OR), Adventist Health (Portland, OR), Bay Area Hospital (Coos Bay, OR), Curry Health Network (Brookings, OR), Mercy Medical Center (Roseburg, OR), Sky Lakes Medical Center (Klamath Falls, OR), Lake Health District, (Lakeview, OR), Rogue Valley Medical Center (SW Oregon), Good Shepherd Medical Center (Hermiston, OR), Grande Ronde Hospital, (La Grande, OR), Mid-Columbia Medical Center (The Dalles, OR), Central Oregon Pediatric Associates (Central Oregon), Harney District Hospital (Burns, OR), St. Charles (Bend, OR), Samaritan Health Services (Lebanon, OR), Columbia Memorial Hospital (Astoria, OR), PeaceHealth Southwest Medical Center (Vancouver, WA), Salem Hospital (Salem, OR), Willamette Valley Medical Center (McMinnville, OR).

Table 1. Influenza Test Results in Oregon by Region, NREVSS, Current Week, 2019–2020 Season

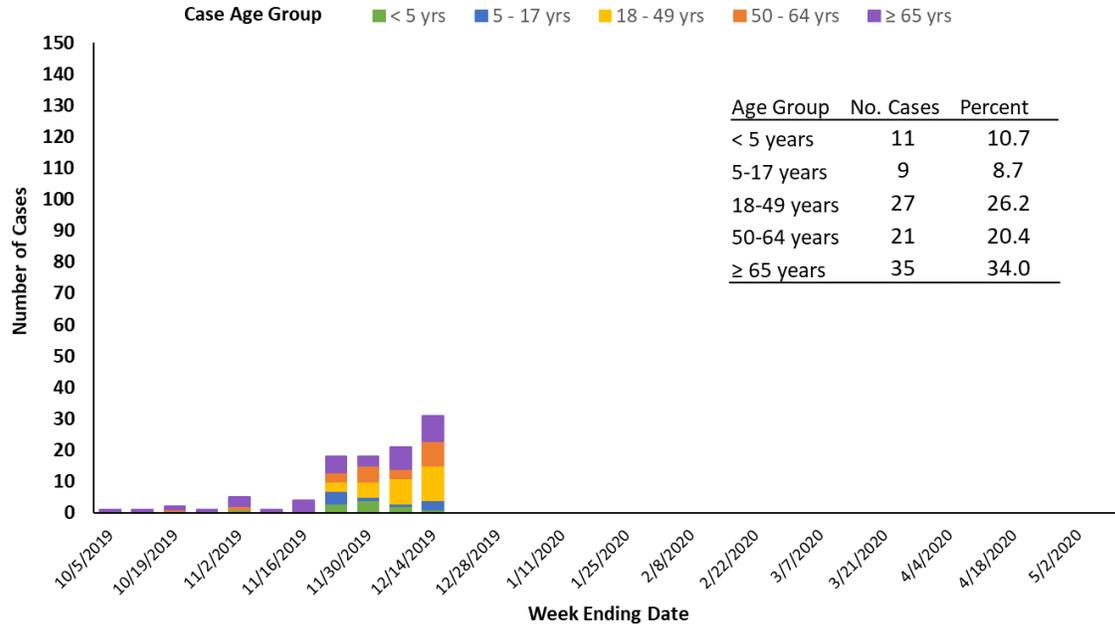
Region	Total Tests	Positive		Flu A		Flu B	
		No.	(%)	No.	(%)	No.	(%)
Portland Metro	2257	664	29.4%	47	7.1%	617	92.9%
Southern Oregon	580	70	12.1%	25	35.7%	45	64.3%
Columbia Gorge	156	66	42.3%	7	0.0%	59	89.4%
Central Oregon	350	95	27.1%	19	20.0%	76	80.0%
Willamette Valley	466	145	31.1%	5	3.4%	140	96.6%
State Total	3809	1040	27.3%	103	9.9%	937	90.1%

**Figure 2. Oregon Influenza Laboratory Surveillance
Percent Positive Influenza Tests by Week, NREVSS, 2019-2020 Season**



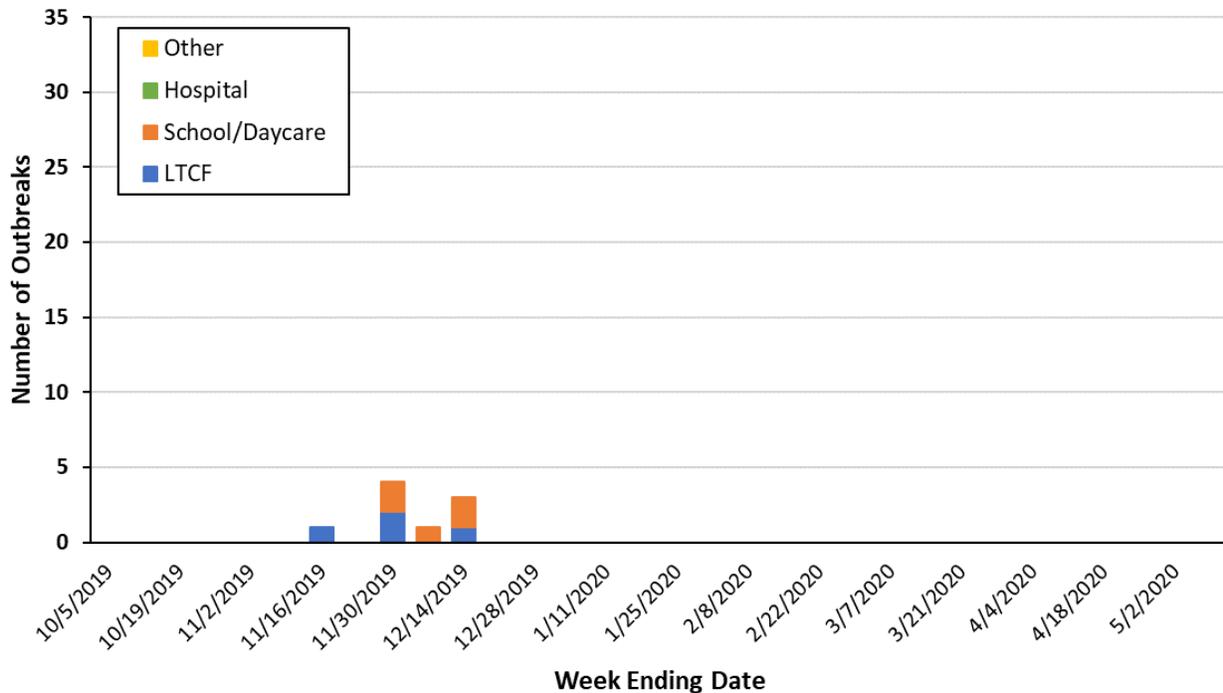
Hospitalizations: In Clackamas, Multnomah, and Washington counties 31 influenza-associated hospitalizations were reported during week 50 of 2019. In total, there have been 103 hospitalizations; 27 (26.2%) were positive for flu A and 76 (73.8%) were positive for flu B. Of the 3 flu A specimens that have been subtyped, 2 (66.7%) were 2009 H1N1 and 1 (33.3%) was flu A H3. All 14 flu B specimens that were differentiated were Victoria lineage.

Figure 3. Portland Metro Area Influenza-Associated Hospitalizations by Week and Age Group, 2019-2020 Season



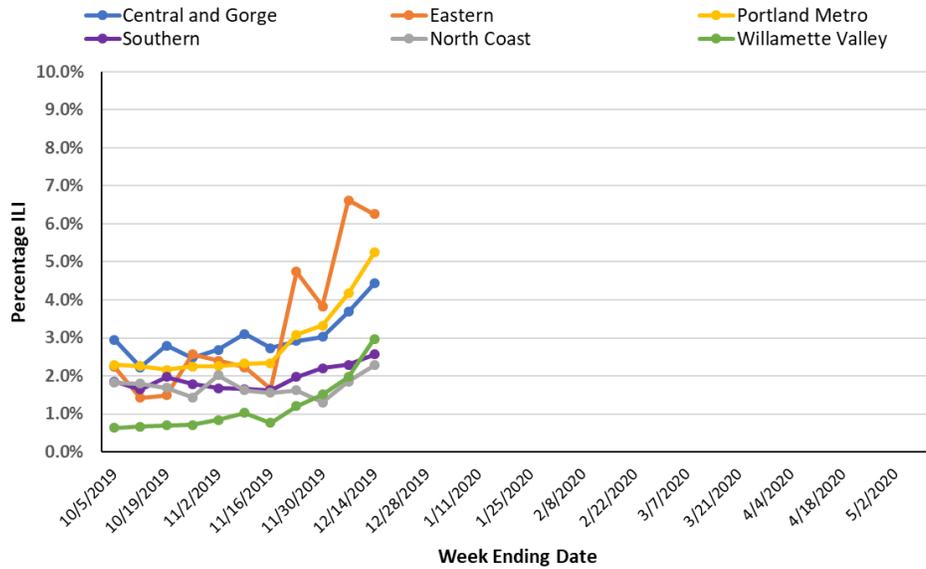
Influenza Outbreaks: There were 3 influenza outbreaks reported during Week 50, 2019. There have been a total of 9 influenza outbreaks reported to the Oregon Health Authority in the 2019—2020 flu season, 4 occurred in a long-term care facility, and 5 occurred in a school.

Figure 4. Number of Influenza Outbreaks in Oregon by Setting, 2019-2020 Season



Outpatient Influenza-like Illness Surveillance: Oregon’s outpatient influenza-like illness (ILI) surveillance comprises 17 voluntary reporting outpatient providers, 64 emergency departments and urgent care clinics reporting to ESSENCE, and 186 OCHIN clinics from across Oregon. The percent of outpatients seen with ILI across the state during week 50 of 2019 was 4.3%. Regionally, the percent was highest in the Eastern region (6.3%) and lowest in the North Coast (2.3%).

Figure 5. Percentage of Visits for ILI at Outpatient Clinics & Emergency Departments, by Oregon Region, 2019-2020



Vaccination Information: Weekly influenza immunization reporting is based on ALERT Immunization Information System (ALERT IIS) data through epi week 50 of 2019 (December 14th). At this time, new influenza immunization seeking remains at or above prior season levels (Figures 6-7).

Figure 6. 2019-2020 Oregon Flu Vaccine Doses in ALERT IIS by Epi Week

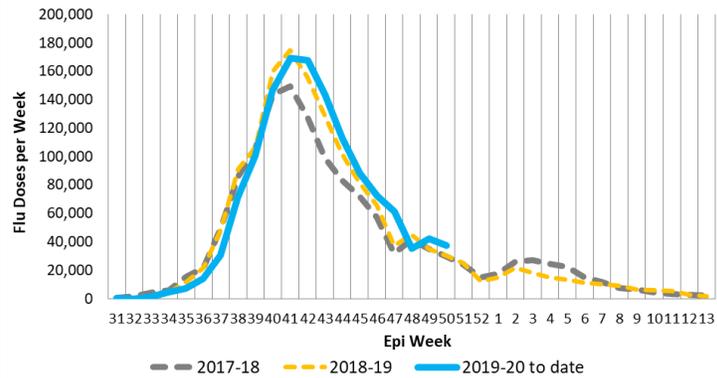
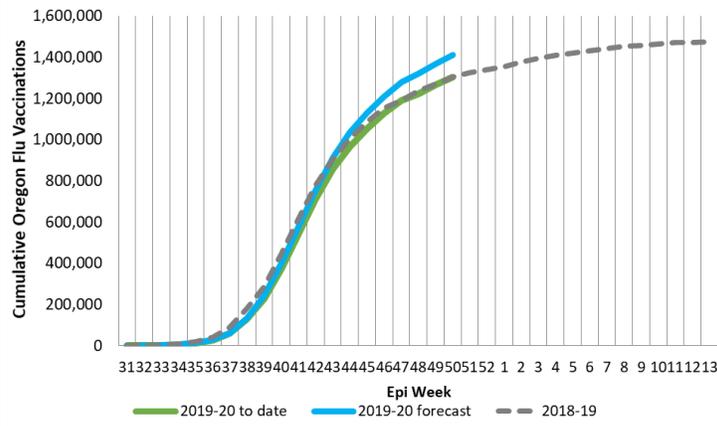


Figure 7. 2019-2020 Flu Vaccination in ALERT IIS by Epi Week, Cumulative Doses Compared to Last Season



Data at a Glance December 01—December 07, 2019 (Week 49)

	Current Week (49)	Previous Week (48)
Percentage of emergency department visits for ILI ¹	2.6%	2.1%
Percentage positive influenza tests ²	19.4%	14.0%
Influenza-associated hospitalizations ³	14	16
Reported influenza outbreaks	1	4
Influenza-associated pediatric mortality	0	0
Respiratory Syncytial Virus (RSV) activity ⁴	6.1%	5.8%

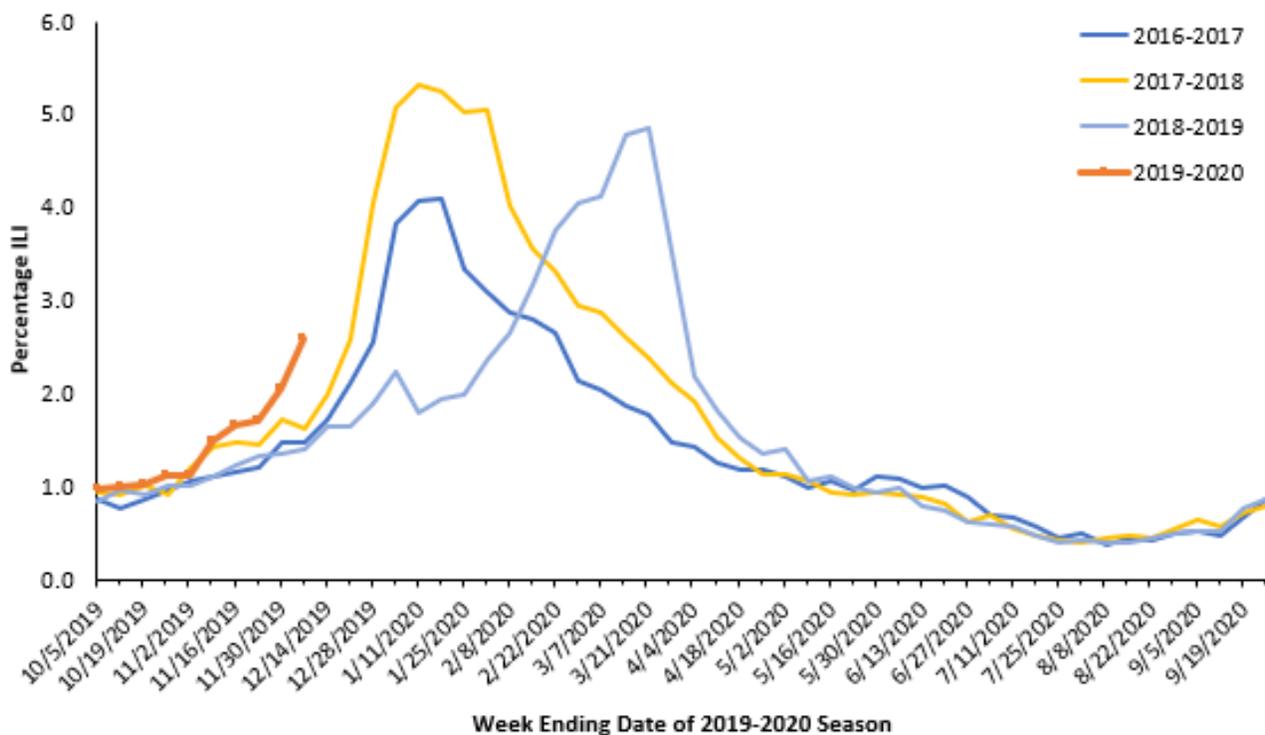
¹Based on Oregon ESSENCE Syndromic Surveillance. Data represent statewide aggregate percent.

²Percent positivity based on data from Oregon reporters to the National Respiratory and Enteric Virus Surveillance System (NREVSS)

³Based on hospitalization surveillance in Clackamas, Multnomah, and Washington counties only.

⁴Percent positivity based on data from Oregon's RSV Laboratory Surveillance System.

Figure 1. Percentage of ED Visits for ILI, Oregon ESSENCE Syndromic Surveillance, 2016–2017, 2017–2018, 2018–2019, 2019–2020



Oregon ESSENCE Syndromic Surveillance: Oregon Public Health tracks hospital emergency department (ED) visits throughout the state using the Oregon ESSENCE syndromic surveillance system. ESSENCE categorizes chief complaints into syndrome categories, which include ILI. Figure 1, above, displays percentages for all of Oregon during this flu season compared with the previous three flu seasons. The percent of ED visits for ILI in all of Oregon was 2.6% during week 49, 2019.

Laboratory Surveillance: The National Respiratory and Enteric Virus Surveillance System (NREVSS) is a laboratory-based system that monitors influenza and other respiratory viruses circulating the United States. More information is at CDC's [website](#).

Table 1 shows the tests conducted and results by region for the current week for influenza in specimens tested at the Oregon laboratories reporting to NREVSS. Figure 2 shows that 19.4% of specimens tested at Oregon labs were positive for influenza during week 49, and the bar chart displays the number of influenza-positive tests by flu type and percent positivity.

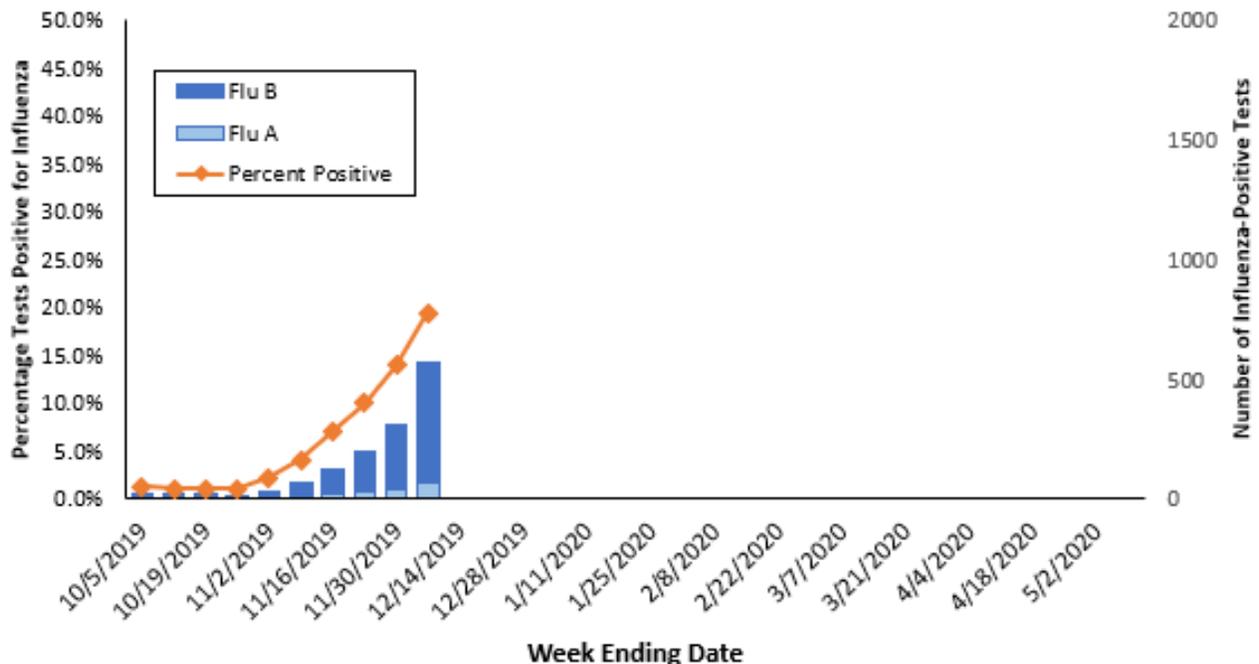
Participation by laboratories is voluntary. Current labs participating in NREVSS in Oregon include:

Legacy Emanuel Hospital and Health Center (Portland, OR), Oregon Health & Science University (Portland, OR), Providence Health (Oregon), Kaiser Permanente (Oregon), Veteran's Administration Hospital (Portland, OR), Bay Area Hospital (Coos Bay, OR), Curry Health Network (Brookings, OR), Mercy Medical Center (Roseburg, OR), Sky Lakes Medical Center (Klamath Falls, OR), Lake Health District, (Lakeview, OR), Rogue Valley Medical Center (SW Oregon), Good Shepherd Medical Center (Hermiston, OR), Mid-Columbia Medical Center (The Dalles, OR), Central Oregon Pediatric Associates (Central Oregon), Harney District Hospital (Burns, OR), St. Charles (Bend, OR), Columbia Memorial Hospital (Astoria, OR), Salem Hospital (Salem, OR), Willamette Valley Medical Center (McMinnville, OR).

Table 1. Influenza Test Results in Oregon by Region, NREVSS, Current Week, 2019–2020 Season

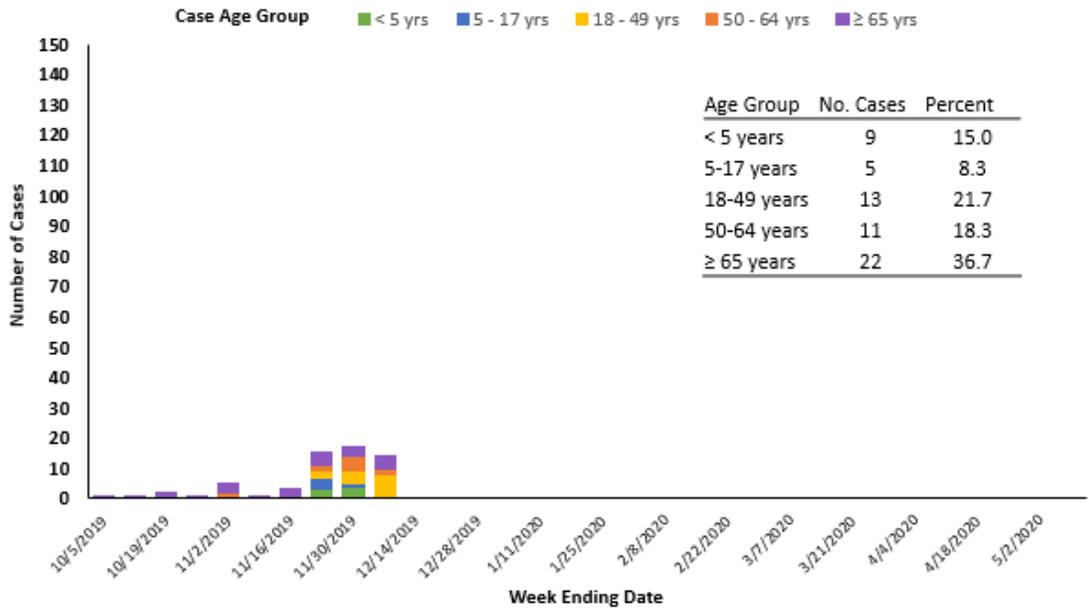
Region	Total Tests	Positive		Flu A		Flu B	
		No.	(%)	No.	(%)	No.	(%)
Portland Metro	1744	393	22.5%	33	8.4%	360	91.6%
Southern Oregon	509	51	10.0%	14	27.5%	37	72.5%
Columbia Gorge	90	25	27.8%	1	0.0%	24	96.0%
Central Oregon	300	59	19.7%	13	22.0%	46	78.0%
Willamette Valley	295	41	13.9%	3	7.3%	38	92.7%
State Total	2938	569	19.4%	64	11.2%	505	88.8%

**Figure 2. Oregon Influenza Laboratory Surveillance
Percent Positive Influenza Tests by Week, NREVSS, 2019-2020 Season**



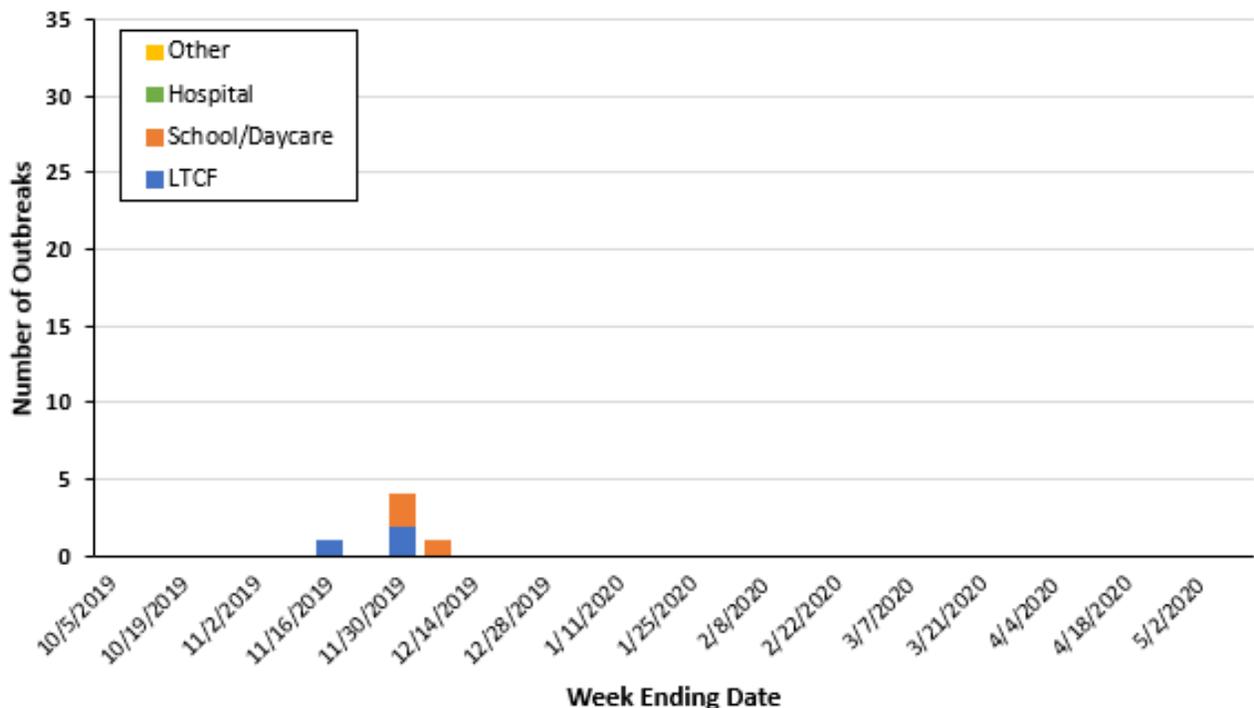
Hospitalizations: In Clackamas, Multnomah, and Washington counties 14 influenza-associated hospitalizations were reported during week 49 of 2019. In total, there have been 60 hospitalizations; 15 (25.0%) were positive for flu A and 45 (75.0%) were positive for flu B. One specimen has been subtyped as flu A H1N1.

Figure 3. Portland Metro Area Influenza-Associated Hospitalizations by Week and Age Group, 2019-2020 Season



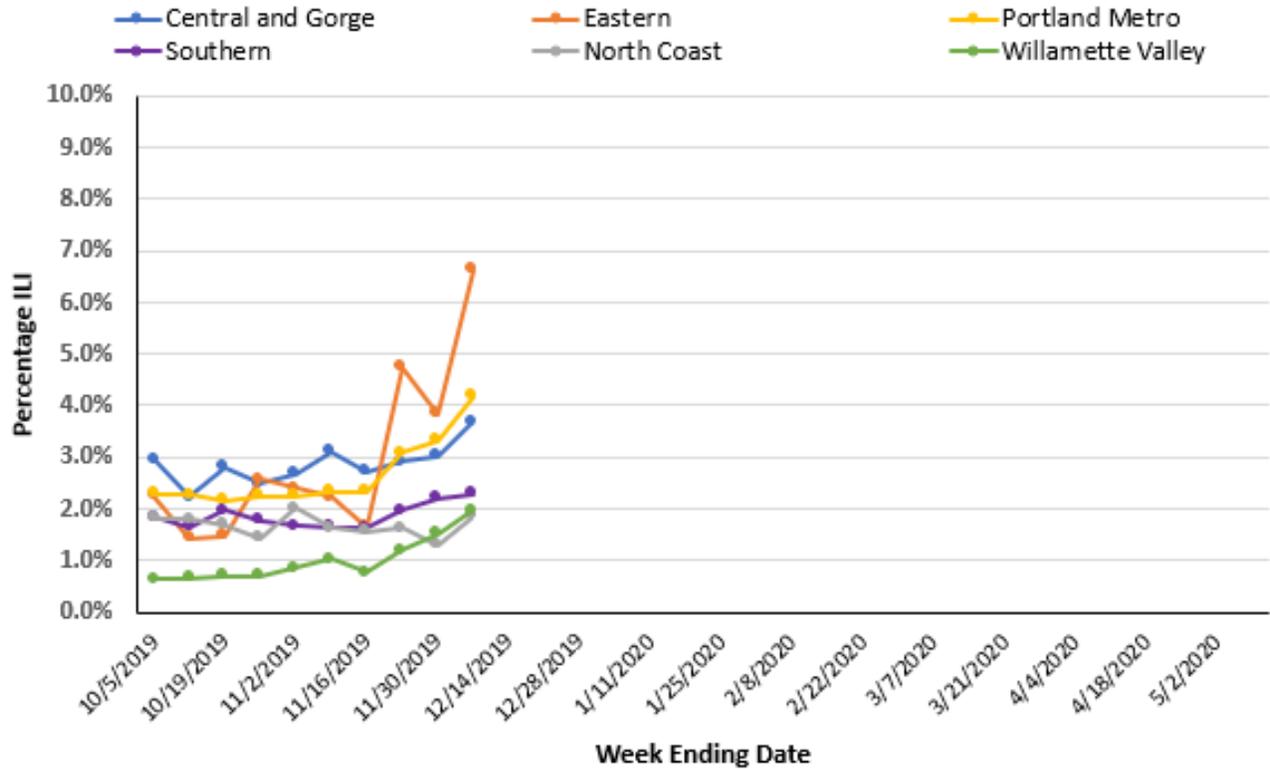
Influenza Outbreaks: There was 1 influenza outbreak reported during Week 49, 2019. There have been a total of 6 influenza outbreaks reported to the Oregon Health Authority in the 2019—2020 flu season, 3 occurred in a long-term care facility, and 3 occurred in a school.

Figure 4. Number of Influenza Outbreaks in Oregon by Setting, 2019-2020 Season



Outpatient Influenza-like Illness Surveillance: Oregon’s outpatient influenza-like illness (ILI) surveillance comprises 17 voluntary reporting outpatient providers, 64 emergency departments and urgent care clinics reporting to ESSENCE, and 146 OCHIN clinics from across Oregon. The percent of outpatients seen with ILI across the state during week 49 of 2019 was 3.5%. Regionally, the percent was highest in the Eastern region (6.6%) and lowest in the North Coast (1.9%).

Figure 5. Percentage of Visits for ILI at Outpatient Clinics & Emergency Departments, by Oregon Region, 2019-2020



Vaccination Information: Weekly influenza immunization reporting is based on ALERT Immunization Information System (ALERT IIS) data through epi week 49 of 2019 (December 7th). Epi week 49 reporting covers the National Influenza Vaccination Week (NIVW- December 2nd to 8th), which was established by the CDC in 2005 to highlight the importance of flu vaccinations through the holiday season. Along with the NIVC we saw a spike upwards in new influenza immunizations at the start of December, and influenza immunization totals continue to run or above last season's levels for all age groups in Oregon. As a caveat, while most immunizations are reported quickly and electronically to ALERT IIS, some reporting is delayed- current weekly totals will be adjusted upward later.

Figure 6: 2019-2020 Oregon Flu Vaccine Doses in ALERT IIS by Epi Week

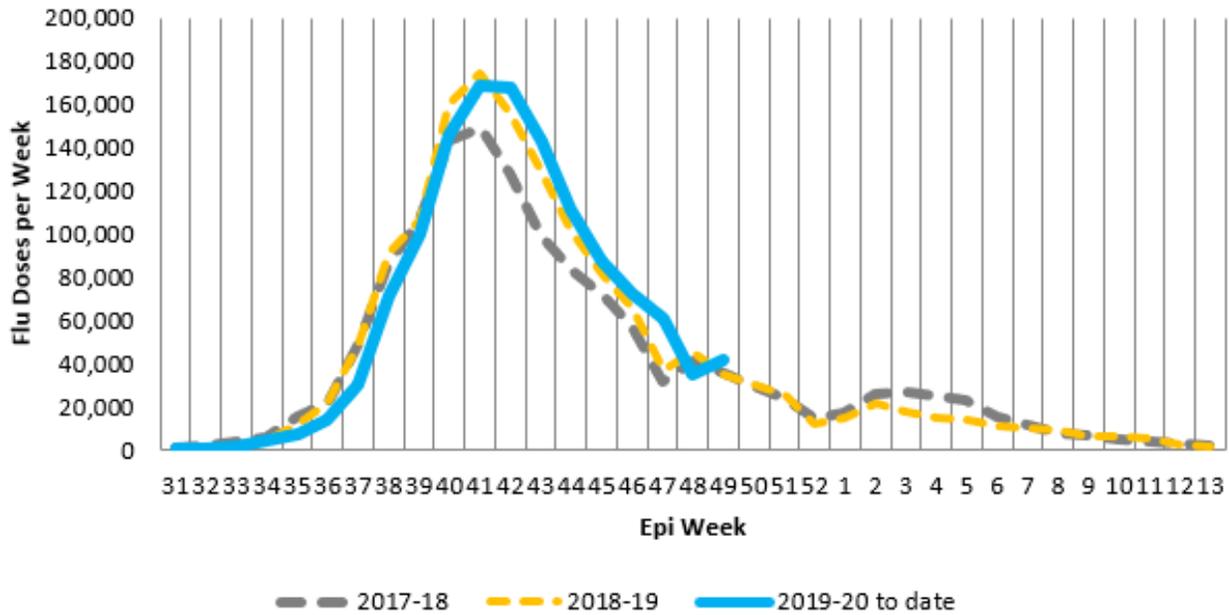
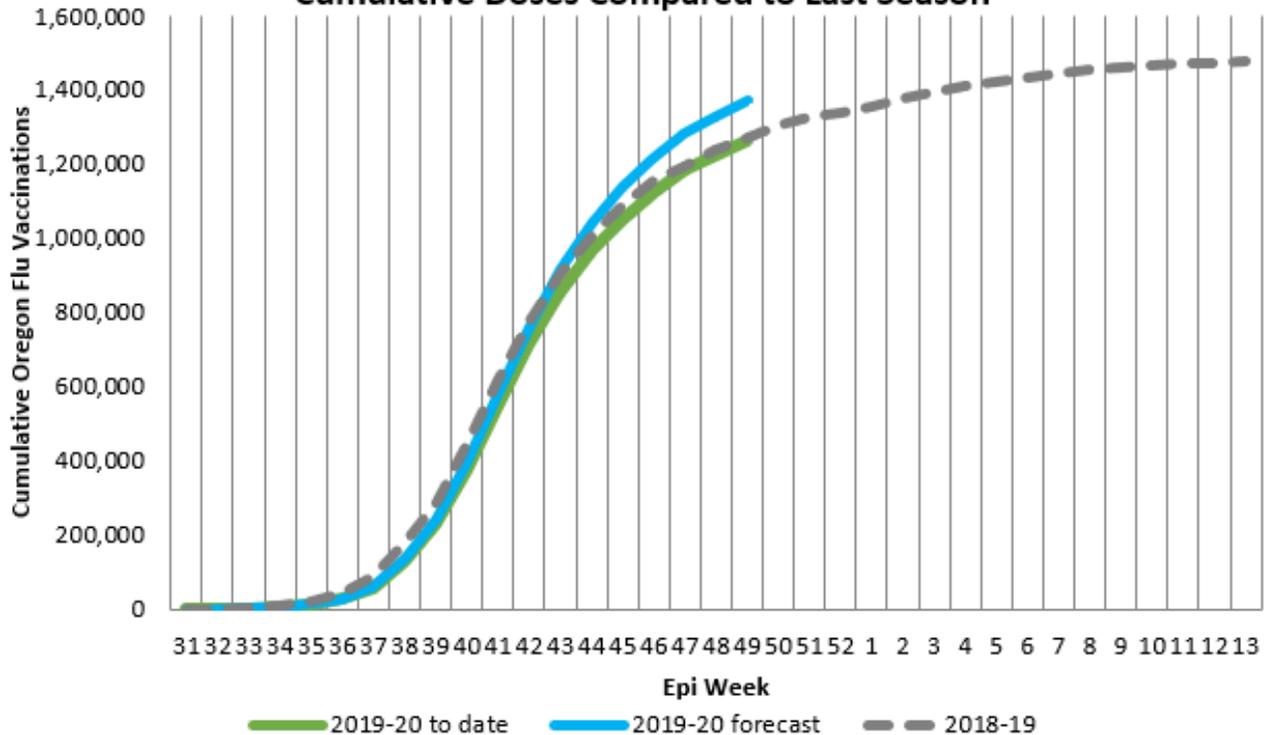


Figure 7: 2019-2020 Flu Vaccination in ALERT IIS by Epi Week, Cumulative Doses Compared to Last Season



Data at a Glance November 24—November 30, 2019 (Week 48)

	Current Week (48)	Previous Week (47)
Percentage of emergency department visits for ILI ¹	2.1%	1.7%
Percentage positive influenza tests ²	14.0%	10.0%
Influenza-associated hospitalizations ³	16	15
Reported influenza outbreaks	4	0
Influenza-associated pediatric mortality	0	0
Respiratory Syncytial Virus (RSV) activity ⁴	5.8%	3.7%

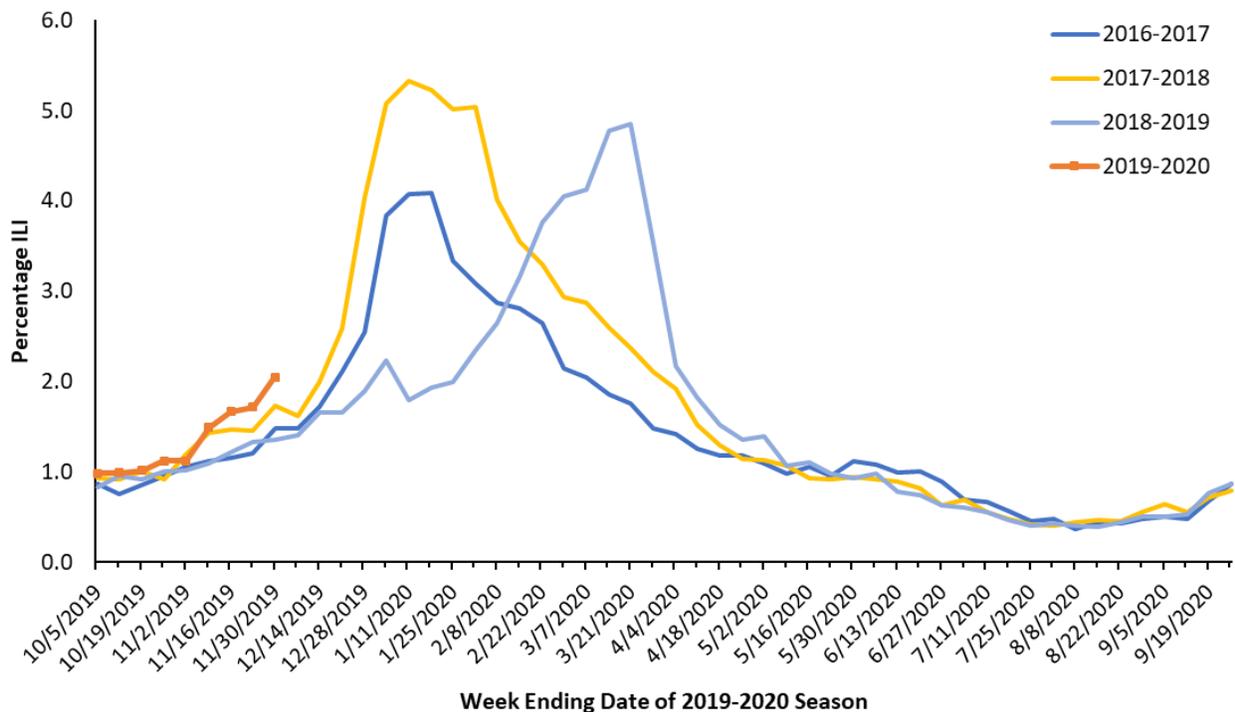
¹Based on Oregon ESSENCE Syndromic Surveillance. Data represent statewide aggregate percent.

²Percent positivity based on data from Oregon reporters to the National Respiratory and Enteric Virus Surveillance System (NREVSS)

³Based on hospitalization surveillance in Clackamas, Multnomah, and Washington counties only.

⁴Percent positivity based on data from Oregon's RSV Laboratory Surveillance System.

Figure 1. Percentage of ED Visits for ILI, Oregon ESSENCE Syndromic Surveillance, 2016–2017, 2017–2018, 2018–2019, 2019–2020



Oregon ESSENCE Syndromic Surveillance: Oregon Public Health tracks hospital emergency department (ED) visits throughout the state using the Oregon ESSENCE syndromic surveillance system. ESSENCE categorizes chief complaints into syndrome categories, which include ILI. Figure 1, above, displays percentages for all of Oregon during this flu season compared with the previous three flu seasons. The percent of ED visits for ILI in all of Oregon was 2.1% during week 48, 2019.

Laboratory Surveillance: The National Respiratory and Enteric Virus Surveillance System (NREVSS) is a laboratory-based system that monitors influenza and other respiratory viruses circulating the United States. More information is at CDC's [website](#).

Table 1 shows the tests conducted and results by region for the current week for influenza in specimens tested at the Oregon laboratories reporting to NREVSS. Figure 2 shows that 14.0% of specimens tested at Oregon labs were positive for influenza during week 48, and the bar chart displays the number of influenza-positive tests by flu type and percent positivity.

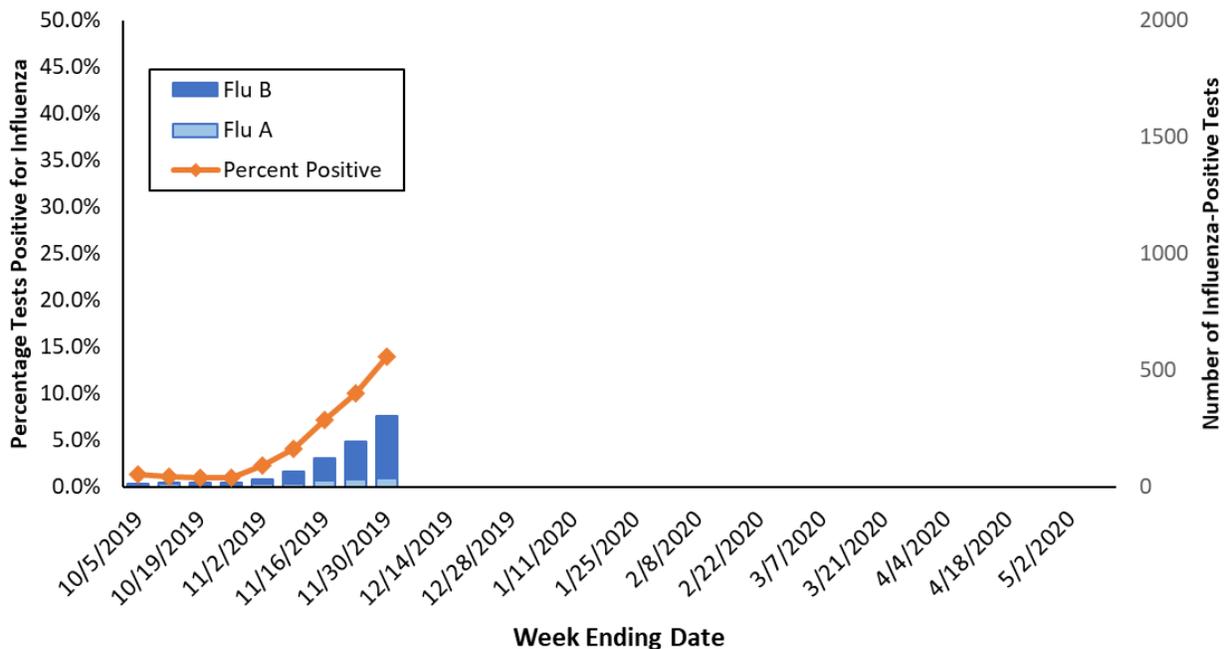
Participation by laboratories is voluntary. Current labs participating in NREVSS in Oregon include:

Legacy Emanuel Hospital and Health Center (Portland, OR), Oregon Health & Science University (Portland, OR), Providence Health (Oregon), Kaiser Permanente (Oregon), Veteran's Administration Hospital (Portland, OR), Bay Area Hospital (Coos Bay, OR), Curry Health Network (Brookings, OR), Mercy Medical Center (Roseburg, OR), Sky Lakes Medical Center (Klamath Falls, OR), Lake Health District, (Lakeview, OR), Rogue Valley Medical Center (SW Oregon), Good Shepherd Medical Center (Hermiston, OR), Mid-Columbia Medical Center (The Dalles, OR), Central Oregon Pediatric Associates (Central Oregon), Harney District Hospital (Burns, OR), St. Charles (Bend, OR), Columbia Memorial Hospital (Astoria, OR), Salem Hospital (Salem, OR), Willamette Valley Medical Center (McMinnville, OR).

Table 1. Influenza Test Results in Oregon by Region, NREVSS, Current Week, 2019–2020 Season

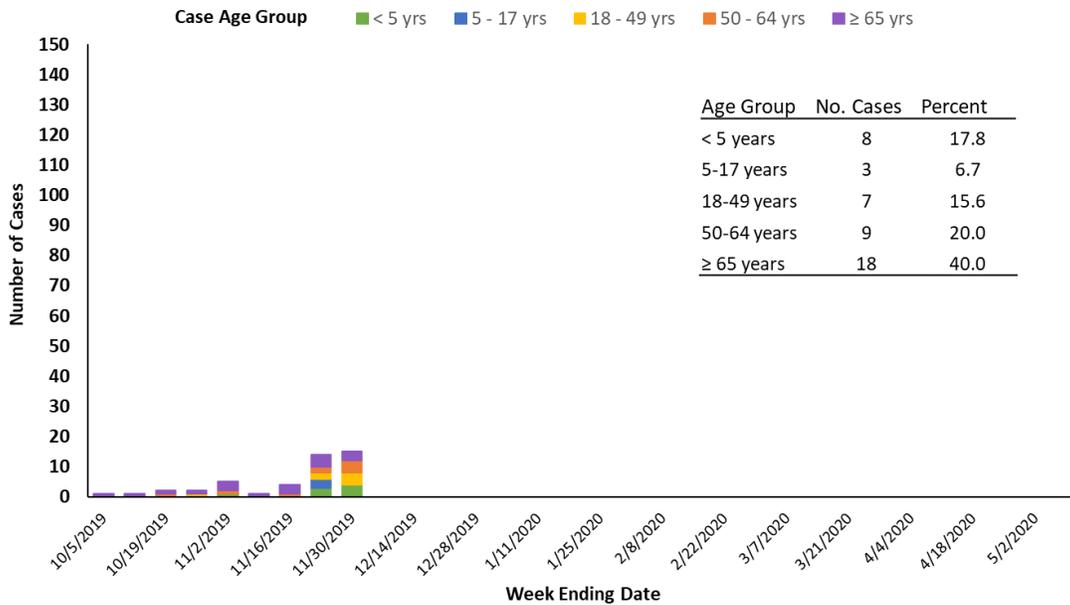
Region	Total Tests	Positive		Flu A		Flu B	
		No.	(%)	No.	(%)	No.	(%)
Portland Metro	1313	220	16.8%	19	8.6%	201	91.4%
Southern Oregon	382	25	6.5%	6	24.0%	19	76.0%
Columbia Gorge	34	6	17.6%	0	0.0%	6	100.0%
Central Oregon	210	35	16.7%	9	25.7%	26	74.3%
Willamette Valley	239	19	7.9%	2	10.5%	17	89.5%
State Total	2178	305	14.0%	36	11.8%	269	88.2%

**Figure 2. Oregon Influenza Laboratory Surveillance
Percent Positive Influenza Tests by Week, NREVSS, 2019-2020 Season**



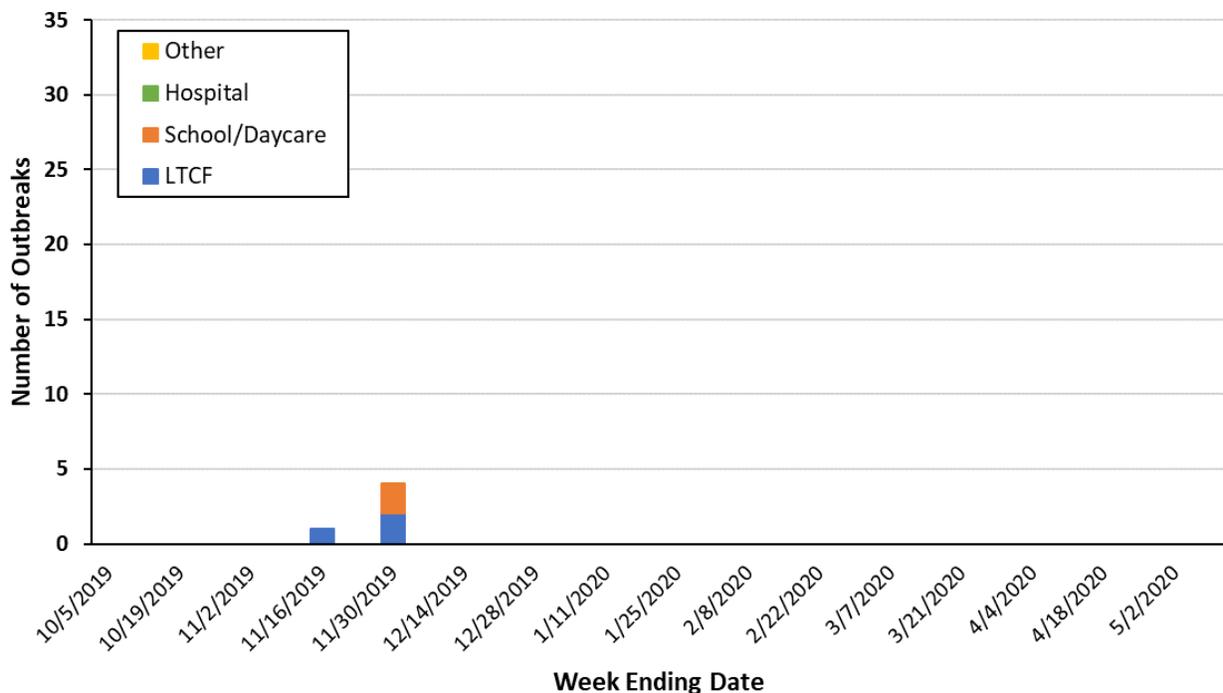
Hospitalizations: In Clackamas, Multnomah, and Washington counties 16 influenza-associated hospitalizations were reported during week 48 of 2019. In total, there have been 45 hospitalizations; 14 (31.1%) were positive for flu A and 31 (68.9%) were positive for flu B. One specimen has been subtyped as flu A H1N1.

Figure 3. Portland Metro Area Influenza-Associated Hospitalizations by Week and Age Group, 2019-2020 Season



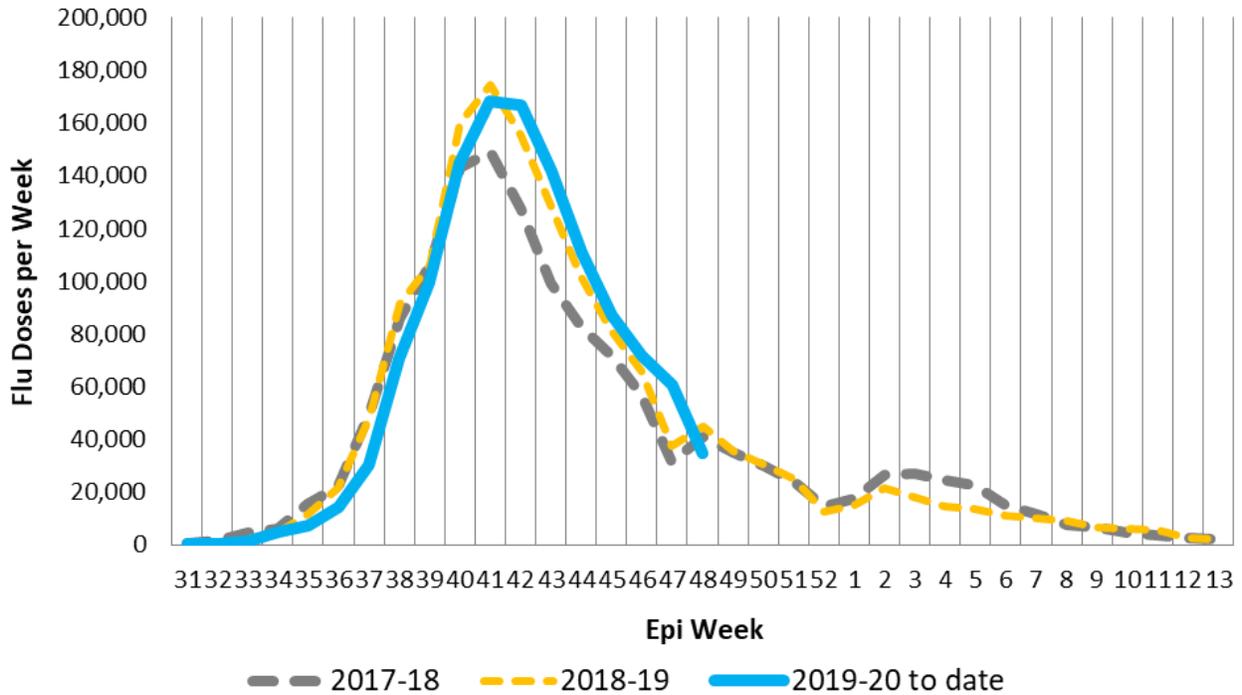
Influenza Outbreaks: There were 4 influenza outbreaks reported during Week 48, 2019. There have been a total of 5 influenza outbreaks reported to the Oregon Health Authority in the 2019—2020 flu season, 3 occurred in a long-term care facility, and 2 occurred in a school.

Figure 4. Number of Influenza Outbreaks in Oregon by Setting, 2019-2020 Season

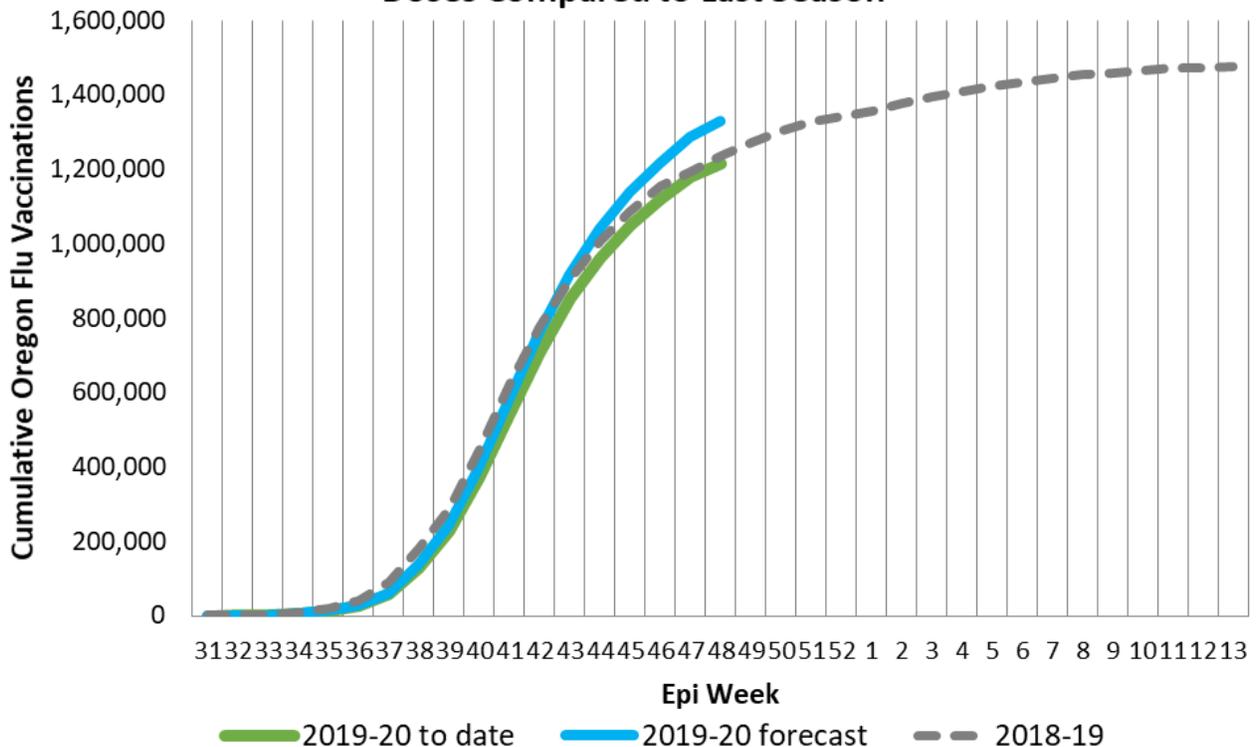


Vaccination Information: Weekly influenza immunization reporting is based on ALERT Immunization Information System (ALERT IIS) data through Epiweek 48 of 2019 (November 30th). This week's data shows the expected drop in immunization over the Thanksgiving holiday. Influenza immunization totals continue to run at a comparable level to last season. As a caveat, while most immunizations are reported quickly and electronically to ALERT IIS, some reporting is delayed—current weekly totals will be adjusted upward later.

2019-2020 Oregon Flu Vaccine Doses in ALERT IIS by Epiweek



2019-2020 Flu Vaccination in ALERT IIS by Epiweek, Cumulative Doses Compared to Last Season



US Data (from CDC FluView):

Seasonal influenza activity in the United States has been elevated for four weeks and continues to increase.

Viruses

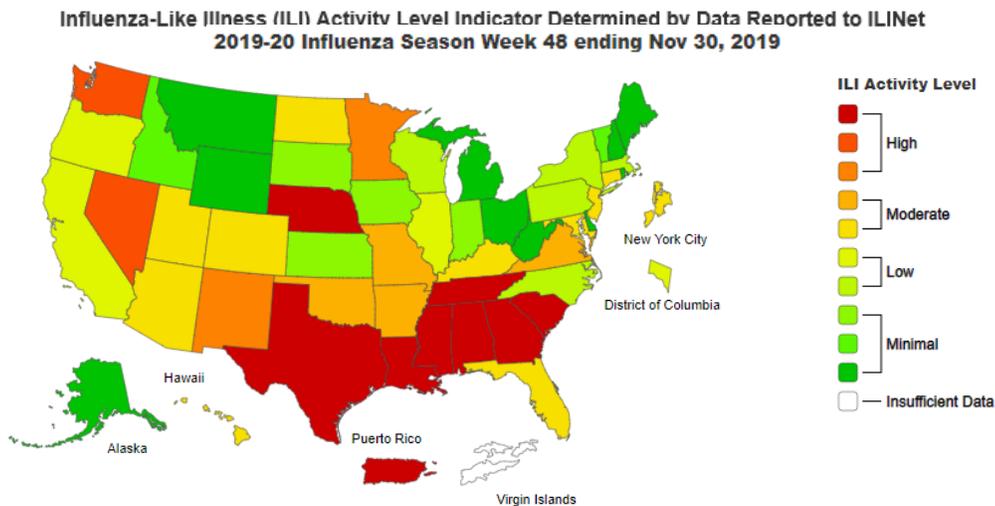
- **Clinical Lab:** 10.2% of respiratory specimens tested by clinical laboratories were positive for influenza viruses. This is higher than the previous week.
- **Public Health Lab:** Nationally, B/Victoria viruses are most common followed by A(H1N1)pdm09 and A(H3N2) viruses, but the predominant virus varies by region and age group.
- **Virus Characterization:** Genetic and antigenic characterization and antiviral susceptibility of viruses collected in the U.S. this season is now being reported.

Illness

- **ILINet Outpatient Illness:** 3.5% of visits to health care providers were for influenza-like illness (ILI). ILI has been at or above the national baseline of 2.4% for four weeks. Nine of 10 regions were at or above their baselines.
- **ILINet Activity Map:** The number of jurisdictions experiencing high ILI activity increased to 13 this week, compared to 8 last week. In addition, 15 jurisdictions had moderate activity compared to 7 last week.
- **Geographic Spread:** The number of jurisdictions reporting regional or widespread activity increased to 24 this week from 15 last week.

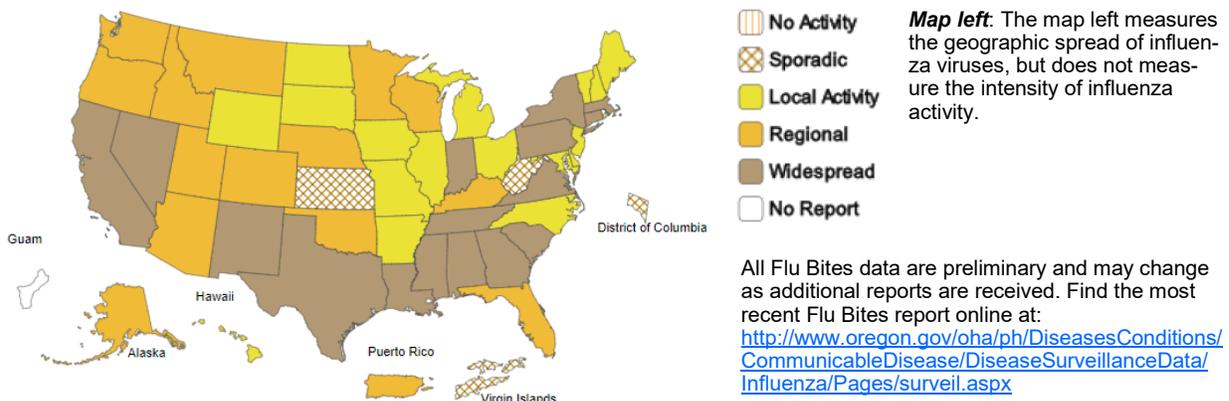
Severe Disease

- **Hospitalizations:** The overall hospitalization rate for the season is 2.7 per 100,000. This is similar to what has been seen at this time during other recent seasons.
- **P&I Mortality:** 4.8% of deaths were attributed to pneumonia and influenza (P&I). This is below the epidemic threshold of 6.4%.
- **Pediatric Deaths:** One new influenza-associated pediatric death occurring during the 2019-2020 season was reported to CDC this week. The total for the season to date is 6.



Map above: This map uses the proportion of outpatient visits to ILINet sentinel providers for influenza-like illness to measure the ILI activity level within a state. It does not, however, measure the extent of geographic spread of flu within a state. Therefore, outbreaks occurring in a single city could cause the state to display high activity levels.

Weekly Influenza Activity Estimates Reported by State and Territorial Epidemiologists Week Ending Nov 30, 2019 - Week 48



Data at a Glance November 17—November 23, 2019 (Week 47)

	Current Week (47)	Previous Week (46)
Percentage of emergency department visits for ILI ¹	1.7%	1.7%
Percentage positive influenza tests ²	10.0%	7.1%
Influenza-associated hospitalizations ³	14	3
Reported influenza outbreaks	0	1
Influenza-associated pediatric mortality	0	0
Respiratory Syncytial Virus (RSV) activity ⁴	3.7%	3.6%

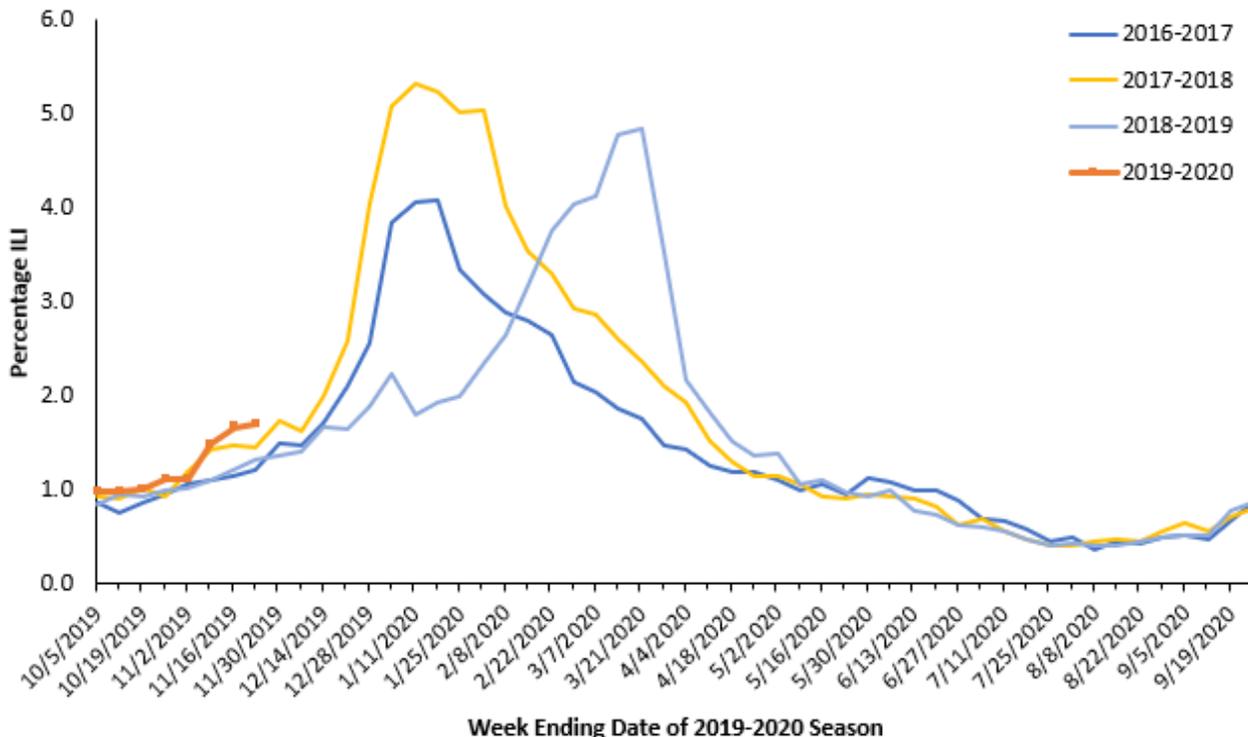
¹Based on Oregon ESSENCE Syndromic Surveillance. Data represent statewide aggregate percent.

²Percent positivity based on data from Oregon reporters to the National Respiratory and Enteric Virus Surveillance System (NREVSS)

³Based on hospitalization surveillance in Clackamas, Multnomah, and Washington counties only.

⁴Percent positivity based on data from Oregon's RSV Laboratory Surveillance System.

Figure 1. Percentage of ED Visits for ILI, Oregon ESSENCE Syndromic Surveillance, 2016–2017, 2017–2018, 2018-2019, 2019-2020



Oregon ESSENCE Syndromic Surveillance: Oregon Public Health tracks hospital emergency department (ED) visits throughout the state using the Oregon ESSENCE syndromic surveillance system. ESSENCE categorizes chief complaints into syndrome categories, which include ILI. Figure 1, above, displays percentages for all of Oregon during this flu season compared with the previous three flu seasons. The percent of ED visits for ILI in all of Oregon was 1.7% during week 47, 2019.

Laboratory Surveillance: The National Respiratory and Enteric Virus Surveillance System (NREVSS) is a laboratory-based system that monitors influenza and other respiratory viruses circulating the United States. More information is at CDC's [website](#).

Table 1 shows the tests conducted and results by region for the current week for influenza in specimens tested at the Oregon laboratories reporting to NREVSS. Figure 2 shows that 10.0% of specimens tested at Oregon labs were positive for influenza during week 47, and the bar chart displays the number of influenza-positive tests by flu type and percent positivity.

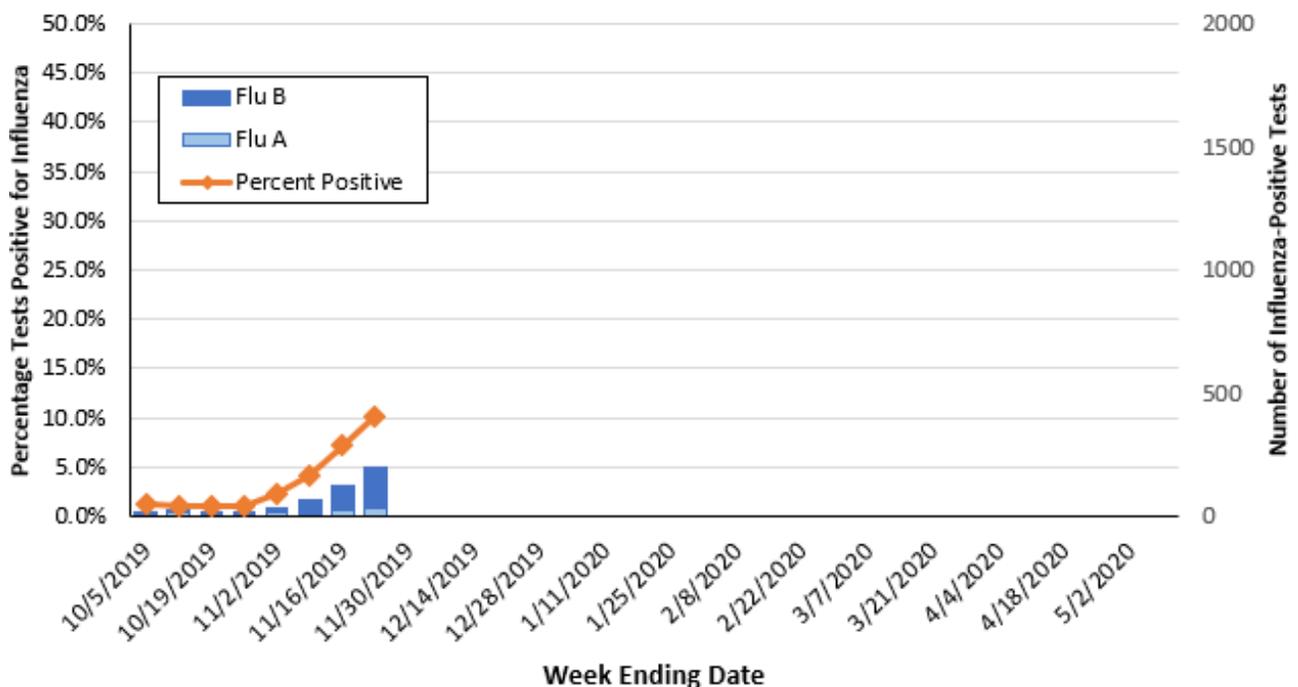
Participation by laboratories is voluntary. Current labs participating in NREVSS in Oregon include:

Legacy Emanuel Hospital and Health Center (Portland, OR), Oregon Health & Science University (Portland, OR), Providence Health (Oregon), Kaiser Permanente (Oregon), Veteran's Administration Hospital (Portland, OR), Bay Area Hospital (Coos Bay, OR), Curry Health Network (Brookings, OR), Mercy Medical Center (Roseburg, OR), Sky Lakes Medical Center (Klamath Falls, OR), Lake Health District, (Lakeview, OR), Rogue Valley Medical Center (SW Oregon), Good Shepherd Medical Center (Hermiston, OR), Mid-Columbia Medical Center (The Dalles, OR), Central Oregon Pediatric Associates (Central Oregon), Harney District Hospital (Burns, OR), St. Charles (Bend, OR), Columbia Memorial Hospital (Astoria, OR), Salem Hospital (Salem, OR), Willamette Valley Medical Center (McMinnville, OR).

Table 1. Influenza Test Results in Oregon by Region, NREVSS, Current Week, 2019–2020 Season

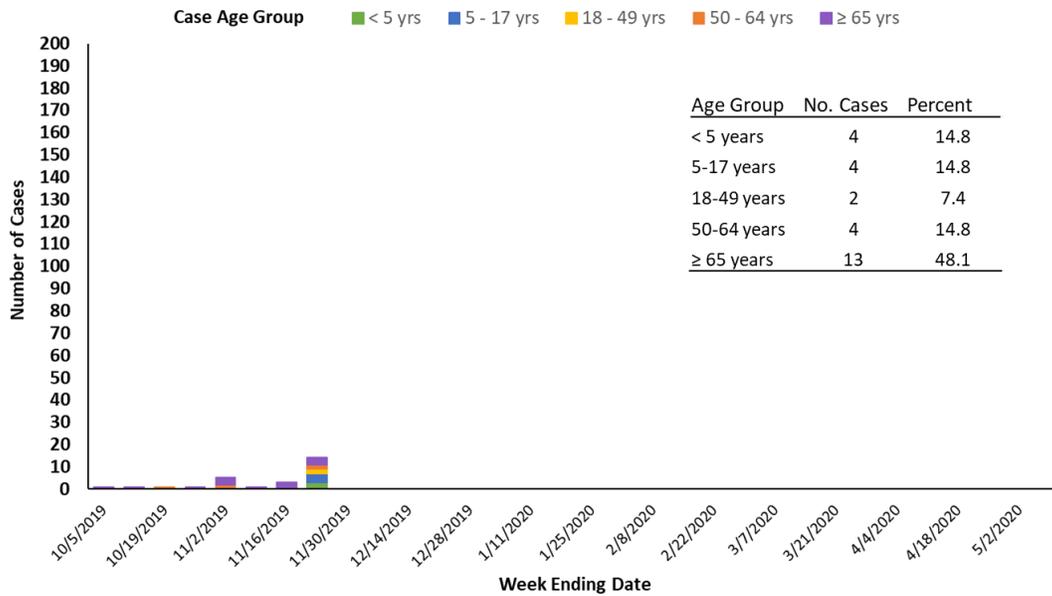
Region	Total Tests	Positive		Flu A		Flu B	
		No.	(%)	No.	(%)	No.	(%)
Portland Metro	1166	143	12.3%	15	10.5%	128	89.5%
Southern Oregon	308	13	4.2%	3	23.1%	10	76.9%
Columbia Gorge	39	2	5.1%	0	0.0%	2	0.0%
Central Oregon	175	20	11.4%	12	60.0%	8	40.0%
Willamette Valley	255	17	0.0%	4	0.0%	13	0.0%
State Total	1943	195	10.0%	34	17.4%	161	82.6%

**Figure 2. Oregon Influenza Laboratory Surveillance
Percent Positive Influenza Tests by Week, NREVSS, 2019-2020 Season**



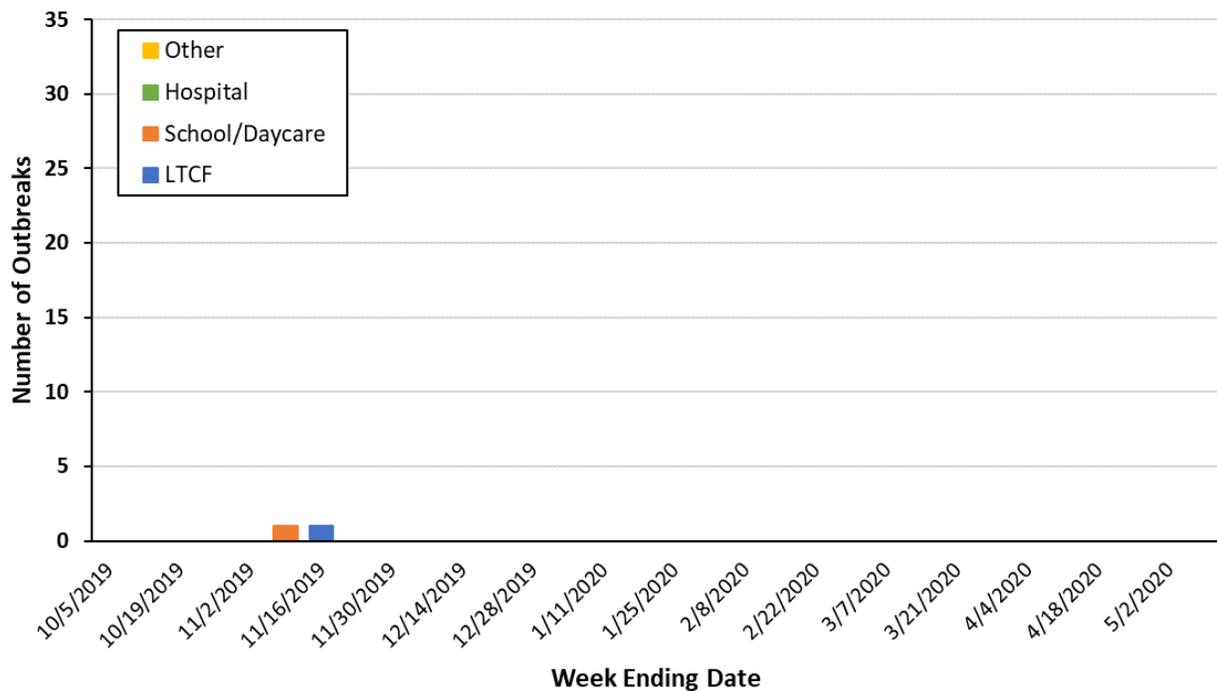
Hospitalizations: In Clackamas, Multnomah, and Washington counties 14 influenza-associated hospitalizations were reported during week 47 of 2019. In total, there have been 27 hospitalizations; 8 (29.6%) were positive for flu A and 19 (70.3%) were positive for flu B. One specimen has been subtyped as flu A H1N1.

Figure 3. Portland Metro Area Influenza-Associated Hospitalizations by Week and Age Group, 2019-2020 Season



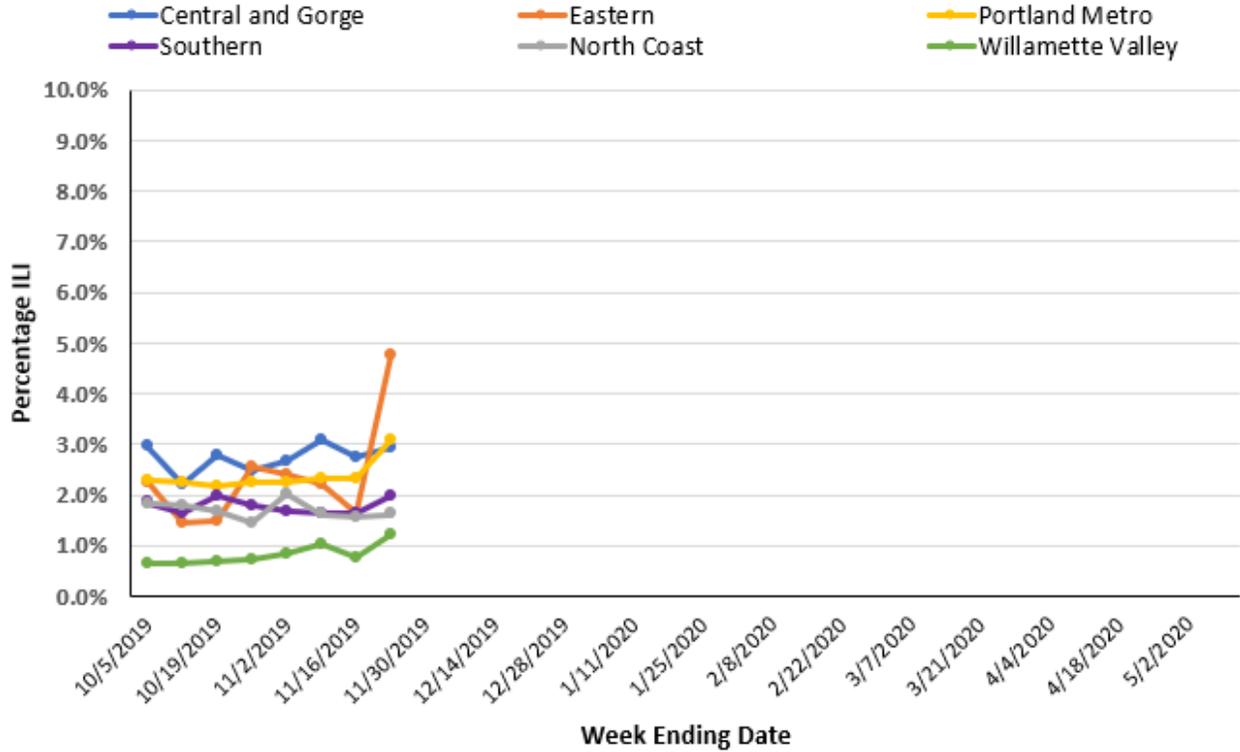
Influenza Outbreaks: There were 0 influenza outbreaks reported during Week 47, 2019. There have been a total of 2 influenza outbreaks reported to the Oregon Health Authority in the 2019—2020 flu season, 1 occurred in a long-term care facility, and the other occurred in a school.

Figure 4. Number of Influenza Outbreaks in Oregon by Setting, 2019-2020 Season



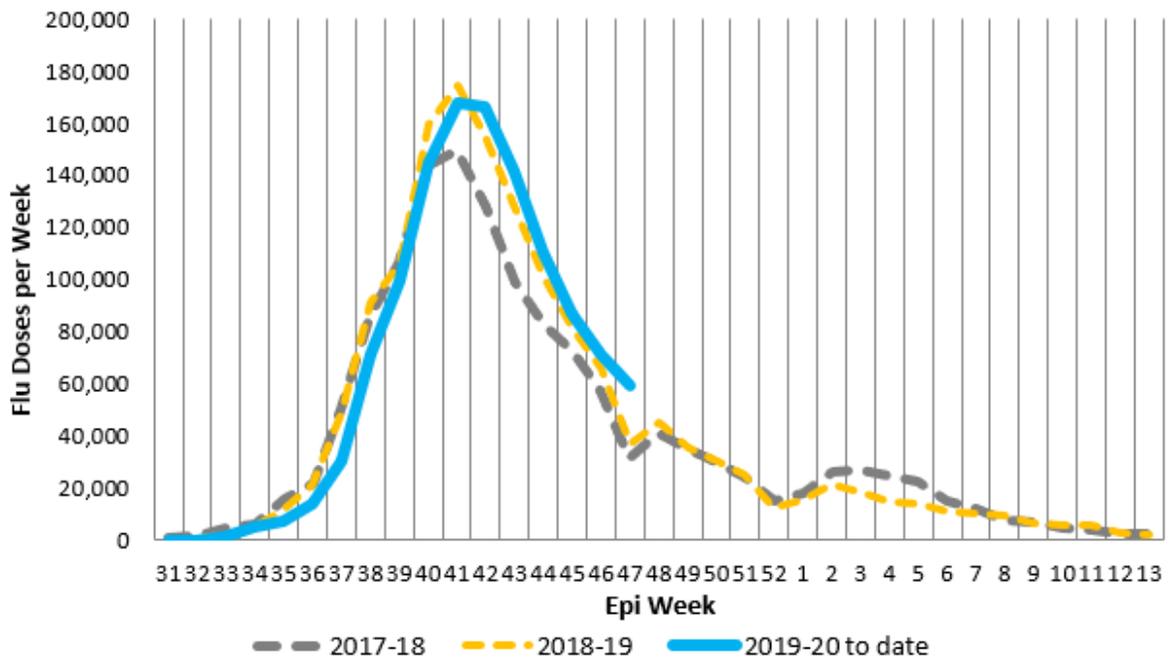
Outpatient Influenza-like Illness Surveillance: Oregon’s outpatient influenza-like illness (ILI) surveillance comprises 17 voluntary reporting outpatient providers, 64 emergency departments and urgent care clinics reporting to ESSENCE, and 180 OCHIN clinics from across Oregon. The percent of outpatients seen with ILI across the state during week 47 of 2019 was 2.5%. Regionally, the percent was highest in the Eastern region (4.7%) and lowest in the Willamette Valley (1.2%).

Figure 5. Percentage of Visits for ILI at Outpatient Clinics & Emergency Departments, by Oregon Region, 2019-2020



Vaccination Information: Weekly influenza immunization reporting is based on ALERT Immunization Information System (ALERT IIS) data through Epiweek 47 of 2019 (November 23rd). The ALERT IIS to date this season has received 1.2 million influenza immunization reports.

Figure 6: 2019/2020 Oregon Flu Vaccine Doses in ALERT IIS by Epiweek



Vaccination Information (continued): Influenza immunization totals in November are running above prior season totals, with less of a drop-off than expected going into Thanksgiving. As a caveat, while most immunizations are reported quickly and electronically to ALERT IIS, some reporting is delayed; current weekly totals will be adjusted upward later.

Figure 7: 2019/2020 Flu Vaccination in ALERT IIS by Epiweek, Cumulative Doses Compared to Last Season

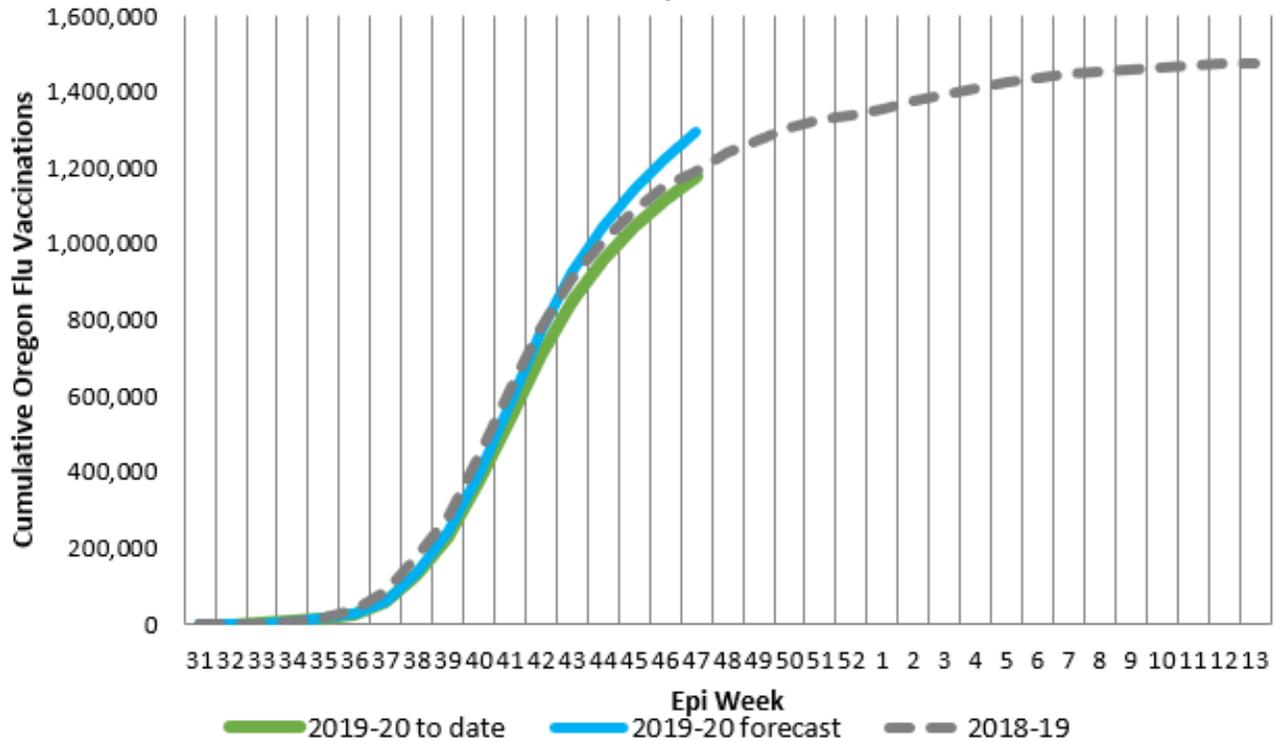
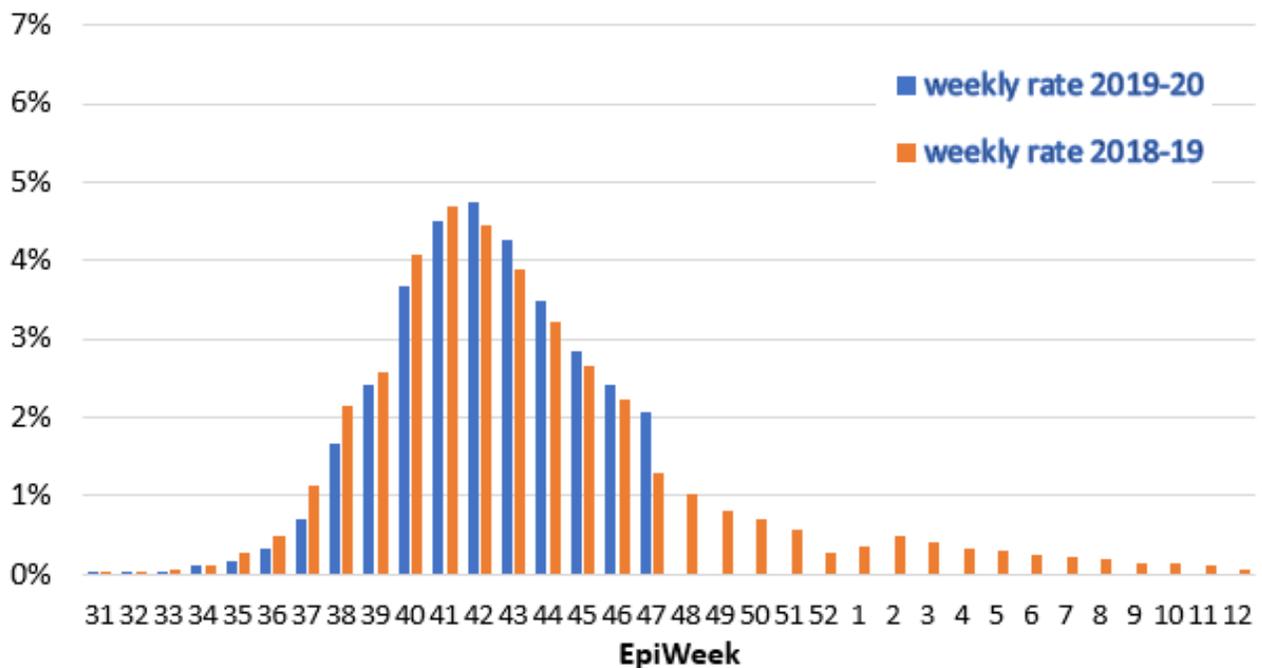


Figure 8: Weekly Influenza Immunization Rate Among Not-Yet Immunized Oregonians, 2019-20 Compared to 2018-19 by Epiweek



Data at a Glance November 10—November 16, 2019 (Week 46)

	Current Week (46)	Previous Week (45)
Percentage of emergency department visits for ILI¹	1.7%	1.5%
Percentage positive influenza tests²	7.1%	4.6%
Influenza-associated hospitalizations³	4	1
Reported influenza outbreaks	1	1
Influenza-associated pediatric mortality	0	0
Respiratory Syncytial Virus (RSV) activity⁴	3.6%	1.3%

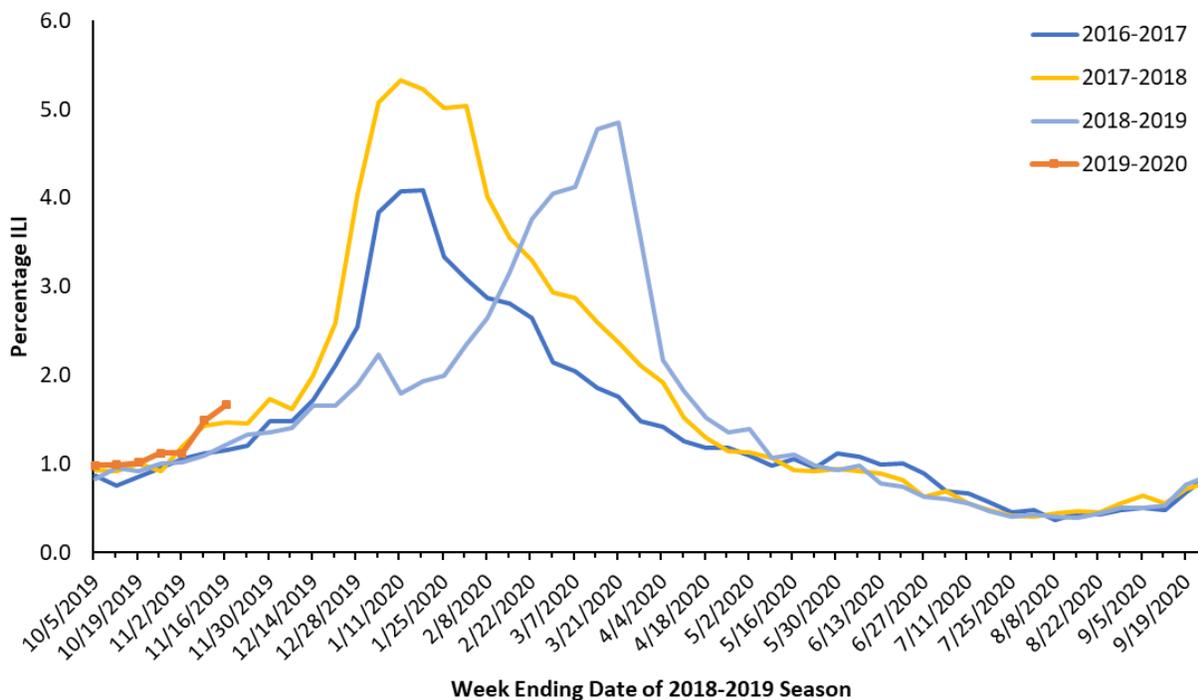
¹Based on Oregon ESSENCE Syndromic Surveillance. Data represent statewide aggregate percent.

²Percent positivity based on data from Oregon reporters to the National Respiratory and Enteric Virus Surveillance System (NREVSS)

³Based on hospitalization surveillance in Clackamas, Multnomah, and Washington counties only.

⁴Percent positivity based on data from Oregon's RSV Laboratory Surveillance System.

Figure 1. Percentage of ED Visits for ILI, Oregon ESSENCE Syndromic Surveillance, 2016–2017, 2017–2018, 2018–2019, 2019–2020



Oregon ESSENCE Syndromic Surveillance: Oregon Public Health tracks hospital emergency department (ED) visits throughout the state using the Oregon ESSENCE syndromic surveillance system. ESSENCE categorizes chief complaints into syndrome categories, which include ILI. Figure 1, above, displays percentages for all of Oregon during this flu season compared with the previous three flu seasons. The percent of ED visits for ILI in all of Oregon was 1.7% during week 46, 2019.

Laboratory Surveillance: The National Respiratory and Enteric Virus Surveillance System (NREVSS) is a laboratory-based system that monitors influenza and other respiratory viruses circulating the United States. More information is at CDC's [website](#).

Table 1 shows the tests conducted and results by region for the current week for influenza in specimens tested at the Oregon laboratories reporting to NREVSS. Figure 2 shows that 7.1% of specimens tested at Oregon labs were positive for influenza during week 46, and the bar chart displays the number of influenza-positive tests by flu type and percent positivity.

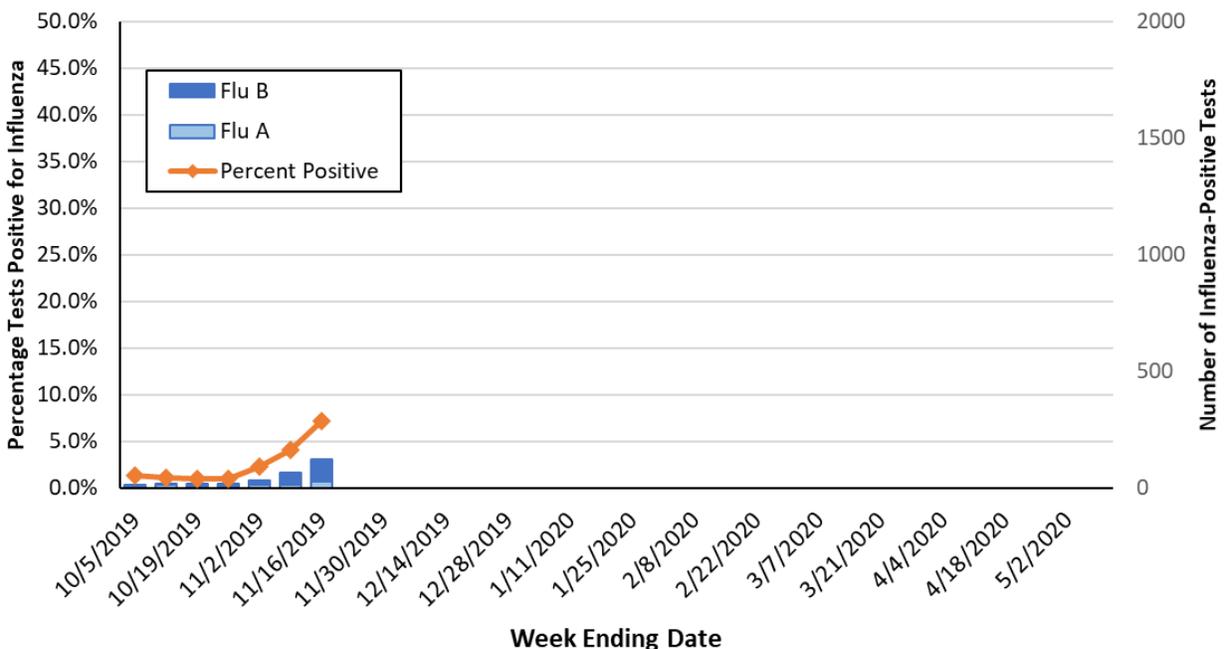
Participation by laboratories is voluntary. Current labs participating in NREVSS in Oregon include:

Legacy Emanuel Hospital and Health Center (Portland, OR), Oregon Health & Science University (Portland, OR), Providence Health (Oregon), Kaiser Permanente (Oregon), Veteran's Administration Hospital (Portland, OR), Bay Area Hospital (Coos Bay, OR), Curry Health Network (Brookings, OR), Mercy Medical Center (Roseburg, OR), Sky Lakes Medical Center (Klamath Falls, OR), Lake Health District, (Lakeview, OR), Rogue Valley Medical Center (SW Oregon), Good Shepherd Medical Center (Hermiston, OR), Mid-Columbia Medical Center (The Dalles, OR), Central Oregon Pediatric Associates (Central Oregon), Harney District Hospital (Burns, OR), St. Charles (Bend, OR), Columbia Memorial Hospital (Astoria, OR), Salem Hospital (Salem, OR), Willamette Valley Medical Center (McMinnville, OR).

Table 1. Influenza Test Results in Oregon by Region, NREVSS, Current Week, 2019–2020 Season

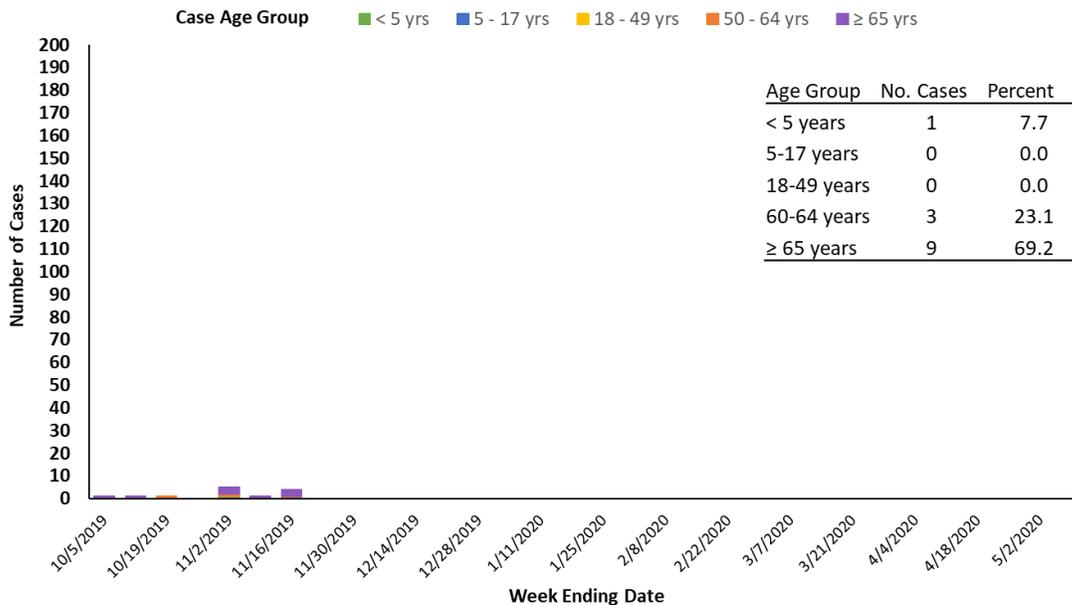
Region	Total Tests	Positive		Flu A		Flu B	
		No.	(%)	No.	(%)	No.	(%)
Portland Metro	1014	89	8.8%	9	10.1%	80	89.9%
Southern Oregon	316	7	2.2%	2	28.6%	5	71.4%
Columbia Gorge	23	2	8.7%	0	0.0%	2	0.0%
Central Oregon	174	18	10.3%	12	66.7%	6	33.3%
Willamette Valley	227	9	0.0%	3	0.0%	6	0.0%
State Total	1754	125	7.1%	26	20.8%	99	79.2%

**Figure 2. Oregon Influenza Laboratory Surveillance
Percent Positive Influenza Tests by Week, NREVSS, 2019-2020 Season**



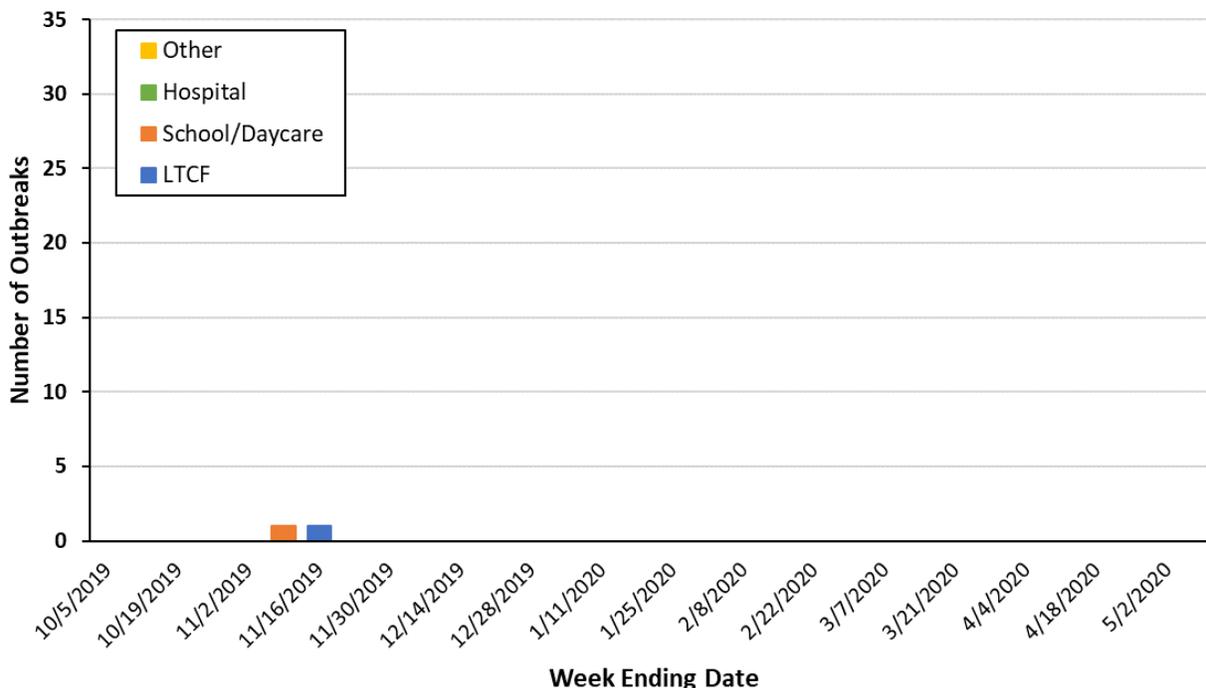
Hospitalizations: In Clackamas, Multnomah, and Washington counties 4 influenza-associated hospitalizations were reported during week 46 of 2019. In total, there have been 13 hospitalizations; 7 were positive for flu A and 6 were positive for flu B. One specimen has been subtyped as H1N1.

Figure 3. Portland Metro Area Influenza-Associated Hospitalizations by Week and Age Group, 2019-2020 Season



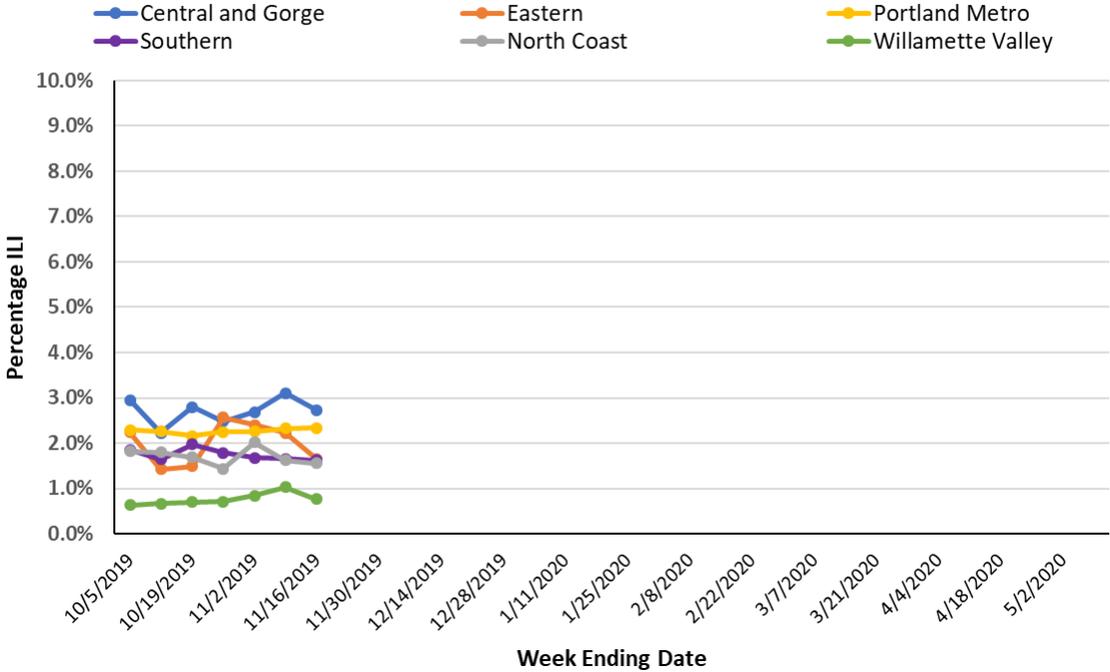
Influenza Outbreaks: There was 1 influenza outbreak reported during Week 46, 2019. There have been a total of 2 influenza outbreaks reported to the Oregon Health Authority in the 2019—2020 flu season, 1 occurred in a long-term care facility, and the other occurred in a school.

Figure 4. Number of Influenza Outbreaks in Oregon by Setting, 2019-2020 Season



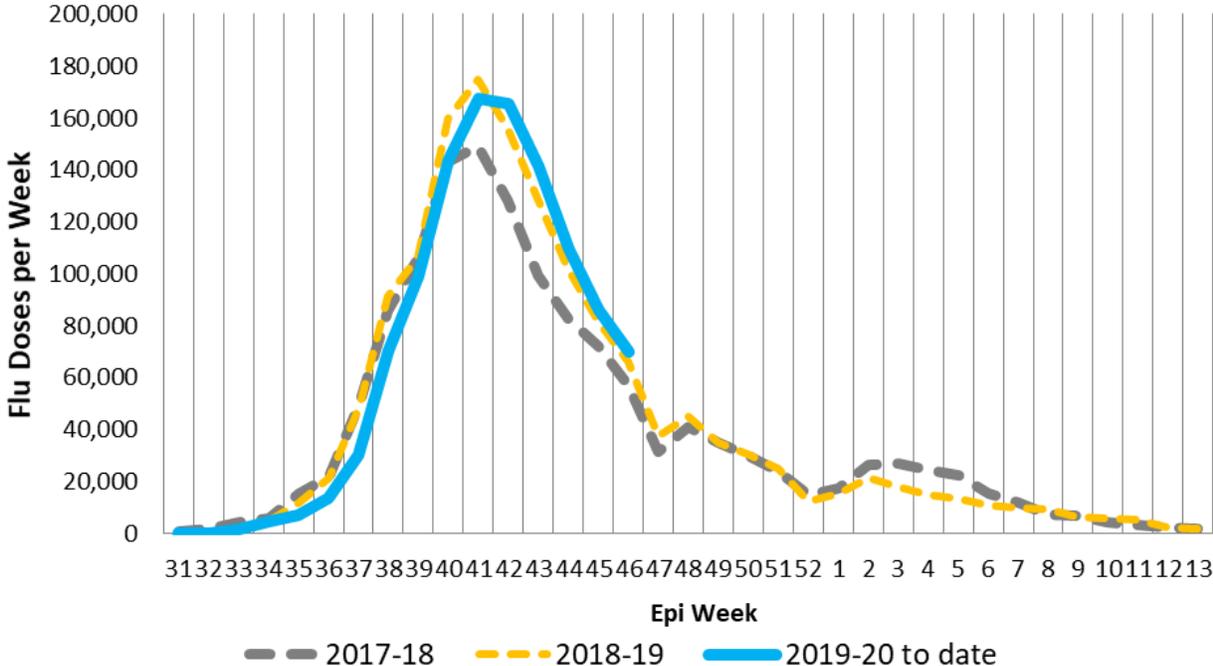
Outpatient Influenza-like Illness Surveillance: Oregon’s outpatient influenza-like illness (ILI) surveillance comprises 17 voluntary reporting outpatient providers, 64 emergency departments and urgent care clinics reporting to ESSENCE, and 179 OCHIN clinics from across Oregon. The percent of outpatients seen with ILI across the state during week 46 of 2019 was 1.9%. Regionally, the percent was highest in the Central and Gorge region (2.7%) and lowest in the Willamette Valley (0.8%).

Figure 5. Percentage of Visits for ILI at Outpatient Clinics & Emergency Departments, by Oregon Region, 2019-2020



Vaccination Information: Weekly influenza immunization reporting is based on ALERT Immunization Information System (ALERT IIS) data through Epiweek 46 of 2019 (November 16th). The ALERT IIS to date this season has received over 1.1 million influenza immunization reports (Figure 7).

Figure 6. 2019-2020 Oregon Flu Vaccine Doses in ALERT IIS by Epiweek



Vaccination Information (continued): It is typical that influenza immunization seeking will drop off from Thanksgiving onward (see Figure 8). During October of 2019, on average, every week 4.2% of all Oregonians who had not yet gotten an influenza immunization got one. In contrast, the average weekly rate among Oregonians who were not yet immunized last season in October was 4.1%; with a November weekly average rate of 1.5%; and a December weekly average rate of only 0.5%. As a caveat, while most immunizations are reported quickly and electronically to ALERT IIS, some reporting is delayed- current weekly totals will be adjusted upward later.

Figure 7. 2019-2020 Flu Vaccination in ALERT IIS by Epiweek, Cumulative Doses Compared to Last Season

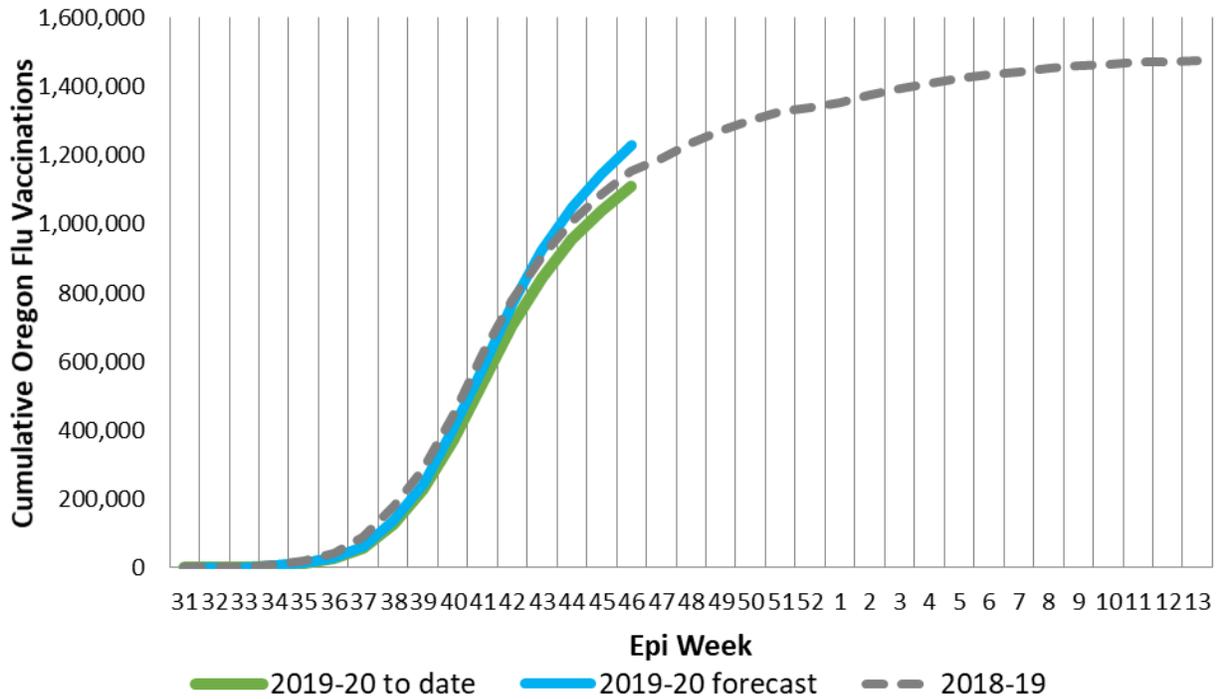
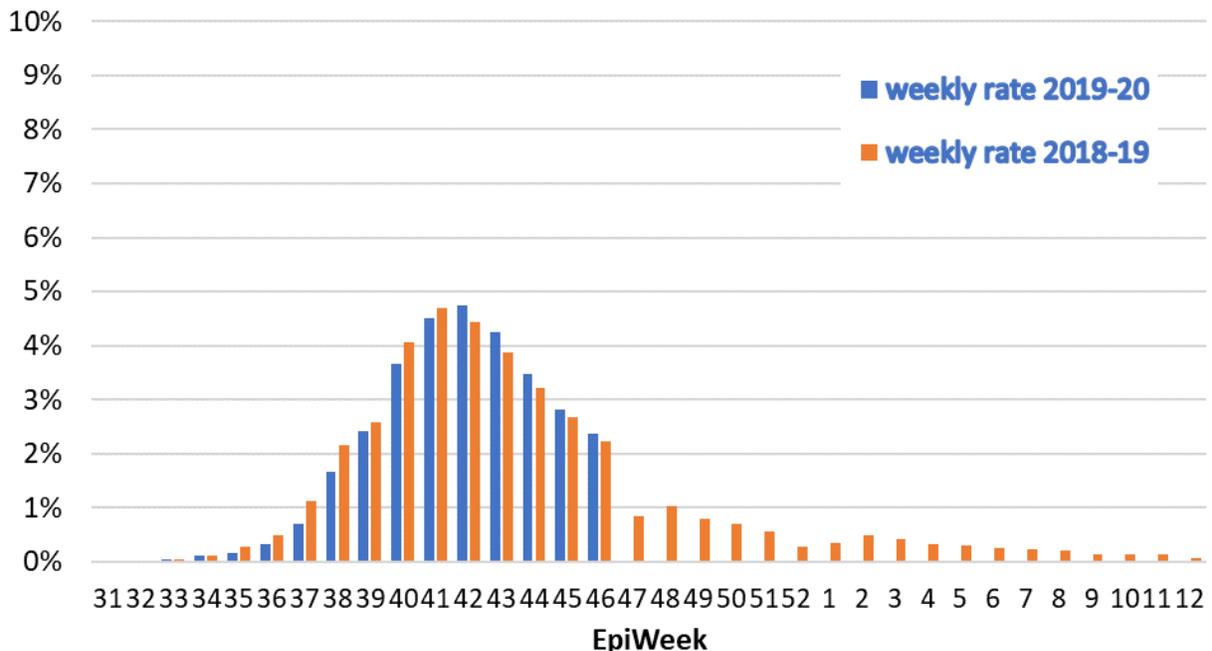


Figure 8. Weekly Influenza Immunization Rate Among Not-Yet Immunized Oregonians, 2019-20 and 2018-19 by Epiweek



Data at a Glance November 3—November 9, 2019 (Week 45)

	Current Week (45)	Previous Week (44)
Percentage of emergency department visits for ILI ¹	1.5%	1.1%
Percentage positive influenza tests ²	4.6%	2.4%
Influenza-associated hospitalizations ³	1	4
Reported influenza outbreaks	0	0
Influenza-associated pediatric mortality	0	0
Respiratory Syncytial Virus (RSV) activity ⁴	1.3%	1.4%

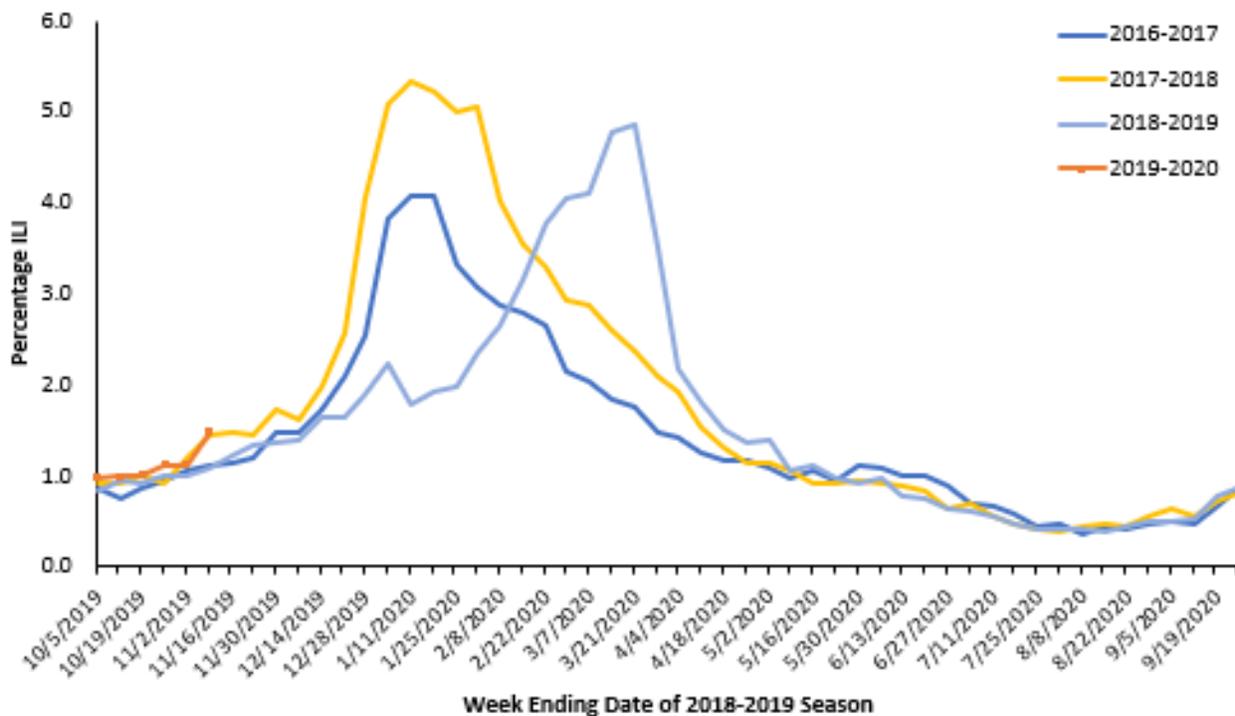
¹Based on Oregon ESSENCE Syndromic Surveillance. Data represent statewide aggregate percent.

²Percent positivity based on data from Oregon reporters to the National Respiratory and Enteric Virus Surveillance System (NREVSS)

³Based on hospitalization surveillance in Clackamas, Multnomah, and Washington counties only.

⁴Percent positivity based on data from Oregon's RSV Laboratory Surveillance System.

Figure 1. Percentage of ED Visits for ILI, Oregon ESSENCE Syndromic Surveillance, 2016–2017, 2017–2018, 2018–2019, 2019–2020



Oregon ESSENCE Syndromic Surveillance: Oregon Public Health tracks hospital emergency department (ED) visits throughout the state using the Oregon ESSENCE syndromic surveillance system. ESSENCE categorizes chief complaints into syndrome categories, which include ILI. Figure 1, above, displays percentages for all of Oregon during this flu season compared with the previous three flu seasons. The percent of ED visits for ILI in all of Oregon was 1.5% during week 45, 2019.

Laboratory Surveillance: The National Respiratory and Enteric Virus Surveillance System (NREVSS) is a laboratory-based system that monitors influenza and other respiratory viruses circulating the United States. More information is at CDC’s [website](#).

Table 1 shows the tests conducted and results by region for the current week for influenza in specimens tested at the Oregon laboratories reporting to NREVSS. Figure 2 shows that 4.6% of specimens tested at Oregon labs were positive for influenza during week 45, and the bar chart displays the number of influenza-positive tests by flu type and percent positivity.

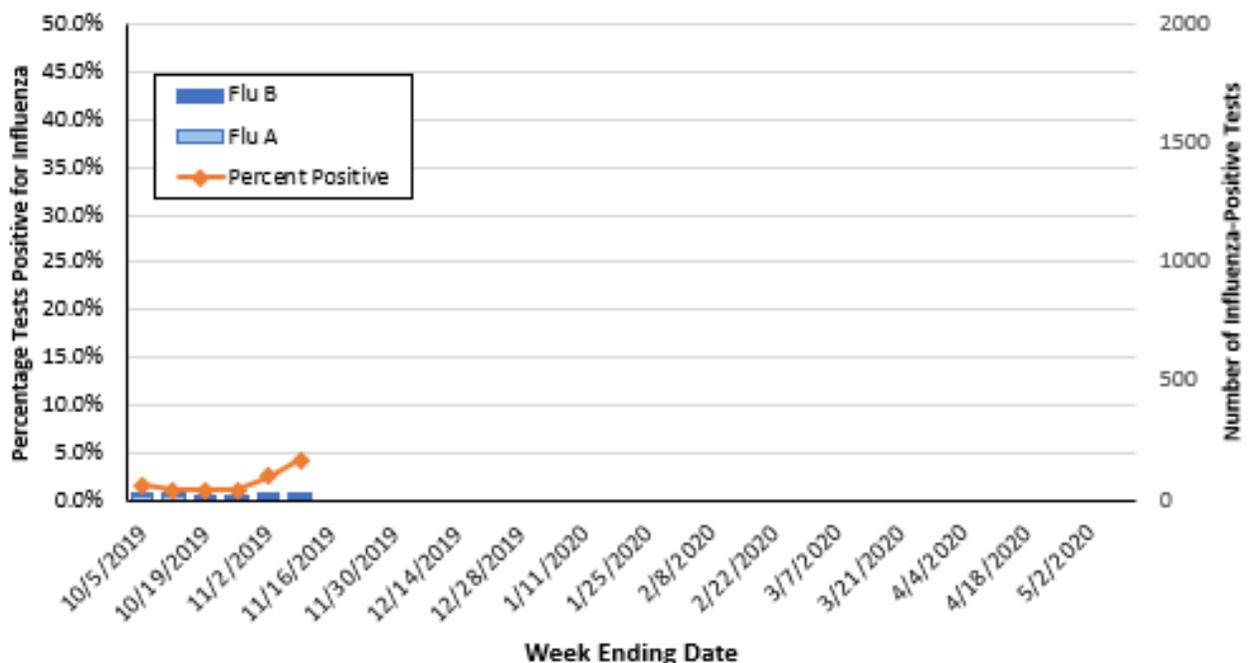
Participation by laboratories is voluntary. Current labs participating in NREVSS in Oregon include:

Legacy Emanuel Hospital and Health Center (Portland, OR), Oregon Health & Science University (Portland, OR), Providence Health (Oregon), Kaiser Permanente (Oregon), Veteran’s Administration Hospital (Portland, OR), Bay Area Hospital (Coos Bay, OR), Curry Health Network (Brookings, OR), Mercy Medical Center (Roseburg, OR), Sky Lakes Medical Center (Klamath Falls, OR), Lake Health District, (Lakeview, OR), Rogue Valley Medical Center (SW Oregon), Good Shepherd Medical Center (Hermiston, OR), Mid-Columbia Medical Center (The Dalles, OR), Central Oregon Pediatric Associates (Central Oregon), Harney District Hospital (Burns, OR), St. Charles (Bend, OR), Columbia Memorial Hospital (Astoria, OR), Salem Hospital (Salem, OR), Willamette Valley Medical Center (McMinnville, OR).

Table 1. Influenza Test Results in Oregon by Region, NREVSS, Current Week, 2019–2020 Season

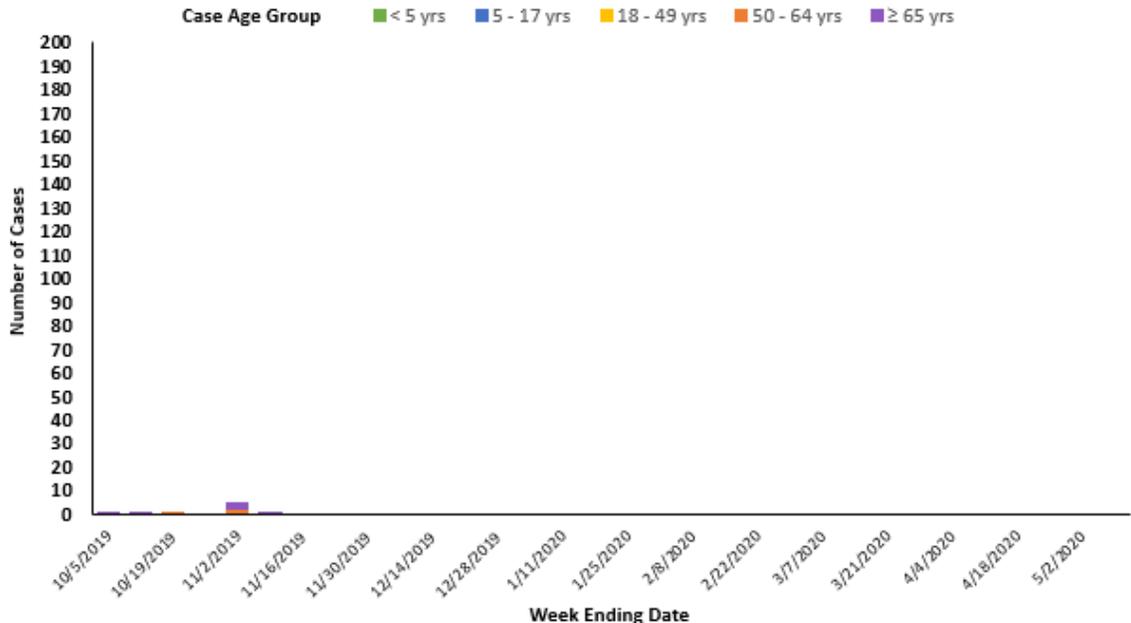
Region	Total Tests	Positive		Flu A		Flu B	
		No.	(%)	No.	(%)	No.	(%)
Portland Metro	720	42	5.8%	7	16.7%	35	83.3%
Southern Oregon	280	4	1.4%	0	0.0%	4	100.0%
Columbia Gorge	30	0	0.0%	0	0.0%	0	0.0%
Central Oregon	170	10	5.9%	5	50.0%	5	50.0%
Willamette Valley	29	0	0.0%	0	0.0%	0	0.0%
State Total	1229	56	4.6%	12	21.4%	44	78.6%

**Figure 2. Oregon Influenza Laboratory Surveillance
Percent Positive Influenza Tests by Week, NREVSS, 2019-2020 Season**



Hospitalizations: In Clackamas, Multnomah, and Washington counties 1 influenza-associated hospitalization was reported during week 45 of 2019. In total, there have been 10 hospitalizations; 7 of which were positive for flu A and 3 of which were positive for flu B. One specimen has been subtyped as H1N1.

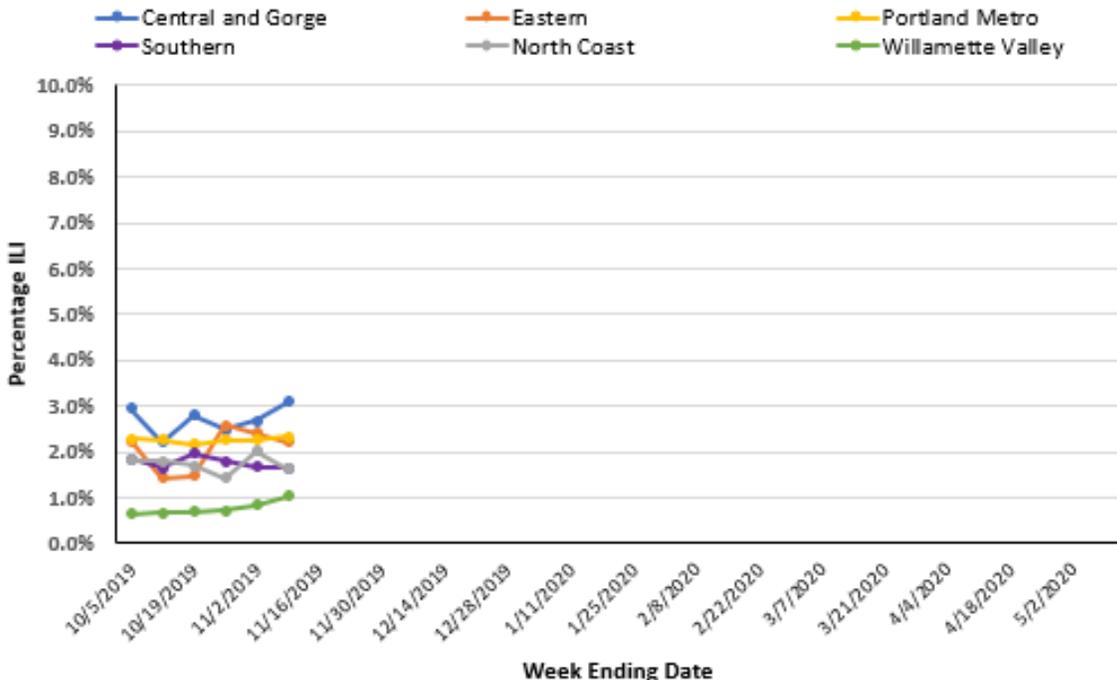
Figure 3. Portland Metro Area Influenza-Associated Hospitalizations by Week and Age Group, 2019-2020 Season



Influenza Outbreaks: There were 0 influenza outbreaks reported to the Oregon Health Authority during Week 45, 2019.

Outpatient Influenza-like Illness Surveillance: Oregon’s outpatient influenza-like illness (ILI) surveillance comprises 17 voluntary reporting outpatient providers, 64 emergency departments and urgent care clinics reporting to ESSENCE, and 180 OCHIN clinics from across Oregon. The percent of outpatients seen with ILI across the state during week 45 of 2019 was 2.0%. Regionally, the percent was highest in the Central and Gorge region (3.1%) and lowest in the Willamette Valley (1.0%).

Figure 4. Percentage of Visits for ILI at Outpatient Clinics & Emergency Departments, by Oregon Region, 2019-2020



Vaccination Information: Weekly influenza immunization reporting is based on ALERT Immunization Information System (ALERT IIS) data through Epiweek 45 of 2019 (November 9th). So far, the patterns of influenza immunization reported to ALERT IIS are a close match to last season. A comparison of statewide total immunization volume reported to ALERT IIS this season versus last season's total immunization volume at this time of year shows no change. Based on this, state-wide, we are likely to see a repeat of last season's 45% immunization rate for influenza. However, there are differences in immunization volume on a county level: Fewer influenza immunizations have been reported this season compared to last season for residents of Tillamook (16% decrease), Morrow (15% decrease), Union (11% decrease), Lake (8% decrease), Harney (8% decrease), and Baker (8% decrease) counties. Other counties are showing increases in influenza immunization this season compared to last season, including Clatsop and Malheur counties (each with a 6% increase). Counties not named above all have numbers of total influenza immunizations that are within +/- 5% of last year's numbers, indicating little change either up or down to date. As a caveat, while most immunizations are reported quickly and electronically to ALERT IIS, some reporting is delayed; current weekly totals will be adjusted upward later.

Figure 5: 2019/2020 Oregon Flu Vaccine Doses in ALERT IIS by Epiweek

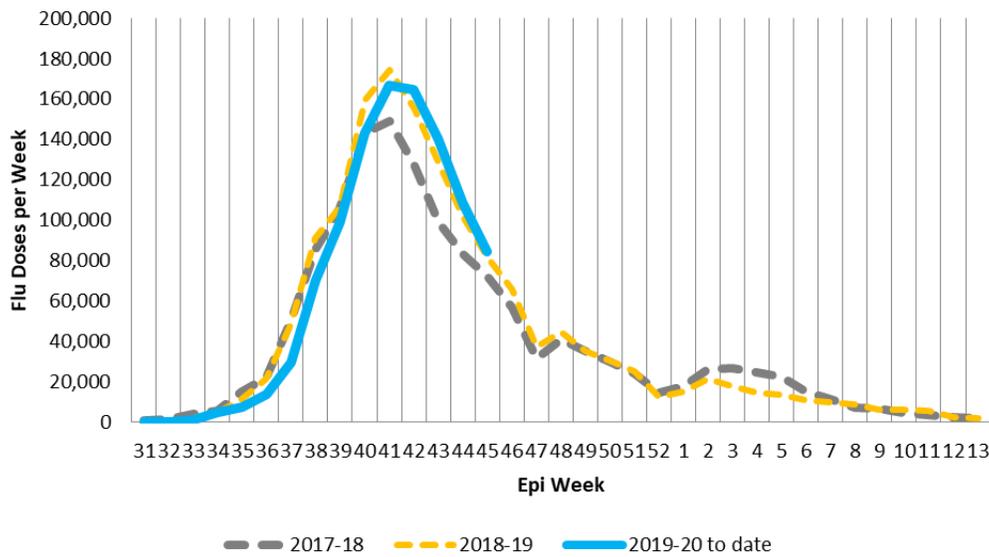
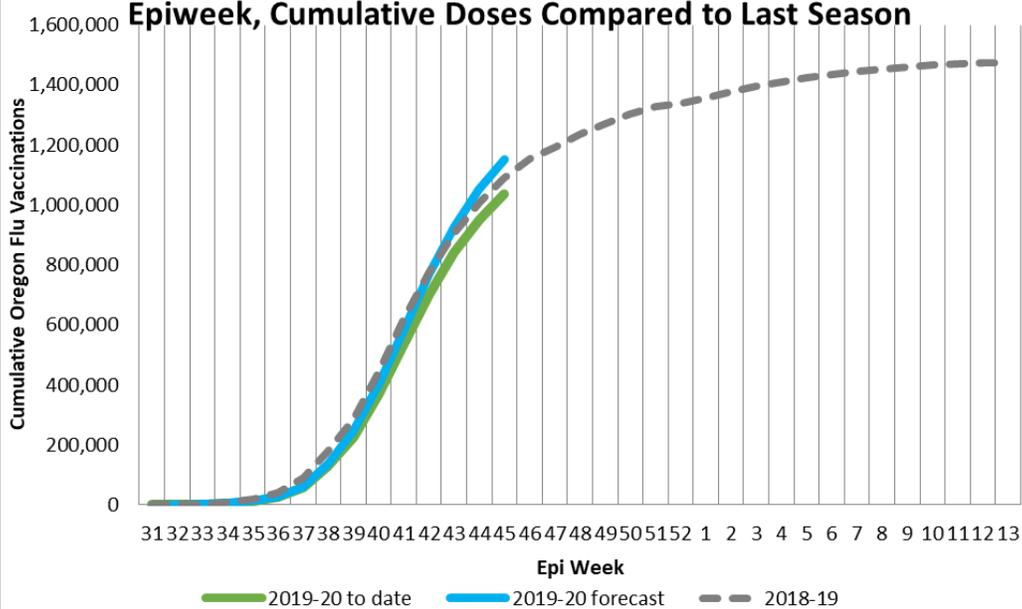


Figure 6: 2019/2020 Flu Vaccination in ALERT IIS by Epiweek, Cumulative Doses Compared to Last Season



US Data (from CDC FluView): According to this week's FluView report, seasonal influenza activity in the United States is increasing.

Viruses

- **Clinical Lab:** Due to technical issues, data from clinical laboratories are not available this week.
- **Public Health Lab:** Nationally, B/Victoria viruses are predominant; however, A(H3N2) and A(H1N1) pdm09 viruses are also circulating widely. The predominant virus varies by region and age.
- **Virus Characterization:** Data for this season will be reported when a sufficient number of viruses have been characterized. Virus characterization data through September 28 is available.

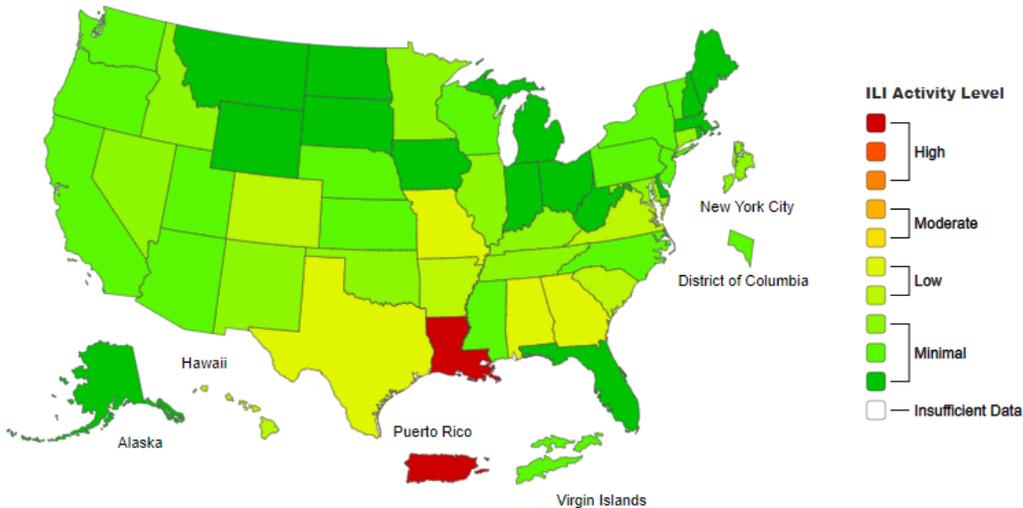
Illness

- **ILINet Outpatient Illness:** 2.3% of visits to a health care provider were for influenza-like illness (ILI). Nationally, ILI was below the baseline (2.4%); however, 4 of 10 regions were at or above their baselines.
- **ILINet Activity Map:** The majority of jurisdictions experienced minimal ILI activity; however, Louisiana experienced high ILI activity and 14 jurisdictions experienced moderate or low ILI activity.
- **Geographic Spread:** The majority of jurisdictions reported sporadic or local activity. Ten states reported regional or widespread activity, and one state reported no activity.

Severe Disease

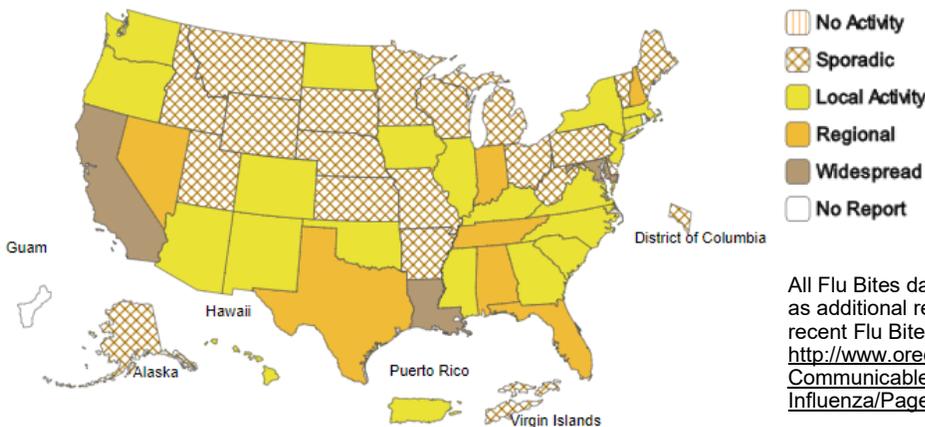
- **Hospitalizations:** Data for this season will be provided when a sufficient number of hospitalizations have been reported.
- **P&I Mortality:** 4.9% of deaths were attributed to pneumonia and influenza (P&I). This is below the epidemic threshold of 6.0%.
- **Pediatric Deaths:** One new influenza-associated pediatric death occurring during the 2019-2020 season was reported to CDC this week. The total for the season is 3.

**Influenza-Like Illness (ILI) Activity Level Indicator Determined by Data Reported to ILINet
2019-20 Infection Season Week 44 ending Nov 02, 2019**



Map above: This map uses the proportion of outpatient visits to ILINet sentinel providers for influenza-like illness to measure the ILI activity level within a state. It does not, however, measure the extent of geographic spread of flu within a state. Therefore, outbreaks occurring in a single city could cause the state to display high activity levels.

**Weekly Influenza Activity Estimates Reported by State and Territorial Epidemiologists
Week Ending Nov 09, 2019 - Week 45**



Map left: The map left measures the geographic spread of influenza viruses, but does not measure the intensity of influenza activity.

All Flu Bites data are preliminary and may change as additional reports are received. Find the most recent Flu Bites report online at:
<http://www.oregon.gov/oha/ph/DiseasesConditions/CommunicableDisease/DiseaseSurveillanceData/Influenza/Pages/surveil.aspx>

Data at a Glance October 27—November 2, 2019 (Week 44)

	Current Week (44)	Previous Week (43)
Percentage of emergency department visits for ILI¹	1.1%	1.1%
Percentage positive influenza tests²	2.4%	1.0%
Influenza-associated hospitalizations³	4	0
Reported influenza outbreaks	0	0
Influenza-associated pediatric mortality	0	0
Respiratory Syncytial Virus (RSV) activity⁴	1.4%	1.1%

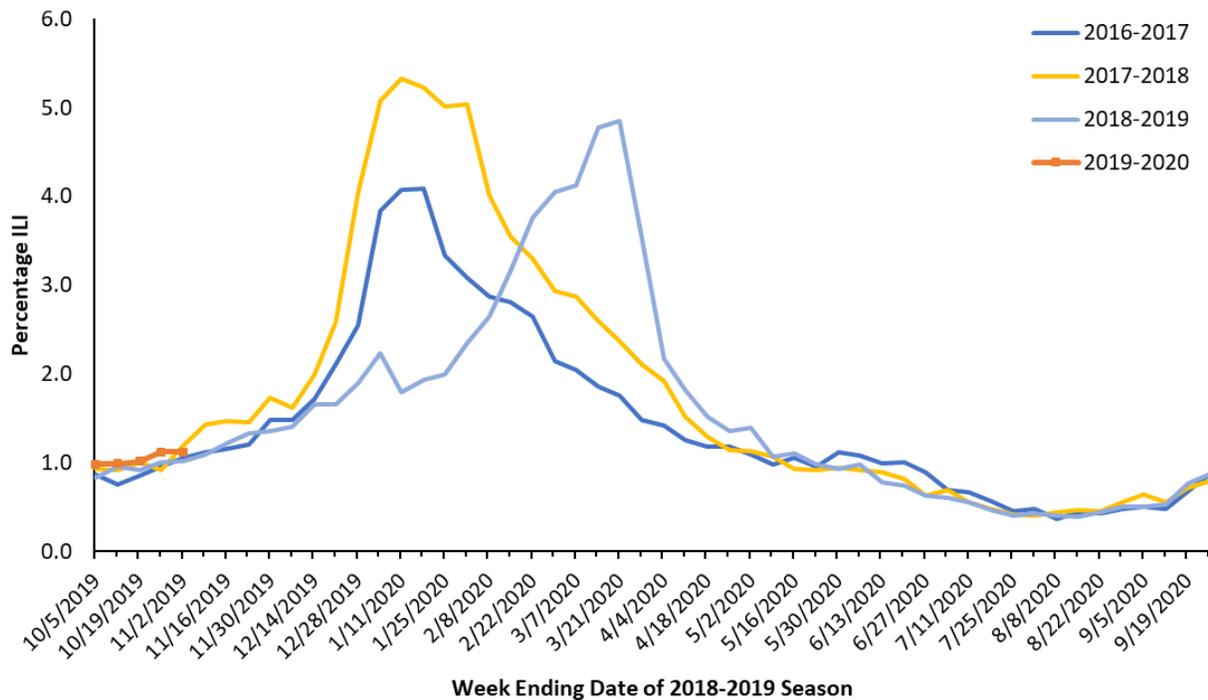
¹Based on Oregon ESSENCE Syndromic Surveillance. Data represent statewide aggregate percent.

²Percent positivity based on data from Oregon reporters to the National Respiratory and Enteric Virus Surveillance System (NREVSS)

³Based on hospitalization surveillance in Clackamas, Multnomah, and Washington counties only.

⁴Percent positivity based on data from Oregon's RSV Laboratory Surveillance System.

Figure 1. Percentage of ED Visits for ILI, Oregon ESSENCE Syndromic Surveillance, 2016–2017, 2017–2018, 2018–2019, 2019–2020



Oregon ESSENCE Syndromic Surveillance: Oregon Public Health tracks hospital emergency department (ED) visits throughout the state using the Oregon ESSENCE syndromic surveillance system. ESSENCE categorizes chief complaints into syndrome categories, which include ILI. Figure 1, above, displays percentages for all of Oregon during this flu season compared with the previous three flu seasons. The percent of ED visits for ILI in all of Oregon was 1.1% during week 44, 2019.

Laboratory Surveillance: The National Respiratory and Enteric Virus Surveillance System (NREVSS) is a laboratory-based system that monitors influenza and other respiratory viruses circulating the United States. More information is at CDC's [website](#).

Table 1 shows the tests conducted and results by region for the current week for influenza in specimens tested at the Oregon laboratories reporting to NREVSS. Figure 2 shows that 2.4% of specimens tested at Oregon labs were positive for influenza during week 44, and the bar chart displays the number of influenza-positive tests by flu type and percent positivity.

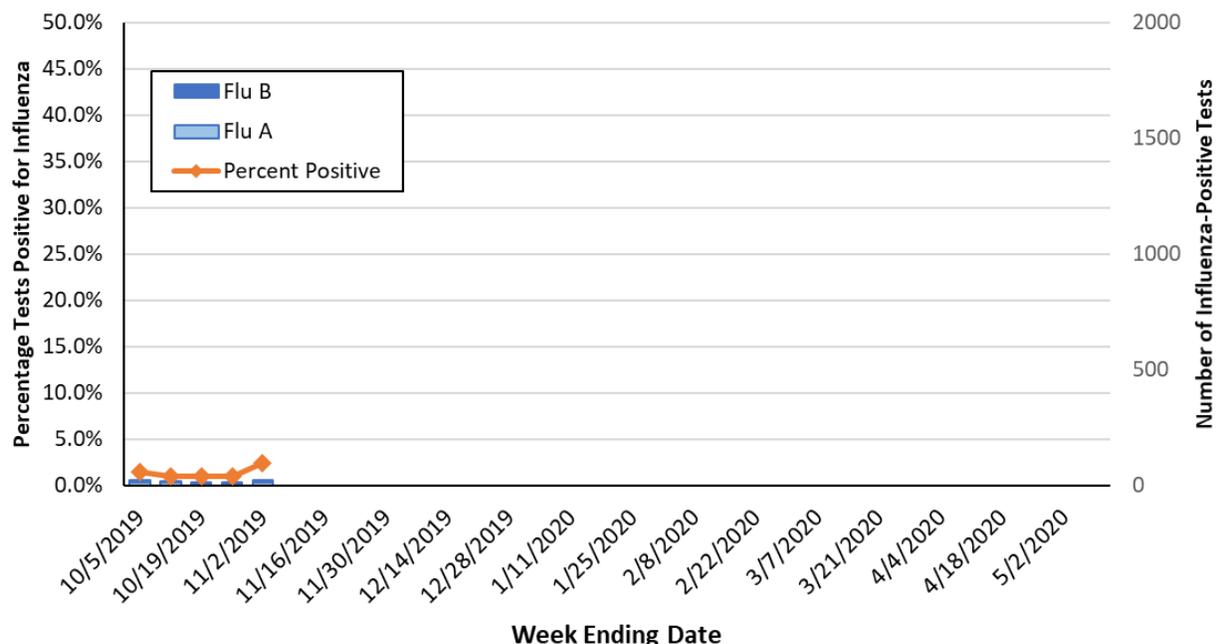
Participation by laboratories is voluntary. Current labs participating in NREVSS in Oregon include:

Legacy Emanuel Hospital and Health Center (Portland, OR), Oregon Health & Science University (Portland, OR), Providence Health (Oregon), Kaiser Permanente (Oregon), Veteran's Administration Hospital (Portland, OR), Bay Area Hospital (Coos Bay, OR), Curry Health Network (Brookings, OR), Mercy Medical Center (Roseburg, OR), Sky Lakes Medical Center (Klamath Falls, OR), Lake Health District, (Lakeview, OR), Rogue Valley Medical Center (SW Oregon), Good Shepherd Medical Center (Hermiston, OR), Mid-Columbia Medical Center (The Dalles, OR), Central Oregon Pediatric Associates (Central Oregon), Harney District Hospital (Burns, OR), St. Charles (Bend, OR), Columbia Memorial Hospital (Astoria, OR), Salem Hospital (Salem, OR), Willamette Valley Medical Center (McMinnville, OR).

Table 1. Influenza Test Results in Oregon by Region, NREVSS, Current Week, 2019–2020 Season

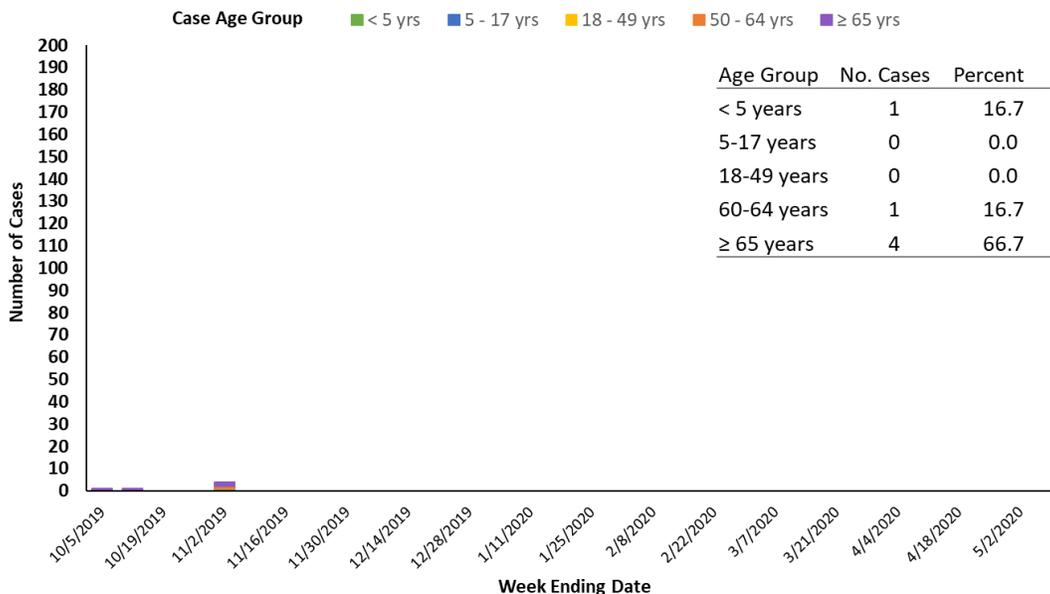
Region	Total Tests	Positive		Flu A		Flu B	
		No.	(%)	No.	(%)	No.	(%)
Portland Metro	344	12	3.5%	6	50.0%	6	50.0%
Southern Oregon	242	3	1.2%	2	66.7%	1	33.3%
Columbia Gorge	17	0	0.0%	0	0.0%	0	0.0%
Central Oregon	121	2	1.7%	2	100.0%	0	0.0%
Willamette Valley	184	5	2.7%	1	20.0%	4	80.0%
State Total	908	22	2.4%	11	50.0%	11	50.0%

**Figure 2. Oregon Influenza Laboratory Surveillance
Percent Positive Influenza Tests by Week, NREVSS, 2019-2020 Season**



Hospitalizations: In Clackamas, Multnomah, and Washington counties 4 influenza-associated hospitalizations were reported during week 44 of 2019. In total, there have been 6 hospitalizations; 4 were subtyped as flu A and two as flu B.

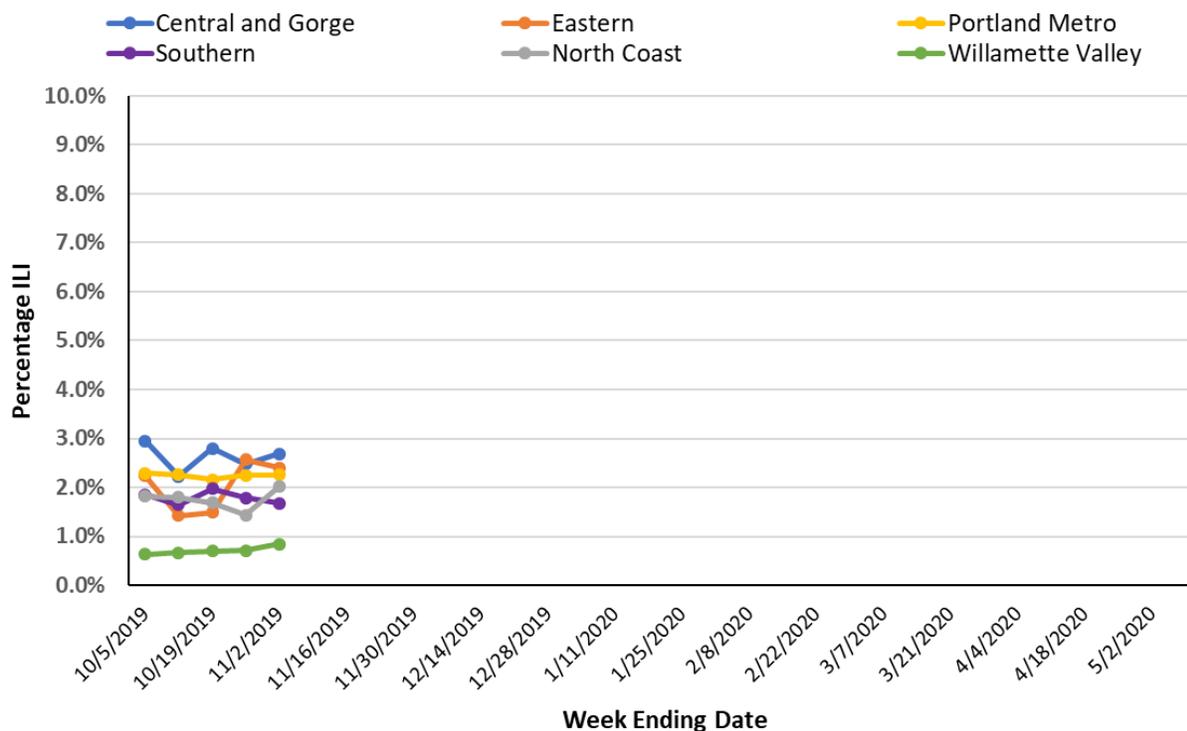
Figure 3. Portland Metro Area Influenza-Associated Hospitalizations by Week and Age Group, 2019-2020 Season



Influenza Outbreaks: There were 0 influenza outbreaks reported to the Oregon Health Authority during Week 44, 2019.

Outpatient Influenza-like Illness Surveillance: Oregon’s outpatient influenza-like illness (ILI) surveillance comprises 17 voluntary reporting outpatient providers, 64 emergency departments and urgent care clinics reporting to ESSENCE, and 180 OCHIN clinics from across Oregon. The percent of outpatients seen with ILI across the state during week 44 of 2019 was 1.9%. Regionally, the percent was highest in the Central and Gorge region (2.7%) and lowest in the Willamette Valley (0.8%).

Figure 4. Percentage of Visits for ILI at Outpatient Clinics & Emergency Departments, by Oregon Region, 2019-2020



Vaccination Information: Weekly influenza immunization reporting is based on ALERT Immunization Information System (ALERT IIS) data through Epiweek 44 of 2019 (November 2nd). To date, over a million influenza immunizations have been reported to ALERT IIS. As we move into November, the weekly total of new influenza immunizations is declining, and is a close match to the pattern of previous seasons. As a caveat, while most immunizations are reported quickly and electronically to ALERT IIS, some reporting is delayed – current weekly totals will be adjusted upward later.

Figure 5. 2019/2020 Oregon Flu Vaccine Doses in ALERT IIS by Epiweek

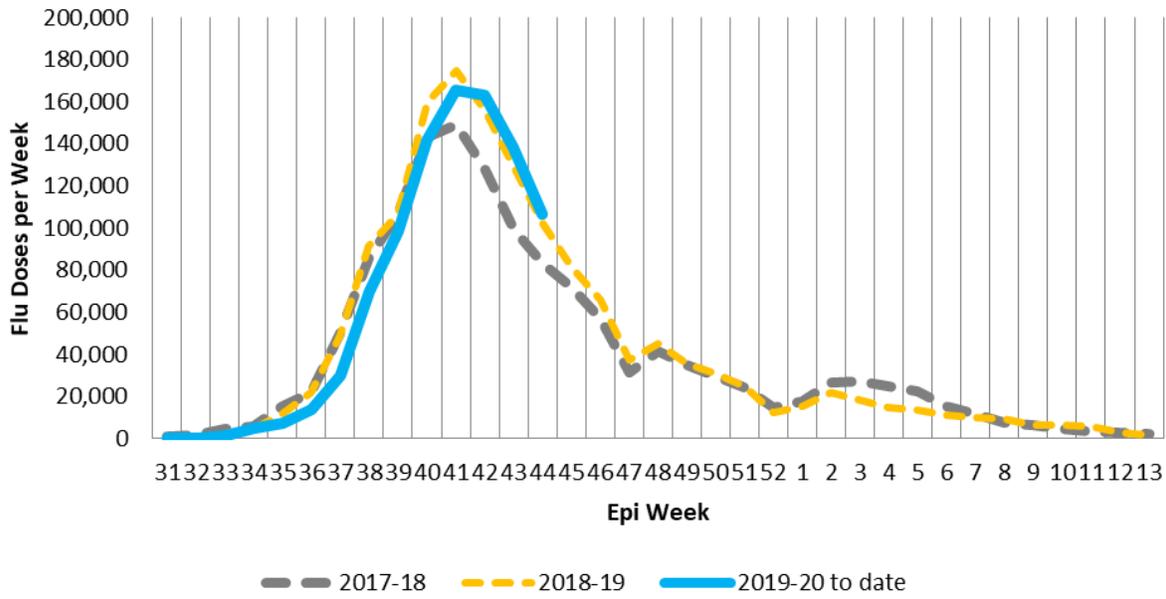
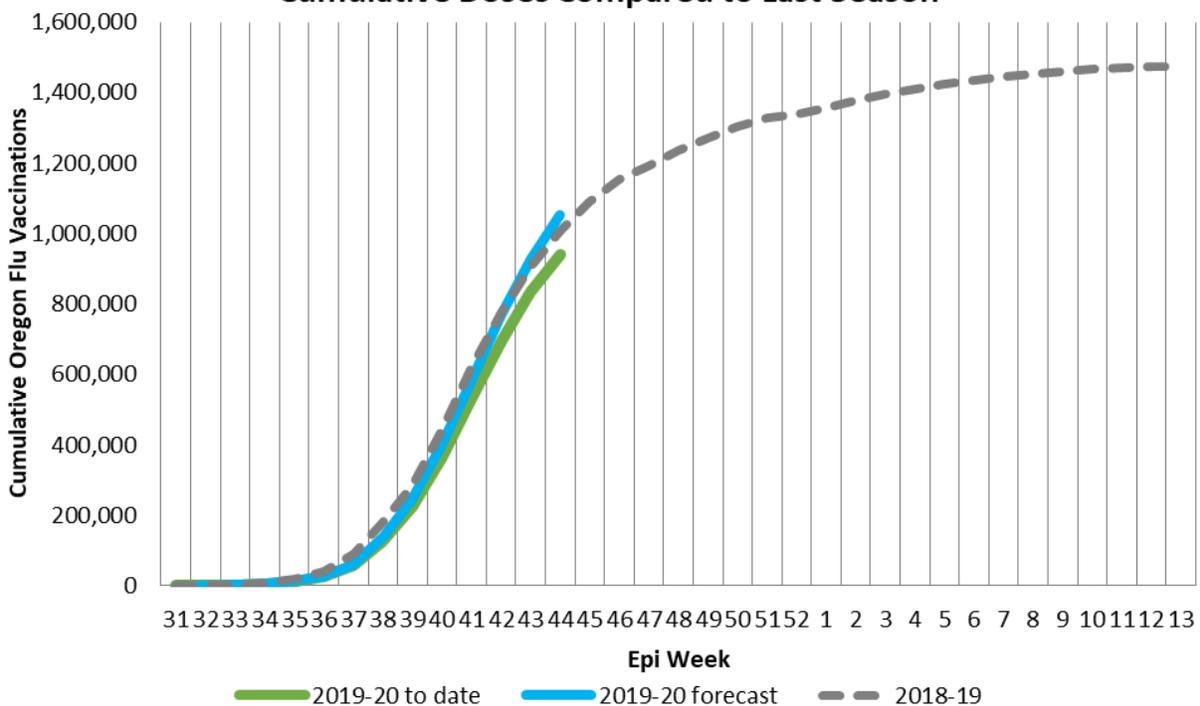


Figure 6. 2018/2019 Flu Vaccination in ALERT IIS by Epiweek, Cumulative Doses Compared to Last Season



US Data (from CDC FluView): According to this week's FluView report, seasonal influenza activity in the United States remains low but is increasing.

Viruses

- **Clinical Lab:** 3.2% of respiratory specimens tested in clinical laboratories were positive for influenza viruses. This is higher than the previous week.
- **Public Health Lab:** Nationally, influenza A(H3N2) and influenza B/Victoria viruses have been most common; however, A(H1N1) pdm09 viruses also circulated. The predominant virus varies by region.
- **Virus Characterization:** Data for this season will be reported when a sufficient number of viruses have been characterized. Virus characterization data through September 28 is available.

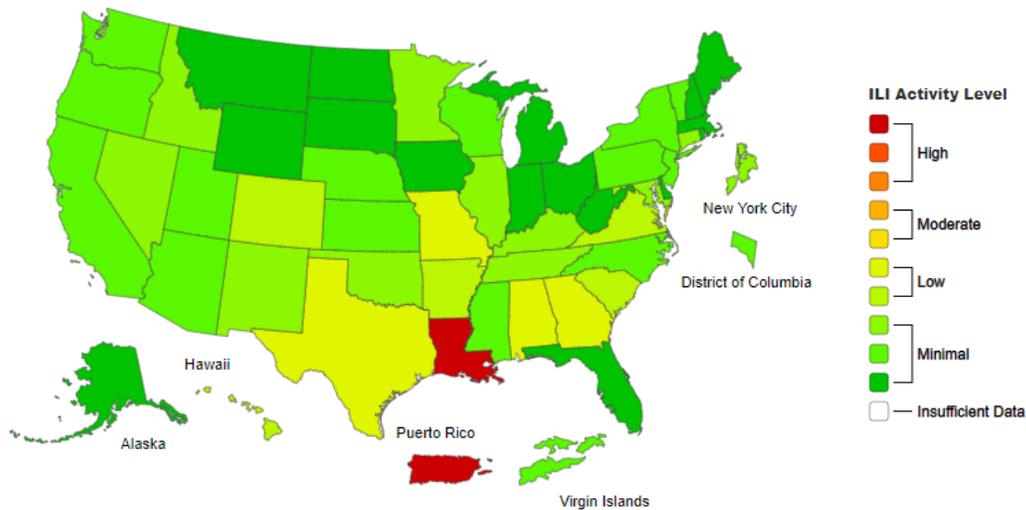
Illness

- **ILINet Outpatient Illness:** 2.1% of visits to a health care provider were for influenza-like illness (ILI). ILI activity is higher than the previous week but remains below the national baseline of 2.4%.
- **ILINet Activity Map:** The majority of jurisdictions experienced minimal ILI activity; however, Louisiana and Puerto Rico experienced high ILI activity and 9 states experienced low ILI activity.
- **Geographic Spread:** The majority of jurisdictions reported sporadic or local activity. Three states reported regional or widespread activity, and one state reported no activity.

Severe Disease

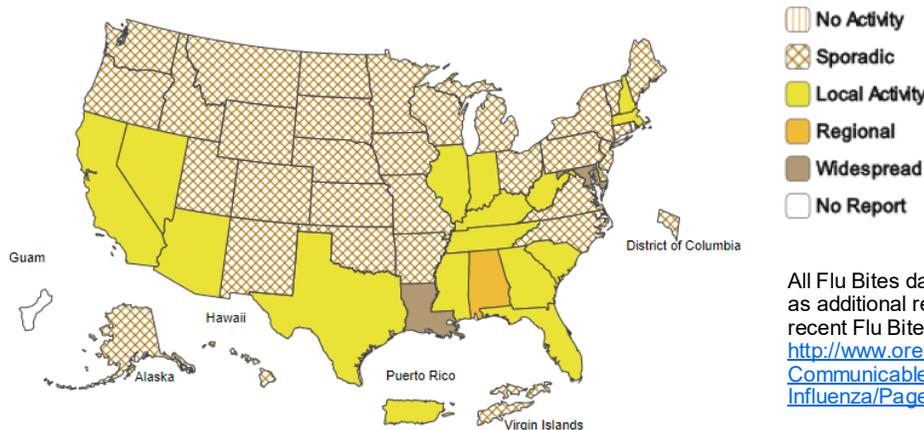
- **Hospitalizations:** Data for this season will be provided when a sufficient number of hospitalizations have been reported.
- **P&I Mortality:** Due to technical issues, data from the NCHS mortality surveillance system are not available this week.
- **Pediatric Deaths:** No new influenza-associated pediatric deaths occurring during the 2019-2020 season were reported to CDC this week. The total for the season is 2.

**Influenza-Like Illness (ILI) Activity Level Indicator Determined by Data Reported to ILINet
2019-20 Infection Season Week 44 ending Nov 02, 2019**



Map above: This map uses the proportion of outpatient visits to ILINet sentinel providers for influenza-like illness to measure the ILI activity level within a state. It does not, however, measure the extent of geographic spread of flu within a state. Therefore, outbreaks occurring in a single city could cause the state to display high activity levels.

**Weekly Influenza Activity Estimates Reported by State and Territorial Epidemiologists*
Week Ending Nov 02, 2019 - Week 44**



Map left: The map left measures the geographic spread of influenza viruses, but does not measure the intensity of influenza activity.

All Flu Bites data are preliminary and may change as additional reports are received. Find the most recent Flu Bites report online at:
<http://www.oregon.gov/oha/ph/DiseasesConditions/CommunicableDiseaseSurveillanceData/Influenza/Pages/surveil.aspx>

Data at a Glance October 20—October 26, 2019 (Week 43)

	Current Week (43)	Previous Week (42)
Percentage of emergency department visits for ILI¹	1.1%	1.0%
Percentage positive influenza tests²	1.0%	1.0%
Influenza-associated hospitalizations³	0	0
Reported influenza outbreaks	0	0
Influenza-associated pediatric mortality	0	0
Respiratory Syncytial Virus (RSV) activity⁴	1.1%	0.2%

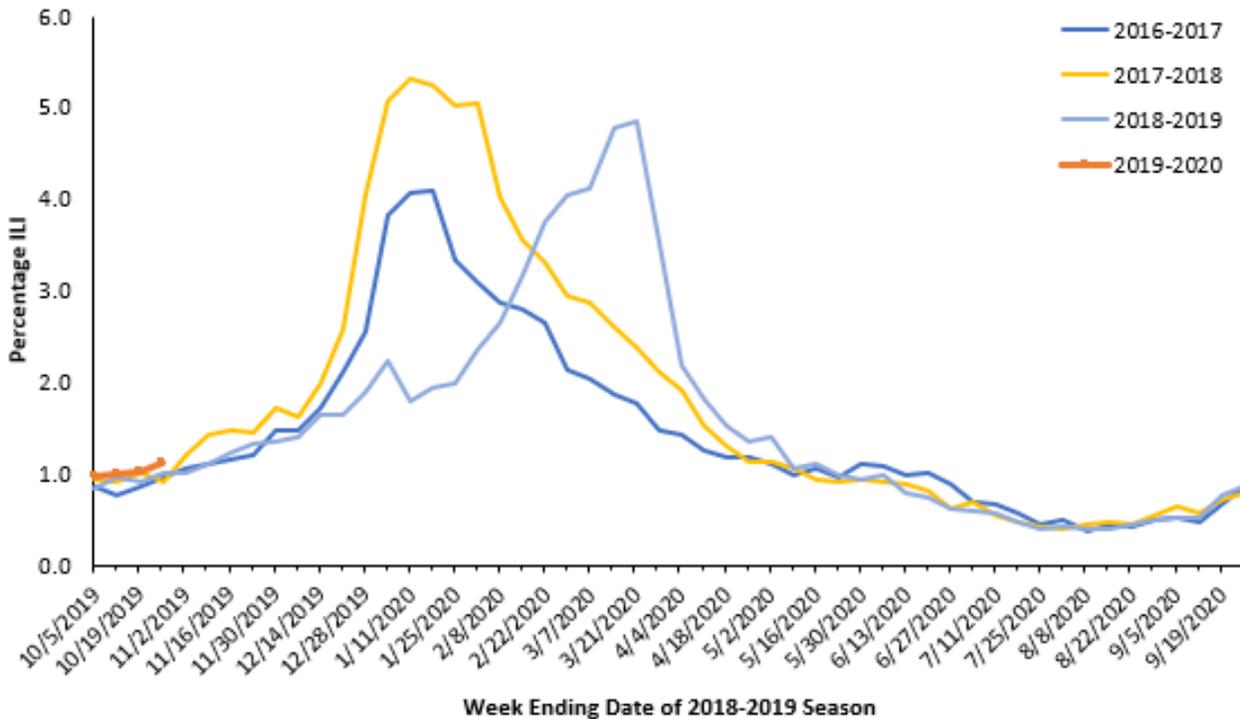
¹Based on Oregon ESSENCE Syndromic Surveillance. Data represent statewide aggregate percent.

²Percent positivity based on data from Oregon reporters to the National Respiratory and Enteric Virus Surveillance System (NREVSS)

³Based on hospitalization surveillance in Clackamas, Multnomah, and Washington counties only.

⁴Percent positivity based on data from Oregon's RSV Laboratory Surveillance System.

Figure 1. Percentage of ED Visits for ILI, Oregon ESSENCE Syndromic Surveillance, 2016–2017, 2017–2018, 2018–2019, 2019–2020



Oregon ESSENCE Syndromic Surveillance: Oregon Public Health tracks hospital emergency department (ED) visits throughout the state using the Oregon ESSENCE syndromic surveillance system. ESSENCE categorizes chief complaints into syndrome categories, which include ILI. Figure 1, above, displays percentages for all of Oregon during this flu season compared with the previous three flu seasons. The percent of ED visits for ILI in all of Oregon was 1.1% during week 43, 2019.

Laboratory Surveillance: The National Respiratory and Enteric Virus Surveillance System (NREVSS) is a laboratory-based system that monitors influenza and other respiratory viruses circulating the United States. More information is at CDC's [website](#).

Table 1 shows the tests conducted and results by region for the current week for influenza in specimens tested at the Oregon laboratories reporting to NREVSS. Figure 2 shows that 1.0% of specimens tested at Oregon labs were positive for influenza during week 43, and the bar chart displays the number of influenza-positive tests by flu type and percent positivity.

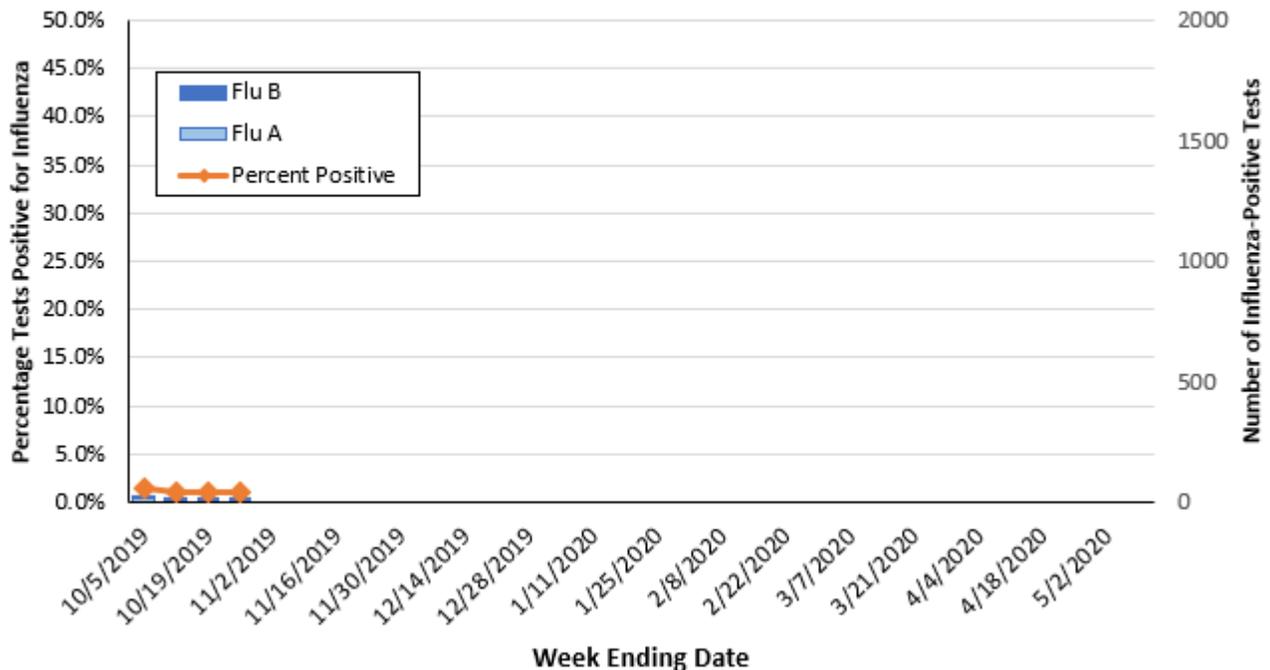
Participation by laboratories is voluntary. Current labs participating in NREVSS in Oregon include:

Legacy Emanuel Hospital and Health Center (Portland, OR), Oregon Health & Science University (Portland, OR), Providence Health (Oregon), Kaiser Permanente (Oregon), Veteran's Administration Hospital (Portland, OR), Bay Area Hospital (Coos Bay, OR), Curry Health Network (Brookings, OR), Mercy Medical Center (Roseburg, OR), Sky Lakes Medical Center (Klamath Falls, OR), Lake Health District, (Lakeview, OR), Rogue Valley Medical Center (SW Oregon), Good Shepherd Medical Center (Hermiston, OR), Mid-Columbia Medical Center (The Dalles, OR), Central Oregon Pediatric Associates (Central Oregon), Harney District Hospital (Burns, OR), St. Charles (Bend, OR), Columbia Memorial Hospital (Astoria, OR), Salem Hospital (Salem, OR), Willamette Valley Medical Center (McMinnville, OR).

Table 1. Influenza Test Results in Oregon by Region, NREVSS, Current Week, 2019–2020 Season

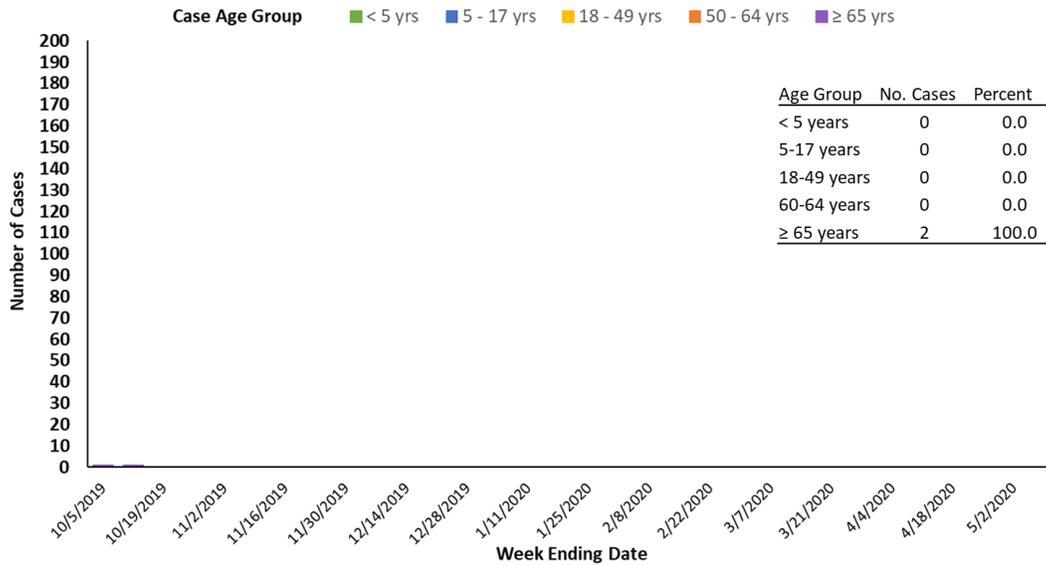
Region	Total Tests	Positive		Flu A		Flu B	
		No.	(%)	No.	(%)	No.	(%)
Portland Metro	594	7	1.2%	3	42.9%	4	57.1%
Southern Oregon	239	2	0.8%	2	100.0%	0	0.0%
Columbia Gorge	34	0	0.0%	0	0.0%	0	0.0%
Central Oregon	170	1	0.6%	0	0.0%	1	100.0%
Willamette Valley	195	2	1.0%	1	50.0%	1	50.0%
State Total	1232	12	1.0%	6	50.0%	6	50.0%

**Figure 2. Oregon Influenza Laboratory Surveillance
Percent Positive Influenza Tests by Week, NREVSS, 2019-2020 Season**



Hospitalizations: In Clackamas, Multnomah, and Washington counties no influenza-associated hospitalizations were reported during week 43 of 2019. In total, there have been 2 hospitalizations; one was sub-typed as flu A and the second as flu B.

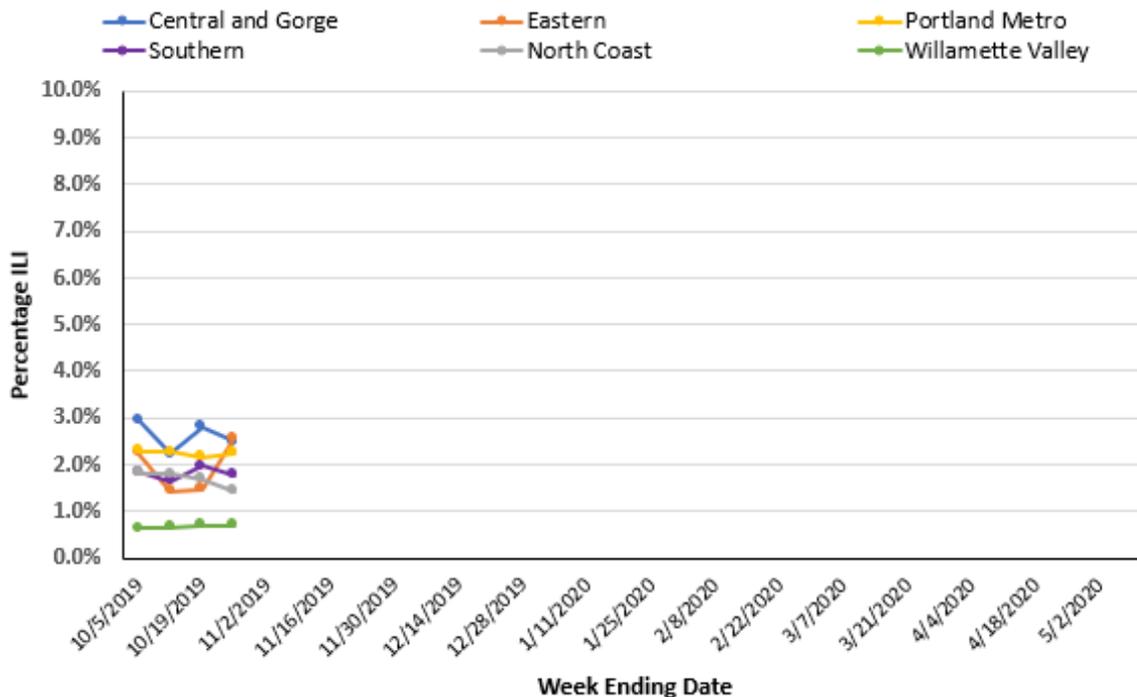
Figure 3. Portland Metro Area Influenza-Associated Hospitalizations by Week and Age Group, 2019-2020 Season



Influenza Outbreaks: There were 0 influenza outbreaks reported to the Oregon Health Authority during Week 43, 2019.

Outpatient Influenza-like Illness Surveillance: Oregon’s outpatient influenza-like illness (ILI) surveillance comprises 17 voluntary reporting outpatient providers, 64 emergency departments and urgent care clinics reporting to ESSENCE, and 180 OCHIN clinics from across Oregon. The percent of outpatients seen with ILI across the state during week 43 of 2019 was 1.9%. Regionally, the percent was highest in the Eastern region (2.6%) and lowest in the Willamette Valley (0.7%).

Figure 4. Percentage of Visits for ILI at Outpatient Clinics & Emergency Departments, by Oregon Region, 2019-2020



Vaccination Information: Weekly influenza immunization reporting is based on ALERT Immunization Information System (ALERT IIS) data through Epiweek 43 of 2019 (October 26th). At this time, the peak of immunization delivery has already passed. So far this season, over 820,000 influenza immunizations for Oregonians have been reported to ALERT IIS. While most immunizations are reported quickly and electronically to ALERT IIS, some reporting is delayed. Current weekly totals will be adjusted upward later.

Figure 5. 2019-2020 Oregon Flu Vaccine Doses in ALERT IIS by Epiweek

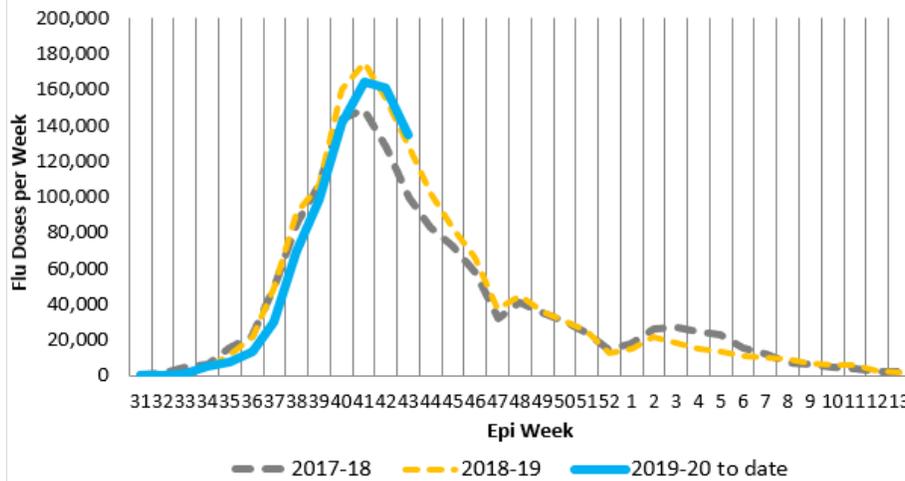
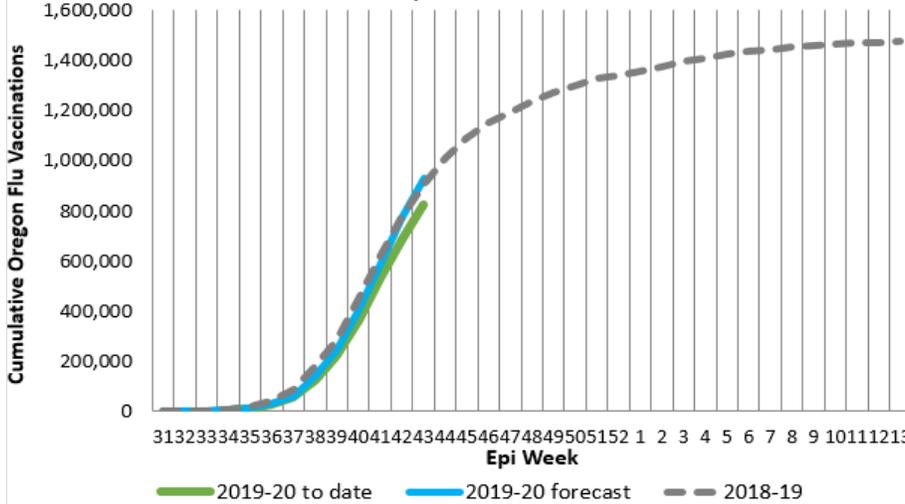
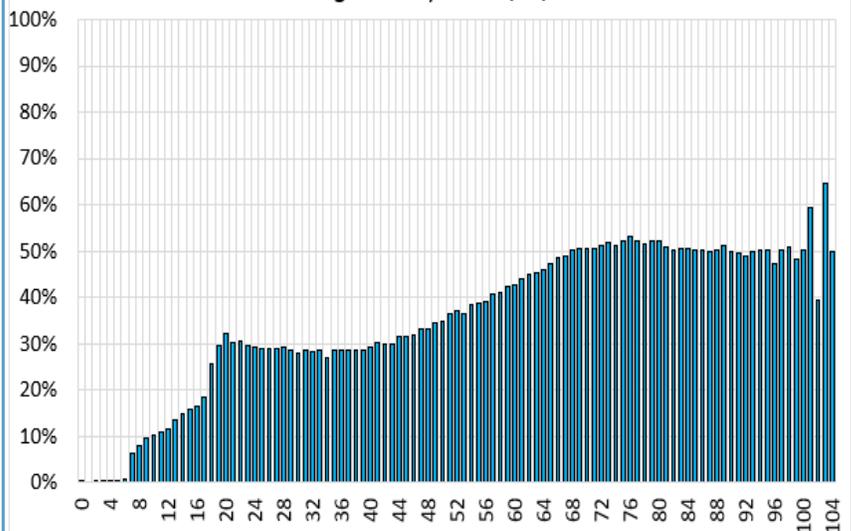


Figure 6. 2018-2019 Flu Vaccination in ALERT IIS by Epiweek, Cumulative Doses Compared to Last Season



This week we are including a chart showing the percentage of influenza immunizations by age that were reported by pharmacies. Oregon law allows pharmacists to give immunizations from age seven without a prescription; this is reflected in Figure 7. For seniors, pharmacies give roughly half of all influenza immunizations in Oregon. A large number of pharmacy influenza immunizations are also given at grocery stores. To date, 57% of pharmacy influenza immunizations were given at grocery stores. Grocery store pharmacies tend to immunize a slightly older mix of patients; 55% of grocery store pharmacy influenza immunizations were given to seniors, compared to 48% of influenza immunizations going to seniors at other pharmacy locations.

Figure 7. Oregon Pharmacy Influenza Immunization by Age as a Percentage of Total, as of 10/30/2019



US Data (from CDC FluView): According to this week's FluView report, seasonal influenza activity in the United States increased slightly, but remains low.

Viruses

- **Clinical Lab:** 2.4% of respiratory specimens tested in clinical laboratories were positive for influenza viruses. This is slightly higher than the previous week.
- **Public Health Lab:** Influenza A(H3N2) and influenza B/Victoria viruses have been most common so far, with influenza A(H3N2) viruses slightly outnumbering influenza B/Victoria viruses.
- **Virus Characterization:** Data for this season will be reported when a sufficient number of viruses have been characterized. Virus characterization data through September 28 is available.

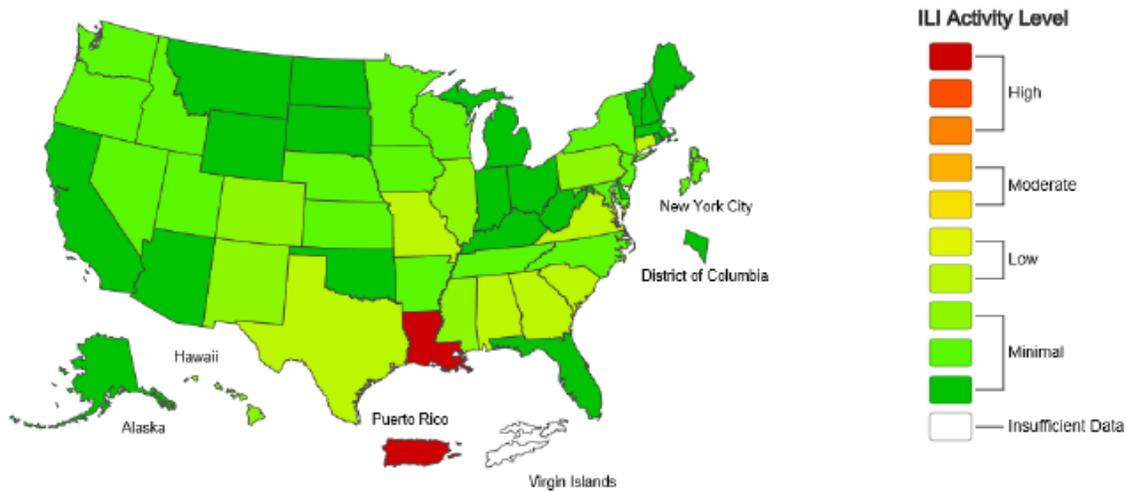
Illness

- **ILINet Outpatient Illness:** 1.9% of visits to a health care provider were for influenza-like illness (ILI). ILI activity is higher than the previous week but remains below the national baseline of 2.4%.
- **ILINet Activity Map:** The majority of jurisdictions experienced minimal ILI activity; however, Louisiana and Puerto Rico experienced high ILI activity and 7 states experienced low ILI activity.
- **Geographic Spread:** The majority of jurisdictions reported sporadic or local activity; however, Louisiana reported regional activity and Rhode Island reported no activity.

Severe Disease

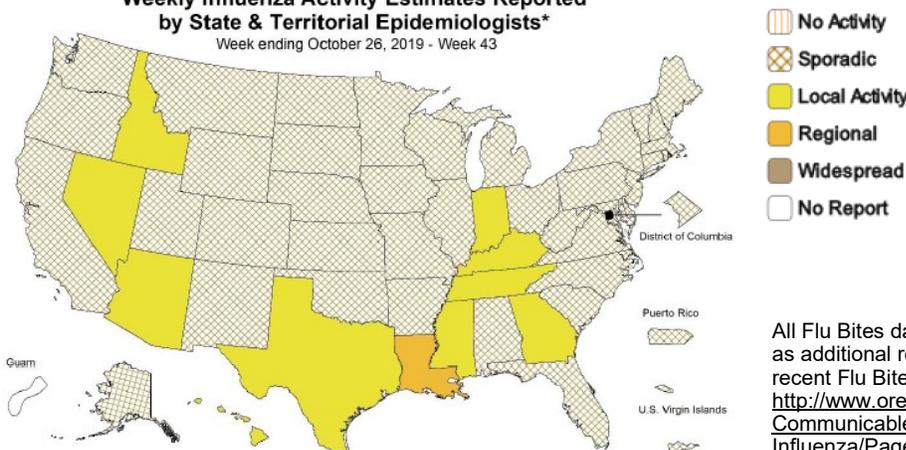
- **Hospitalizations:** Data for this season will be provided when a sufficient number of hospitalizations have been reported.
- **P&I Mortality:** 5.1% of deaths were attributed to pneumonia and influenza (P&I). This is below the epidemic threshold of 5.8%.
- **Pediatric Deaths:** No new influenza-associated pediatric deaths occurring during the 2019-2020 season were reported to CDC this week. The total for the season is 2.

Influenza-Like Illness (ILI) Activity Level Indicator Determined by Data Reported to ILINet
2019-20 Infection Season Week 43 ending Oct 26, 2019



Map above: This map uses the proportion of outpatient visits to ILINet sentinel providers for influenza-like illness to measure the ILI activity level within a state. It does not, however, measure the extent of geographic spread of flu within a state. Therefore, outbreaks occurring in a single city could cause the state to dis-

Weekly Influenza Activity Estimates Reported by State & Territorial Epidemiologists*
Week ending October 26, 2019 - Week 43



Map left: The map left measures the geographic spread of influenza viruses, but does not measure the intensity of influenza activity.

All Flu Bites data are preliminary and may change as additional reports are received. Find the most recent Flu Bites report online at:
<http://www.oregon.gov/oha/ph/DiseasesConditions/CommunicableDiseaseSurveillanceData/Influenza/Pages/surveil.aspx>

Data at a Glance October 13—October 19, 2019 (Week 42)

	Current Week (42)	Previous Week (41)
Percentage of emergency department visits for ILI¹	1.0%	1.0%
Percentage positive influenza tests²	1.0%	1.0%
Influenza-associated hospitalizations³	0	1
Reported influenza outbreaks	0	0
Influenza-associated pediatric mortality	0	0
Respiratory Syncytial Virus (RSV) activity⁴	0.2%	0.4%

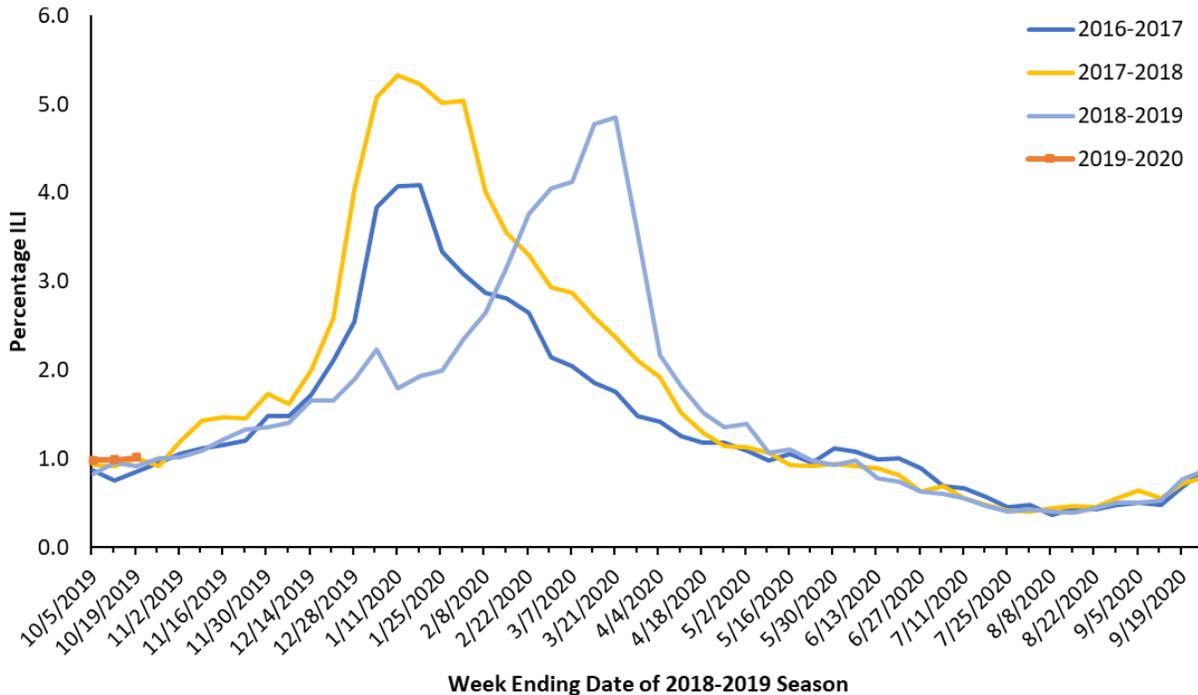
¹Based on Oregon ESSENCE Syndromic Surveillance. Data represent statewide aggregate percent.

²Percent positivity based on data from Oregon reporters to the National Respiratory and Enteric Virus Surveillance System (NREVS)

³Based on hospitalization surveillance in Clackamas, Multnomah, and Washington counties only.

⁴Percent positivity based on data from Oregon's RSV Laboratory Surveillance System.

Figure 1. Percentage of ED Visits for ILI, Oregon ESSENCE Syndromic Surveillance, 2016–2017, 2017–2018, 2018–2019, 2019–2020



Oregon ESSENCE Syndromic Surveillance: Oregon Public Health tracks hospital emergency department (ED) visits throughout the state using the Oregon ESSENCE syndromic surveillance system. ESSENCE categorizes chief complaints into syndrome categories, which include ILI. Figure 1, above, displays percentages for all of Oregon during this flu season compared with the previous three flu seasons. The percent of ED visits for ILI in all of Oregon during this flu season was 1.0% during week 42, 2019.

Laboratory Surveillance: The National Respiratory and Enteric Virus Surveillance System (NREVSS) is a laboratory-based system that monitors influenza and other respiratory viruses circulating the United States. More information is at CDC's [website](#).

Table 1 shows the tests conducted and results by region for the current week for influenza in specimens tested at the Oregon laboratories reporting to NREVSS. Figure 2 shows that 1.0% of specimens tested at Oregon labs were positive for influenza during week 42, and the bar chart displays the number of influenza-positive tests by flu type and percent positivity.

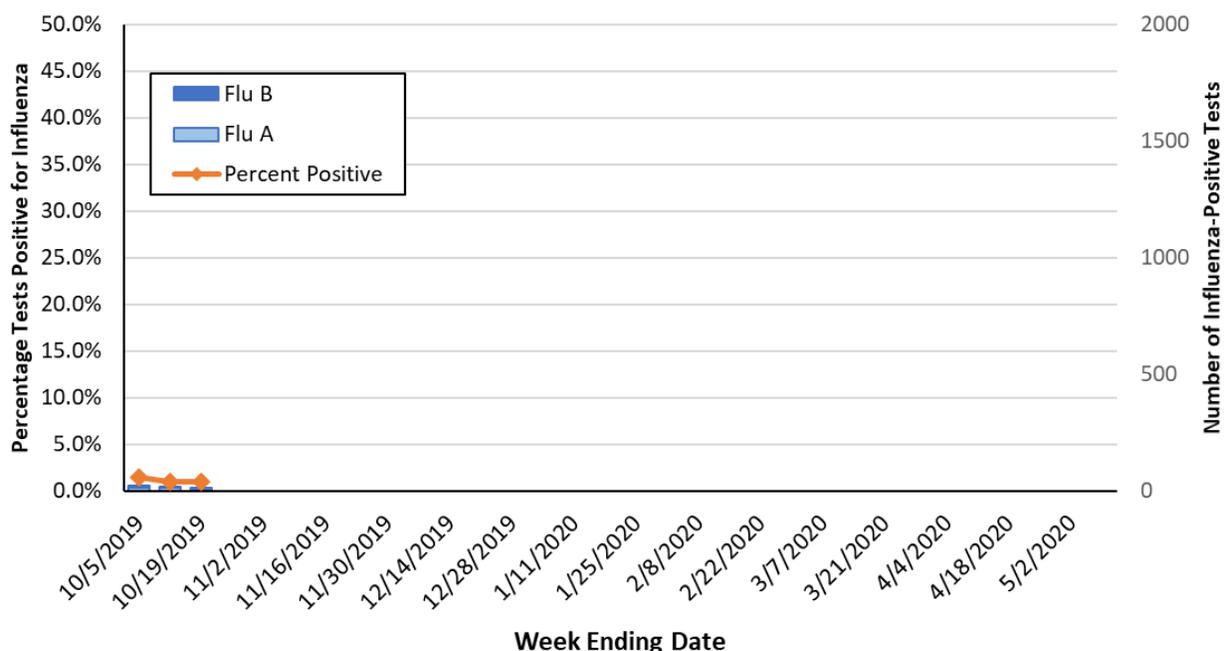
Participation by laboratories is voluntary. Current labs participating in NREVSS in Oregon include:

Legacy Emanuel Hospital and Health Center (Portland, OR), Oregon Health & Science University (Portland, OR), Providence Health (Oregon), Kaiser Permanente (Oregon), Veteran's Administration Hospital (Portland, OR), Bay Area Hospital (Coos Bay, OR), Curry Health Network (Brookings, OR), Mercy Medical Center (Roseburg, OR), Sky Lakes Medical Center (Klamath Falls, OR), Lake Health District, (Lakeview, OR), Rogue Valley Medical Center (SW Oregon), Good Shepherd Medical Center (Hermiston, OR), Mid-Columbia Medical Center (The Dalles, OR), Central Oregon Pediatric Associates (Central Oregon), Harney District Hospital (Burns, OR), St. Charles (Bend, OR), Columbia Memorial Hospital (Astoria, OR), Salem Hospital (Salem, OR), Willamette Valley Medical Center (McMinnville, OR).

Table 1. Influenza Test Results in Oregon by Region, NREVSS, Current Week, 2019–2020 Season

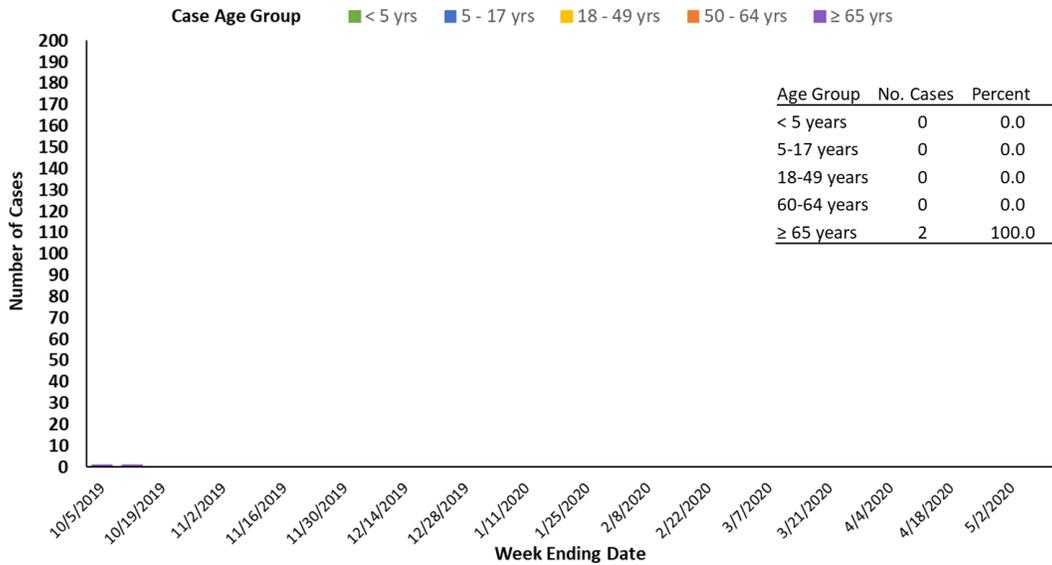
Region	Total Tests	Positive		Flu A		Flu B	
		No.	(%)	No.	(%)	No.	(%)
Portland Metro	471	4	0.8%	4	100.0%	0	0.0%
Southern Oregon	287	1	0.3%	1	100.0%	0	0.0%
Columbia Gorge	3	0	0.0%	0	0.0%	0	0.0%
Central Oregon	157	4	2.5%	0	0.0%	4	100.0%
Willamette Valley	182	2	1.1%	0	0.0%	2	100.0%
State Total	1100	11	1.0%	5	45.5%	6	54.5%

**Figure 2. Oregon Influenza Laboratory Surveillance
Percent Positive Influenza Tests by Week, NREVSS, 2019-2020 Season**



Hospitalizations: In Clackamas, Multnomah, and Washington counties no influenza-associated hospitalizations were reported during week 42 of 2019. In total, there have been 2 hospitalizations; one was sub-typed as flu A and the second as flu B.

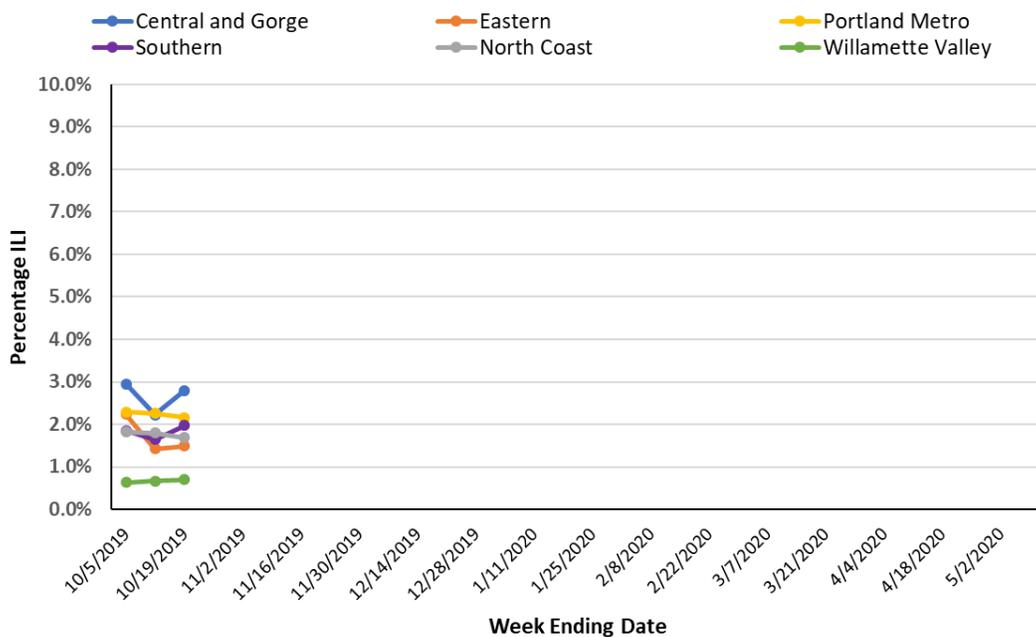
Figure 3. Portland Metro Area Influenza-Associated Hospitalizations by Week and Age Group, 2019-2020 Season



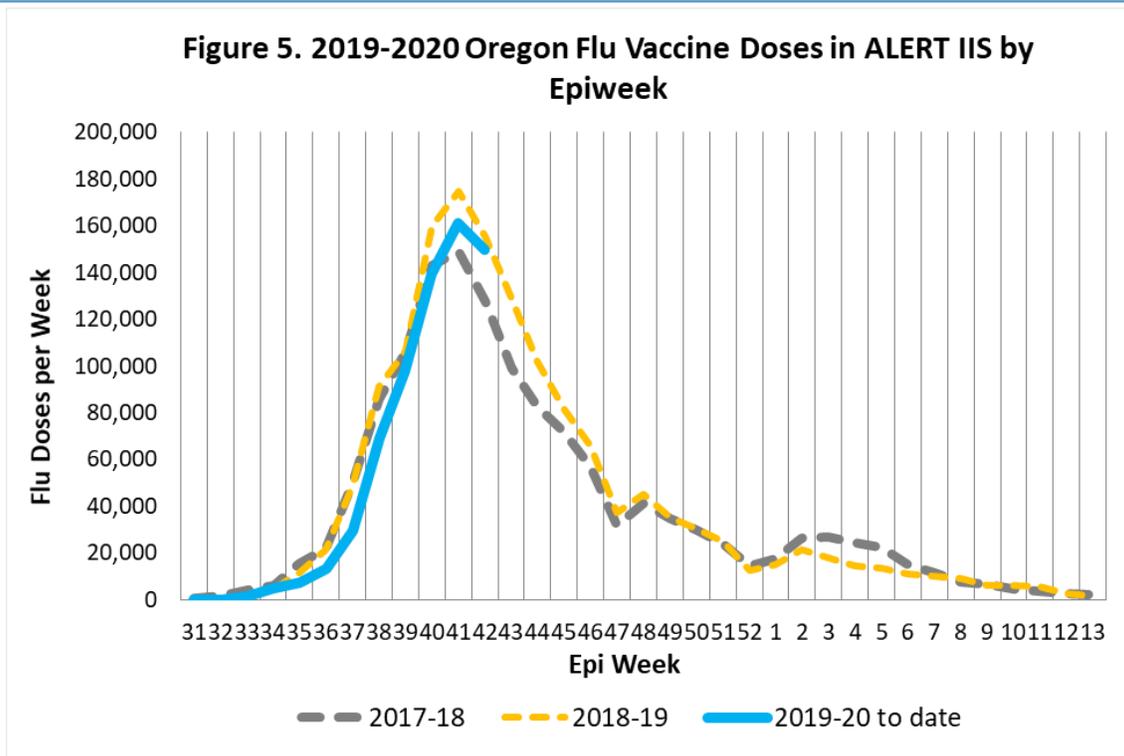
Influenza Outbreaks: There were 0 influenza outbreaks reported to the Oregon Health Authority during Week 42, 2019.

Outpatient Influenza-like Illness Surveillance: Oregon’s outpatient influenza-like illness (ILI) surveillance comprises 17 voluntary reporting outpatient providers, 64 emergency departments and urgent care clinics reporting to ESSENCE, and 180 OCHIN clinics from across Oregon. The percent of outpatients seen with ILI across the state during week 42 of 2019 was 1.9%. Regionally, the percent was highest in the Central and Gorge Area (2.8%) and lowest in the Willamette Valley (0.7%).

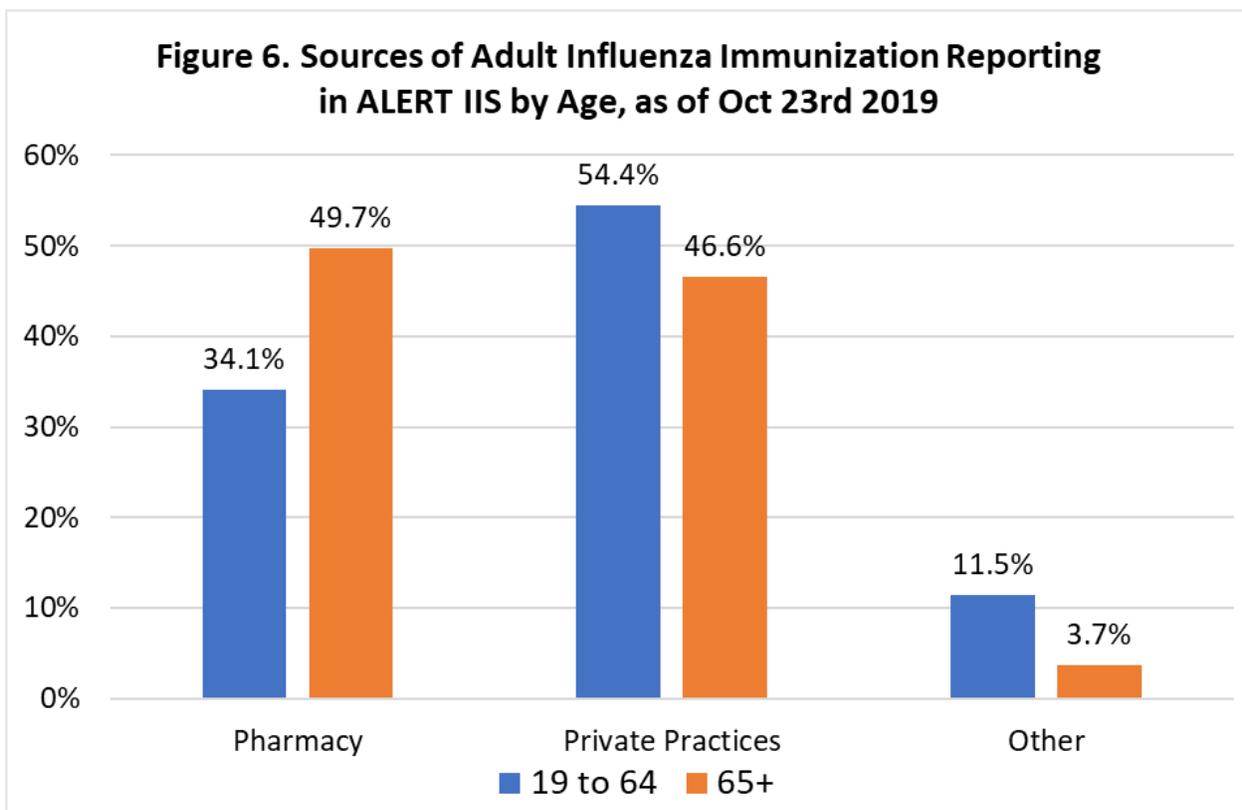
Figure 4. Percentage of Visits for ILI at Outpatient Clinics & Emergency Departments, by Oregon Region, 2019-2020



Vaccination Information: Weekly influenza immunization reporting is based on ALERT Immunization Information System (ALERT IIS) data through Epiweek 42 of 2019 (October 19th). So far this season, almost 700,000 influenza immunizations for Oregonians have already been reported to the ALERT IIS, with 1.5 million expected in total. As a caveat, while most immunizations are reported quickly and electronically to ALERT IIS, some reporting is delayed- current weekly totals will be adjusted upward later.



For this week we are including a look at who reports adult influenza immunizations to ALERT IIS. Overall, pharmacies and private clinics provide almost all influenza immunizations for adults. Seniors > age 65 years are more likely to receive their vaccination at pharmacies (50%) than non-seniors (34%), while non-seniors are more likely to receive flu vaccination at private clinics compared to seniors (54% vs 47%).



US Data (from CDC FluView): Seasonal influenza activity in the United States increased slightly, but remains low.

Viruses

- **Clinical Lab:** 2.4% of respiratory specimens tested in clinical laboratories were positive for influenza viruses. This is slightly lower than the previous week.
- **Public Health Lab:** Influenza A (H3N2) and Influenza B/Victoria viruses have circulated at similar levels for the season overall.
- **Virus Characterization:** Data for this season will be reported when a sufficient number of viruses have been characterized. Virus characterization data through September 28 is available.

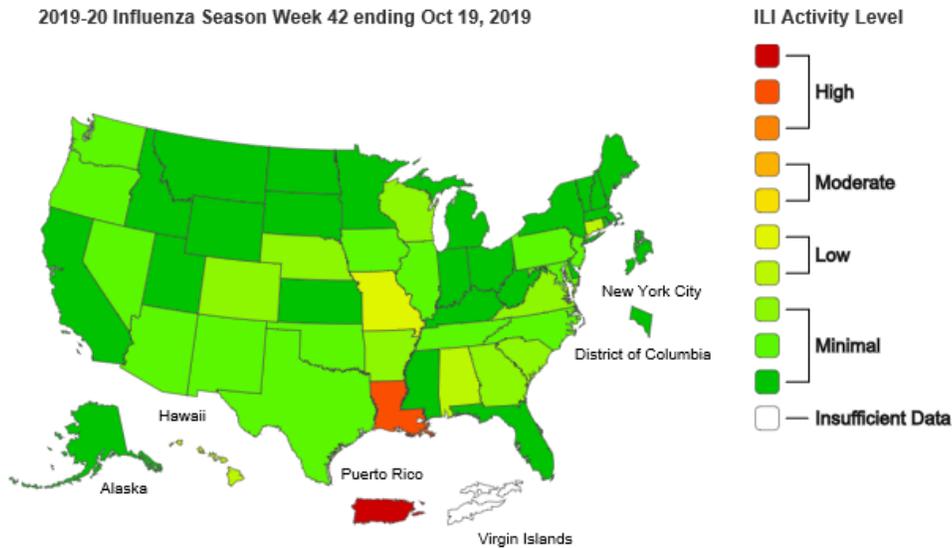
Illness

- **ILINet Outpatient Illness:** 1.7% of visits to a health care provider were for influenza-like illness (ILI). ILI activity is higher than the previous week but remains below the national baseline of 2.4%.
- **ILINet Activity Map:** The majority of jurisdictions experienced minimal ILI activity; however, Louisiana and Puerto Rico experienced high ILI activity.
- **Geographic Spread:** The majority of jurisdictions reported sporadic or local activity; however, Maryland reported widespread activity and Louisiana reported regional activity.

Severe Disease

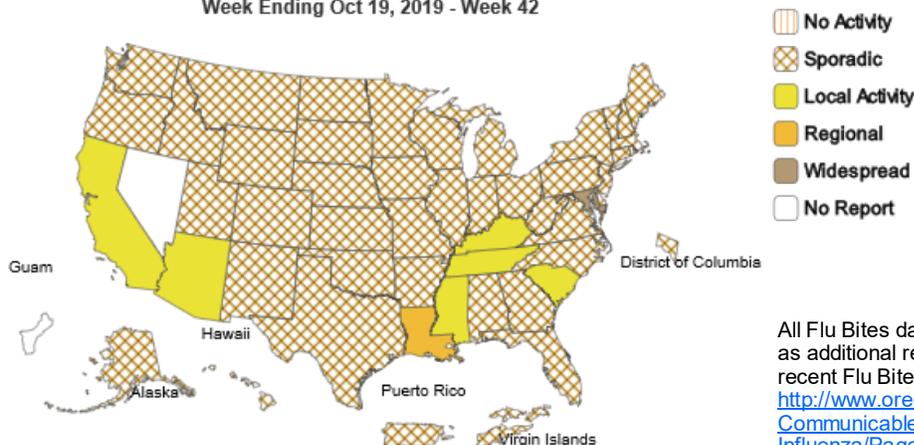
- **Hospitalizations:** Data for this season will be provided when a sufficient number of hospitalizations have been reported.
- **P&I Mortality:** 4.9% of deaths were attributed to pneumonia and influenza (P&I). This is below the epidemic threshold of 5.7%.
- **Pediatric Deaths:** The first 2 influenza-associated pediatric deaths occurring during the 2019-2020 season were reported to CDC this week.

Influenza-Like Illness (ILI) Activity Level Indicator Determined by Data Reported to ILINet
2019-20 Influenza Season Week 42 ending Oct 19, 2019



Map above: This map uses the proportion of outpatient visits to ILINet sentinel providers for influenza-like illness to measure the ILI activity level within a state. It does not, however, measure the extent of geographic spread of flu within a state. Therefore, outbreaks occurring in a single city could cause the state to display high activity levels.

Week Ending Oct 19, 2019 - Week 42



Map left: The map left measures the geographic spread of influenza viruses, but does not measure the intensity of influenza activity.

All Flu Bites data are preliminary and may change as additional reports are received. Find the most recent Flu Bites report online at:
<http://www.oregon.gov/oha/ph/DiseasesConditions/CommunicableDisease/DiseaseSurveillanceData/Influenza/Pages/surveil.aspx>

Data at a Glance October 6—October 12, 2019 (Week 41)

	Current Week (41)	Previous Week (40)
Percentage of emergency department visits for ILI¹	1.0%	1.0%
Percentage positive influenza tests²	1.0%	1.5%
Influenza-associated hospitalizations³	1	1
Reported influenza outbreaks	0	0
Influenza-associated pediatric mortality	0	0
Respiratory Syncytial Virus (RSV) activity⁴	0.4%	0.7%

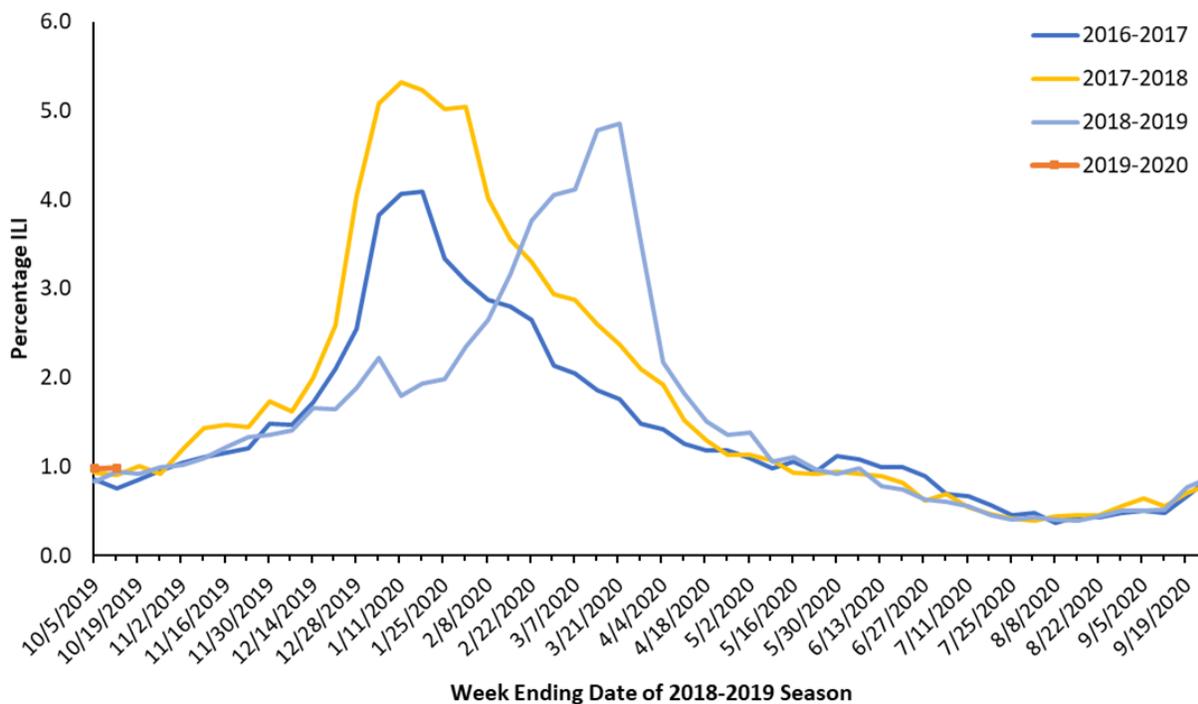
¹Based on Oregon ESSENCE Syndromic Surveillance. Data represent statewide aggregate percent.

²Percent positivity based on data from Oregon reporters to the National Respiratory and Enteric Virus Surveillance System (NREVSS)

³Based on hospitalization surveillance in Clackamas, Multnomah, and Washington counties only.

⁴Percent positivity based on data from Oregon's RSV Laboratory Surveillance System.

Figure 1. Percentage of ED Visits for ILI, Oregon ESSENCE Syndromic Surveillance, 2016–2017, 2017–2018, 2018–2019, 2019–2020



Oregon ESSENCE Syndromic Surveillance: Oregon Public Health tracks hospital emergency department (ED) visits throughout the state using the Oregon ESSENCE syndromic surveillance system. ESSENCE categorizes chief complaints into syndrome categories, which include ILI. Figure 1, above, displays percentages for all of Oregon during this flu season compared with the previous three flu seasons. The percent of ED visits for ILI in all of Oregon was 1.0% during week 41, 2019.

Laboratory Surveillance: The National Respiratory and Enteric Virus Surveillance System (NREVSS) is a laboratory-based system that monitors influenza and other respiratory viruses circulating the United States. More information is at CDC’s [website](#).

Table 1 shows the tests conducted and results by region for the current week for influenza in specimens tested at the Oregon laboratories reporting to NREVSS. Figure 2 shows that 1.0% of specimens tested at Oregon labs were positive for influenza during week 41, and the bar chart displays the number of influenza -positive tests by flu type and percent positivity.

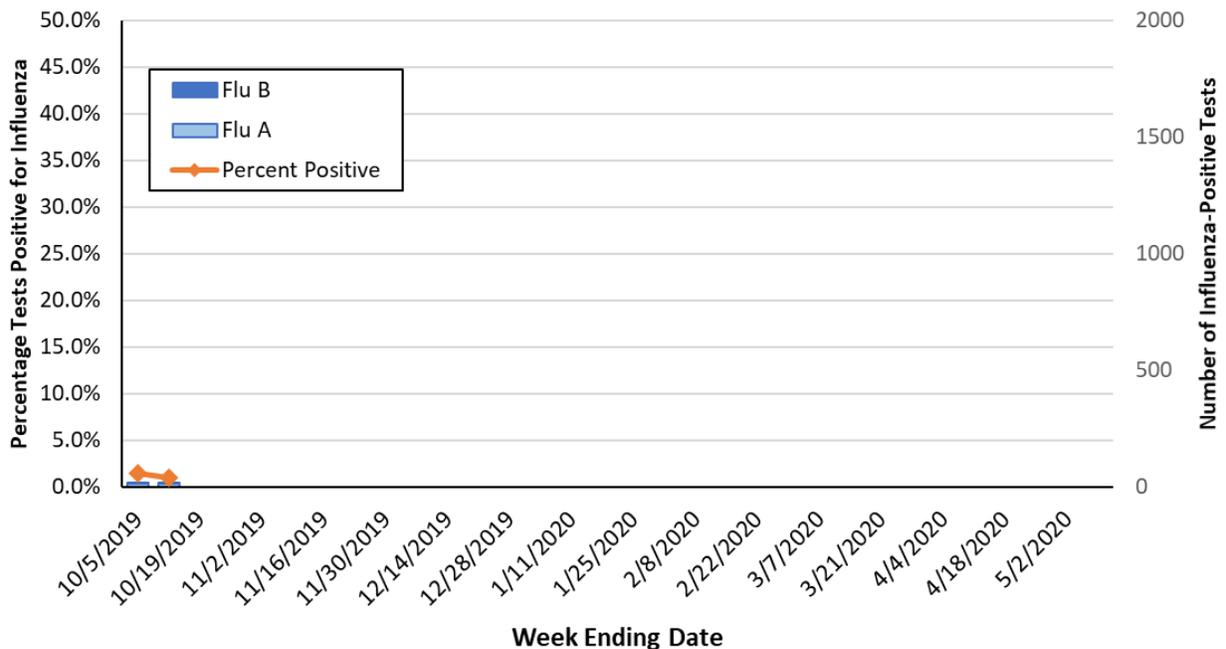
Participation by laboratories is voluntary. Current labs participating in NREVSS in Oregon include:

Legacy Emanuel Hospital and Health Center (Portland, OR), Oregon Health & Science University (Portland, OR), Providence Health (Oregon), Kaiser Permanente (Oregon), Veteran’s Administration Hospital (Portland, OR), Bay Area Hospital (Coos Bay, OR), Curry Health Network (Brookings, OR), Mercy Medical Center (Roseburg, OR), Sky Lakes Medical Center (Klamath Falls, OR), Lake Health District, (Lakeview, OR), Rogue Valley Medical Center (SW Oregon), Good Shepherd Medical Center (Hermiston, OR), Mid-Columbia Medical Center (The Dalles, OR), Central Oregon Pediatric Associates (Central Oregon), Harney District Hospital (Burns, OR), St. Charles (Bend, OR), Columbia Memorial Hospital (Astoria, OR), Salem Hospital (Salem, OR), Willamette Valley Medical Center (McMinnville, OR).

Table 1. Influenza Test Results in Oregon by Region, NREVSS, Current Week, 2019–2020 Season

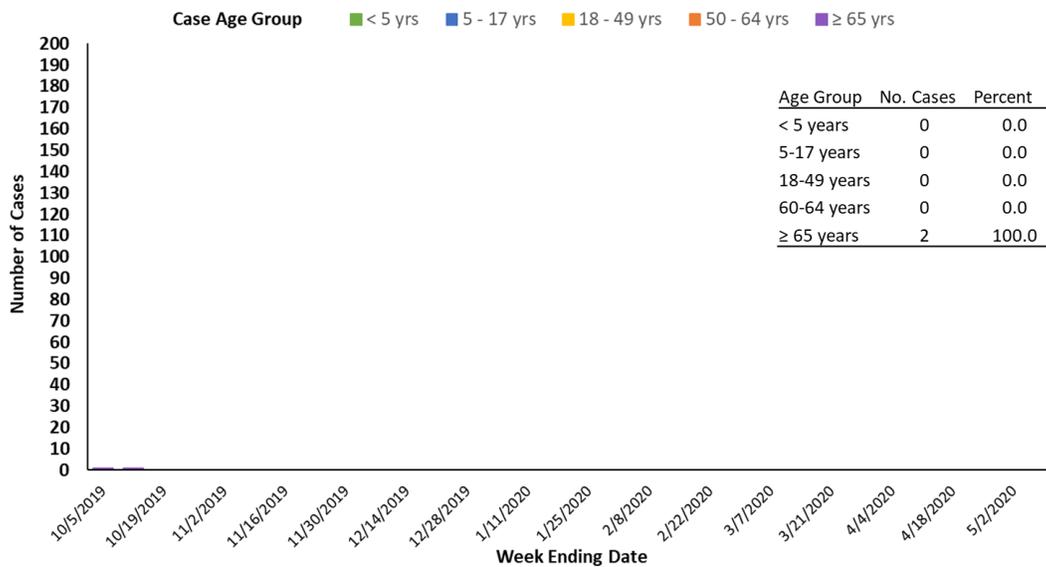
Region	Total Tests	Positive		Flu A		Flu B	
		No.	(%)	No.	(%)	No.	(%)
Portland Metro	968	6	0.6%	4	66.7%	2	33.3%
Southern Oregon	228	5	2.2%	5	100.0%	0	0.0%
Columbia Gorge	21	1	4.8%	1	100.0%	0	0.0%
Central Oregon	125	3	2.4%	2	66.7%	1	33.3%
Willamette Valley	210	1	0.5%	0	0.0%	1	100.0%
State Total	1552	16	1.0%	12	75.0%	4	25.0%

**Figure 2. Oregon Influenza Laboratory Surveillance
Percent Positive Influenza Tests by Week, NREVSS, 2019-2020 Season**



Hospitalizations: In Clackamas, Multnomah, and Washington counties 1 influenza-associated hospitalization was reported during week 41 of 2019. In total, there have been 2 hospitalizations, 1 of which was positive for flu A and one of which was positive for flu B. No subtyping information is available at this time.

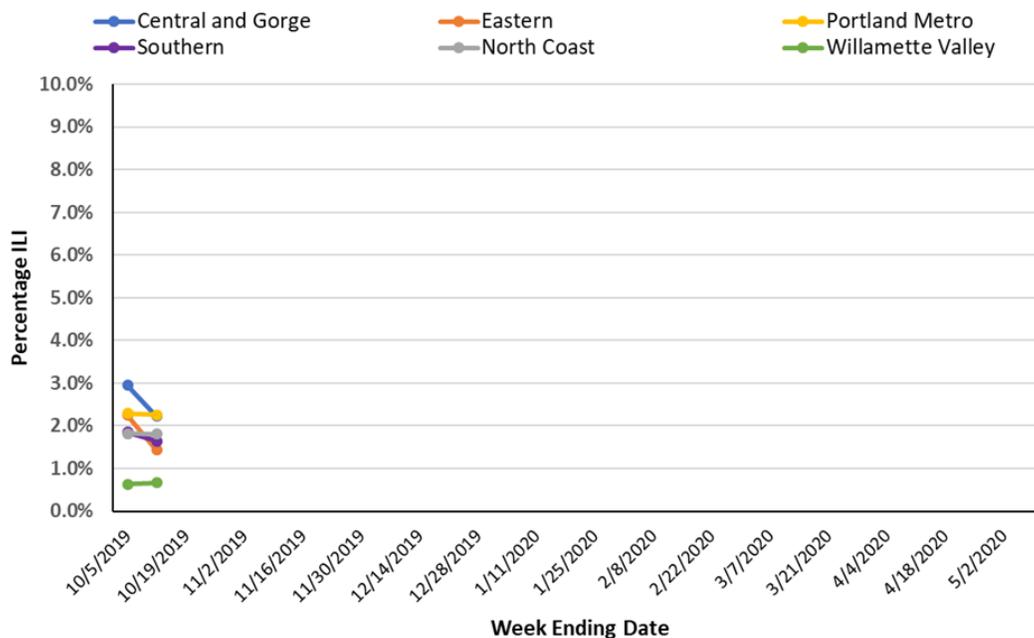
Figure 3. Portland Metro Area Influenza-Associated Hospitalizations by Week and Age Group, 2019-2020 Season



Influenza Outbreaks: There were 0 influenza outbreaks reported to the Oregon Health Authority during Week 41, 2019.

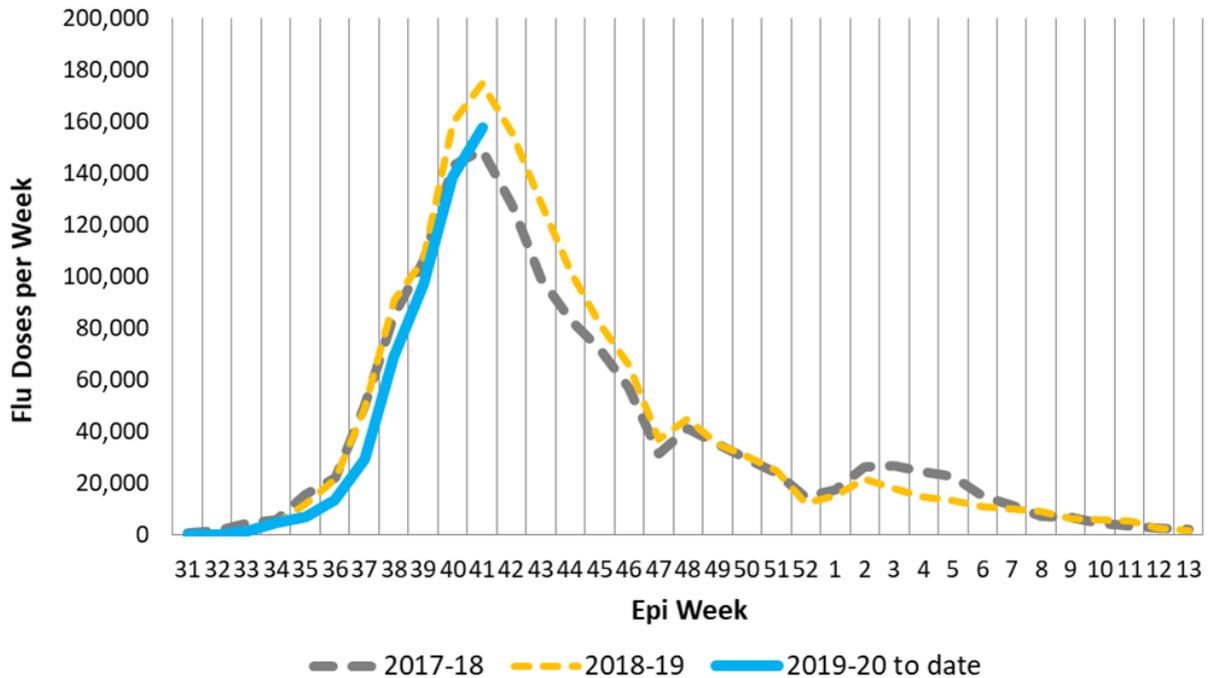
Outpatient Influenza-like Illness Surveillance: Oregon’s outpatient influenza-like illness (ILI) surveillance comprises 17 voluntary reporting outpatient providers, 64 emergency departments and urgent care clinics reporting to ESSENCE, and 171 OCHIN clinics from across Oregon. The percent of outpatients seen with ILI across the state during week 41 of 2019 was 1.8%. Regionally, the percent was highest in the Portland Metro Area (2.3%) and lowest in the Willamette Valley (0.7%).

Figure 4. Percentage of Visits for ILI at Outpatient Clinics & Emergency Departments, by Oregon Region, 2019-2020



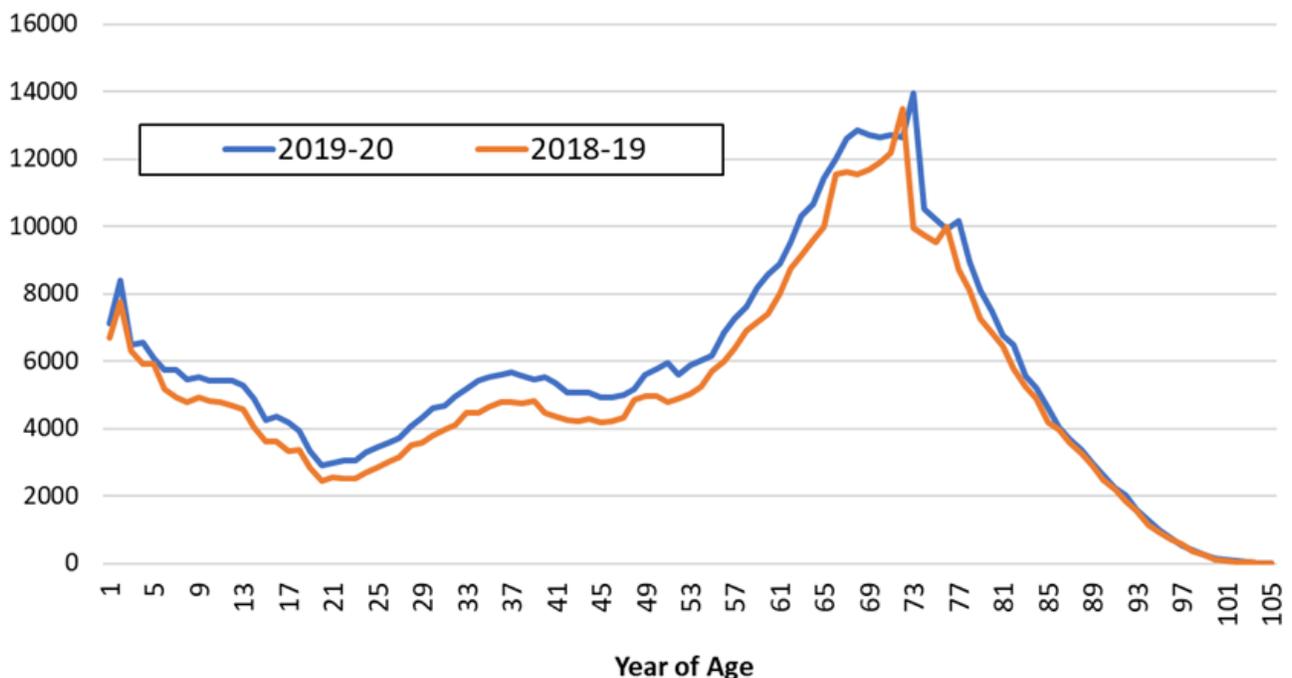
Vaccination Information: Weekly influenza immunization reporting is based on ALERT Immunization Information System (ALERT IIS) data through Epiweek 41 of 2019 (October 12th). For this season, almost 600,000 influenza immunizations for Oregonians have already been reported to the ALERT IIS. Influenza immunizations are expected to peak in the next two weeks.

Figure 5. 2019-20 Oregon Flu Vaccine Doses in ALERT IIS



In comparison to last season at the same time, ALERT has slightly more reports of influenza immunization, as shown in the graph below of influenza immunizations by age (Figure 6). As a caveat, while most immunizations are reported quickly and electronically to ALERT IIS, some reporting is delayed- current weekly totals will be adjusted upward later.

Figure 6. Number of Influenza Immunizations By Age Reported as of Oct 17th for 2019-20 Compared to 2018-19



US Data (from CDC FluView): Seasonal influenza activity remains **low** in the United States.

Viruses

- **Clinical Lab:** 3.4% of respiratory specimens tested in clinical laboratories were positive for influenza viruses. This is slightly higher than the previous week.
- **Public Health Lab:**
 - Influenza A(H3N2) viruses predominated this week and are the predominant virus at this point in the season.
- **Virus Characterization:** Data for this season will be reported when a sufficient number of viruses have been characterized. Virus characterization data through September 28 is available.

Illness

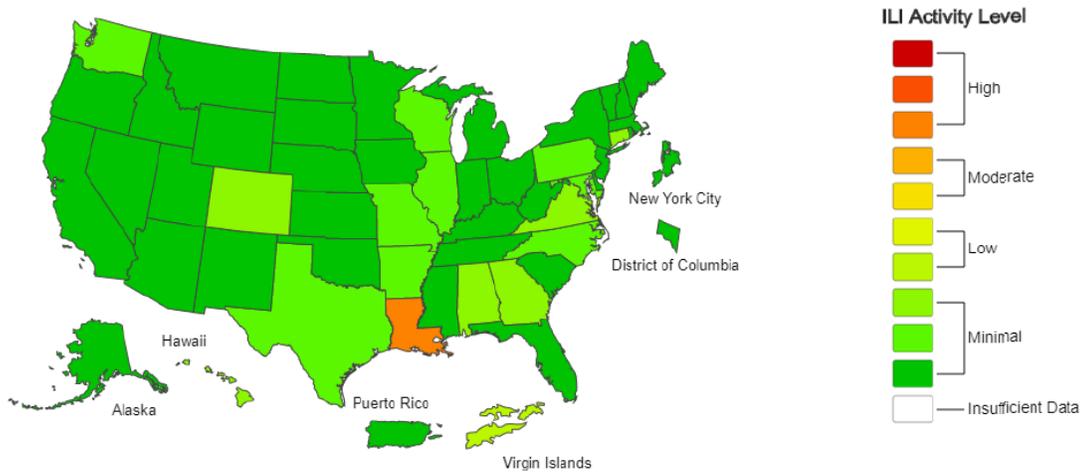
- **ILINet Outpatient Illness:** 1.5% of visits to a health care provider were for influenza-like illness (ILI). ILI activity remains **below** the national baseline of 2.4% and is at the same level as the previous week.
- **ILINet Activity Map:** The majority of jurisdictions experienced minimal ILI activity; however, Louisiana experienced high ILI activity.
- **Geographic Spread:** The majority of jurisdictions reported sporadic or no flu activity; however, Louisiana reported regional activity and 3 out of 54 jurisdictions reported local activity.

Severe Disease

- **Hospitalizations:** Data for this season will be provided when a sufficient number of hospitalizations have been reported.
- **P&I Mortality:** 4.7% of deaths were attributed to pneumonia and influenza (P&I). This is **below** the epidemic threshold of 5.7%.
- **Pediatric Deaths:** No influenza-associated pediatric deaths were reported to CDC this week. No pediatric deaths occurring during the 2019-20 season have been reported.

Influenza-Like Illness (ILI) Activity Level Indicator Determined by Data Reported to ILINet

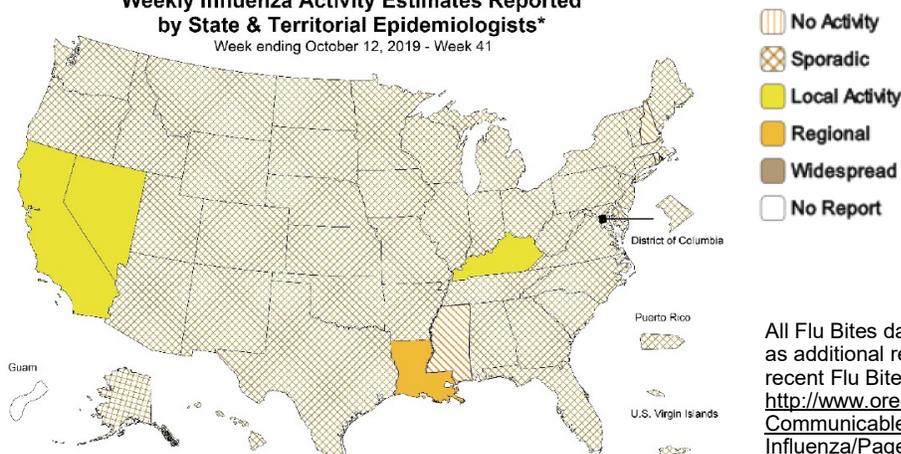
2019-20 Influenza Season Week 41 ending Oct 12, 2019



Map above: This map uses the proportion of outpatient visits to ILINet sentinel providers for influenza-like illness to measure the ILI activity level within a state. It does not, however, measure the extent of geographic spread of flu within a state. Therefore, outbreaks occurring in a single city could cause the state to display high activity levels.

Weekly Influenza Activity Estimates Reported by State & Territorial Epidemiologists*

Week ending October 12, 2019 - Week 41



Map left: The map left measures the geographic spread of influenza viruses, but does not measure the intensity of influenza activity.

All Flu Bites data are preliminary and may change as additional reports are received. Find the most recent Flu Bites report online at: <http://www.oregon.gov/oha/ph/DiseasesConditions/CommunicableDisease/DiseaseSurveillanceData/Influenza/Pages/surveil.aspx>

Data at a Glance September 29—October 5, 2019 (Week 40)

	Current Week (40)	Previous Week (39)
Percentage of emergency department visits for ILI¹	1.0%	0.9%
Percentage positive influenza tests²	1.5%	—
Influenza-associated hospitalizations³	1	—
Reported influenza outbreaks	0	0
Influenza-associated pediatric mortality	0	0
Respiratory Syncytial Virus (RSV) activity⁴	0.7%	—

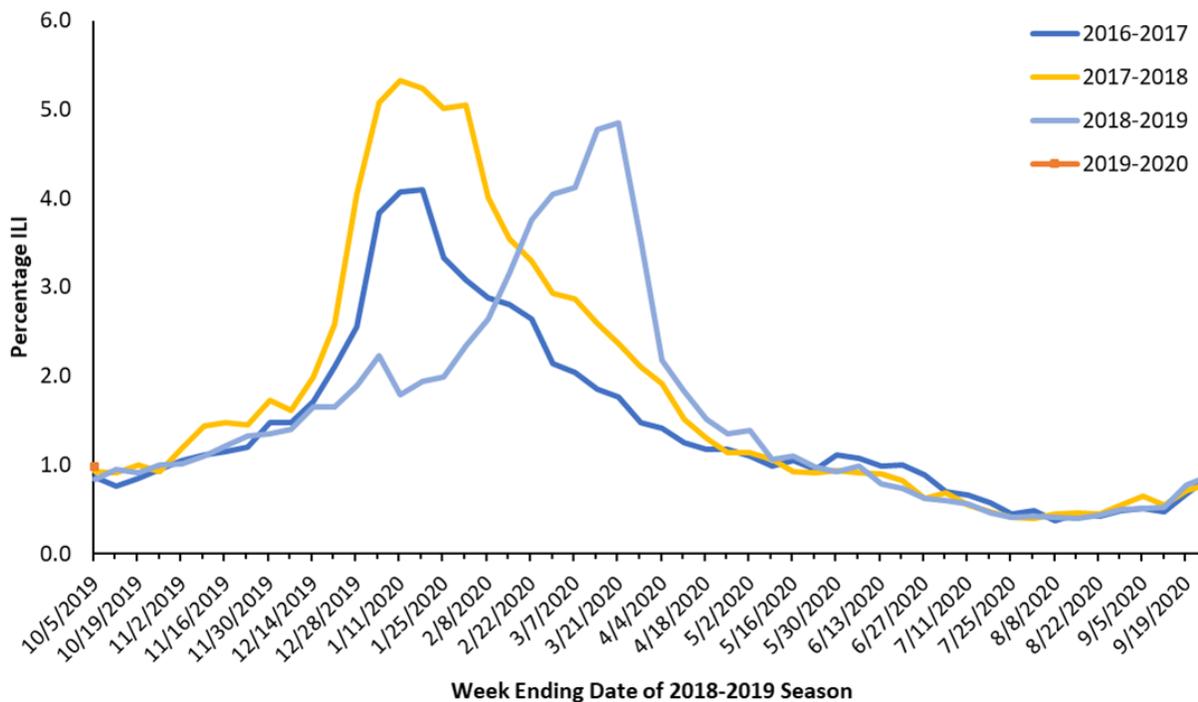
¹Based on Oregon ESSENCE Syndromic Surveillance. Data represent statewide aggregate percent.

²Percent positivity based on data from Oregon reporters to the National Respiratory and Enteric Virus Surveillance System (NREVSS)

³Based on hospitalization surveillance in Clackamas, Multnomah, and Washington counties only.

⁴Percent positivity based on data from Oregon's RSV Laboratory Surveillance System.

Figure 1. Percentage of ED Visits for ILI, Oregon ESSENCE Syndromic Surveillance, 2016–2017, 2017–2018, 2018–2019, 2019–2020



Oregon ESSENCE Syndromic Surveillance: Oregon Public Health tracks hospital emergency department (ED) visits throughout the state using the Oregon ESSENCE syndromic surveillance system. ESSENCE categorizes chief complaints into syndrome categories, which include ILI. Figure 1, above, displays percentages for all of Oregon during this flu season compared with the previous three flu seasons. The percent of ED visits for ILI in all of Oregon was 1.0% during week 40, 2019.

Laboratory Surveillance: The National Respiratory and Enteric Virus Surveillance System (NREVSS) is a laboratory-based system that monitors influenza and other respiratory viruses circulating the United States. More information is at CDC’s [website](#).

Table 1 shows the tests conducted and results by region for the current week for influenza in specimens tested at the Oregon laboratories reporting to NREVSS. Figure 2 shows that 1.5% of specimens tested at Oregon labs were positive for influenza during week 40, and the bar chart displays the number of influenza -positive tests by flu type and percent positivity.

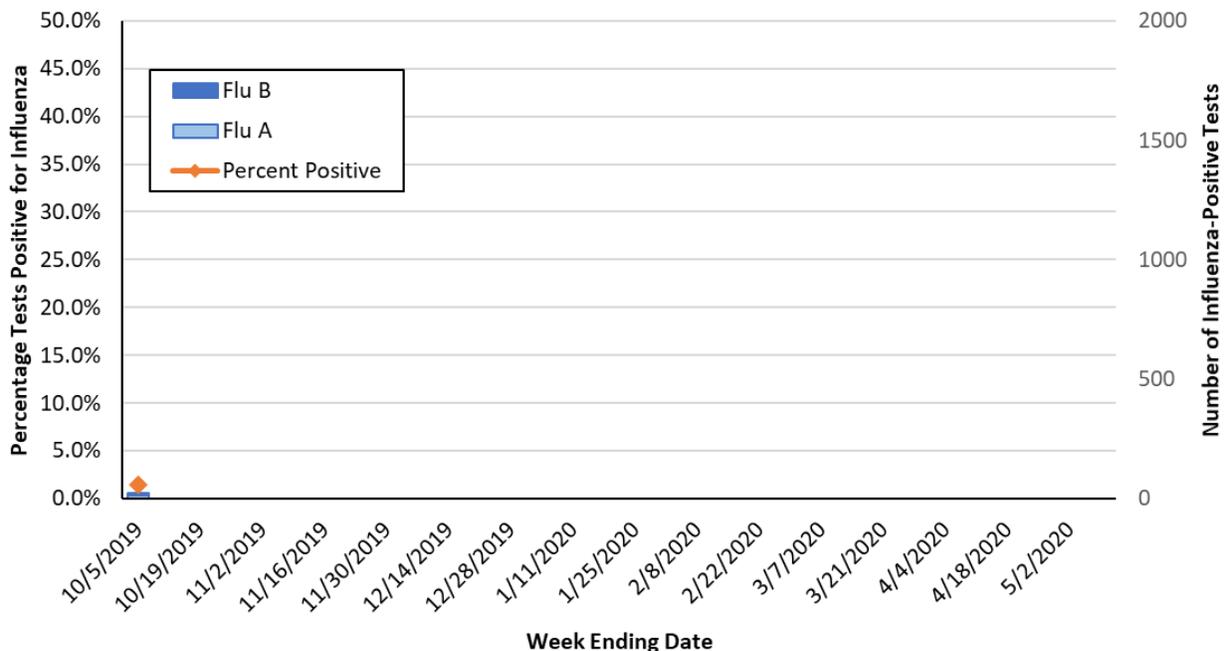
Participation by laboratories is voluntary. Current labs participating in NREVSS in Oregon include:

Legacy Emanuel Hospital and Health Center (Portland, OR), Oregon Health & Science University (Portland, OR), Providence Health (Oregon), Kaiser Permanente (Oregon), Veteran’s Administration Hospital (Portland, OR), Bay Area Hospital (Coos Bay, OR), Curry Health Network (Brookings, OR), Mercy Medical Center (Roseburg, OR), Sky Lakes Medical Center (Klamath Falls, OR), Lake Health District, (Lakeview, OR), Rogue Valley Medical Center (SW Oregon), Good Shepherd Medical Center (Hermiston, OR), Mid-Columbia Medical Center (The Dalles, OR), Central Oregon Pediatric Associates (Central Oregon), Harney District Hospital (Burns, OR), St. Charles (Bend, OR), Columbia Memorial Hospital (Astoria, OR), Salem Hospital (Salem, OR), Willamette Valley Medical Center (McMinnville, OR).

Table 1. Influenza Test Results in Oregon, NREVSS, Current Week, 2019–2020 Season

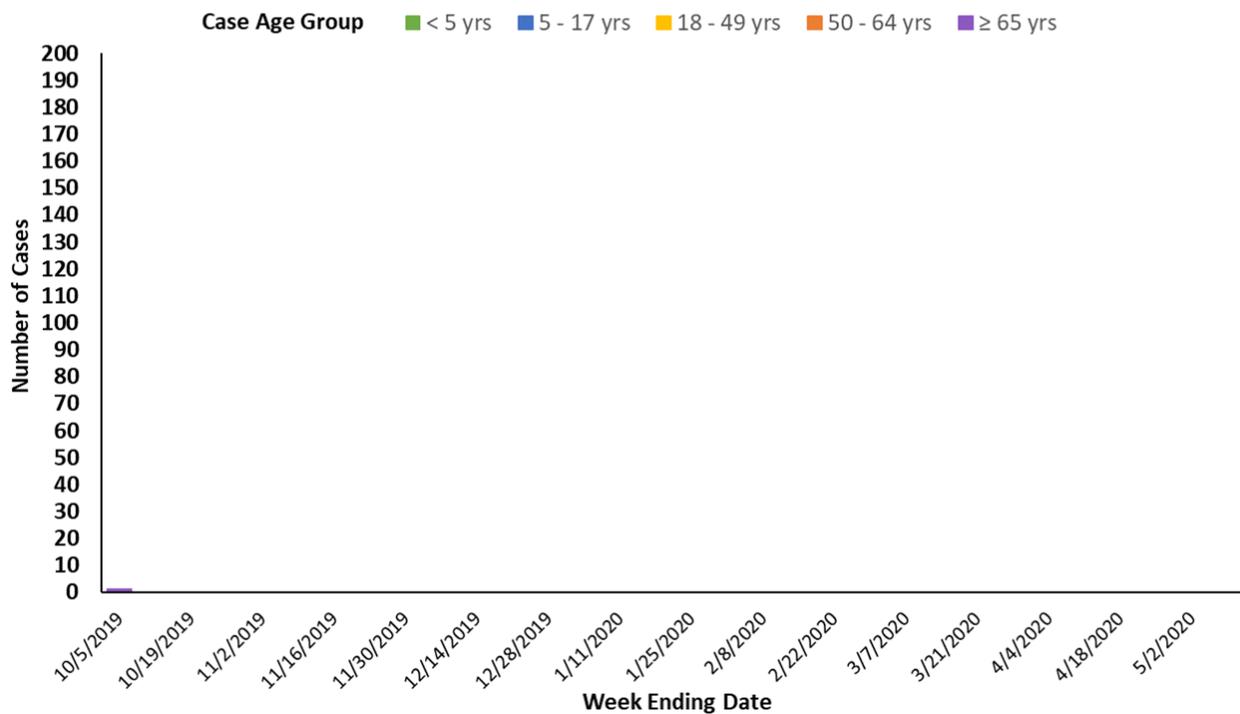
Region	Total Tests	Positive No. (%)	Flu A No. (%)	Flu B No. (%)
Portland Metro	878	11 (1.3%)	8 (72.7%)	3 (27.3%)
Southern Oregon	258	6 (2.3%)	5 (83.3%)	1 (16.7%)
Columbia Gorge	37	1 (2.7%)	0 (0.0%)	1 (100.0%)
Central Oregon	137	3 (2.2%)	2 (66.7%)	1 (33.3%)
Willamette Valley	106	0 (0.0%)	0 (0.0%)	0 (0.0%)
State Total	1,416	21 (1.5%)	15 (71.4%)	6 (28.6%)

**Figure 2. Oregon Influenza Laboratory Surveillance
Percent Positive Influenza Tests by Week, NREVSS, 2019-2020 Season**



Hospitalizations: In Clackamas, Multnomah, and Washington counties 1 influenza-associated hospitalization was reported during week 40 of 2019, the first week of surveillance this season. The test was positive for flu B.

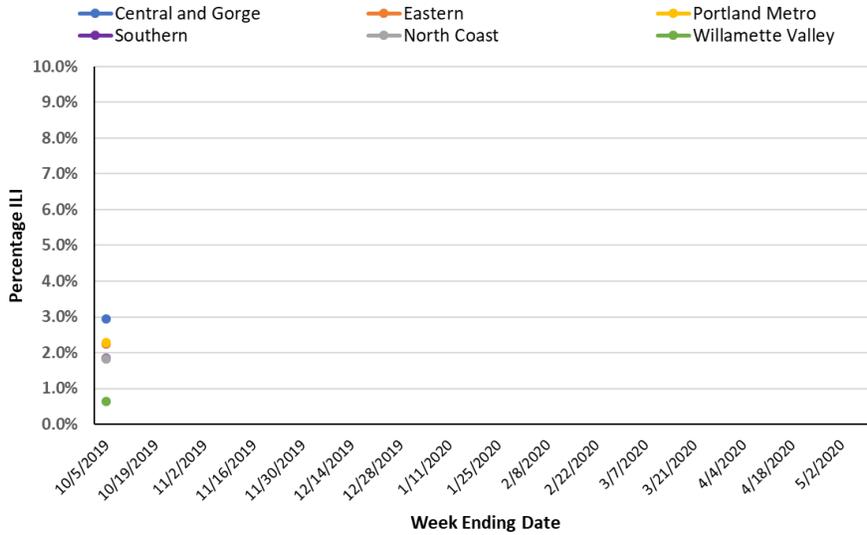
Figure 3. Portland Metro Area Influenza-Associated Hospitalizations by Week and Age Group, 2019-2020 Season



Influenza Outbreaks: There were 0 influenza outbreaks reported to the Oregon Health Authority during Week 40, 2019.

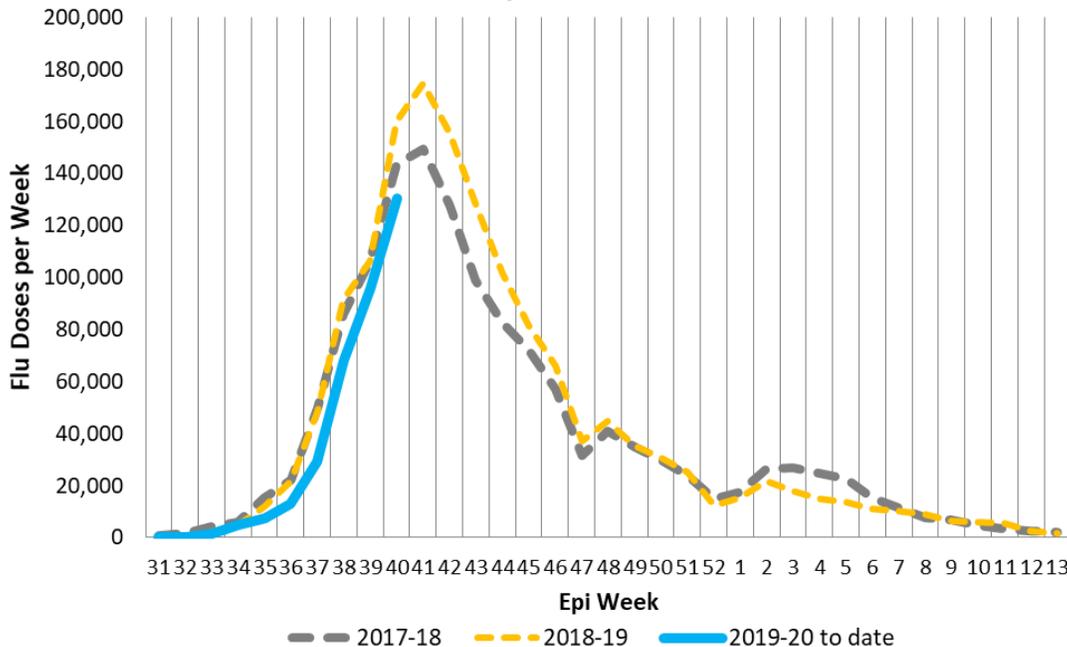
Outpatient Influenza-like Illness Surveillance: Oregon’s outpatient influenza-like illness (ILI) surveillance comprises 17 voluntary reporting outpatient providers, 64 emergency departments and urgent care clinics reporting to ESSENCE, and 175 OCHIN clinics from across Oregon. The percent of outpatients seen with ILI across the state during week 40 of 2019 was 1.9%. Regionally, the percent was highest in the Central Oregon and Gorge area (3.0%) and lowest in the Willamette Valley (0.6%).

Figure 4. Percentage of Visits for ILI at Outpatient Clinics & Emergency Departments, by Oregon Region, 2019-2020



Vaccination Information: Weekly influenza immunization reporting is based on ALERT Immunization Information System (ALERT IIS) data through Epi Week 40 of 2019 (October 5th). The ALERT IIS is Oregon’s all-age immunization registry. The Oregon Immunization Program estimates that last season, the ALERT IIS received reports for over 3/4th of all influenza immunizations given in Oregon, with greater than 90% reporting among children and seniors over age 65. We are currently building toward the peak of the influenza immunization season, which occurs in mid to late October. To date over 400,000 million influenza immunizations for Oregonians for this season have already been reported to the ALERT IIS. Patterns of influenza immunization uptake this season are so far a close match to the patterns of the last two seasons. As a caveat, while most immunizations are reported quickly and electronically to ALERT IIS, some reporting is delayed- current weekly totals will be adjusted upward later.

Figure 5. 2019-2020 Oregon Flu Vaccine Doses in ALERT IIS by Epiweek



US Data (from CDC FluView): Seasonal influenza activity remains **low** in the United States.

Viruses

- **Clinical Lab:** 3.1% of respiratory specimens tested in clinical laboratories were positive for influenza viruses. This is approximately the same as the previous week.
- **Public Health Lab:** Influenza A viruses predominated this week with equal numbers of (H3N2) and (H1N1)pdm09 viruses reported.
- **Virus Characterization:** Influenza virus characterization information will be updated weekly starting later this season.

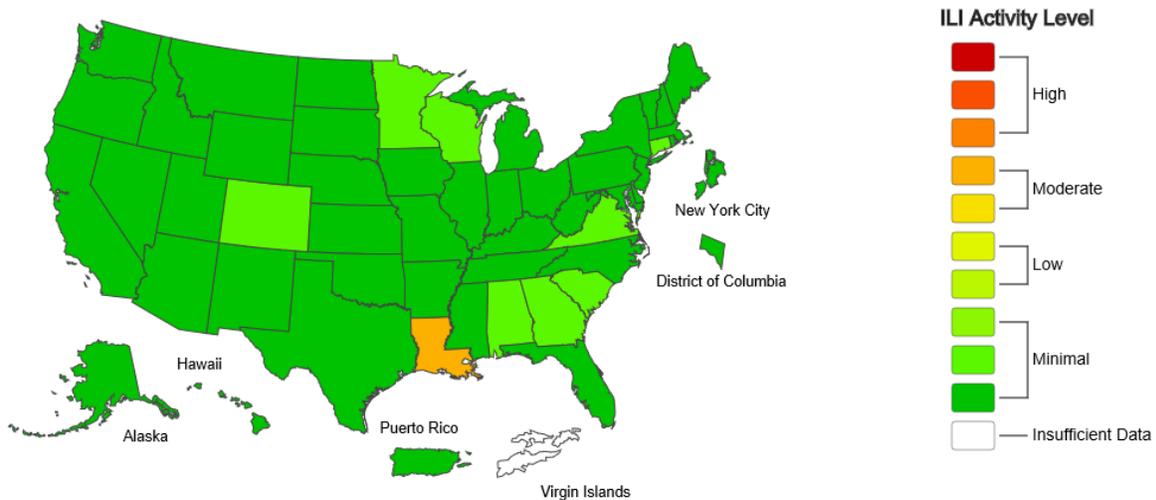
Illness

- **ILINet Outpatient Illness:** 1.4% of visits to a health care provider were for ILI. ILI activity remains **below** the national baseline of 2.4% but increased slightly from the previous week.
- **ILINet Activity Map:** The majority of jurisdictions experienced minimal ILI activity; however, Louisiana experienced moderate ILI activity.
- **Geographic Spread:** 4 out of 53 jurisdictions reported local flu activity; the remainder reported sporadic or no flu activity.

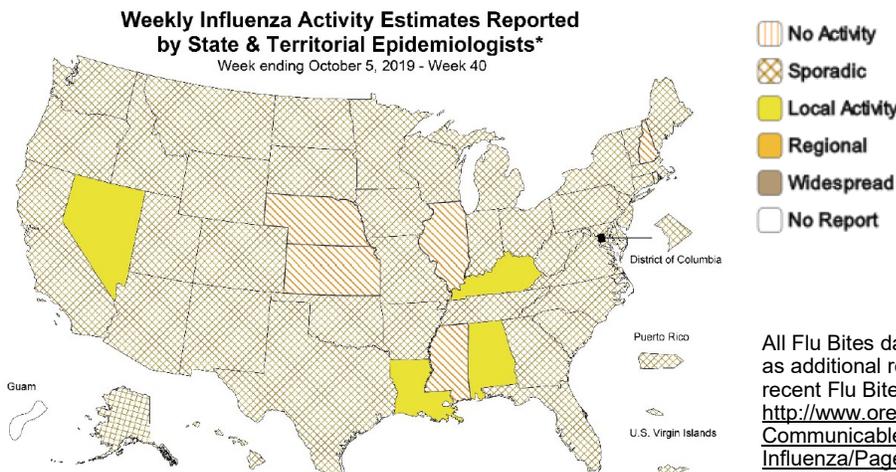
Severe Disease

- **Hospitalizations:** Hospitalization rates will be updated weekly starting later this season.
- **P&I Mortality:** 5.0% of deaths were attributed to pneumonia and influenza (P&I). This is **below** the epidemic threshold of 5.6%.
- **Pediatric Deaths:** No influenza-associated pediatric deaths occurring during the 2019-20 season have been reported to CDC. 138 pediatric deaths occurring during the 2018-2019 season have been reported.

Influenza-Like Illness (ILI) Activity Level Indicator Determined by Data Reported to ILINet
2019-20 Influenza Season Week 40 ending Oct 05, 2019



Map above: This map uses the proportion of outpatient visits to ILINet sentinel providers for influenza-like illness to measure the ILI activity level within a state. It does not, however, measure the extent of geographic spread of flu within a state. Therefore, outbreaks occurring in a single city could cause the state to display high activity levels.



Map left: The map left measures the geographic spread of influenza viruses, but does not measure the intensity of influenza activity.

All Flu Bites data are preliminary and may change as additional reports are received. Find the most recent Flu Bites report online at:
<http://www.oregon.gov/oha/ph/DiseasesConditions/CommunicableDisease/DiseaseSurveillanceData/Influenza/Pages/surveil.aspx>