

First Birth Cohort Eligible for Chickenpox Vaccine Had a Sharp Drop in Shingles Cases

Team A: Kersten Bartelt, RN; Nicholas Volker

Team B: Sam Butler, MD; Joe Deckert, PhD

Last updated October 2, 2026 • Check for updates at EpicResearch.org

Key Findings:

- The share of adults diagnosed with shingles between 2019 and 2026 rose steeply with age, from about 7 per 10,000 among those born between 2006 and 2008 to 182 per 10,000 among those born between 1968 and 1975.
- The steepest drop between adjacent birth cohorts occurred with the first cohort eligible for childhood chickenpox vaccination in the mid-1990s.
- Between 2019 and 2026, the rate of shingles fell among those aged 18 to 35 and rose among those aged 40 to 49.

Shingles, or herpes zoster, is a painful rash caused by reactivation of the varicella-zoster virus (the same virus that causes chickenpox) which remains dormant in nerve tissue after childhood infection.¹ About one in three people in the United States develop shingles in their lifetime.¹ The risk rises with age and with conditions that weaken the immune system, and women are affected more often than men.¹ Most epidemiologic attention has focused on adults 50 and older, the group for whom vaccination has historically been recommended.² More recently, the recombinant zoster vaccine was recommended for immunocompromised adults as young as 19, extending prevention efforts to younger patients at elevated risk.³ Adults under 50 also straddle an important divide in exposure history: the childhood chickenpox (varicella) vaccine was introduced in the United States in 1995, so people born from the mid-1990s onward are the first to reach adulthood largely in the vaccine era. Children vaccinated against chickenpox carry a lower risk of later shingles than those infected with the wild-type virus.^{1,4}

To understand how common shingles is and how its frequency has changed, we examined the records of more than 85 million U.S. adults from two different angles. The first describes how common shingles diagnoses were across adult birth-year cohorts, calculating the rate of patients diagnosed with shingles during the study period by their birth year (Figure 1). The second narrows to adults aged 18 to 49 and follows new shingles cases over time (Figure 2).

Shingles diagnoses during the study period rose steeply across birth-year cohorts, tracking the well-established increase in shingles with age. The oldest cohort (born 1968–1975) had a rate of 181.9 per 10,000, roughly 26 times that of the youngest adults (born 2006–2008, 6.9 per 10,000). The single largest step down came at the 1991–1995 to 1996–2000 boundary, where the rate fell from 45.5 to 17.3 per 10,000 (a 62% decline), sharper than the change between any other adjacent cohorts. That break coincides with the first birth cohorts eligible for routine childhood chickenpox vaccination, though we did not evaluate whether patients had received the childhood chickenpox vaccine.

Share of Adults Diagnosed with Shingles Between 2019 and 2026 by Birth-Year Cohort

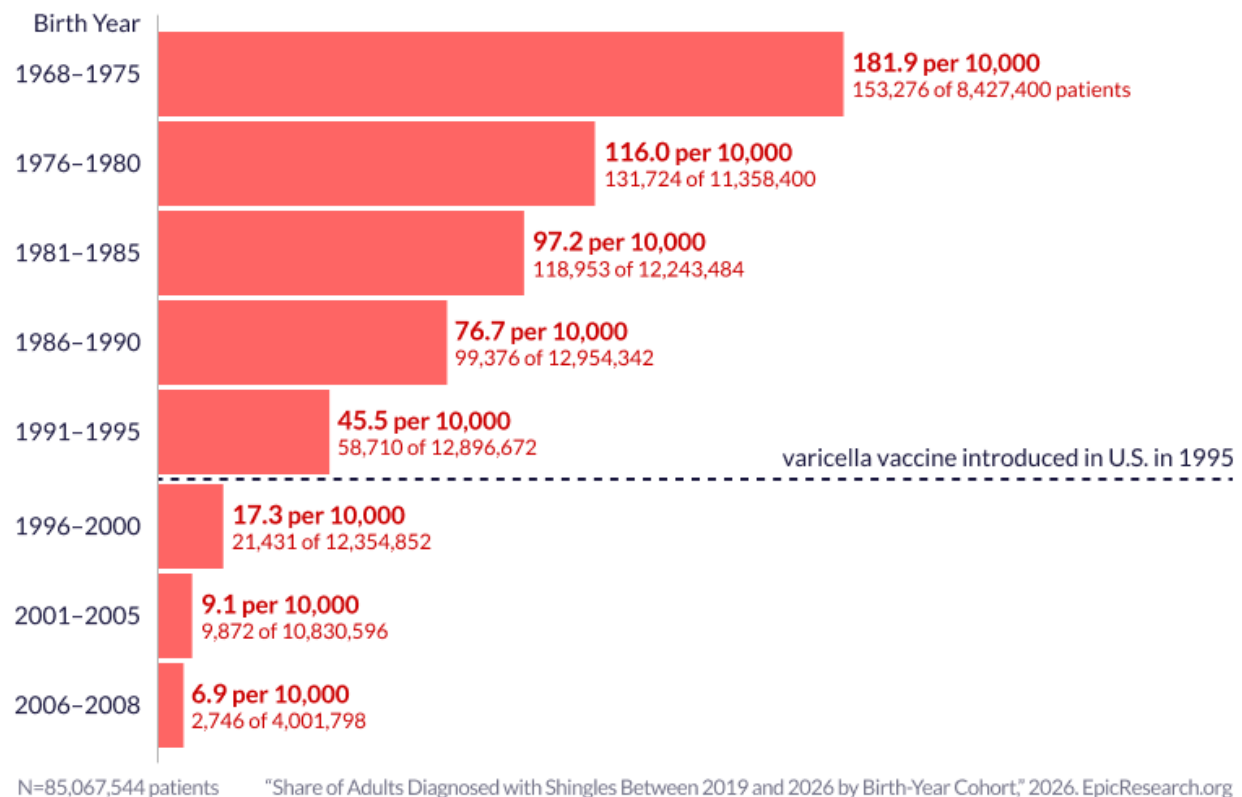


Figure 1. The share of adults 18 and older who had shingles diagnosed between January 2019 and June 2026 per 10,000 patients, by their birth-year cohort.

For the second view, we counted only new shingles cases, those among patients with no shingles diagnosed in the prior year and followed how they changed over time. Trends over time differed by age in both women and men. Rates among the youngest adults fell steadily, dropping by more than 50% among those aged 25–29, to roughly 3 per 10,000 by 2026. Rates declined in the 18–24 and 30–34 groups as well. This mirrors the birth-cohort pattern seen above: over the study window, these bands increasingly comprise people born after the introduction of the chickenpox vaccine, so part of the decline likely reflects those cohorts aging in. Because the 1995 rollout also offered catch-up vaccination to susceptible older children, this was a gradual transition rather than a sharp birth-year cutoff, extending a smaller effect into somewhat older groups, including part of the 35–39 band. The oldest groups, on the other hand, had a dip and rebound: rates fell through 2022 and 2023 before climbing to the top of their range by 2026, reaching about 16 per 10,000 among women aged 45–49. Part of that shape likely reflects pandemic-era health care use rather than true incidence: because the rate is measured among patients seen in outpatient care, the sharp drop in routine visits during 2020–2021 and their return afterward can move the measured rate up and then down on their own. Women and men had similar rates in the youngest groups, with women's rates increasingly exceeding men's in the older groups.

Shingles Rate Over Time by Age Group and Sex

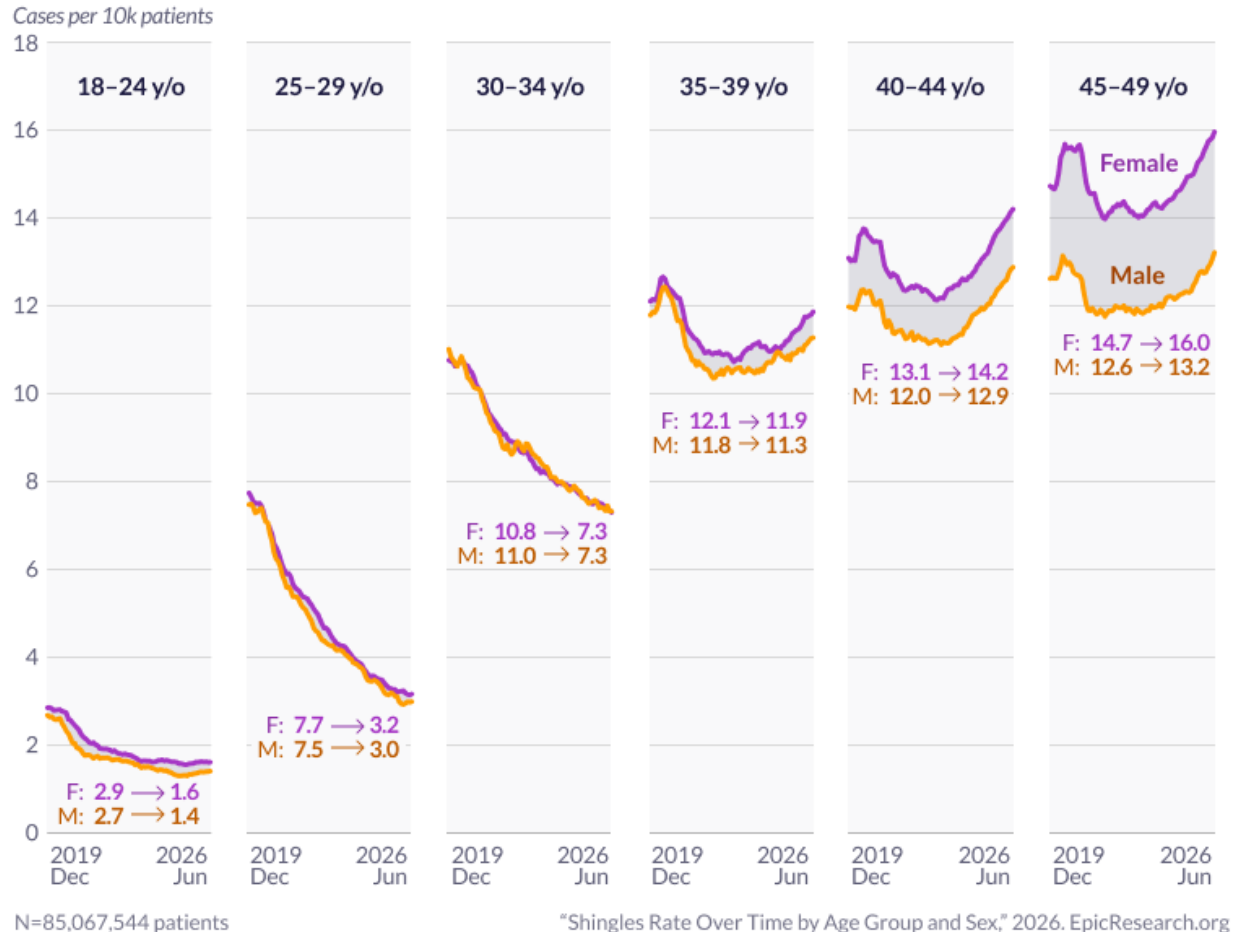


Figure 2. Monthly 12-month rolling average new shingles diagnoses per 10,000 patients aged 18–49 by age and sex.

These data come from Cosmos, a dataset created in collaboration with a community of Epic health systems representing more than 322 million patient records from 2,200 hospitals and more than 50,000 clinics from all 50 U.S. states, Canada, Lebanon, and Saudi Arabia. This study was completed by two teams that worked independently, each composed of a clinician and research scientist. The two teams came to similar conclusions. Graphics by Brian Olson.

References

1. Clinical overview of shingles (herpes zoster). Centers for Disease Control and Prevention. <https://www.cdc.gov/shingles/hcp/clinical-overview/index.html>. Accessed August 5, 2026.
2. Harpaz R, Leung JW. The epidemiology of herpes zoster in the United States during the era of varicella and herpes zoster vaccines: changing patterns among older adults. Clin Infect Dis. 2019;69(2):341-344. doi:10.1093/cid/ciy953
3. Anderson TC, Masters NB, Guo A, et al. Use of Recombinant Zoster Vaccine in Immunocompromised Adults Aged ≥19 Years: Recommendations of the Advisory Committee on Immunization Practices - United States, 2022. MMWR Morb Mortal Wkly Rep. 2022;71(3):80-84. Published 2022 Jan 21. doi:10.15585/mmwr.mm7103a2
4. Leung J, Dooling K, Marin M, Anderson TC, Harpaz R. The Impact of Universal Varicella Vaccination on Herpes Zoster Incidence in the United States: Comparison of Birth Cohorts

Data Definitions

Term	Definition
Study period	1/1/2017 to 6/30/2026 Incidence reported from 2019 onward; 2017–2018 serve as a clean look-back so every counted episode has a full prior year of data
Study population: inclusion (numerator)	Patients: - Born in 1968 or later, aged 18 or older at their earliest shingles diagnosis in the study period - With at least one prior qualifying outpatient face-to-face encounter in the prior year - No prior shingles diagnosis in the 12 months before (see incident shingles episode)
Study population: exclusion	None
Index date	Date of the incident shingles episode diagnosis
Outcome	Rate of shingles diagnoses
Incident shingles episode	A shingles diagnosis with no prior shingles diagnosis in the preceding 12 months
Shingles	A diagnosis with ICD-10-CM code B02* We did not consider B02.21, B02.22, B02.23, B02.24, or B02.29 as an original shingles case
Model specifications	Descriptive characteristics
Limitations	The 2020–2021 COVID-19 disruption and telehealth shift may distort the trend during the reporting window.

Table 1. Population Characteristics

Characteristic	Category	Patients (N)	% of population
Total	All	85,067,544	100.0
Sex	Female	47,920,146	56.3
Sex	Male	37,147,398	43.7
Birth year	1968-1975	8,427,400	9.9
Birth year	1976-1980	11,358,400	13.4
Birth year	1981-1985	12,243,484	14.4
Birth year	1986-1990	12,954,342	15.2
Birth year	1991-1995	12,896,672	15.2
Birth year	1996-2000	12,354,852	14.5
Birth year	2001-2005	10,830,596	12.7
Birth year	2006-2008	4,001,798	4.7

Table 2. Share of Adults diagnosed with Shingles Between 2019 and 2026 by Birth-Year Cohort

Birth-year cohort	Numerator (patients)	Denominator (patients)	Rate per 10,000
1968-1975	153,276	8,427,400	181.88
1976-1980	131,724	11,358,400	115.97

1981-1985	118,953	12,243,484	97.16
1986-1990	99,376	12,954,342	76.71
1991-1995	58,710	12,896,672	45.52
1996-2000	21,431	12,354,852	17.35
2001-2005	9,872	10,830,596	9.11
2006-2008	2,746	4,001,798	6.86

Table 3. Shingles Rate Over Time by Sex for Ages 18 to 24

Month	Female cases	Female denominator	Female rate/10,000	Male cases	Male denominator	Male rate/10,000
Jan 2019	128	521,520	2.45	69	290,772	2.37
Feb 2019	128	491,924	2.60	62	272,458	2.28
Mar 2019	156	547,628	2.85	75	304,439	2.46
Apr 2019	147	528,549	2.78	77	291,933	2.64
May 2019	154	541,594	2.84	77	295,735	2.60
Jun 2019	153	534,896	2.86	74	292,901	2.53
Jul 2019	174	544,152	3.20	91	301,085	3.02
Aug 2019	158	601,213	2.63	88	333,548	2.64
Sep 2019	148	540,596	2.74	97	294,611	3.29
Oct 2019	201	562,228	3.58	74	296,934	2.49
Nov 2019	148	552,286	2.68	84	287,638	2.92
Dec 2019	167	561,862	2.97	85	294,662	2.88
Jan 2020	153	595,715	2.57	68	337,205	2.02
Feb 2020	144	607,630	2.37	83	342,620	2.42
Mar 2020	146	610,643	2.39	66	342,876	1.92
Apr 2020	106	371,439	2.85	45	197,049	2.28
May 2020	117	394,379	2.97	58	200,549	2.89
Jun 2020	145	494,615	2.93	70	257,763	2.72
Jul 2020	169	609,480	2.77	58	328,316	1.77
Aug 2020	166	669,065	2.48	67	362,844	1.85
Sep 2020	154	609,478	2.53	69	320,879	2.15
Oct 2020	121	631,592	1.92	61	325,190	1.88
Nov 2020	158	636,006	2.48	55	328,029	1.68
Dec 2020	149	664,719	2.24	55	344,722	1.60
Jan 2021	130	643,785	2.02	69	354,772	1.94
Feb 2021	111	624,034	1.78	45	335,784	1.34
Mar 2021	124	670,376	1.85	64	361,836	1.77
Apr 2021	106	671,401	1.58	60	367,353	1.63
May 2021	140	700,466	2.00	64	380,685	1.68
Jun 2021	155	677,968	2.29	70	370,249	1.89
Jul 2021	161	718,683	2.24	76	394,127	1.93
Aug 2021	148	793,319	1.87	80	443,581	1.80
Sep 2021	163	729,337	2.23	70	402,201	1.74
Oct 2021	159	749,671	2.12	54	396,789	1.36
Nov 2021	136	737,600	1.84	77	384,077	2.00
Dec 2021	157	758,931	2.07	76	400,680	1.90
Jan 2022	96	769,734	1.25	58	439,954	1.32
Feb 2022	118	684,456	1.72	58	378,968	1.53
Mar 2022	132	748,895	1.76	70	407,695	1.72

Apr 2022	122	744,251	1.64	69	402,906	1.71
May 2022	143	773,176	1.85	70	419,894	1.67
Jun 2022	154	755,032	2.04	66	413,092	1.60
Jul 2022	145	768,813	1.89	67	422,542	1.59
Aug 2022	177	837,992	2.11	87	465,049	1.87
Sep 2022	134	763,056	1.76	78	414,744	1.88
Oct 2022	138	785,310	1.76	57	415,040	1.37
Nov 2022	143	798,706	1.79	72	418,773	1.72
Dec 2022	151	827,012	1.83	69	433,137	1.59
Jan 2023	118	806,294	1.46	64	451,960	1.42
Feb 2023	120	779,946	1.54	66	430,865	1.53
Mar 2023	141	852,430	1.65	70	470,575	1.49
Apr 2023	128	823,143	1.56	70	449,861	1.56
May 2023	132	851,034	1.55	71	463,482	1.53
Jun 2023	139	826,837	1.68	50	452,294	1.11
Jul 2023	131	832,494	1.57	80	457,354	1.75
Aug 2023	154	911,696	1.69	71	507,581	1.40
Sep 2023	128	832,808	1.54	63	453,936	1.39
Oct 2023	159	860,746	1.85	78	456,591	1.71
Nov 2023	154	858,418	1.79	65	448,195	1.45
Dec 2023	154	885,480	1.74	83	460,848	1.80
Jan 2024	130	868,207	1.50	62	492,739	1.26
Feb 2024	110	867,371	1.27	68	488,962	1.39
Mar 2024	156	929,728	1.68	65	519,477	1.25
Apr 2024	143	880,403	1.62	63	486,692	1.29
May 2024	174	923,965	1.88	68	507,712	1.34
Jun 2024	151	896,413	1.68	66	494,847	1.33
Jul 2024	158	914,311	1.73	83	508,389	1.63
Aug 2024	142	1,003,218	1.42	68	560,957	1.21
Sep 2024	158	914,208	1.73	76	500,770	1.52
Oct 2024	161	952,980	1.69	64	509,311	1.26
Nov 2024	152	958,093	1.59	70	504,469	1.39
Dec 2024	160	974,870	1.64	66	508,406	1.30
Jan 2025	142	951,336	1.49	57	543,590	1.05
Feb 2025	115	943,478	1.22	65	535,808	1.21
Mar 2025	132	1,006,955	1.31	64	569,992	1.12
Apr 2025	159	971,384	1.64	73	539,821	1.35
May 2025	170	996,220	1.71	75	548,687	1.37
Jun 2025	149	970,981	1.53	75	536,118	1.40
Jul 2025	173	995,863	1.74	81	553,606	1.46
Aug 2025	174	1,070,337	1.63	97	596,702	1.63
Sep 2025	175	976,747	1.79	75	532,774	1.41
Oct 2025	173	1,023,927	1.69	81	542,712	1.49
Nov 2025	194	1,004,563	1.93	77	526,418	1.46
Dec 2025	165	1,019,359	1.62	77	535,205	1.44
Jan 2026	162	1,006,995	1.61	77	578,644	1.33
Feb 2026	126	957,612	1.32	65	541,309	1.20
Mar 2026	126	1,054,632	1.19	65	593,231	1.10
Apr 2026	175	1,011,747	1.73	82	559,379	1.47
May 2026	162	1,043,166	1.55	78	572,596	1.36
Jun 2026	156	1,010,972	1.54	86	560,906	1.53

Table 4. Shingles Rate Over Time by Sex for Ages 25 to 29

Month	Female cases	Female denominator	Female rate/10,000	Male cases	Male denominator	Male rate/10,000
Jan 2019	282	400,825	7.04	117	183,970	6.36
Feb 2019	298	418,410	7.12	119	191,446	6.22
Mar 2019	329	458,705	7.17	142	212,378	6.69
Apr 2019	324	447,378	7.24	157	206,977	7.59
May 2019	351	455,237	7.71	148	210,181	7.04
Jun 2019	344	429,852	8.00	159	199,592	7.97
Jul 2019	347	433,817	8.00	169	203,492	8.30
Aug 2019	402	454,821	8.84	165	213,587	7.73
Sep 2019	363	446,172	8.14	157	208,804	7.52
Oct 2019	386	486,037	7.94	188	224,645	8.37
Nov 2019	361	476,717	7.57	156	218,409	7.14
Dec 2019	372	464,519	8.01	184	215,961	8.52
Jan 2020	280	457,712	6.12	143	215,845	6.63
Feb 2020	315	510,554	6.17	138	238,231	5.79
Mar 2020	339	511,788	6.62	130	243,918	5.33
Apr 2020	242	340,025	7.12	127	157,063	8.09
May 2020	280	357,453	7.83	125	157,834	7.92
Jun 2020	297	415,528	7.15	154	185,946	8.28
Jul 2020	306	485,338	6.30	141	224,979	6.27
Aug 2020	347	514,348	6.75	150	238,091	6.30
Sep 2020	365	501,891	7.27	166	229,891	7.22
Oct 2020	363	545,634	6.65	140	249,118	5.62
Nov 2020	340	551,509	6.16	140	256,574	5.46
Dec 2020	310	553,875	5.60	143	263,865	5.42
Jan 2021	271	516,606	5.25	124	244,465	5.07
Feb 2021	261	522,400	5.00	124	238,930	5.19
Mar 2021	279	564,403	4.94	106	259,747	4.08
Apr 2021	288	560,051	5.14	135	262,810	5.14
May 2021	349	580,942	6.01	160	271,356	5.90
Jun 2021	319	545,075	5.85	144	254,381	5.66
Jul 2021	362	567,209	6.38	168	265,499	6.33
Aug 2021	353	607,280	5.81	151	287,535	5.25
Sep 2021	311	596,288	5.22	154	284,708	5.41
Oct 2021	356	628,539	5.66	163	293,872	5.55
Nov 2021	342	613,290	5.58	150	282,378	5.31
Dec 2021	324	618,164	5.24	135	289,629	4.66
Jan 2022	259	599,025	4.32	112	286,975	3.90
Feb 2022	250	576,407	4.34	115	264,060	4.36
Mar 2022	298	623,819	4.78	106	282,963	3.75
Apr 2022	305	620,218	4.92	111	281,680	3.94
May 2022	319	643,728	4.96	144	294,575	4.89
Jun 2022	310	608,722	5.09	127	281,078	4.52
Jul 2022	324	614,607	5.27	125	285,140	4.38
Aug 2022	320	639,895	5.00	136	299,276	4.54
Sep 2022	284	626,278	4.53	143	289,403	4.94
Oct 2022	288	664,948	4.33	137	304,202	4.50
Nov 2022	290	666,952	4.35	130	302,763	4.29

Dec 2022	281	673,511	4.17	136	307,794	4.42
Jan 2023	269	629,764	4.27	97	287,859	3.37
Feb 2023	250	660,197	3.79	118	300,160	3.93
Mar 2023	270	720,244	3.75	115	326,840	3.52
Apr 2023	279	699,309	3.99	127	316,918	4.01
May 2023	304	721,299	4.21	136	329,151	4.13
Jun 2023	293	676,194	4.33	123	310,646	3.96
Jul 2023	328	670,087	4.89	138	310,585	4.44
Aug 2023	323	703,563	4.59	148	328,579	4.50
Sep 2023	306	687,695	4.45	143	318,851	4.48
Oct 2023	300	735,253	4.08	127	338,430	3.75
Nov 2023	265	729,879	3.63	130	332,453	3.91
Dec 2023	252	734,075	3.43	127	335,760	3.78
Jan 2024	245	686,661	3.57	97	317,064	3.06
Feb 2024	223	744,645	2.99	103	341,119	3.02
Mar 2024	257	793,732	3.24	123	363,925	3.38
Apr 2024	270	763,366	3.54	126	348,720	3.61
May 2024	315	794,253	3.97	131	362,791	3.61
Jun 2024	280	744,379	3.76	125	342,432	3.65
Jul 2024	281	748,305	3.76	122	345,905	3.53
Aug 2024	301	790,424	3.81	109	365,352	2.98
Sep 2024	275	770,437	3.57	121	353,863	3.42
Oct 2024	275	826,131	3.33	134	378,430	3.54
Nov 2024	324	825,481	3.92	142	374,692	3.79
Dec 2024	271	807,280	3.36	149	366,779	4.06
Jan 2025	237	760,356	3.12	100	351,076	2.85
Feb 2025	218	811,423	2.69	96	372,048	2.58
Mar 2025	280	871,526	3.21	108	399,622	2.70
Apr 2025	276	848,568	3.25	104	385,471	2.70
May 2025	275	869,916	3.16	104	396,314	2.62
Jun 2025	256	817,782	3.13	119	373,093	3.19
Jul 2025	259	823,829	3.14	127	378,577	3.35
Aug 2025	303	852,371	3.55	140	391,299	3.58
Sep 2025	277	829,789	3.34	117	379,401	3.08
Oct 2025	299	893,856	3.35	119	406,253	2.93
Nov 2025	278	873,770	3.18	143	394,718	3.62
Dec 2025	297	851,498	3.49	103	387,482	2.66
Jan 2026	258	805,791	3.20	85	368,660	2.31
Feb 2026	232	830,488	2.79	87	375,919	2.31
Mar 2026	242	907,056	2.67	124	411,435	3.01
Apr 2026	256	882,099	2.90	124	397,541	3.12
May 2026	273	904,880	3.02	104	410,368	2.53
Jun 2026	284	849,804	3.34	128	386,659	3.31

Table 5. Shingles Rate Over Time by Sex for Ages 30 to 34

Month	Female cases	Female denominator	Female rate/10,000	Male cases	Male denominator	Male rate/10,000
Jan 2019	484	446,410	10.84	233	214,892	10.84
Feb 2019	442	468,974	9.42	212	224,536	9.44
Mar 2019	564	515,663	10.94	248	248,242	9.99
Apr 2019	519	501,318	10.35	284	241,249	11.77
May 2019	582	508,474	11.45	270	243,816	11.07
Jun 2019	504	479,261	10.52	254	230,545	11.02
Jul 2019	571	481,524	11.86	270	234,277	11.52
Aug 2019	566	501,732	11.28	297	246,136	12.07
Sep 2019	519	494,095	10.50	288	241,335	11.93
Oct 2019	610	542,621	11.24	293	263,718	11.11
Nov 2019	530	533,397	9.94	267	258,952	10.31
Dec 2019	558	518,740	10.76	280	254,704	10.99
Jan 2020	545	518,457	10.51	226	254,671	8.87
Feb 2020	560	583,848	9.59	258	285,748	9.03
Mar 2020	571	581,536	9.82	265	288,667	9.18
Apr 2020	444	388,446	11.43	204	184,100	11.08
May 2020	478	406,901	11.75	243	185,834	13.08
Jun 2020	533	466,354	11.43	271	216,659	12.51
Jul 2020	604	537,885	11.23	256	258,093	9.92
Aug 2020	586	568,470	10.31	281	272,437	10.31
Sep 2020	579	557,957	10.38	256	267,632	9.57
Oct 2020	621	611,301	10.16	311	293,328	10.60
Nov 2020	585	615,849	9.50	284	299,096	9.50
Dec 2020	587	614,565	9.55	303	306,232	9.89
Jan 2021	503	581,757	8.65	251	286,392	8.76
Feb 2021	525	595,853	8.81	254	285,478	8.90
Mar 2021	596	647,042	9.21	277	311,613	8.89
Apr 2021	614	642,787	9.55	268	311,456	8.60
May 2021	645	667,669	9.66	336	322,829	10.41
Jun 2021	606	626,635	9.67	288	301,813	9.54
Jul 2021	610	649,527	9.39	288	314,695	9.15
Aug 2021	662	691,336	9.58	289	342,012	8.45
Sep 2021	642	685,922	9.36	301	342,513	8.79
Oct 2021	686	725,798	9.45	324	356,865	9.08
Nov 2021	616	709,792	8.68	314	344,987	9.10
Dec 2021	616	709,819	8.68	327	350,951	9.32
Jan 2022	564	691,854	8.15	234	343,552	6.81
Feb 2022	513	675,318	7.60	230	324,917	7.08
Mar 2022	682	728,147	9.37	302	348,266	8.67
Apr 2022	607	723,426	8.39	337	344,741	9.78
May 2022	673	751,815	8.95	308	361,372	8.52
Jun 2022	660	709,127	9.31	295	342,308	8.62
Jul 2022	650	711,723	9.13	338	348,075	9.71
Aug 2022	714	741,200	9.63	384	366,155	10.49
Sep 2022	589	730,101	8.07	341	357,493	9.54
Oct 2022	652	779,415	8.37	319	378,904	8.42
Nov 2022	643	783,305	8.21	299	377,560	7.92

Dec 2022	673	787,297	8.55	330	382,764	8.62
Jan 2023	639	736,667	8.67	316	354,447	8.92
Feb 2023	547	778,391	7.03	266	373,374	7.12
Mar 2023	671	848,601	7.91	309	409,685	7.54
Apr 2023	665	825,207	8.06	337	395,623	8.52
May 2023	659	851,131	7.74	335	410,260	8.17
Jun 2023	659	794,625	8.29	305	384,261	7.94
Jul 2023	723	785,460	9.20	356	383,171	9.29
Aug 2023	684	821,598	8.33	381	406,704	9.37
Sep 2023	693	805,605	8.60	347	395,982	8.76
Oct 2023	687	864,754	7.94	334	422,378	7.91
Nov 2023	689	858,427	8.03	328	416,524	7.87
Dec 2023	688	862,557	7.98	313	421,847	7.42
Jan 2024	619	800,825	7.73	282	389,654	7.24
Feb 2024	621	873,804	7.11	307	422,272	7.27
Mar 2024	667	928,896	7.18	338	451,171	7.49
Apr 2024	658	892,726	7.37	324	431,732	7.50
May 2024	757	930,826	8.13	359	449,711	7.98
Jun 2024	694	867,289	8.00	339	420,473	8.06
Jul 2024	778	868,174	8.96	361	422,493	8.54
Aug 2024	763	915,316	8.34	393	449,353	8.75
Sep 2024	719	896,828	8.02	343	436,042	7.87
Oct 2024	757	961,587	7.87	349	468,629	7.45
Nov 2024	715	962,476	7.43	385	464,974	8.28
Dec 2024	762	936,021	8.14	376	455,157	8.26
Jan 2025	609	865,242	7.04	276	416,959	6.62
Feb 2025	601	931,652	6.45	301	449,980	6.69
Mar 2025	683	1,002,942	6.81	347	484,551	7.16
Apr 2025	673	976,772	6.89	284	466,483	6.09
May 2025	760	998,923	7.61	377	479,878	7.86
Jun 2025	755	936,763	8.06	332	451,805	7.35
Jul 2025	753	944,804	7.97	348	456,446	7.62
Aug 2025	761	971,845	7.83	425	472,432	9.00
Sep 2025	738	950,733	7.76	369	458,410	8.05
Oct 2025	865	1,026,790	8.42	385	493,215	7.81
Nov 2025	755	1,001,685	7.54	366	479,524	7.63
Dec 2025	739	970,621	7.61	317	468,406	6.77
Jan 2026	629	904,743	6.95	299	433,012	6.91
Feb 2026	565	944,825	5.98	285	451,160	6.32
Mar 2026	655	1,033,156	6.34	327	495,568	6.60
Apr 2026	646	1,001,329	6.45	355	478,981	7.41
May 2026	756	1,029,468	7.34	319	492,130	6.48
Jun 2026	708	965,155	7.34	338	464,392	7.28

Table 6. Shingles Rate Over Time by Sex for Ages 35 to 39

Month	Female cases	Female denominator	Female rate/10,000	Male cases	Male denominator	Male rate/10,000
Jan 2019	503	465,061	10.82	288	247,788	11.62
Feb 2019	548	486,408	11.27	256	257,848	9.93

Mar 2019	614	535,481	11.47	294	284,261	10.34
Apr 2019	584	520,200	11.23	328	274,697	11.94
May 2019	640	529,752	12.08	341	277,611	12.28
Jun 2019	616	496,641	12.40	305	260,784	11.70
Jul 2019	679	494,990	13.72	333	263,979	12.61
Aug 2019	724	515,873	14.03	378	276,168	13.69
Sep 2019	646	510,452	12.66	354	273,199	12.96
Oct 2019	675	563,089	11.99	345	298,711	11.55
Nov 2019	618	553,714	11.16	327	295,159	11.08
Dec 2019	667	537,022	12.42	343	290,929	11.79
Jan 2020	614	532,581	11.53	354	286,385	12.36
Feb 2020	672	599,683	11.21	327	320,463	10.20
Mar 2020	725	597,707	12.13	364	321,621	11.32
Apr 2020	532	385,195	13.81	290	201,686	14.38
May 2020	639	402,154	15.89	328	205,641	15.95
Jun 2020	603	464,901	12.97	323	239,820	13.47
Jul 2020	706	537,549	13.13	357	280,309	12.74
Aug 2020	692	568,489	12.17	377	298,010	12.65
Sep 2020	671	561,453	11.95	344	294,033	11.70
Oct 2020	714	614,759	11.61	356	323,770	11.00
Nov 2020	660	617,533	10.69	315	327,134	9.63
Dec 2020	716	610,343	11.73	326	330,913	9.85
Jan 2021	640	580,387	11.03	318	309,767	10.27
Feb 2021	660	595,852	11.08	324	313,280	10.34
Mar 2021	683	652,618	10.47	360	342,448	10.51
Apr 2021	704	648,473	10.86	353	340,622	10.36
May 2021	781	676,073	11.55	405	352,799	11.48
Jun 2021	728	631,179	11.53	388	329,709	11.77
Jul 2021	784	651,371	12.04	397	342,836	11.58
Aug 2021	785	690,916	11.36	392	370,631	10.58
Sep 2021	767	687,223	11.16	429	371,131	11.56
Oct 2021	828	734,026	11.28	378	390,030	9.69
Nov 2021	733	718,728	10.20	408	379,582	10.75
Dec 2021	757	715,738	10.58	351	384,650	9.13
Jan 2022	717	692,352	10.36	380	371,407	10.23
Feb 2022	671	681,926	9.84	337	356,307	9.46
Mar 2022	786	737,436	10.66	401	383,900	10.45
Apr 2022	816	730,076	11.18	373	377,841	9.87
May 2022	831	758,359	10.96	405	393,722	10.29
Jun 2022	805	714,512	11.27	403	373,103	10.80
Jul 2022	877	712,462	12.31	435	377,139	11.53
Aug 2022	829	741,753	11.18	462	395,645	11.68
Sep 2022	853	736,272	11.59	443	390,748	11.34
Oct 2022	839	789,947	10.62	450	415,511	10.83
Nov 2022	806	795,809	10.13	398	416,699	9.55
Dec 2022	865	797,501	10.85	443	422,379	10.49
Jan 2023	786	758,893	10.36	430	397,611	10.81
Feb 2023	770	799,075	9.64	381	416,291	9.15
Mar 2023	862	873,276	9.87	440	456,813	9.63
Apr 2023	875	845,332	10.35	466	439,935	10.59
May 2023	1,001	874,594	11.45	486	454,736	10.69

Jun 2023	946	814,910	11.61	469	425,097	11.03
Jul 2023	938	798,319	11.75	486	420,839	11.55
Aug 2023	1,037	835,202	12.42	465	445,800	10.43
Sep 2023	1,019	823,701	12.37	485	438,945	11.05
Oct 2023	988	888,081	11.13	526	469,757	11.20
Nov 2023	946	882,469	10.72	482	465,384	10.36
Dec 2023	952	885,449	10.75	474	474,393	9.99
Jan 2024	946	837,564	11.29	461	445,145	10.36
Feb 2024	915	908,725	10.07	431	481,367	8.95
Mar 2024	979	969,928	10.09	536	512,278	10.46
Apr 2024	1,008	927,557	10.87	490	486,459	10.07
May 2024	992	969,179	10.24	581	507,101	11.46
Jun 2024	1,036	896,896	11.55	496	471,978	10.51
Jul 2024	1,060	893,187	11.87	611	473,432	12.91
Aug 2024	1,069	940,697	11.36	556	500,533	11.11
Sep 2024	1,079	924,097	11.68	552	491,577	11.23
Oct 2024	1,124	998,799	11.25	582	527,748	11.03
Nov 2024	1,125	999,144	11.26	582	526,851	11.05
Dec 2024	1,108	970,448	11.42	592	516,679	11.46
Jan 2025	995	917,641	10.84	543	487,532	11.14
Feb 2025	961	987,013	9.74	467	522,550	8.94
Mar 2025	1,179	1,065,138	11.07	542	563,501	9.62
Apr 2025	1,152	1,030,625	11.18	535	538,175	9.94
May 2025	1,196	1,057,780	11.31	600	554,399	10.82
Jun 2025	1,146	989,150	11.59	601	518,597	11.59
Jul 2025	1,251	992,314	12.61	597	522,016	11.44
Aug 2025	1,272	1,019,663	12.47	698	542,861	12.86
Sep 2025	1,217	1,004,405	12.12	588	531,232	11.07
Oct 2025	1,274	1,086,302	11.73	643	571,652	11.25
Nov 2025	1,213	1,059,140	11.45	667	558,711	11.94
Dec 2025	1,249	1,024,356	12.19	635	546,355	11.62
Jan 2026	1,178	973,235	12.10	543	512,006	10.61
Feb 2026	1,152	1,020,698	11.29	558	533,517	10.46
Mar 2026	1,234	1,118,901	11.03	591	586,961	10.07
Apr 2026	1,247	1,079,889	11.55	605	563,247	10.74
May 2026	1,290	1,112,932	11.59	665	580,433	11.46
Jun 2026	1,290	1,038,604	12.42	643	544,904	11.80

Table 7. Shingles Rate Over Time by Sex for Ages 40 to 44

Month	Female cases	Female denominator	Female rate/10,000	Male cases	Male denominator	Male rate/10,000
Jan 2019	598	455,066	13.14	298	267,210	11.15
Feb 2019	567	476,770	11.89	288	278,748	10.33
Mar 2019	658	525,037	12.53	353	305,923	11.54
Apr 2019	637	511,298	12.46	343	294,101	11.66
May 2019	654	520,407	12.57	362	298,042	12.15
Jun 2019	663	489,322	13.55	318	280,447	11.34
Jul 2019	661	487,416	13.56	371	281,291	13.19
Aug 2019	735	508,218	14.46	422	295,348	14.29

Sep 2019	686	502,076	13.66	385	292,388	13.17
Oct 2019	736	554,927	13.26	368	320,217	11.49
Nov 2019	688	548,928	12.53	358	316,468	11.31
Dec 2019	714	531,150	13.44	376	311,536	12.07
Jan 2020	650	526,367	12.35	346	311,217	11.12
Feb 2020	738	594,834	12.41	372	348,674	10.67
Mar 2020	731	591,021	12.37	386	347,689	11.10
Apr 2020	623	371,146	16.79	296	216,139	13.69
May 2020	658	388,622	16.93	329	225,869	14.57
Jun 2020	653	458,004	14.26	351	262,887	13.35
Jul 2020	789	531,493	14.84	404	303,458	13.31
Aug 2020	795	562,899	14.12	421	321,183	13.11
Sep 2020	678	554,619	12.22	431	318,526	13.53
Oct 2020	790	610,936	12.93	411	349,703	11.75
Nov 2020	731	614,846	11.89	360	352,881	10.20
Dec 2020	787	605,589	13.00	367	355,825	10.31
Jan 2021	737	579,453	12.72	369	339,268	10.88
Feb 2021	727	596,065	12.20	392	344,495	11.38
Mar 2021	816	656,652	12.43	434	377,651	11.49
Apr 2021	809	652,529	12.40	399	374,184	10.66
May 2021	863	678,491	12.72	411	388,018	10.59
Jun 2021	802	634,176	12.65	423	362,212	11.68
Jul 2021	893	657,106	13.59	549	374,707	14.65
Aug 2021	904	693,732	13.03	476	401,030	11.87
Sep 2021	911	690,783	13.19	442	401,826	11.00
Oct 2021	923	740,679	12.46	491	425,451	11.54
Nov 2021	859	729,394	11.78	454	416,147	10.91
Dec 2021	829	722,500	11.47	446	420,290	10.61
Jan 2022	819	696,773	11.75	453	406,845	11.13
Feb 2022	760	690,336	11.01	406	395,157	10.27
Mar 2022	923	750,666	12.30	440	426,177	10.32
Apr 2022	939	741,576	12.66	456	417,059	10.93
May 2022	1,013	771,250	13.13	497	436,019	11.40
Jun 2022	945	728,085	12.98	511	409,982	12.46
Jul 2022	947	725,592	13.05	500	410,540	12.18
Aug 2022	1,034	757,681	13.65	527	431,871	12.20
Sep 2022	965	753,178	12.81	509	429,430	11.85
Oct 2022	996	810,454	12.29	500	457,573	10.93
Nov 2022	884	818,261	10.80	483	459,822	10.50
Dec 2022	989	818,094	12.09	505	466,461	10.83
Jan 2023	893	769,613	11.60	465	439,224	10.59
Feb 2023	863	812,351	10.62	446	459,080	9.72
Mar 2023	1,042	889,096	11.72	537	502,139	10.69
Apr 2023	1,042	857,634	12.15	544	482,938	11.26
May 2023	1,088	890,902	12.21	586	501,072	11.69
Jun 2023	1,062	830,254	12.79	575	465,686	12.35
Jul 2023	1,097	812,596	13.50	530	459,222	11.54
Aug 2023	1,158	853,145	13.57	556	487,393	11.41
Sep 2023	1,061	841,974	12.60	604	481,902	12.53
Oct 2023	1,222	909,580	13.43	551	515,731	10.68
Nov 2023	1,085	905,266	11.99	536	511,750	10.47

Dec 2023	1,126	907,129	12.41	579	521,014	11.11
Jan 2024	986	843,837	11.68	560	487,534	11.49
Feb 2024	1,055	917,620	11.50	537	525,194	10.22
Mar 2024	1,175	979,633	11.99	612	559,537	10.94
Apr 2024	1,137	935,595	12.15	617	530,489	11.63
May 2024	1,289	979,200	13.16	668	553,659	12.07
Jun 2024	1,227	908,006	13.51	624	512,511	12.18
Jul 2024	1,177	902,853	13.04	678	511,668	13.25
Aug 2024	1,285	950,334	13.52	628	541,326	11.60
Sep 2024	1,262	937,267	13.46	721	535,695	13.46
Oct 2024	1,359	1,012,696	13.42	684	576,232	11.87
Nov 2024	1,315	1,013,987	12.97	673	574,936	11.71
Dec 2024	1,277	982,840	12.99	645	565,247	11.41
Jan 2025	1,205	914,946	13.17	630	527,121	11.95
Feb 2025	1,198	984,426	12.17	606	565,059	10.72
Mar 2025	1,390	1,062,624	13.08	716	608,504	11.77
Apr 2025	1,310	1,029,644	12.72	654	580,697	11.26
May 2025	1,466	1,058,115	13.85	752	598,444	12.57
Jun 2025	1,386	990,056	14.00	732	559,475	13.08
Jul 2025	1,455	991,728	14.67	740	559,330	13.23
Aug 2025	1,501	1,019,096	14.73	764	581,200	13.15
Sep 2025	1,504	1,009,073	14.90	796	573,668	13.88
Oct 2025	1,581	1,094,113	14.45	805	618,341	13.02
Nov 2025	1,466	1,070,600	13.69	762	604,613	12.60
Dec 2025	1,413	1,035,633	13.64	706	594,219	11.88
Jan 2026	1,370	964,916	14.20	717	551,618	13.00
Feb 2026	1,329	1,009,800	13.16	652	575,860	11.32
Mar 2026	1,521	1,111,302	13.69	774	632,971	12.23
Apr 2026	1,470	1,070,555	13.73	789	605,338	13.03
May 2026	1,639	1,108,811	14.78	848	624,376	13.58
Jun 2026	1,528	1,034,598	14.77	798	583,829	13.67

Table 8. Shingles Rate Over Time by Sex for Ages 45 to 49

Month	Female cases	Female denominator	Female rate/10,000	Male cases	Male denominator	Male rate/10,000
Jan 2019	769	496,733	15.48	375	314,135	11.94
Feb 2019	709	519,012	13.66	400	327,134	12.23
Mar 2019	786	571,905	13.74	411	359,289	11.44
Apr 2019	823	560,182	14.69	445	346,065	12.86
May 2019	832	570,343	14.59	455	352,520	12.91
Jun 2019	827	539,324	15.33	410	331,311	12.38
Jul 2019	751	542,089	13.85	449	333,899	13.45
Aug 2019	897	563,893	15.91	479	347,637	13.78
Sep 2019	814	553,957	14.69	443	344,820	12.85
Oct 2019	918	610,392	15.04	488	376,078	12.98
Nov 2019	888	602,251	14.74	479	372,155	12.87
Dec 2019	873	583,793	14.95	431	367,384	11.73
Jan 2020	816	548,901	14.87	427	346,134	12.34
Feb 2020	834	615,550	13.55	465	386,399	12.03

Mar 2020	919	612,203	15.01	445	384,577	11.57
Apr 2020	721	381,965	18.88	364	239,807	15.18
May 2020	828	403,482	20.52	389	252,680	15.39
Jun 2020	807	482,526	16.72	459	296,867	15.46
Jul 2020	906	559,601	16.19	420	341,642	12.29
Aug 2020	867	589,411	14.71	453	358,416	12.64
Sep 2020	868	581,811	14.92	477	356,663	13.37
Oct 2020	975	637,185	15.30	479	388,987	12.31
Nov 2020	901	639,639	14.09	438	391,520	11.19
Dec 2020	934	630,195	14.82	448	394,075	11.37
Jan 2021	916	574,560	15.94	434	358,834	12.09
Feb 2021	825	590,073	13.98	428	365,043	11.72
Mar 2021	867	652,393	13.29	434	403,548	10.75
Apr 2021	898	648,309	13.85	439	398,582	11.01
May 2021	993	671,454	14.79	477	412,038	11.58
Jun 2021	891	632,893	14.08	496	386,701	12.83
Jul 2021	989	658,710	15.01	485	401,166	12.09
Aug 2021	1,024	694,936	14.74	558	425,018	13.13
Sep 2021	1,023	687,889	14.87	524	424,606	12.34
Oct 2021	973	738,145	13.18	523	451,434	11.59
Nov 2021	915	729,348	12.55	509	443,750	11.47
Dec 2021	995	722,838	13.77	549	447,304	12.27
Jan 2022	965	679,603	14.20	482	423,400	11.38
Feb 2022	920	676,594	13.60	441	415,708	10.61
Mar 2022	1,045	738,778	14.14	526	450,164	11.68
Apr 2022	1,082	729,814	14.83	520	440,938	11.79
May 2022	1,127	758,928	14.85	529	459,391	11.52
Jun 2022	1,099	718,420	15.30	564	433,492	13.01
Jul 2022	1,084	721,304	15.03	572	433,190	13.20
Aug 2022	1,159	752,182	15.41	583	455,709	12.79
Sep 2022	1,075	745,968	14.41	545	452,395	12.05
Oct 2022	1,111	802,512	13.84	560	481,170	11.64
Nov 2022	1,069	809,574	13.20	582	483,541	12.04
Dec 2022	1,019	806,033	12.64	535	489,941	10.92
Jan 2023	1,033	753,135	13.72	553	457,359	12.09
Feb 2023	1,003	793,684	12.64	509	479,304	10.62
Mar 2023	1,230	865,996	14.20	578	521,864	11.08
Apr 2023	1,165	837,401	13.91	566	502,274	11.27
May 2023	1,276	869,999	14.67	668	522,214	12.79
Jun 2023	1,190	816,181	14.58	600	485,856	12.35
Jul 2023	1,248	805,423	15.49	605	478,133	12.65
Aug 2023	1,268	844,546	15.01	631	508,480	12.41
Sep 2023	1,250	833,533	15.00	626	502,836	12.45
Oct 2023	1,331	898,084	14.82	651	538,695	12.08
Nov 2023	1,209	891,883	13.56	640	534,662	11.97
Dec 2023	1,213	891,401	13.61	662	542,078	12.21
Jan 2024	1,200	830,328	14.45	590	507,987	11.61
Feb 2024	1,190	903,656	13.17	596	550,511	10.83
Mar 2024	1,275	964,140	13.22	662	581,723	11.38
Apr 2024	1,269	923,907	13.74	666	554,638	12.01
May 2024	1,389	968,195	14.35	690	580,127	11.89

Jun 2024	1,386	902,422	15.36	718	538,933	13.32
Jul 2024	1,437	902,374	15.92	751	536,823	13.99
Aug 2024	1,474	947,763	15.55	726	568,979	12.76
Sep 2024	1,418	931,090	15.23	706	561,426	12.58
Oct 2024	1,505	1,005,302	14.97	717	602,932	11.89
Nov 2024	1,449	1,006,341	14.40	691	602,391	11.47
Dec 2024	1,435	975,775	14.71	744	592,450	12.56
Jan 2025	1,359	914,103	14.87	687	558,613	12.30
Feb 2025	1,346	984,854	13.67	679	600,194	11.31
Mar 2025	1,525	1,063,631	14.34	752	646,884	11.62
Apr 2025	1,523	1,032,666	14.75	769	617,126	12.46
May 2025	1,658	1,063,555	15.59	761	635,856	11.97
Jun 2025	1,558	1,000,862	15.57	778	596,471	13.04
Jul 2025	1,607	1,005,781	15.98	847	596,451	14.20
Aug 2025	1,646	1,035,845	15.89	883	619,682	14.25
Sep 2025	1,697	1,020,737	16.63	825	613,155	13.45
Oct 2025	1,822	1,105,993	16.47	877	659,740	13.29
Nov 2025	1,648	1,085,368	15.18	819	646,220	12.67
Dec 2025	1,632	1,051,303	15.52	819	635,119	12.90
Jan 2026	1,644	986,059	16.67	701	596,156	11.76
Feb 2026	1,538	1,033,913	14.88	727	623,414	11.66
Mar 2026	1,792	1,135,113	15.79	888	685,071	12.96
Apr 2026	1,682	1,098,865	15.31	865	654,765	13.21
May 2026	1,831	1,135,767	16.12	908	678,095	13.39
Jun 2026	1,827	1,066,496	17.13	936	633,993	14.76