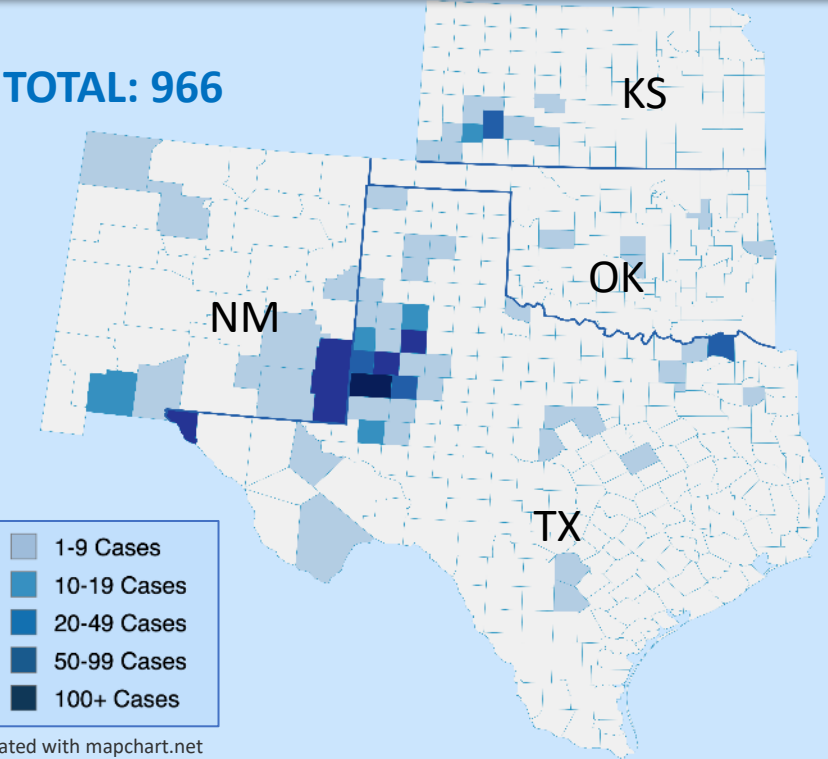





YALE SCHOOL OF PUBLIC HEALTH - ESF-8 VIRTUAL MEDICAL OPERATION CENTER SPECIAL REPORT

MEASLES OUTBREAK - SOUTHWEST U.S. - 2025

TOTAL: 966



MORBIDITY AND MORTALITY

STATE	CASES 	HOSPITALIZATIONS 	DEATHS 
TX	764 (+9)	99 (+1)	2
NM	95	7	1
OK	20	0	0
KS	87 (+3)	8 (+1)	0
TOTAL	966 (+13)	114 (+2)	3

BACKGROUND

TIMELINE

CURRENT SITUATION

EPI CURVE / CASES OVER TIME

EPI SUMMARY

US OUTLOOK

MEXICO OUTLOOK

CANADA OUTLOOK

WHO MEASLES REPORT – JULY 2025

EASTERN MEDITERRANEAN REGION OUTLOOK

7/20/2025
2300 HRS EDT

RISK ASSESSMENT IN OUTBREAK AREAS

Risk for Localized Spread	Risk to unvaccinated populations in and around the outbreak areas	Risk to Children	Potential for sustained transmission
HIGH	HIGH	HGH	HIGH

LINKS

TEXAS LINKS

- [TEXAS DEPARTMENT OF STATE HEALTH SERVICES](#)

FACEBOOK | X

- [HEALTH ALERTS](#)
- [THE SOUTH PLAINS PUBLIC HEALTH DISTRICT](#)

NEW MEXICO LINKS

- [NEW MEXICO DEPARTMENT OF HEALTH](#)

OKLAHOMA LINKS

- [OKLAHOMA STATE DEPARTMENT OF HEALTH](#)

KANSAS

- [KANSAS DEPARTMENT OF HEALTH AND ENVIRONMENT](#)

RESOURCES FOR HEALTHCARE PROVIDERS

- [CDC – MEASLES FOR THE HEALTHCARE PROFESSIONALS](#)
- [CDC VIDEO: MEASLES CLINICAL FEATURES AND DIAGNOSIS](#)
- [CDC CLINICAL IMAGES OF MEASLES](#)
- [CDC LABORATORY TESTING FOR MEASLES](#)
- [CDC ROUTINE VACCINATION RECOMMENDATIONS](#)
- [CDC ISOLATION RECOMMENDATIONS](#)
- [CDC: MEASLES CONTROL IN HEALTHCARE SETTINGS](#)
- [CDC ALERT SIGN INFOGRAPHIC](#)
- [CDC POSTER FOR OFFICE DISPLAY](#)
- [NY HEALTH: RECOGNIZING MEASLES FACT SHEET](#)
- [NY HEALTH: DEALING WITH VACCINE HESITANCY](#)
- [MEASLES POST-EXPOSURE PROPHYLAXIS](#)
- [MEASLES REVIEW FOR PROVIDERS](#)

MEASLES TESTING LABORATORIES

- [CDC MEASLES VIRUS LABORATORY](#)

RESOURCES FOR THE PUBLIC

- [CDC – MEASLES](#)
- [MEASLES CASES AND OUTBREAKS](#)
- [NYSDOH: YOU CAN PREVENT MEASLES](#)
- [CDC VIDEO: GET VACCINATED AND PREVENT MEASLES](#)
- [CDC VACCINE SHOT FOR MEASLES](#)
- [DIRECTORY FOR LOCAL HEALTH DEPARTMENTS](#)

RESOURCES FOR EMS PROVIDERS

- [GUIDANCE FOR SUSPECTED MEASLES PATIENT](#)
- [NYSDOH POLICY STATEMENT](#)

PORTALS, BLOGS, AND RESOURCES

- [CIDRAP](#)
- [CORI](#)
- [FORCE OF INFECTION](#)
- [KAISER HEALTH NEWS](#)
- [MEDPAGE TODAY](#)
- [NY STATE GLOBAL HEALTH UPDATE](#)
- [THE PANDEMIC CENTER TRACKING REPORT](#)
- [YOUR LOCAL EPIDEMIOLOGIST](#)

BACKGROUND

TYPE OF PUBLIC HEALTH EMERGENCY: **LARGE REGIONAL MEASLES OUTBREAK**

OVERVIEW: A measles outbreak originating in West Texas has spread to New Mexico, Oklahoma, and Kansas, resulting in **114 hospitalizations and three confirmed deaths**—including two previously healthy children in Texas and one adult in New Mexico. These mark the first U.S. measles-related deaths since 2015 and the first pediatric fatalities since 2003. Genetic and epidemiological evidence links this outbreak to the current measles surge in Chihuahua, Mexico, underscoring clear cross-border transmission.

THE VIRUS: [Measles](#) is a highly contagious viral disease transmitted primarily through respiratory droplets from coughing or sneezing. **Symptoms include high fever, cough, runny nose, conjunctivitis, and a characteristic red, blotchy rash.** The virus can remain airborne or infectious on surfaces for up to two hours, contributing to its rapid spread.

VACCINATION: Although entirely preventable through the [MMR](#) (measles, mumps, and rubella) vaccine, outbreaks continue to occur in under-vaccinated communities, leading to serious health outcomes and increased transmission risk ([CDC](#)). Since 2019, national MMR vaccination rates among children have declined—a trend that coincided with the COVID-19 pandemic. This drop reflects a convergence of complex factors, including socioeconomic inequities, limited access to healthcare, under-resourced public health systems, and localized vaccine hesitancy ([JAMA](#)).

IN THE US: **As of 7/20/2025, the United States has reported 1,315 measles cases in 2025—the highest total in 33 years.** This resurgence poses a serious threat to the nation’s measles elimination status, achieved 25 years ago through sustained high vaccination coverage. If outbreaks persist without interruption for more than 12 months, the U.S. risks losing its official designation as an eliminated country.

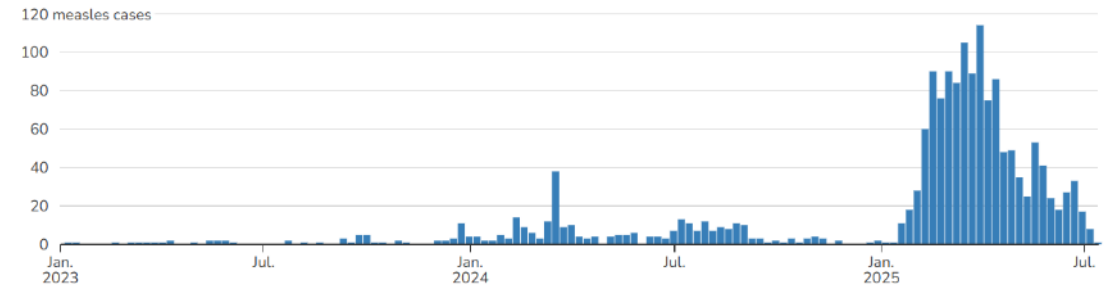
GLOBAL TRENDS: Over the past 20 years, vaccination rates have declined globally, leading to a worldwide increase in measles cases. The Americas have experienced a 29-fold increase in cases compared to this time last year (PAHO). According to the WHO’s latest report, there were 188,355 suspected cases and 88,853 confirmed cases ([WHO](#)). This week, we examine the WHO’s Eastern Mediterranean Region, where three of the top five countries with the most measles cases (Yemen, Pakistan, and Afghanistan) are located.

SOURCES: [CENTER FOR OUTBREAK RESPONSE \(CORI\)](#), [CDC](#), [TX MEASLES OUTBREAK](#), [NM MEASLES OUTBREAK](#), [OSDH](#), [KDHE](#), [TRENDS IN COUNTY-LEVEL MMR VACCINATION COVERAGE IN CHILDREN IN THE UNITED STATES](#), [EPIDEMIOLOGICAL UPDATE - MEASLES IN THE AMERICAS REGION](#), [MEASLES AND RUBELLA GLOBAL UPDATE JUNE 2025](#)

MEASLES CASES IN 2025 - CDC

1,309 (+21) CONFIRMED MEASLES CASES (AS OF 7/15/2025)

2023–2025* (as of July 15, 2025)



As of July 15, 2025, a total of 1,309 confirmed* measles cases were reported by 40 jurisdictions: Alaska, Arkansas, Arizona, California, Colorado, Florida, Georgia, Hawaii, Illinois, Indiana, Iowa, Kansas, Kentucky, Louisiana, Maryland, Michigan, Minnesota, Missouri, Montana, Nebraska, New Jersey, New Mexico, New York City, New York State, North Carolina, North Dakota, Ohio, Oklahoma, Oregon, Pennsylvania, Rhode Island, South Carolina, South Dakota, Tennessee, Texas, Utah, Vermont, Virginia, Washington, and Wyoming.

Age

Under 5 years: 375 (29%)
5-19 years: 482 (37%)
20+ years: 440 (34%)
Age unknown: 12 (1%)

Vaccination Status

Unvaccinated or Unknown: 92%
One MMR dose: 4%
Two MMR doses: 4%

Percent Hospitalized: 13%

Under 5 years: 21% (79 of 375)
5-19 years: 8% (37 of 482)
20+ years: 11% (47 of 440)
Age unknown: 8% (1 of 12)

Deaths: 3

There have been 3 confirmed deaths from measles.

TIMELINE (JANUARY – JULY 2025)

JANUARY 2025 INDEX CASES IDENTIFIED

FEBRUARY 2025 OUTBREAK DECLARED & SPREADS

MARCH 2025 RAPID REGIONAL EXPANSION

APRIL 2025 PEAK OF TRANSMISSION

MAY – JULY 2025 SLOWING BUT PERSISTENT

1/29

South Plains Public Health District, TX reports a measles case in Gaines County.

2/5/25

The Texas Department of State Health Services (DSHS) declares an outbreak. 6 cases are identified, all among unvaccinated school-aged children from Gaines County.

2/15

The New Mexico Department of Health (NMDOH) confirms an **outbreak** with 14 cases in Lea County.

2/26/25 (TX):

DSHS reports the death of a school-aged child who had been hospitalized in Lubbock.

2/28

DSHS reports 146 cases, 1 fatality, and 20 hospitalizations.

NMDOH reports 20 cases.

3/1–3/15

DSHS reports 259 cases, 1 fatality, and 34 hospitalizations.

3/6 - NMDOH reports the death of a male adult.

3/11- Oklahoma (OSDH) reports **two linked cases** to the Texas outbreak.

3/13 - First Kansas case genetically linked to TX.

3/16 - 5/31

DSHS reports 400 cases, 1 fatality, and 41 hospitalizations.

NMDOH reports 44 cases, 1 fatality, and 2 hospitalizations.

OSDH reports 9 cases.

KDHE reports 23 cases.

4/1 - 4/15

4/5 - DSHA reports the death of a second child.

DSHS reports 561 cases, 2 fatalities, and 58 hospitalizations.

NMDOH reports 63 cases, 1 fatality, and 5 hospitalizations.

OSDH reports 12 cases.

KDHE reports 38 cases and 1 hospitalization.

4/16 - 4/31

DSHS updates the outbreak to 663 cases, 2 fatalities, and 83 hospitalizations.

NMDOH reports 6 cases, 1 fatality, and 2 hospitalizations.

OSDH reports 16 cases.

KDHE reports 46 cases and 1 hospitalization.

5/1- 5/15

DSHS reports 718 cases, 2 fatalities, and 92 hospitalizations.

NMDOH reports 71 cases, 1 fatality, and 7 hospitalizations.

OSDH reports 17 cases.

KDHE reports 54 cases and 2 hospitalizations.

5/16 – 7/20

DSHS reports 762 cases, 2 fatalities, and 99 hospitalizations.

NMDOH reports 95 cases, 1 fatality, and 7 hospitalizations.

OSDH reports 20 cases.

KDHE reports 87 cases and 8 hospitalizations.

CURRENT SITUATION

As of July 20, 2025, the Southwestern outbreak has **966 cases**, including confirmed and pending cases across **Texas, New Mexico, Oklahoma, and Kansas**. The situation remains fluid.

CURRENT CASE COUNT: 966

- **Texas: 764 (+9)** (55% of cases are from Gaines County)
- **New Mexico: 95** (70% of cases are from Lea County)
- **Oklahoma: 20**
- **Kansas: 87 (+3)** (33% of the cases are from Gray County)

HOSPITALIZATIONS: 114

- **Texas: 99 (+1)** – This accounts for 13% of all cases in Texas.
- **New Mexico: 7** – This accounts for 7.4% of all cases in New Mexico.
- **Kansas 8 (+1)** – This accounts for 9.2% of all cases in the state of Kansas.

DEATHS: 3

- **Texas: 2** – This is 0.26% of all cases in Texas.
- **New Mexico: 1** – This represents 1.05% of all cases in New Mexico.

US NATIONAL CASE COUNT: 1,315 (AS OF 7/20/2025)

INTERNATIONAL SPREAD

- **Mexico: 3,336 (+179), 10 fatalities**
 - **Chihuahua Outbreak, Mexico: 2,922 (+207)** cases, **9** fatalities, **9** currently hospitalized
 - **Sonora Outbreak, Mexico: 83** cases, **1** fatality
- **Canada: 4,075 (+229), 1 fatality**
 - **Ontario Outbreak, Canada: 2,276 (+32)** cases, **161 (+6)** hospitalizations, **1** fatality
 - **Alberta Outbreak, Canada: 1,407 (+123)** cases, **102 (+2)** hospitalized.

This week, we examine the WHO’s Eastern Mediterranean Region, where three of the top five countries with the most measles cases (Yemen, Pakistan, and Afghanistan) are located.

AGES OF CASES:

WEST TEXAS OUTBREAK				
0-4 Years	5-17 Years	18+ Years	Pending	Total
225 (29%)	286 (37%)	247 (32%)	6 (0.8%)	764
NEW MEXICO OUTBREAK				
0-4 Years	5-17 Years	18+ Years	Pending	Total
24 (25%)	20 (21%)	51 (54%)	0	95
KANSAS OUTBREAK				
0-4 Years	5-17 Years	18+ Years	Pending	Total
37 (+3) (42.5%)	33 (38%)	17 (19.5%)	0	87
OKLAHOMA OUTBREAK				
0-4 Years	5-17 Years	18+ Years	Pending	Total
17 Cases Confirmed, 3 Probable – no ages provided			3	20

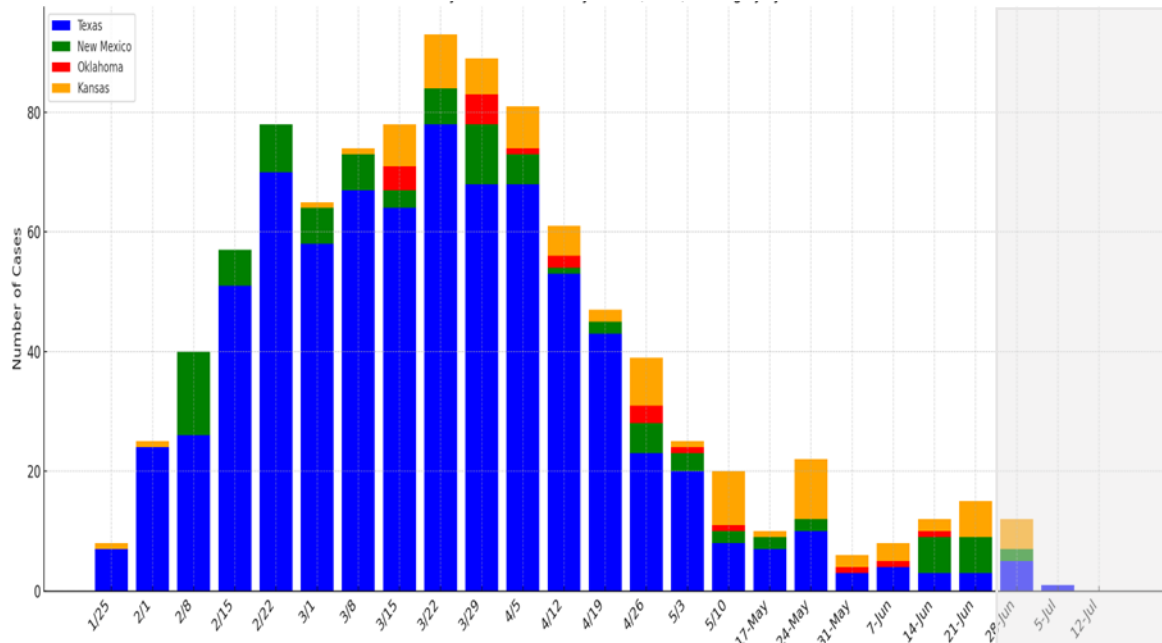
VACCINATION STATUS

STATE	VACCINATED WITH 1 DOSE	VACCINATED WITH 2 DOSES	UNVACCINATED/ UNKNOWN	TOTAL CASES
TX	22	21	721*	764
NM	15	52	28	95
OK	0	1	19	20

STATE	AGE APPROPRIATELY VACCINATED	NOT AGE APPROPRIATELY VACCINATED	NOT VACCINATED	PENDING VERIFICATION/ UNABLE TO VERIFY	TOTAL CASES
KS	7	1	72	7	87

EPI CURVE AND CASES OVER TIME

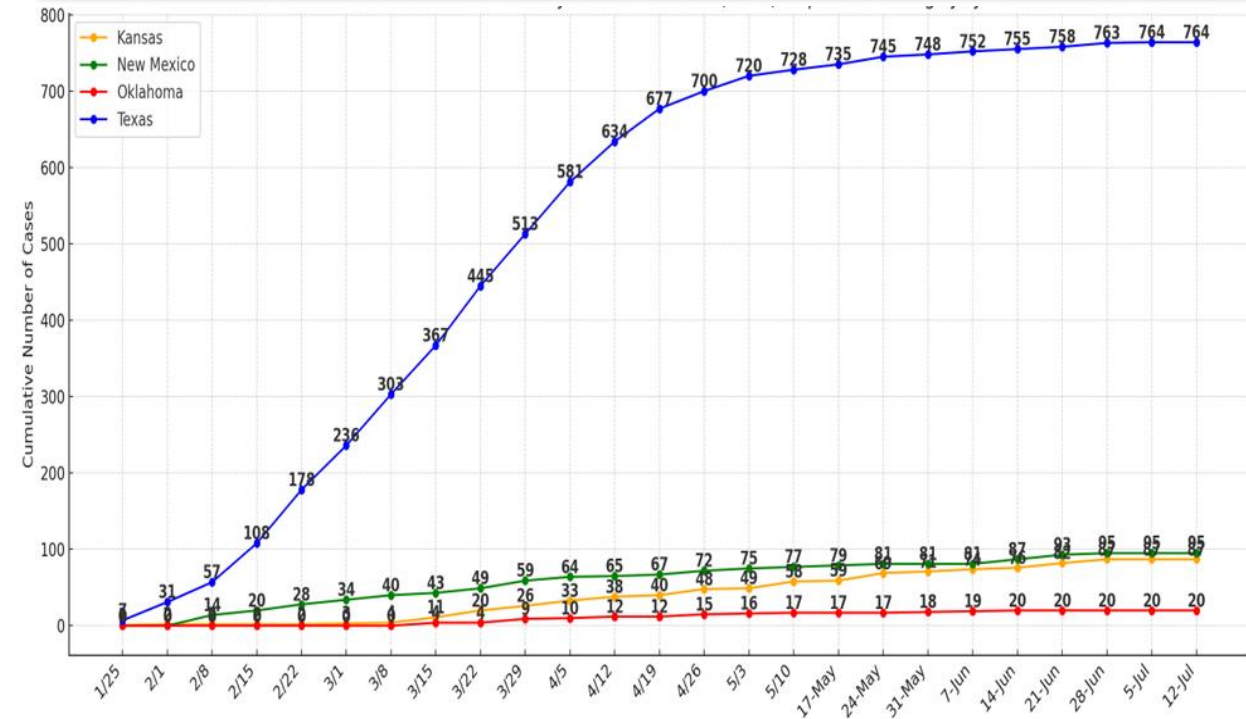
SOUTHWEST MEASLES OUTBREAK – EPI CURVE (WEEK ENDING 07/19/2025)



The number of new cases per week is declining in Texas and Oklahoma, while cases in New Mexico remain sporadic, and Kansas is experiencing a rise.

- **TX:** Reported first case the week of 1/25/25.
- **NM:** Reported first cases the week of 2/8/25.
- **OK:** Reported first cases the week of 3/15/25.
- **KS:** Reported first cases the week of 3/15/25.

CUMULATIVE CASES OVER TIME (WEEK ENDING 07/19/2025)



Cases are stable or slowly rising.

- **TX:** A total of 764 cases across 37 counties.
- **NM:** A total of 95 cases across 8 counties.
- **OK:** A total of 20 cases (17 confirmed, 3 probable) have been reported.
- **KS:** A total of 87 cases across 9 counties.

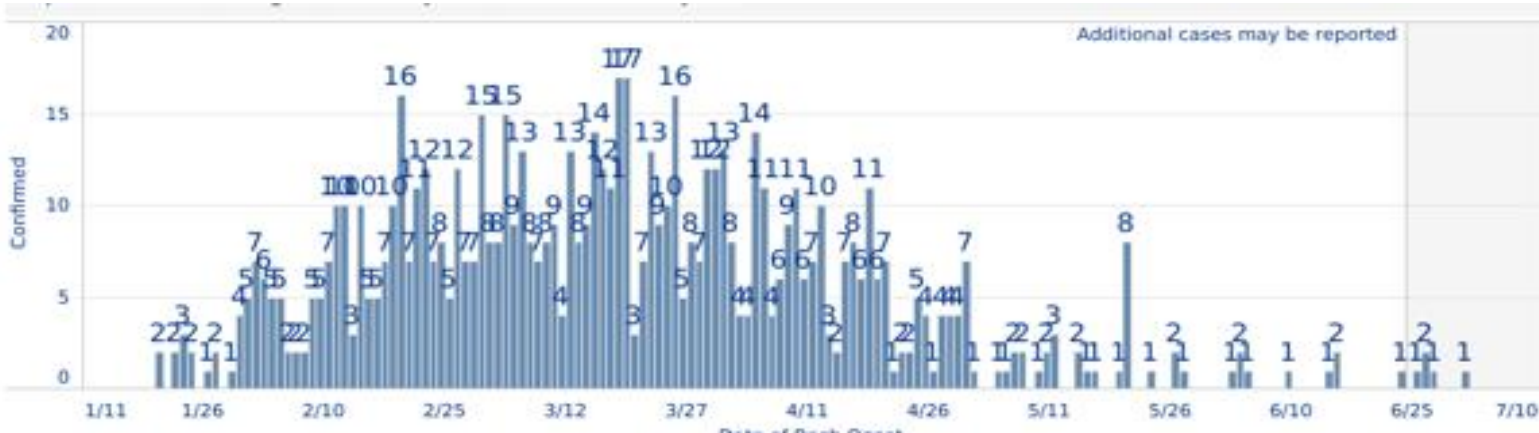
EPI SUMMARY – TEXAS

(n= 755) AS OF 7/12/2025

COUNTY	MEASLES CASES (NUMBER OF NEW CASES)	% of TOTAL CASES	% KINDERGARTENERS VACCINATED (2023-2024)	# OF SCHOOL DISTRICTS IN EACH COUNTY WITH MMR BELOW 95%
Andrews	3	0.40%	97.70%	0
Atascosa	1	0.13%	98.51%	0
Bailey	2	0.26%	98.94%	0
Bexar	1	0.13%	94.44%	1
Borden	1	0.13%	94.44%	1
Brewster	1	0.13%	94.74%	1
Brown	1	0.13%	93.64%	5
Carson	1	0.13%	91.67%	3
Cochran	14	1.85%	95.20%	1
Collins	1	0.13%	93.31%	16
Dallam	7	0.93%	95.30%	2
Dawson	26	3.44%	88.10%	4
Eastland	2	0.26%	95.63%	2
Ector	12	1.59%	91.30%	5
El Paso	61*	8.08%	96.37%	8
Erath	1	0.13%	93.94%	5
Fannin	4 (NEW)	0.55%	94.15%	6
Gaines	414	54.83%	82.00%	3
Garza	2	0.26%	97.10%	0

COUNTY	MEASLES CASES (NUMBER OF NEW CASES)	% of TOTAL CASES	% KINDERGARTENERS VACCINATED (2023-2024)	# OF SCHOOL DISTRICTS IN EACH COUNTY WITH MMR RATES BELOW 95%
Hale	5	0.66%	98.30%	2
Harderman	1	0.13%	94.40%	3
Hockley	6	0.79%	94.40%	3
Lamar	28 (+5)	3.05%	96.84%	0
Lamb	1	0.13%	97.37%	1
Lubbock	53	7.02%	92.25%	8
Lynn	2	0.26%	92.16%	2
Martin	3	0.40%	96.59%	1
McLennan	9	1.19%	96.53%	6
Midland	6	0.79%	94.77%	4
Parmer	5	0.66%	95.04%	1
Potter	1	0.13%	96.32%	3
Randall	1	0.13%	93.95%	1
Reeves	2	0.26%	94.92%	1
Rockwell	1	0.13%	91.47%	2
Terry	60	7.95%	95.52%	2
Upshur	5	0.66%	93.30%	2
Yoakum	20	2.65%	92.50%	1

*Cases reported by El Paso

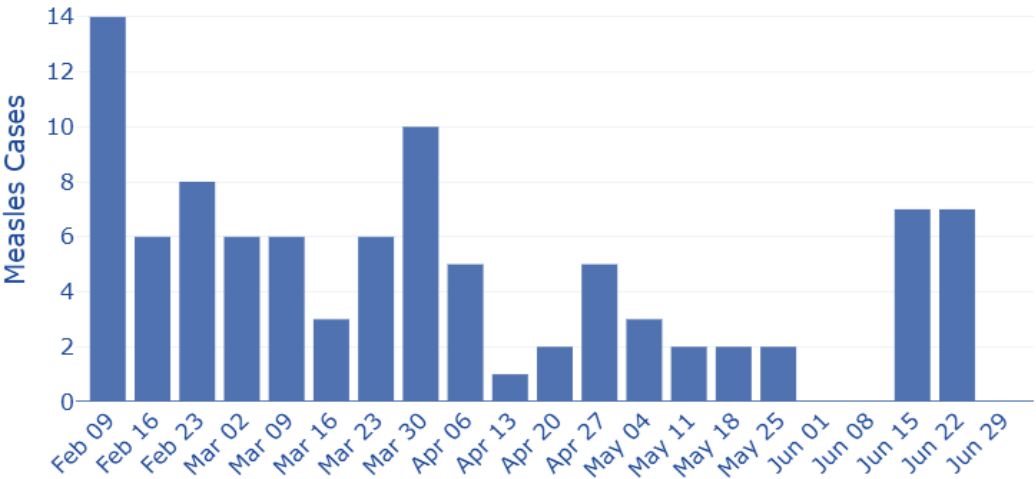


- SOURCES:
- [Measles Outbreak – 15 JULY 2025 | Texas DSHS](#)
 - [Measles Outbreak El Paso 6 June 2025](#)
 - [2023-2024 School Vaccination Coverage Levels by District/Private School and County - Kindergarten \(XLS\)](#)

EPI SUMMARY – NEW MEXICO

COUNTY	MEASLES CASES (NUMBER OF NEW CASES)	% of TOTAL CASES	% KINDERGARTENERS VACCINATED (2023-2024)
New Mexico (n=95) AS OF 7/12/2025			
Chaves	1	1.05%	98%
Curry	1	1.05%	95%
Doña Ana	2	2.11%	95%
Eddy	3	3.16%	93%
Lea	67 (+1)	70.52%	94%
Luna	14 (+9)	14.74%	
San Juan	1 (New)	1.05%	
Sandoval	6	6.32%	94

Measles by Case Week

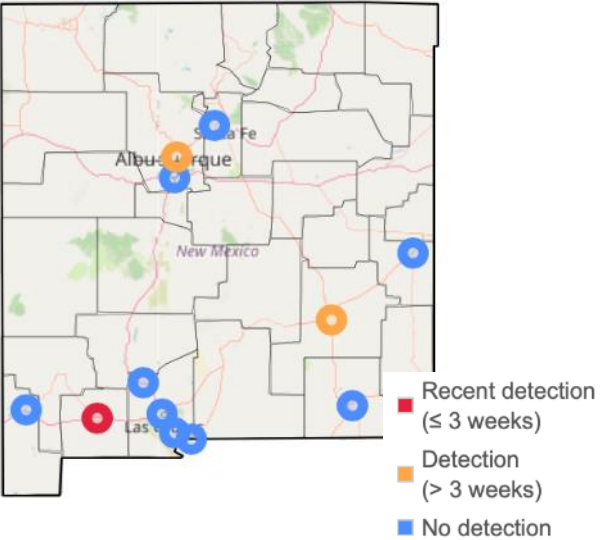


*If date of rash not available, the following hierarchy is used for date: symptom onset date, specimen collection date, hospital admission date, or date reported.

Measles Virus Detected in Wastewater by Treatment Plant Site

Treatment Plant	# Detections	Most Recent Detection
City of Deming WWTP	3	07/10/2025
City of Rio Rancho WWTP #2	1	05/01/2025
City of Roswell WWTP	1	06/05/2025
Total	5	---

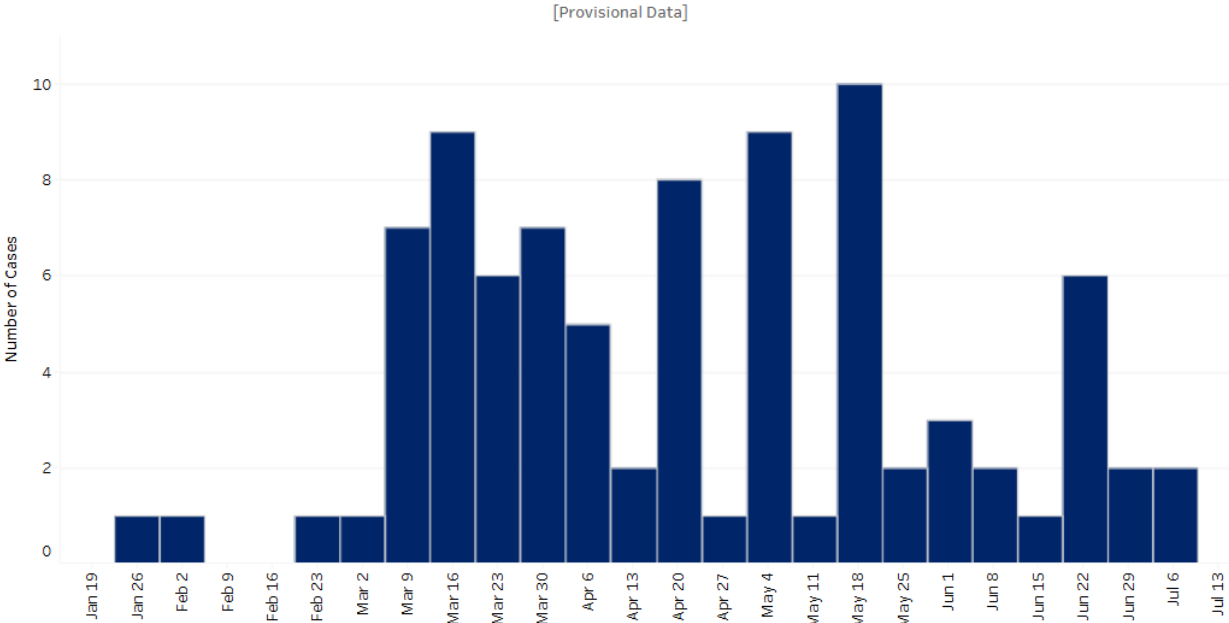
Measles Virus Detected in Wastewater by Treatment Plant Site (as of 7/14/25)



EPI SUMMARY – KANSAS

COUNTY	MEASLES CASES (NUMBER OF NEW CASES)	% of TOTAL CASES	% KINDERGARTENERS VACCINATED (2023-2024)
KANSAS (n=84) AS OF 7/12/2025			
Finney	Between 1- 5		98%
Ford	Between 1- 5		87%
Grant	Between 1- 5		99%
Gray	28 (+2)	33.33%	66%
Haskell	18 (+1)	21.43%	58%
Kiowa	6	7.14%	92%
Morton	Between 1- 5		82%
Pawnee	7	8.33%	90%
Stevens	7	8.33%	83%

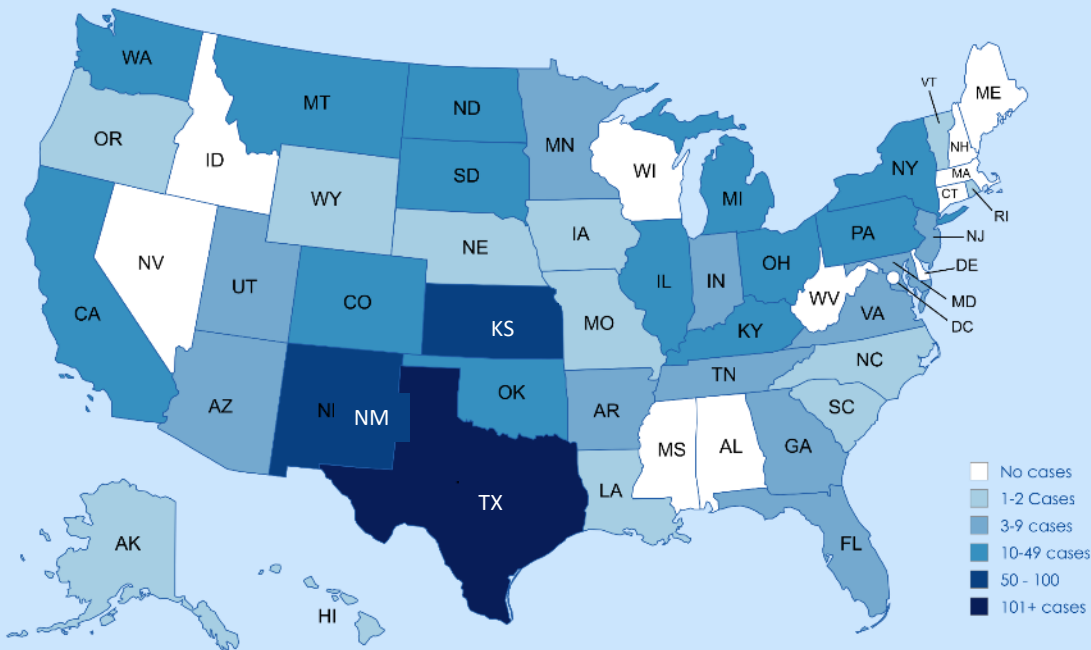
Southwest Kansas Measles Outbreak Cases by Week of Symptom Onset



US OUTLOOK

*** NOTE:** The information on this page has been gathered by reviewing data from state and local health departments, news media sources, and the Center for Outbreak Response Innovation (CORI)

1,315*



The increase in measles cases can be attributed to falling vaccination rates and increased importation of travel-related cases, which occur when unvaccinated people acquire measles abroad and bring it back to the U.S.

STATE	CASES
TEXAS **	796
NEW MEXICO	95
KANSAS	90
NORTH DAKOTA	36
OHIO	35
MONTANA	26
OKLAHOMA	20
MICHIGAN	19
CALIFORNIA	17
COLORADO	16
PENNSYLVANIA	15
NEW YORK	14
KENTUCKY	13
SOUTH DAKOTA	12
ILLINOIS	10
UTAH	10
WASHINGTON	10
INDIANA	9
ARKANSAS	8
IOWA	7
MISSOURI	7
GEORGIA	6
TENNESSEE	6
MINNESOTA	5
NEW JERSEY	5
ARIZONA	4
FLORIDA	4
MARYLAND	3
VIRGINIA	3
ALASKA	2
HAWAII	2
LOUISIANA	2
WYOMING	2
NEBRASKA	1
NORTH CAROLINA	1
OREGON	1
RHODE ISLAND	1
SOUTH CAROLINA	1
VERMONT	1
TOTAL	1,315

- OUTBREAKS**
- SMALL OUTBREAK (3-9)
 - MEDIUM OUTBREAK (10 - 49)
 - LARGE OUTBREAK (50 OR MORE)

An outbreak of measles is defined as three or more laboratory-confirmed cases that are temporally related and epidemiologically or virologically linked.

As of 1800 hours on 20 July 2025, EDT, there are approximately 1,313 measles cases (including confirmed and suspected cases) across 40 states.

This year, there have been at least 29 measles outbreaks. Here are some listed below:

- **Texas**, involving [37 counties](#)
- **New Mexico**, [6 counties](#)
- **Oklahoma**, and the [Cherokee Nation](#) in Oklahoma
- [9 counties in Kansas](#)
- **Ashtabula and Knox Counties, Ohio**
- **Erie County, Pennsylvania**
- **Allen County, Indiana**
- **Bergen County, New Jersey**
- **Metro Atlanta, Georgia**
- **Gallatin County, Montana**
- **Montcalm County, Michigan** (linked to Ontario Outbreak) and a 2nd outbreak in Grand Traverse County
- **Upper Cumberland region, Tennessee**
- **Williams County, Grand Rapids, North Dakota**
- **Faulkner County, Arkansas**
- **Utah County, Utah**
- **Navajo County, Arizona**

**** TEXAS CASES NOT ASSOCIATED WITH OUTBREAK: 34**

- 1 case – Bell County
- 1 case – Brazoria County
- 3 cases – Collin County
- 1 case – Dallas County
- 2 case – Denton County
- 2 cases – El Paso County
- 1 Case – Fannin County
- 1 Case – Adult, Fort Bend (travel-related)
- 3 cases – Harris County
- 1 case – Harrison County.
- 1 case – Hays County
- 3 cases – Lamar County
- 2 case – Randall County
- 1 case – Adults, Rockwall County (travel-related)
- 1 Case – Scurry County
- 1 case – Shackelford
- 4 cases – Tarrant
- 2 case – Travis County
- 6 cases - Williamson

TEXAS CASES ASSOCIATED WITH THE OUTBREAK: 762

US OUTLOOK: THINGS TO KEEP AN EYE ON

MONTANA: Montana's measles case count has risen to 26, following the confirmation of an additional case, according to the Cascade City-County Health Department. In addition to this case, health officials in Yellowstone have identified a highly suspect case of measles in a school-aged Yellowstone County child who visited a local healthcare facility on Friday, July 18. The child had recently traveled with their family to an area where measles is spreading. The child is unvaccinated. Medical providers have sent a throat swab and a blood sample to the Montana State Laboratory for confirmation of the diagnosis. The child attended a Vacation Bible school in Billings while contagious July 14-16. Health officials have a list of all attendees and are working to contact all the staff, volunteers, and families who attended the camp.

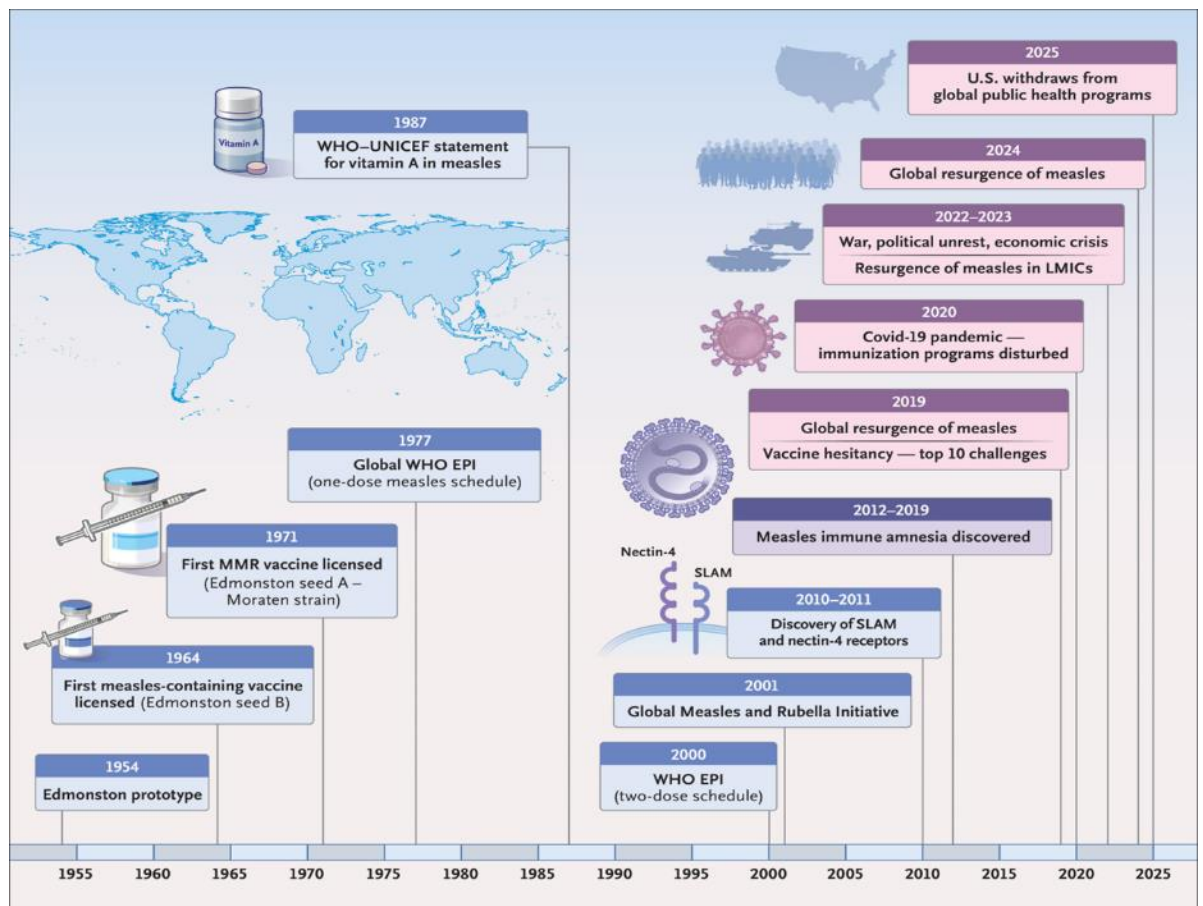
NEW JERSEY: Health officials have announced they currently have two confirmed measles cases under investigation. The cases are not related. NJDOH alerted the public to possible measles exposures (See [exposure table](#)).

NORTH DAKOTA: A new case of the measles has been confirmed in Williams County by the North Dakota Department of Health and Human Services (HHS), bringing the state's count up to 36. Williams County now has its 18th case of the year, and the second one this month. This comes after no cases were reported in June. The latest person who contracted the virus was reported to be unvaccinated.

UTAH: Utah health officials have confirmed their 10th case of measles this year. That makes three cases this year in the jurisdiction of the Southwest Utah Public Health District, which covers Beaver, Garfield, Iron, Kane, and Washington counties. The other seven cases have been in Utah County.

WYOMING: On Friday, the Wyoming Department of Health confirmed a second case of measles in the state. This case is an unvaccinated child from Niobrara County. The source of the child's exposure is not known at this time. There is no known connection to the Natrona County case reported on July 1, 2025.

KEY EVENTS IN MEASLES RESEARCH



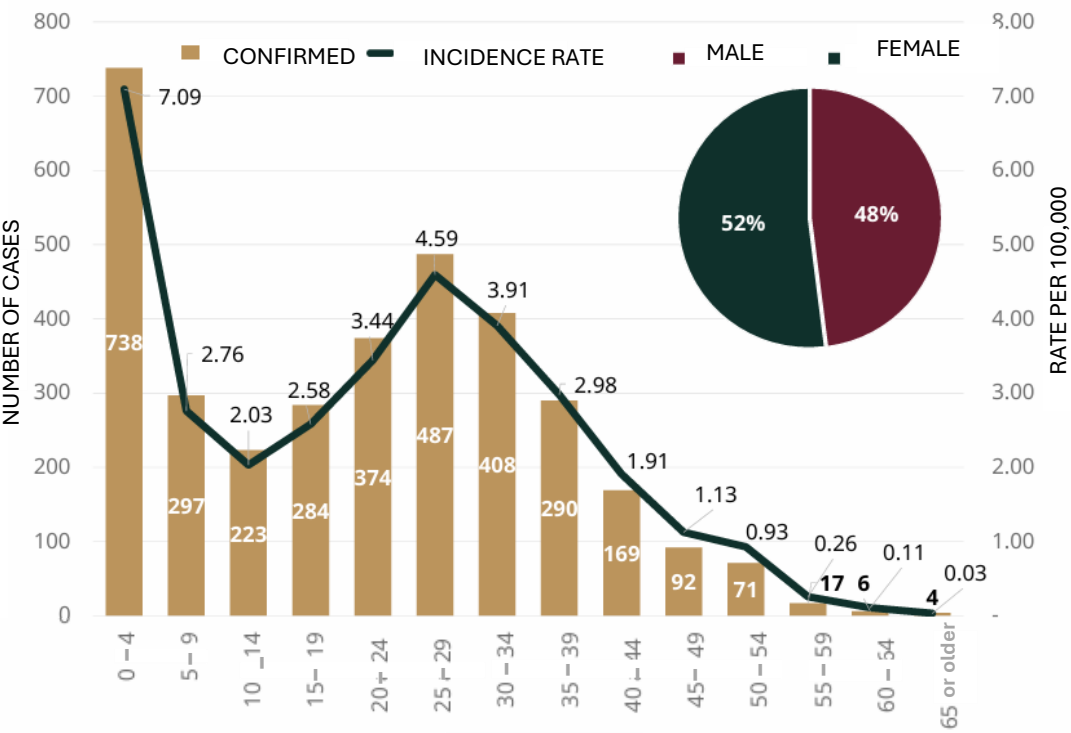
SOURCE: [MEASLES 2025 – NEW ENGLAND JOURNAL OF MEDICINE](#)

MEXICO OUTLOOK

OVERVIEW

- Mexico has confirmed a total of 3,497 cumulative measles cases across 20 states and 82 municipalities.
- As of 16 July 2025, Mexico has reported 10 deaths. The latest death involved a 2-year-old boy from Chihuahua.
- The epicenter of the outbreak is Chihuahua, which accounts for 3,264 cases.

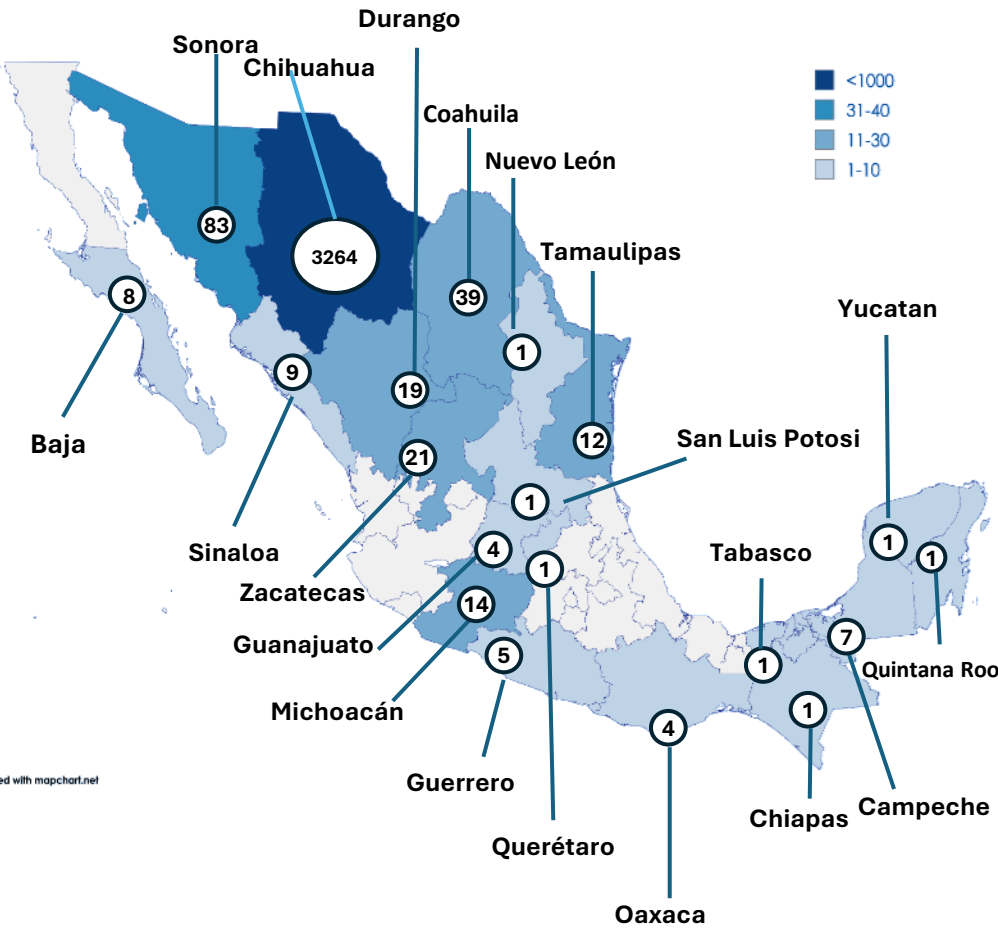
CONFIRMED MEASLES CASES BY SEX, AGE GROUP, AND INCIDENCE RATE



CONFIRMED MEASLES

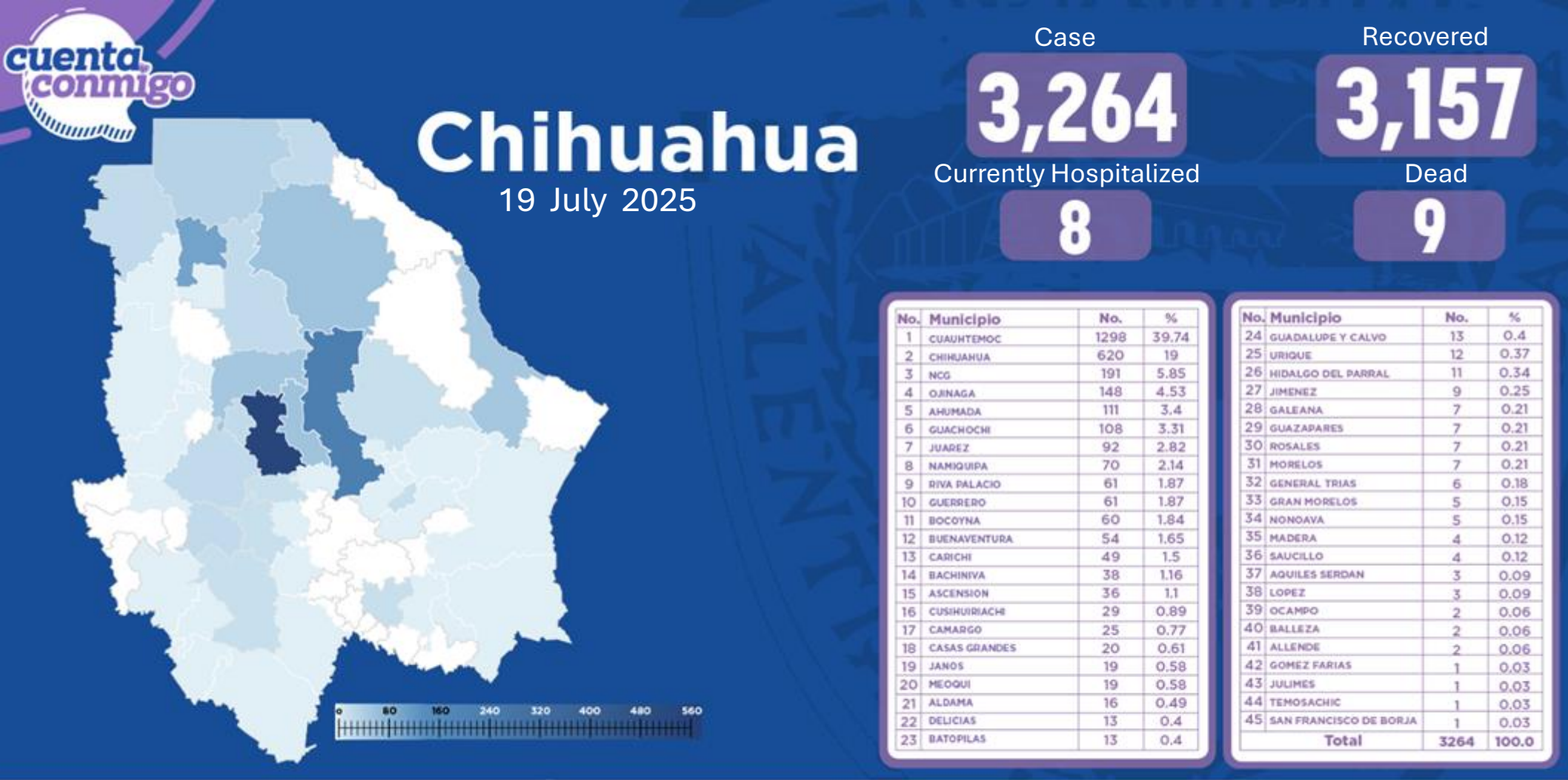
STATE	CASES
BAJA CALIFORNIA SUR	8
CAMPECHE	7
CHIAPAS	1
CHIHUAHUA	3,264 (+135)
COAHUILA	39 (+20)
DURANGO	19
GUANAJUATO	4 (+1)
GUERRERO	5
MICHOACÁN	14 (+1)
NUEVO LEÓN	1
OAXACA	4
QUERÉTARO	1
QUINTANA ROO	2
SAN LUIS POTOSI	1
SINALOA	9 (+7)
SONORA	83
TABASCO	1
TAMAULIPAS	12
YUCATAN	1
ZACATECAS	21
TOTAL	3,497

Data as of 7/19/2025



3,497 cases
10 deaths

MEXICO: CHIHUAHUA'S OUTBREAK



Fuente: Secretaria de Salud



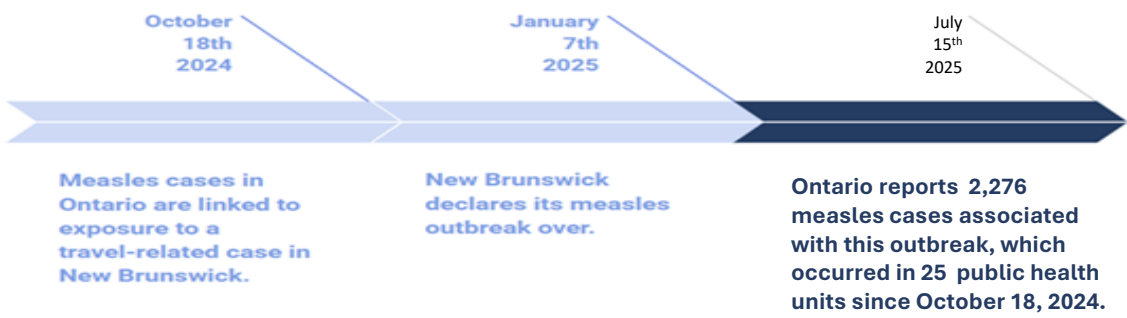
GOBIERNO
DEL ESTADO
DE CHIHUAHUA

SECRETARÍA
DE SALUD

MediChihuahua

CANADA OUTLOOK

Brief Timeline of Outbreak

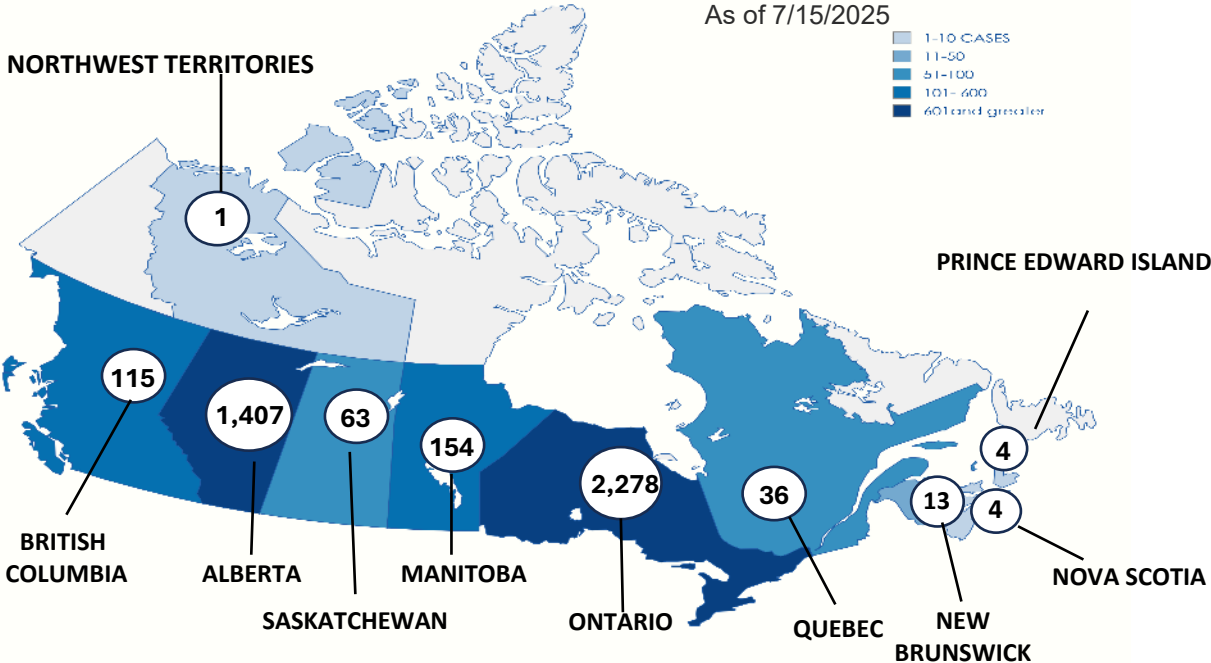


MEASLES 2025

PROVINCE	CASES
ONTARIO	2,278 (+34)
ALBERTA	1,407 (+123)
MANITOBA	154 (+16)
BRITISH COLUMBIA	115 (+11)
SASKATCHEWAN	63 (+3)
QUEBEC	36
PRINCE EDWARD ISLAND	4 (+2)
NOVA SCOTIA	4 (+3)
NORTHWEST TERRITORIES	1
NEW BRUNSWICK	13 (NEW Since 9 JUL 2025)
TOTAL	4,075 (Confirmed and probable)

CANADA OUTBREAK:




- An ongoing outbreak of measles in Ontario has been traced back to a large gathering in New Brunswick last fall that guests from Mennonite communities attended. On October 18, 2024, exposure to a travel-related case in New Brunswick led to measles cases in Ontario. Of all the cases reported in 2025 in Ontario, all but 39 cases are linked to the ongoing multi-jurisdictional outbreak.
- Currently, **eight** provinces are experiencing active outbreaks: **Ontario, Alberta, Manitoba, Saskatchewan, British Columbia, New Brunswick, Prince Edward Island, and Nova Scotia.**
- **An infant infected with measles has died** in southwestern Ontario, Canada, the province's chief medical officer of health said in a statement on Thursday, **6/5/2025.**
- Quebec declared its outbreak over on 4/22/2025 after no new cases in 32 days.



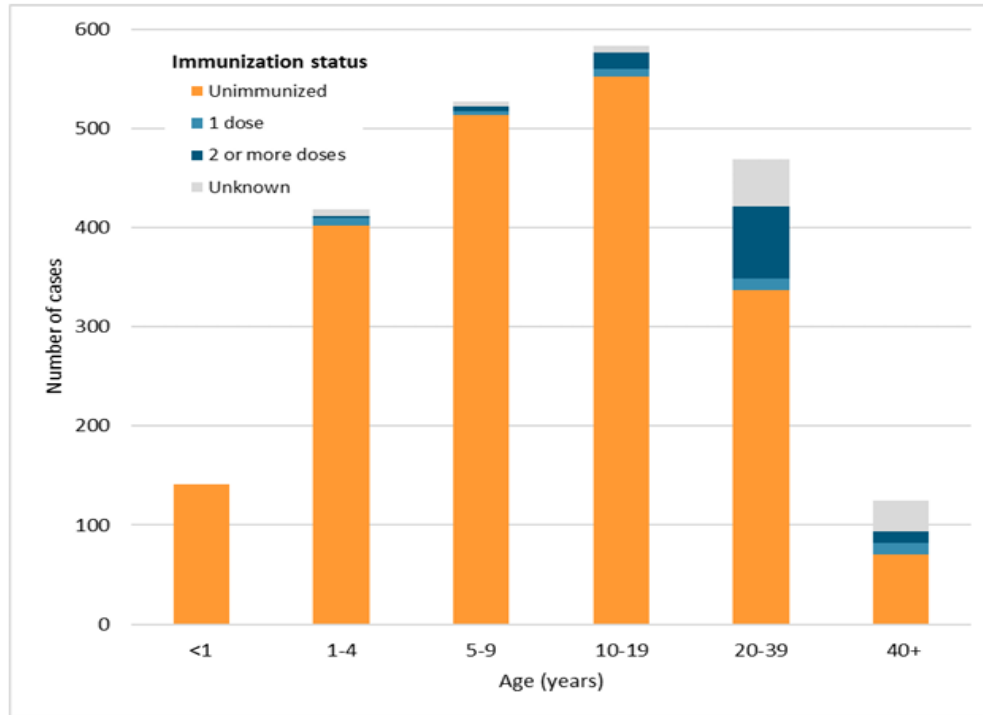
CANADA OUTLOOK: ONTARIO's OUTBREAK

(OCTOBER 18, 2024 TO JULY 15, 2025)

MORBIDITY AND MORTALITY

PROVINCE	CASES 	HOSPITALIZATIONS 	DEATHS 
ONTARIO*	2,276 (+32)	161 (+9)	1

IMMUNIZATION STATUS OF MEASLES OUTBREAK CASES BY AGE GROUP: OCTOBER 28, 2024 – JULY 15, 2025

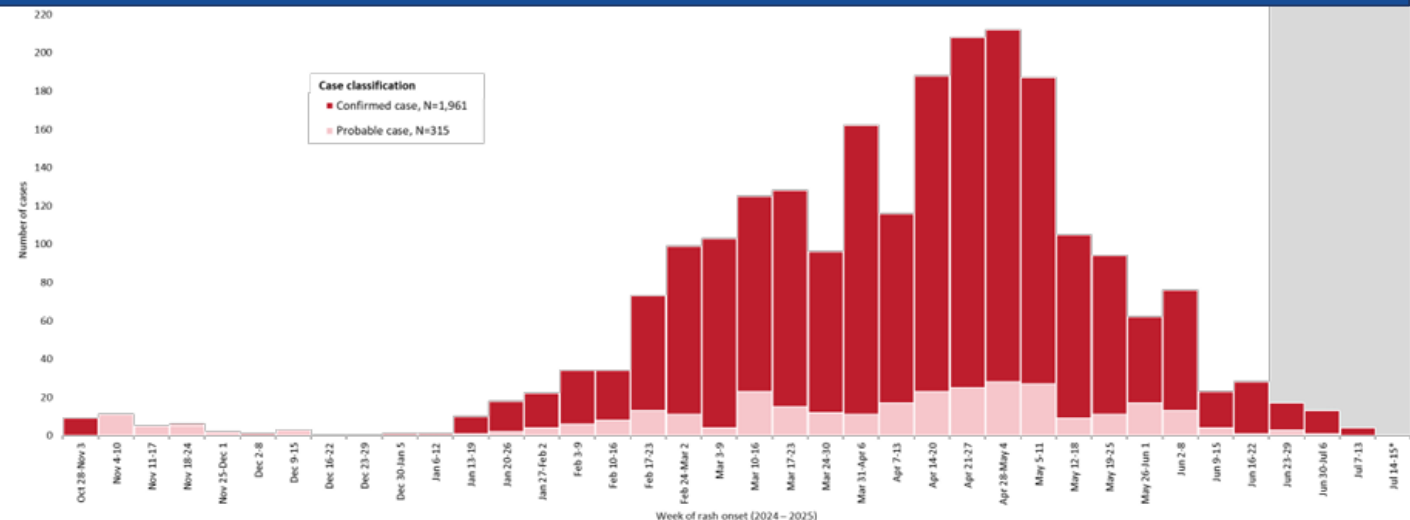


Age group	<1	1-4	5-9	10-19	20-39	40+
Unimmunized	100.0%	96.2%	97.3%	94.7%	71.9%	56.0%
1 dose	0.0%	1.9%	0.8%	1.4%	2.6%	9.6%
2 or more doses	0.0%	0.5%	0.9%	2.7%	15.4%	9.6%
Unknown	0.0%	1.4%	0.9%	1.2%	10.2%	24.8%

Multi-Jurisdictional Outbreak

- As of July 15, 2025, Ontario has reported a total of 2,276 measles cases (1,961 confirmed, 315 probable) associated with this outbreak in 25 (+3) public health units.
- Among all outbreak cases, the majority (73.3%, n=1,669) were infants, children, and adolescents (19 years old or younger). In comparison, 26.1% (n = 594) were adults, and 0.6% (n = 13) had an unknown age.
 - Almost all infant, child, and adolescent outbreak cases (96.3%, n=1,608) were unimmunized, while 68.5% (n=407) of adults were unimmunized
 - 98.2% (n=2,234) of outbreak cases were born in or after 1970
- A total of 2.1% (n=48) of outbreak cases were pregnant at the time of their measles infection.
- There was one death that occurred in a congenital case of measles, who was born pre-term and had other underlying medical conditions.
- A total of 2.2% (n=49) of outbreak cases were pregnant at the time of their measles infection.
 - Of these, 81.6% (n=40) were unimmunized, 2.0% (n=1) received one dose of measles-containing vaccine, 10.2% (n=5) received two or more doses, and 6.1% (n=3) had unknown immunization status.
 - There have been nine cases of congenital measles (i.e., measles diagnosed in the first 10 days of life), including one death that occurred in a congenital case of measles, who was born pre-term and had other underlying medical conditions.
- Overall, 7.1% (n=161) of outbreak cases were hospitalized, and 0.5% (n=12) were admitted to the intensive care unit (ICU). 94.4% (n=152) of hospitalized cases were unimmunized, of whom 118 were infants, children, and adolescents.

NUMBER OF MEASLES CASES BY WEEK OF RASH ONSET, 10/28/2024 – 07/15/2025



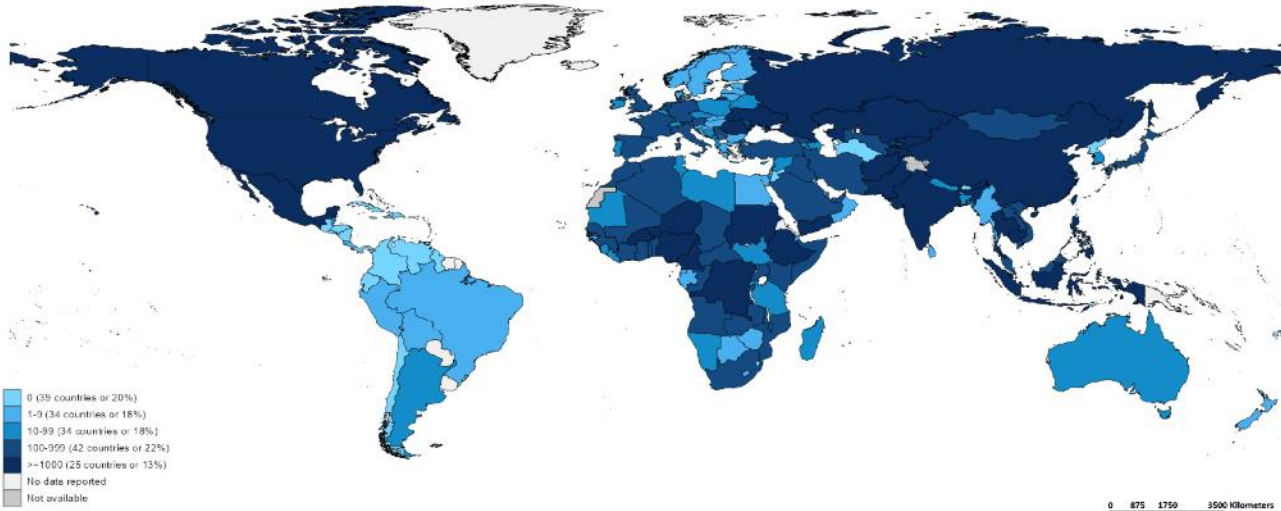
WHO MEASLES REPORT – JULY 2025

AFR = African region, AMR = Americas region, EMR = Eastern Mediterranean region, EUR = European region, SEAR = South-East Asia region, WPR = Western Pacific region

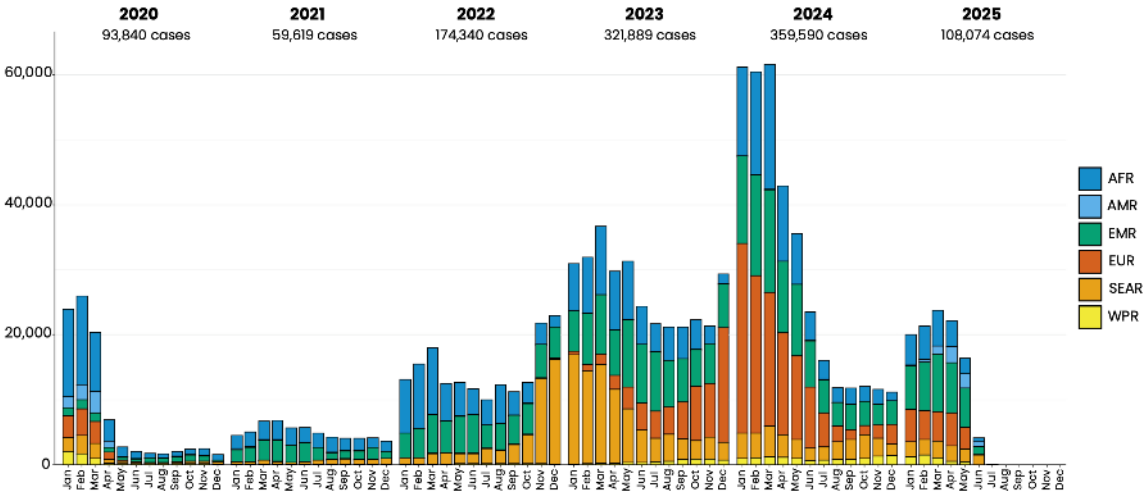
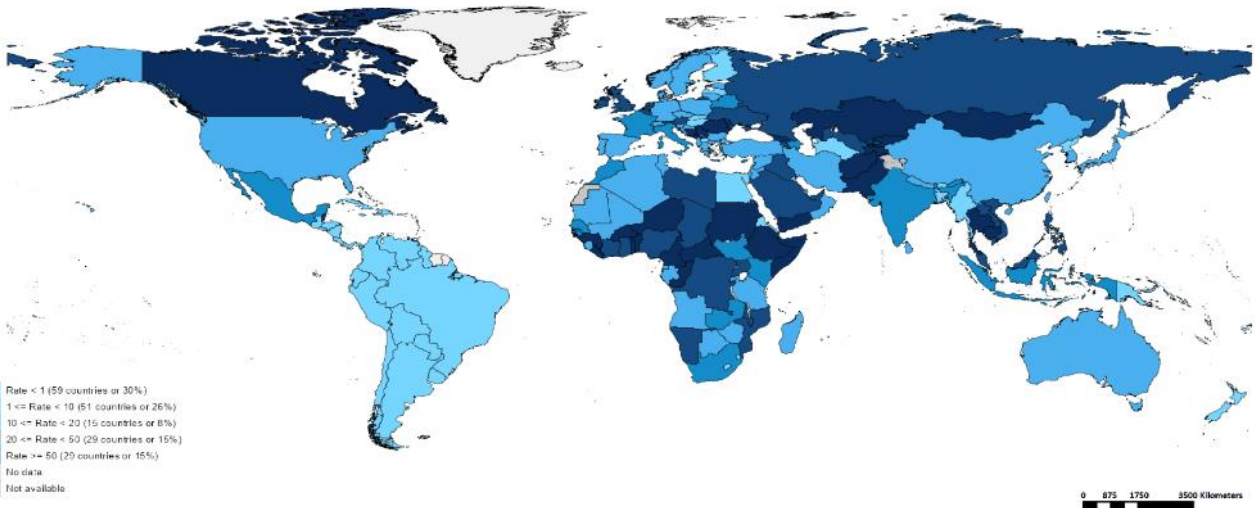
MEASLES CASES BY WHO REGION, 2025

Region	Member States*	Suspected MR cases	Measles cases	Clin	Epi	Lab	Date Received
AFR	42/47	46,689	22,516	4,421	8,513	9,582	2025-07
AMR	31/35	16,599	7,240	3	1,668	5,569	2025-07
EMR	20/21	61,477	37,992	18,515	2,741	16,736	2025-07
EUR	47/53	30,536	22,395	4,240	4,739	13,416	2025-07
SEAR	11/11	60,361	13,201	5,665	2,065	5,471	2025-07
WPR	22/27	24,154	4,730	1,013	236	3,481	2025-07
Total	173/194	239,816	108,074	33,857	19,962	54,255	

REPORTED MEASLES CASES (LAST 6 MONTHS)



MEASLES INCIDENCE RATE PER MILLION (LAST 12 MONTHS)



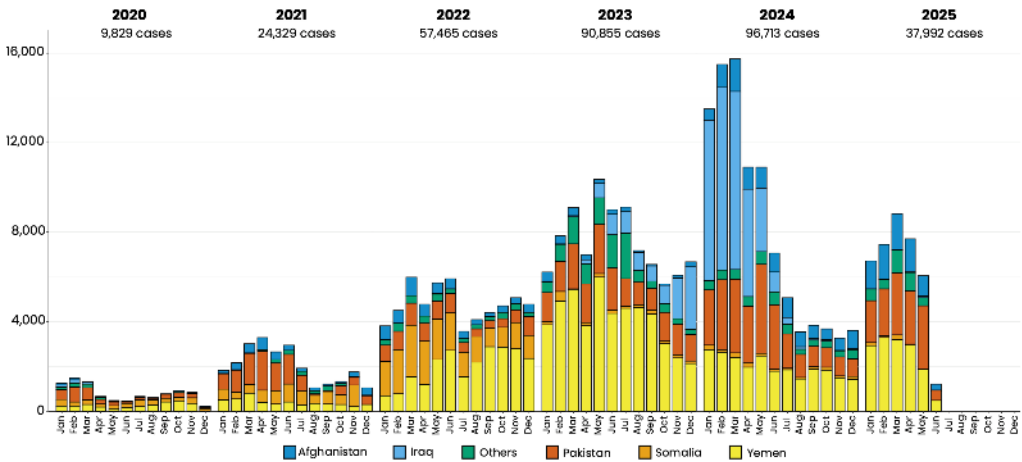
WHO EASTERN MEDITERRANEAN REGION OUTLOOK

MEASLES CASES (JAN 2025 – MAY 2025)

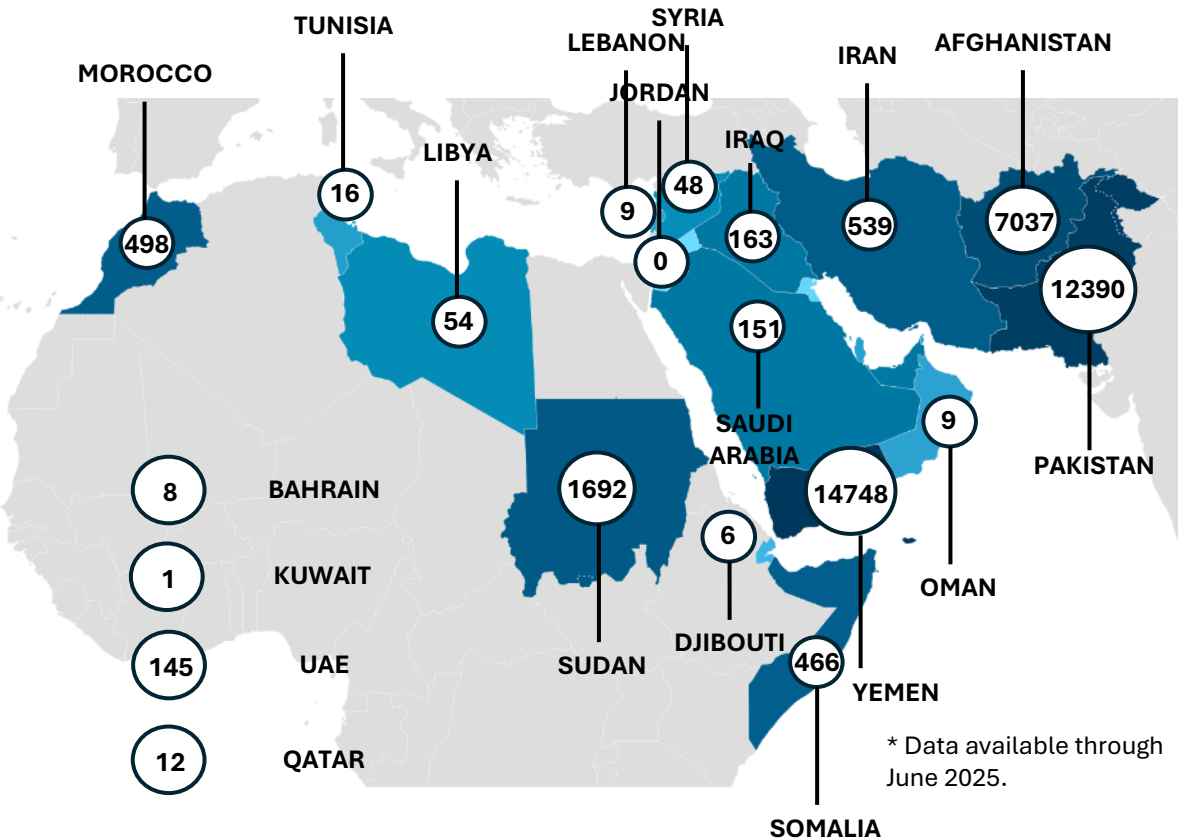
COUNTRY	CASES	VACCINATION RATE*
AFGHANISTAN	7037	44%
BAHRAIN	8	99%
DJIBOUTI	6	48%
IRAN	539	99%
IRAQ	163	82%
JORDAN	0	96%
KUWAIT	1	94%
LEBANON	9	59%
LIBYA	54	80%
MOROCCO	498	98%

COUNTRY	CASES	VACCINATION RATE*
OMAN	9	99%
PAKISTAN	12390	82%
QATAR	12	99%
SAUDI ARABIA	151	96%
SOMALIA	466	32%
SUDAN	1692	36%
SYRIA	48	75%
TUNISIA	16	97%
UAE	145	92%
YEMEN	14748	40%

* Vaccination rate taken from WHO/ UNICEF estimates of national immunization coverage for second dose of measles-containing vaccine, 2024.



- 3 of the top 5 countries with the most measles cases (Yemen, Pakistan, and Afghanistan) are located in the Eastern Mediterranean region (EMR). The EMR has reported more measles cases in 2025 than any other region.
- Outbreaks in EMR countries are also seeding outbreaks in other regions through travel-related transmission.
- CHALLENGES:
 - Conflict, instability, and fragile health systems lead to increased transmission of measles, especially in settings such as refugee camps.
 - High rates of malnutrition in several EMR countries can worsen measles outcomes.
 - Cuts to foreign aid are likely to lower immunization coverage.



* Data available through June 2025.

WHO EASTERN MEDITERRANEAN REGION OUTLOOK

YEMEN: Yemen has reported more measles cases than any other country in 2025, with a total of 15,983 cases in the last 6 months. It also has the second-highest incidence rate. Measles is endemic in Yemen, and case counts remain high year-round but peak in the spring and summer. An analysis of cases from January 2020 to August 2024 found that nearly 70% of cases were in children from 0 to 4 years old, with an additional 22% in the 5-to-9 year old age group.

The past decade of war and conflict has both damaged and overwhelmed the health infrastructure, and the high rate of poverty means that many cannot afford health services. Only 40% of people in Yemen have received both doses of a measles-containing vaccine. It has one of the highest malnutrition rates in the world, which is associated with worse outcomes for those who contract measles. Finally, crowded situations, such as camps, accelerate the spread of measles in Yemen.

AFGHANISTAN: As of the end of June 2025, Afghanistan has reported 7,037 cases of measles. However, the Eastern Mediterranean Regional Office estimates 70,345 suspected cases and 437 deaths in the same period. Weekly case counts increased from January to mid-May but have been declining since. 77.5% of cases were children under 5, and almost all cases are unvaccinated or have an unknown vaccination status.

Measles is endemic in Afghanistan, with highest case counts usually reported in the late winter and early spring. Cases have risen dramatically since 2024 due to many factors. The vaccination rate in Afghanistan is 44%, and although outbreak response immunization programs have been launched, these have not been able to meet the need for vaccines. Conflict and instability in Afghanistan have led to poor health infrastructure, lack of access to care, low immunization rates, crowding, and inadequate sanitation and hygiene. Afghan refugees living in crowded refugee camps are at high risk of contracting measles and may also spread the virus to surrounding countries.

MOROCCO: The current outbreak of measles in Morocco began in late 2023 in the Souss-Massa region of central Morocco before spreading to more provinces in the surrounding area. Measles spread regionally in early 2024, then to the rest of the country later that year. From October 2023 to April 2025, there were over 25,000 suspected cases, 13,706 confirmed cases, and 184 deaths, with children and unvaccinated adults primarily being affected. Morocco has a very low surveillance sensitivity reporting rate for measles, meaning that the number of reported cases is likely a severe undercount. Cases have been declining since February. Except for one isolated case, all sequenced viruses were of the B3 strain, which is common in many parts of Africa.

The measles vaccination rate in Morocco is high, at 98.45%, but pockets of unvaccinated individuals that are encouraging spread. The WHO reports that Morocco's hospital capacity can adequately handle the current number of cases. However, there are still causes for concern. The outbreak in Morocco has seeded outbreaks in several other countries, including nearby Europe. The risk of travel-related exportation of cases is heightened by high volumes of travel and Morocco's proximity to Europe as well as other countries in Africa and the Middle East.

PAKISTAN: Pakistan has reported 12,732 cases of measles in 2025, making it the country with the second highest number of cases. Monthly case counts are roughly on par with 2024 but have increased significantly compared to previous years. Almost all cases are in children under 9 years old who are unvaccinated or partially vaccinated, with the highest incidence rate among infants under 1 year old. The vaccine rate is 82%. Rates increased steadily through the 2010s, but progress has been stagnant in recent years.

SOMALIA: 466 cases of measles have been reported in Somalia in 2025. Most cases are in children under 9 years old, with the highest incidence among infants under 1 year old. Almost all cases are unvaccinated. Cases in Somalia have decreased dramatically since 2022, but it is not clear whether this is due to a reduction in transmission or the country's change from reporting only clinically diagnosed cases before 2022 to reporting only laboratory confirmed cases from 2023 onward. Measles is endemic in Somalia, which has the lowest measles vaccination rate in the EMR, at 32%.

CONTRIBUTORS

The Virtual Medical Operations Center Briefs (VMOC) were created as a service-learning project by the Yale School of Public Health faculty and graduate students in response to the 2010 Haiti Earthquake. Each year, students enrolled in Environmental Health Science Course 581—Public Health Emergencies: Disaster Planning and Response produce the VMOC Briefs. These briefs compile diverse information sources—including status reports, maps, curated news articles, and web content— into a single, easily digestible document that can be widely shared and used interactively.

Key features of this report include:

- **Comprehensive Overview:** Provides situation updates, maps, relevant news, and web resources.
- **Accessibility:** Designed for easy reading, wide distribution, and interactive use.
- **Collaboration:** The “unlocked” format enables seamless sharing, copying, and adaptation by other responders.

The students learn by doing, quickly discovering how and where to find critical information and presenting it in an easily understood manner.

Yale MPH Student Contributors: Our semester has come to a close. Congratulations to all our graduates who worked tirelessly on this report throughout the semester. Over the summer months, volunteers will step in to continue the reports.

LTC (R) Joanne McGovern – Joanne.McGovern@yale.edu
Lecturer, Department of Environmental Health Sciences, Yale School of Public Health

Shoa Moosavi (Editor)