

*mi*Ottawa Department of
Public Health

**Annual Summary of
Reportable Diseases
Ottawa County 2021**

Prepared July 2022

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2021

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Annual Reportable Disease Summary

Data

The data in the annual disease report is expected to be final, based on current reports in the Michigan Disease Surveillance System (MDSS) made by local health departments. The MDSS is a dynamic, continually active system and disease counts can change as cases are investigated, confirmed as cases, or ruled out as not meeting the case definition. Therefore, it should be kept in mind that numbers in the annual disease report may change and should be used only to generally monitor trends over time. Suspected, probable and confirmed cases of the reportable condition are included in the report. Statewide disease counts may differ from that published elsewhere by the Michigan Department of Health and Human Services (MDHHS) for several reasons including the timeframe of data acquisition and differences in data query criteria. Changes in disease counts from one year to the next can be due to several reasons including; changes in laboratory tests, case definitions, reporting mechanisms, as well as actual increases or decreases in disease incidence. Changes in healthcare seeking behavior since the onset of the COVID-19 pandemic may have also affected the counts of reported diseases.

Specific data requests and questions should be directed to:

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Disease Group	Reportable Condition	Ottawa County Cases Reported**					Michigan Cases Reported				
		2017	2018	2019	2020	2021	2017	2018	2019	2020	2021
Foodborne	Amebiasis	-	1	-	-	1	6	2	9	7	6
	Botulism - Foodborne	-	-	-	-	-	-	-	-	-	1
	Campylobacter	68	61	58	38	58	1,735	1,705	1,705	1,221	1,515
	Cryptosporidiosis	19	24	22	15	12	425	383	419	245	248
	Giardiasis	17	15	11	13	17	568	464	428	379	436
	Listeriosis	-	-	4	-	-	30	23	30	29	35
	Norovirus	70	88	262	108	36	1,082	1,009	1,481	583	594
	Salmonellosis	44	38	30	45	38	1,086	1,137	1,075	905	871
	Shiga toxin-producing Escherichia coli (STEC)	9	16	17	10	5	201	327	308	211	266
	Shigellosis	23	8	16	5	2	460	209	219	152	170
	Typhoid Fever	-	-	1	-	-	14	6	10	1	4
	Yersinia enterocolitica	1	2	-	5	2	66	82	76	81	91
Foodborne Subtotal		251	253	421	239	171	5,673	5,347	5,760	3,814	4,237
Influenza	Flu Like Disease*	32,924	35,954	31,762	27,698	20,633	394,863	379,206	347,997	204,963	86,082
	Influenza	6	9	4	6	39	25,925	47,024	31,827	32,839	3,589
	Novel Influenza	-	-	-	-	-	2	3	1	-	-
	Influenza Subtotal	32,930	35,963	31,766	27,704	20,672	420,790	426,233	379,825	237,802	89,671
Meningitis	Meningitis - Aseptic	16	8	9	2	2	659	826	457	260	265
	Meningitis - Bacterial Other	1	5	3	6	3	126	147	121	102	124
	Meningococcal Disease	-	-	-	-	-	6	4	8	3	5
	Streptococcus pneumoniae, Inv	17	13	12	8	5	841	791	936	529	524
	Meningitis Subtotal	34	26	24	16	10	1,632	1,768	1,522	894	918
Other	Acute Flaccid Myelitis (AFM)	-	1	-	-	-	-	6	3	4	1
	Anthrax	-	-	-	-	-	-	-	-	-	-
	Blastomycosis	-	-	-	1	-	22	20	26	23	29
	Botulism - Infant	-	-	-	-	-	-	1	-	2	-
	Botulism - Other	-	-	-	-	-	-	2	-	1	2
	Brucellosis	-	-	1	-	-	2	4	1	4	1
	CP-CRE	-	3	1	-	5	145	401	263	267	479
	Candida auris	-	-	-	-	-	-	-	-	-	3
	Cholera	-	-	-	-	-	1	1	2	-	2
	Coccidioidomycosis	2	2	4	1	3	42	39	51	53	78
	Creutzfeldt-Jakob Disease	-	-	-	1	-	13	12	15	10	16
	Cryptococcosis	-	1	-	-	-	15	14	18	24	25
	Cyclosporiasis	-	-	1	-	-	41	30	130	25	52
	Encephalitis, Post Chickenpox	-	-	-	-	-	-	1	1	-	-
	Encephalitis, Post Mumps	-	-	-	-	-	-	-	-	-	-
	Encephalitis, Post Other	-	-	-	1	-	21	10	14	10	16
	Encephalitis, Primary	-	-	-	-	-	15	18	14	16	12
	Guillain-Barre Syndrome	2	-	-	2	1	54	48	63	50	64
	Hantavirus	-	-	-	-	-	-	-	-	-	-
	Hantavirus, Other	-	-	-	-	-	-	-	-	-	-
	Hantavirus, Pulmonary	-	-	-	-	-	-	-	-	-	1
	Hemolytic Uremic Syndrome	-	2	1	1	-	6	11	8	5	3
	Hemorrhagic Fever	-	-	-	-	-	-	-	-	-	-
	Histoplasmosis	11	11	24	10	21	178	171	234	192	271
	Kawasaki	1	1	-	2	-	46	35	55	63	48
	Legionellosis	-	11	8	7	8	349	643	561	385	583
	Leprosy	-	-	-	-	-	-	1	-	-	1
	Leptospirosis	-	-	-	-	-	4	1	3	3	2
	Melioidosis	-	-	-	-	-	1	-	-	-	-
	Multisystem Inflammatory Syndrome	-	-	-	4	4	-	-	-	81	174
	Novel Coronavirus COVID-19	-	-	-	21,939	44,705	-	-	-	589,471	1,362,007
	Plague	-	-	-	-	-	-	-	-	-	-
	Psittacosis	-	-	-	-	-	1	4	-	2	2
	Q Fever Acute	-	1	-	-	-	3	4	5	4	4
	Q Fever Chronic	-	-	-	-	-	3	1	-	1	-
	Rabies Animal	-	-	1	-	3	44	76	58	55	49
	Rabies Human	-	-	-	-	-	-	-	-	-	-
	Reye Syndrome	-	-	-	-	-	-	-	-	-	-
	Rheumatic Fever	-	-	-	-	-	-	-	-	-	-
	Rubella - Congenital	-	-	-	-	-	-	-	-	-	-
	Streptococcus pneumoniae, Drug Resistant	4	4	4	5	1	110	96	80	32	41
Streptococcal Dis, Inv, Grp A	17	8	11	13	3	458	428	449	337	269	
Streptococcal Toxic Shock	-	-	-	-	-	2	5	5	4	3	

Disease Group	Reportable Condition	Ottawa County Cases Reported**					Michigan Cases Reported				
		2017	2018	2019	2020	2021	2017	2018	2019	2020	2021
Other	Toxic Shock	-	-	-	-	-	2	4	7	3	5
	Trachoma	-	-	-	-	-	-	-	-	2	1
	Trichinosis	-	-	-	-	-	-	-	-	-	1
	Tularemia	-	-	-	-	-	-	2	1	-	1
	Vibriosis - Non Cholera	2	-	3	-	2	20	45	39	27	46
	VISA	-	2	1	-	-	7	8	11	-	4
	VRSA	-	-	-	-	-	-	-	-	-	1
	Other Subtotal	39	47	60	21,987	44,756	1,605	2,142	2,117	591,156	1,364,297
STD	Chancroid	-	-	-	-	-	1	-	-	-	2
	Chlamydia (Genital)	984	937	821	808	1,007	51,636	51,537	50,358	44,815	46,155
	Gonorrhea	143	187	161	201	257	15,364	17,032	18,266	23,389	22,072
	Granuloma Inguinale	-	-	-	-	-	-	-	-	-	-
	Lymphogranuloma venereum	-	-	-	-	-	8	16	1	8	3
	Syphilis - Primary, Secondary & Early Latent	5	8	8	18	14	1,237	1,066	1,242	1,350	1,715
	All Syphilis	6	14	14	24	27	1,301	1,706	1,914	2,046	2,681
	STD Subtotal	1,133	1,138	996	1,033	1,291	68,310	70,291	70,539	70,258	70,913
Tuberculosis	Latent Tuberculosis Infection	2	66	50	24	62	124	1,125	2,053	1,355	1,490
	Nontuberculous Mycobacterium	6	11	11	16	12	369	839	854	684	769
	Tuberculosis	3	7	3	1	1	135	117	138	97	129
		Tuberculosis Subtotal	11	84	64	41	75	628	2,081	3,045	2,136
VPD	Chickenpox (Varicella)	14	27	14	14	22	542	434	416	185	198
	Diphtheria	-	-	-	-	-	-	-	-	-	1
	H. influenzae Disease - Inv. †	3	3	9	4	5	199	174	223	99	171
	Measles	-	-	-	-	-	2	19	46	-	5
	Mumps	4	1	-	1	-	47	81	29	7	13
	Pertussis	32	20	19	5	-	761	658	546	116	222
	Polio	-	-	-	-	-	-	-	-	-	-
	Rubella	-	-	-	-	-	-	-	-	1	7
	Shingles	34	26	21	9	15	976	1,252	1,222	817	632
	Tetanus	-	-	-	-	-	2	2	1	-	1
	VZ Infection, Unspecified	-	-	4	17	4	270	213	228	236	428
	VPD Subtotal	87	77	67	50	46	2,799	2,833	2,711	1,461	1,678
Vectorborne	Babesiosis	-	-	-	-	-	3	5	2	1	8
	Chikungunya	1	-	-	-	-	4	2	1	-	1
	Dengue Fever	-	-	1	-	-	11	12	23	9	5
	Ehrlichiosis	1	2	1	-	1	22	25	22	25	81
	Encephalitis, California Serogroup	-	-	-	1	-	-	2	3	4	8
	Encephalitis, Eastern Equine	-	-	-	-	-	-	1	10	4	1
	Encephalitis, Powassan	-	-	-	-	-	-	-	-	-	-
	Encephalitis, St. Louis	-	-	-	-	-	-	-	-	-	1
	Encephalitis, Western Equine	-	-	-	-	-	-	-	-	-	-
	Lyme Disease	15	9	26	10	28	349	309	490	533	1,264
	Malaria	-	-	-	-	-	45	29	26	14	16
	Rickettsial Disease - Spotted Fever	-	-	-	1	-	13	23	12	48	12
	Rickettsial Disease - Typhus	-	-	-	-	-	-	-	-	-	-
	West Nile Virus	-	2	-	-	-	43	105	12	33	73
	Yellow Fever	-	-	-	-	-	-	-	-	-	-
Zika	1	-	-	-	-	-	-	-	-	4	
	Vectorborne Subtotal	18	13	28	12	29	490	513	601	671	1,474
Viral Hepatitis	Hepatitis A	2	-	1	-	1	702	331	78	22	31
	Hepatitis B, Acute	-	2	1	-	-	62	80	65	45	36
	Hepatitis B, Chronic	19	23	17	8	10	1,193	1,059	1,003	679	627
	Hepatitis B, Perinatal	-	-	-	-	-	1	1	-	-	-
	Hepatitis C, Acute †	2	1	1	5	-	230	175	130	142	131
	Hepatitis C, Chronic †	129	108	63	31	40	11,255	9,790	5,802	4,161	3,975
	Hepatitis C, Perinatal	-	-	-	-	-	3	11	10	8	9
	Hepatitis C, Unknown*	-	-	-	-	-	-	-	22	-	-
	Hepatitis D	-	-	2	-	-	3	4	6	6	9
	Viral Hepatitis Subtotal	152	134	85	44	51	13,449	11,451	7,116	5,063	4,818
	Total	34,655	37,735	33,511	51,126	67,101	515,376	522,659	473,236	913,255	1,540,394

* Indicates disease no longer reported into the MDSS on an individual cases basis.

** Data for cases reported is based on date of symptom onset, if available, or date of referral to the public health department.

† All serotypes of invasive H. influenzae (Hi) disease are included, though only H. influenzae serotype b disease (Hib) is vaccine-preventable.

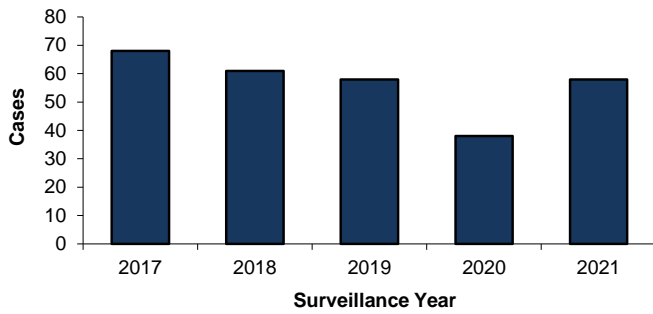
‡ Indicates a change in the case definition for 2020, which may affect the number of confirmed and probable cases.

Annual Reportable Disease Summary

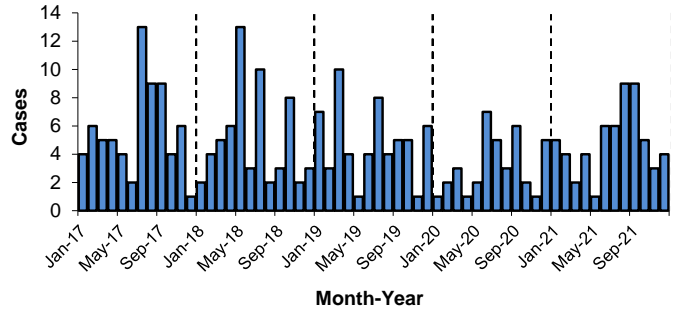
Charts

Foodborne Illness:

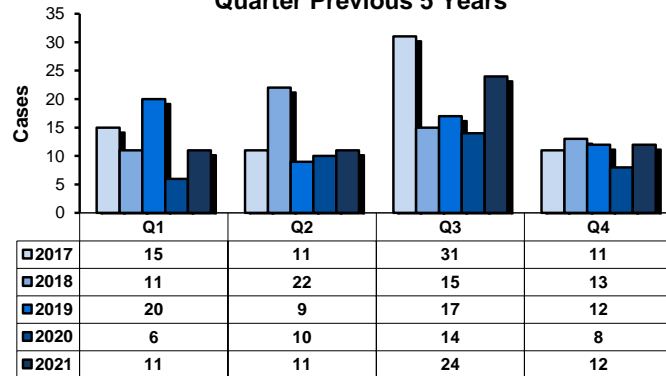
Campylobacter Cases in Ottawa County Previous 5 Years



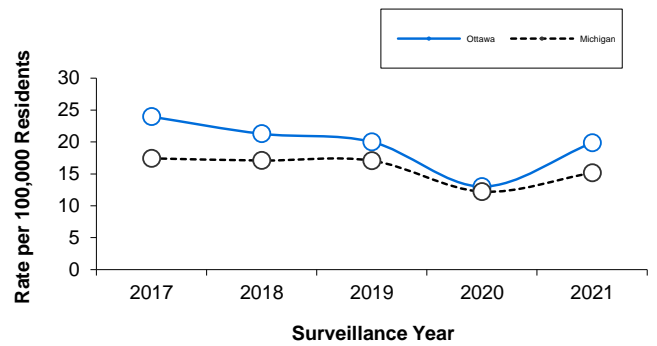
Campylobacter Cases in Ottawa County by Month Previous 5 Years



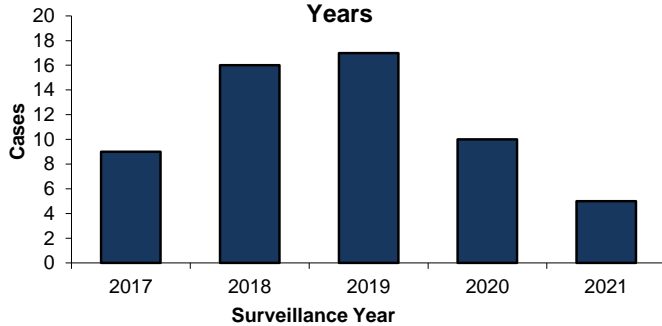
Campylobacter Cases in Ottawa County by Quarter Previous 5 Years



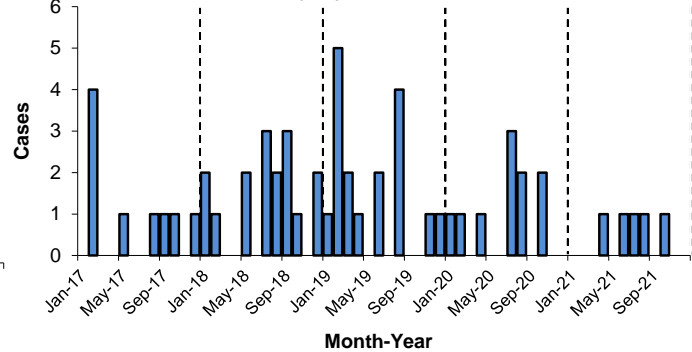
Campylobacter Cases per 100,000



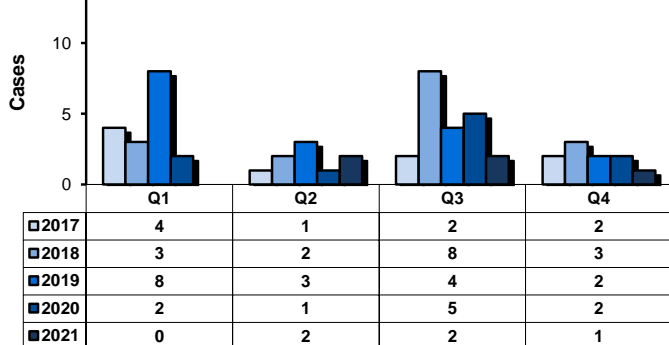
Shiga toxin-producing *Escherichia coli* (STEC) Cases in Ottawa County Previous 5 Years



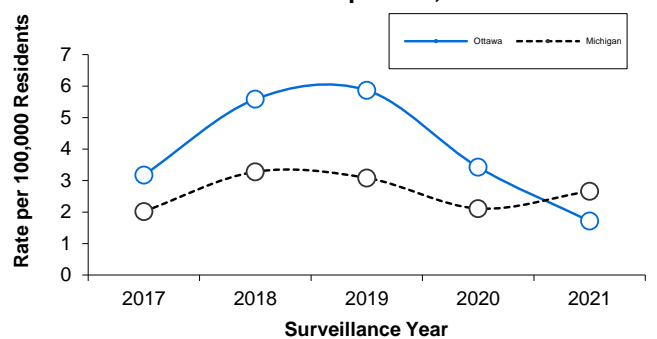
Shiga toxin-producing *Escherichia coli* (STEC) Cases in Ottawa County by Month Previous 5 Years



Shiga toxin-producing *Escherichia coli* (STEC) Cases in Ottawa County by Quarter Previous 5 Years

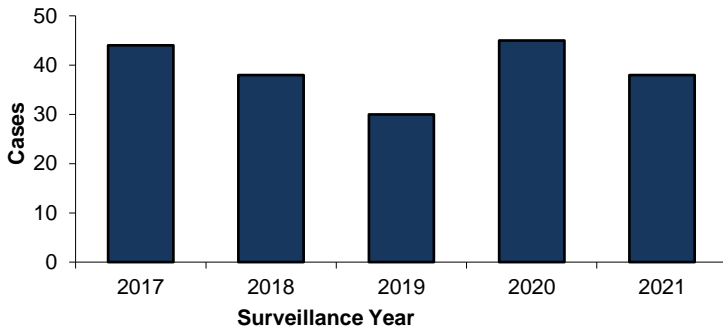


Shiga toxin-producing *Escherichia coli* (STEC) Cases per 100,000

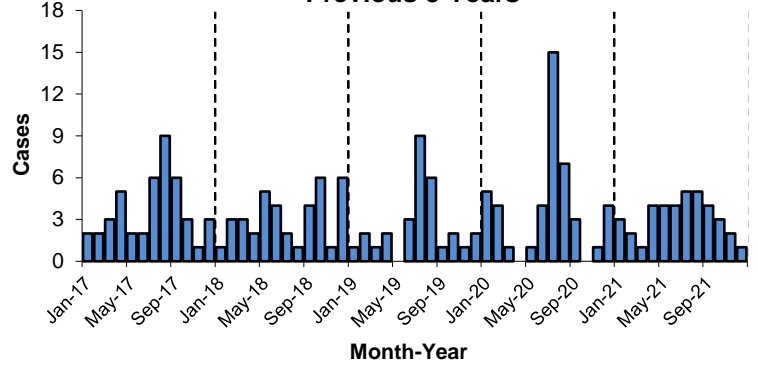


Foodborne Illness:

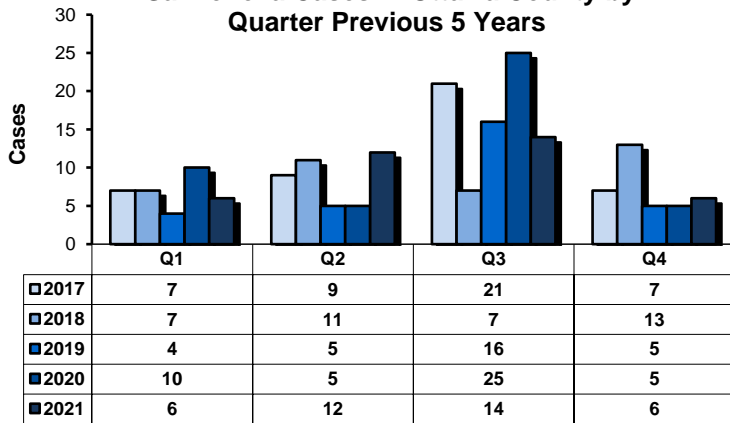
Salmonella Cases in Ottawa County Previous 5 Years



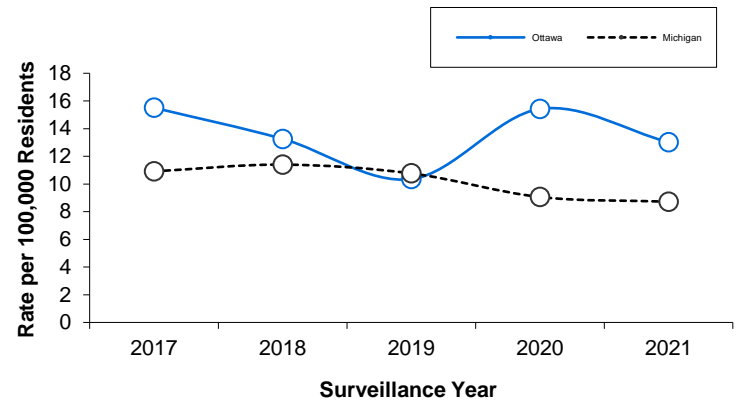
Salmonella Cases in Ottawa County by Month Previous 5 Years



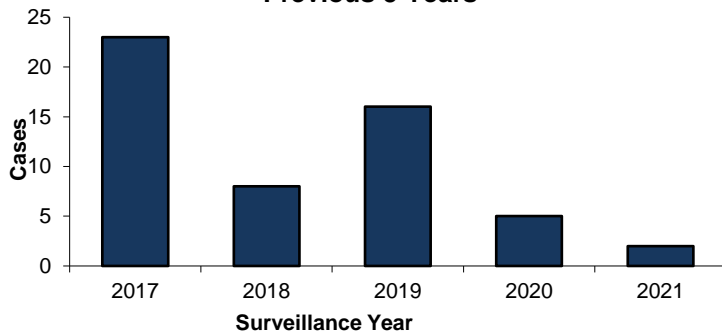
Salmonella Cases in Ottawa County by Quarter Previous 5 Years



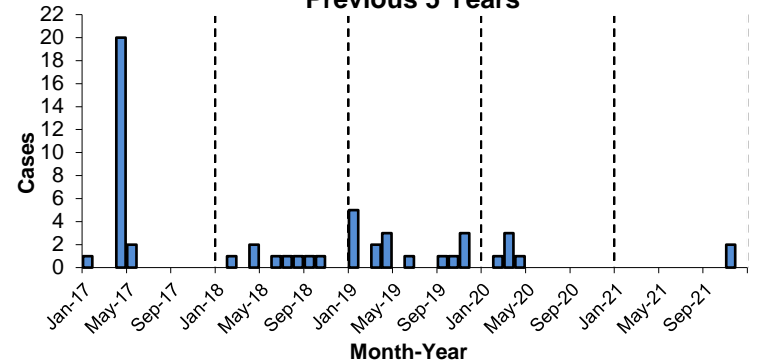
Salmonella Cases per 100,000



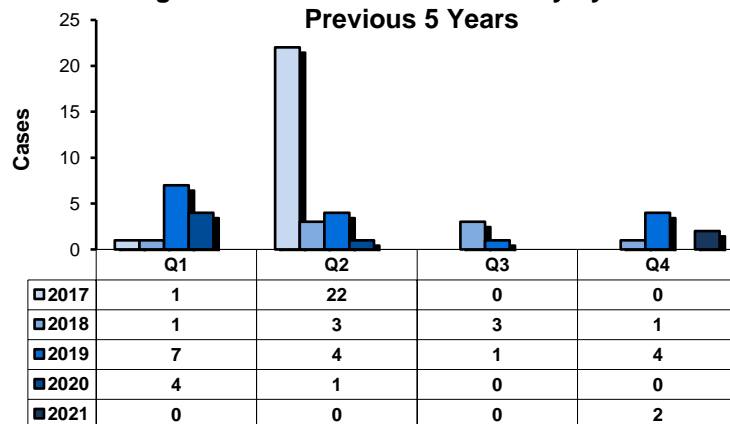
Shigellosis Cases in Ottawa County Previous 5 Years



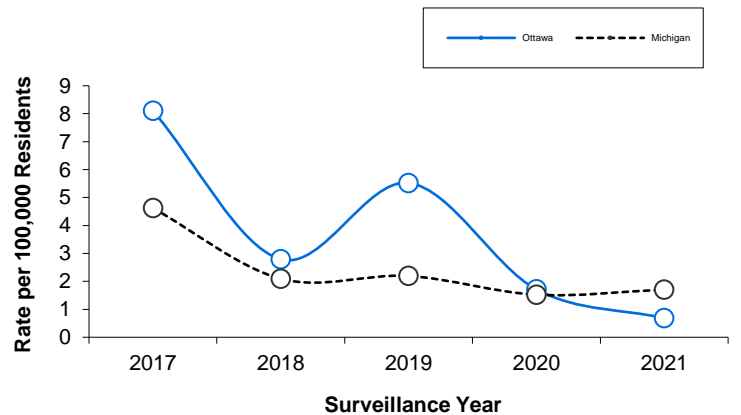
Shigellosis Cases in Ottawa County by Month Previous 5 Years



Shigellosis Cases in Ottawa County by Quarter Previous 5 Years

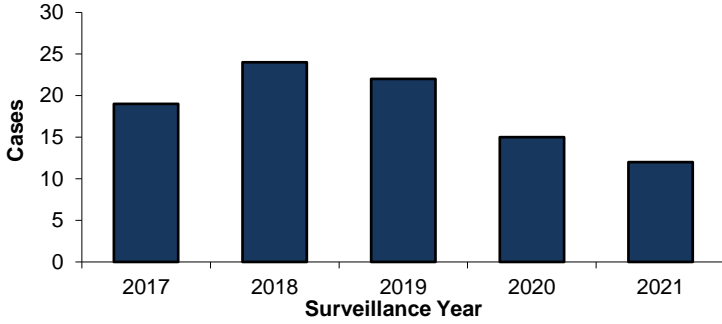


Shigellosis Cases per 100,000

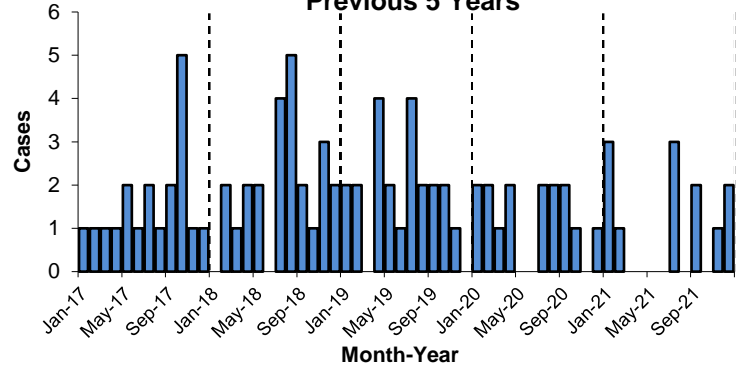


Foodborne Illness:

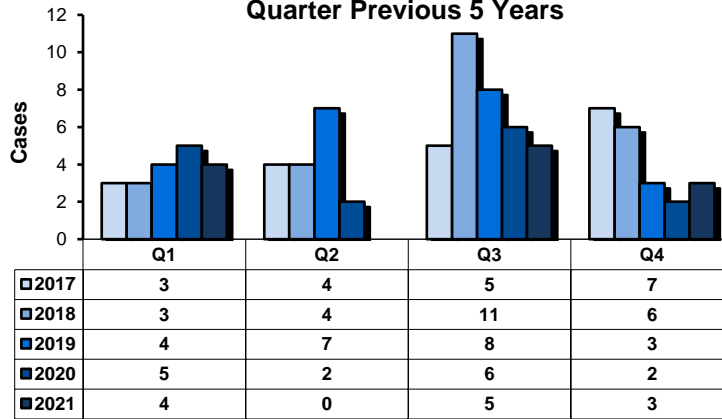
Cryptosporidiosis Cases in Ottawa County Previous 5 Years



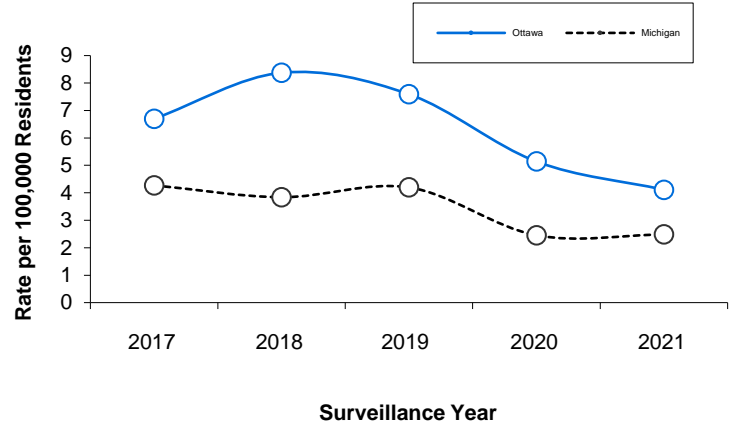
Cryptosporidiosis Cases in Ottawa County by Month Previous 5 Years



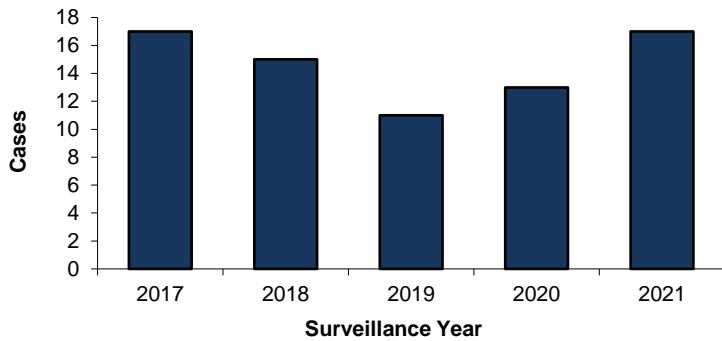
Cryptosporidiosis Cases in Ottawa County by Quarter Previous 5 Years



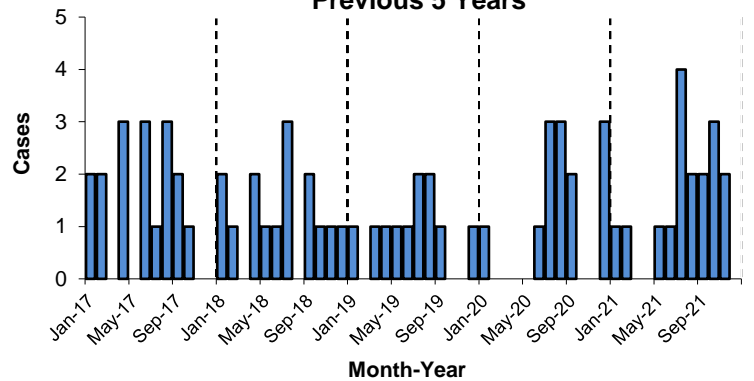
Cryptosporidiosis Cases per 100,000



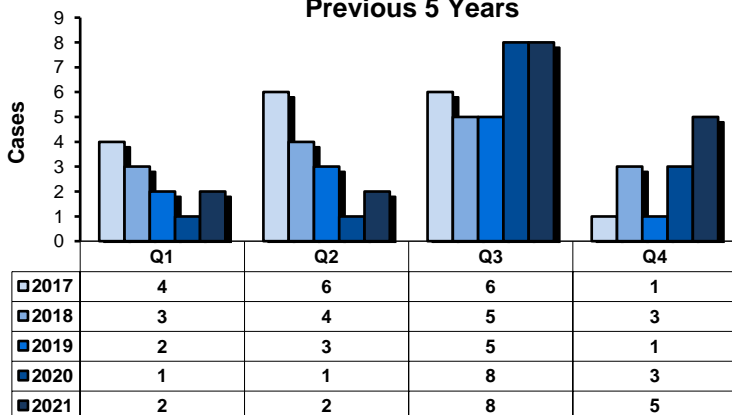
Giardia Cases in Ottawa County Previous 5 Years



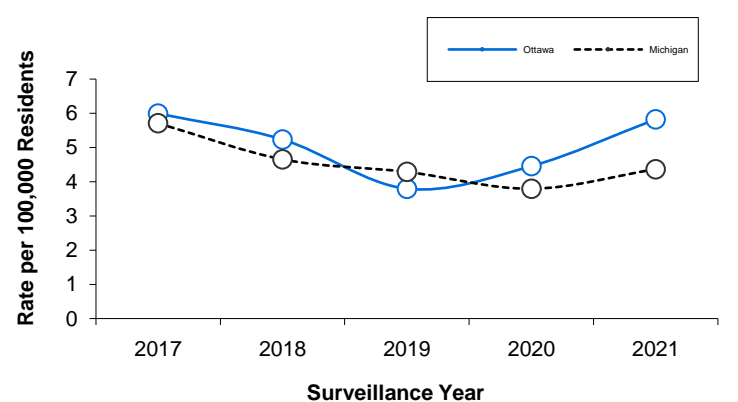
Giardia Cases in Ottawa County by Month Previous 5 Years



Giardia Cases in Ottawa County by Quarter Previous 5 Years

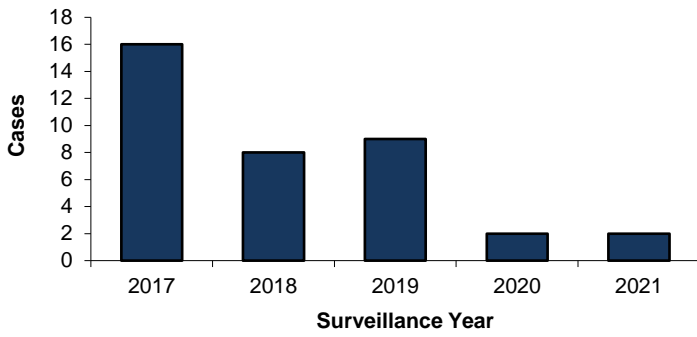


Giardia Cases per 100,000

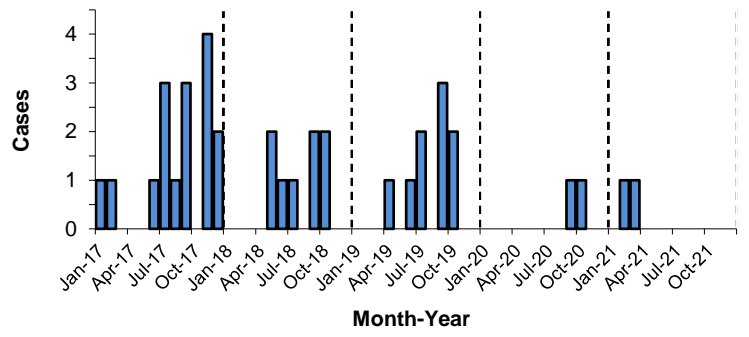


Meningitis:

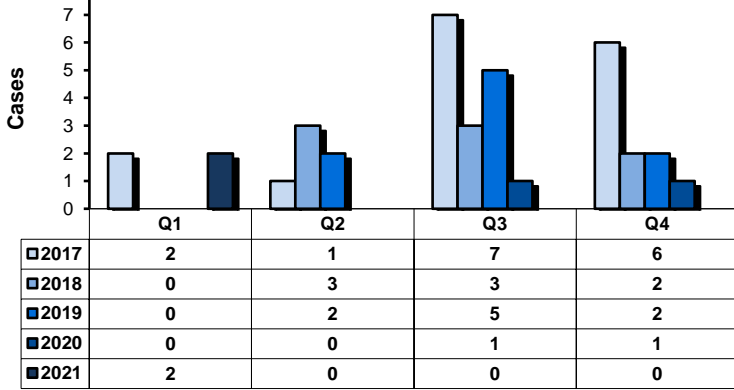
Aseptic Meningitis Cases in Ottawa County Previous 5 Years



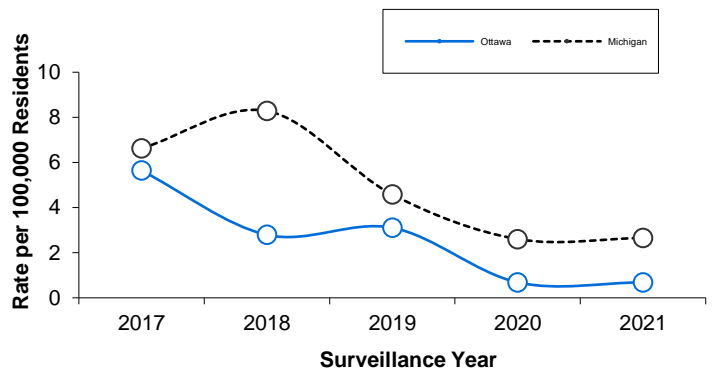
Aseptic Meningitis Cases in Ottawa County by Month Previous 5 Years



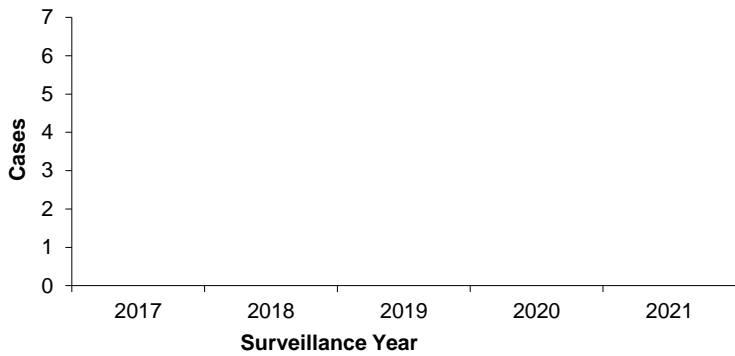
Aseptic Meningitis Cases in Ottawa County by Quarter Previous 5 Years



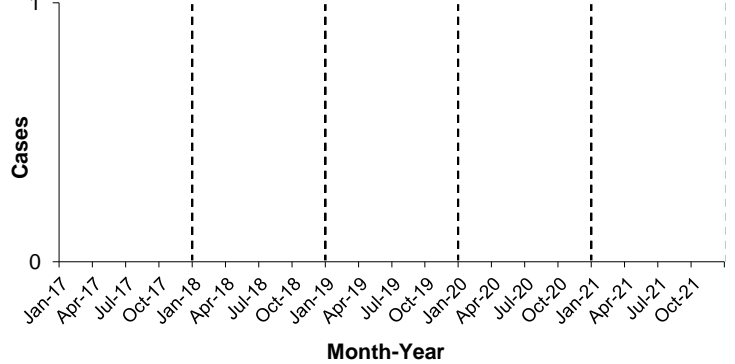
Aseptic Meningitis Cases per 100,000



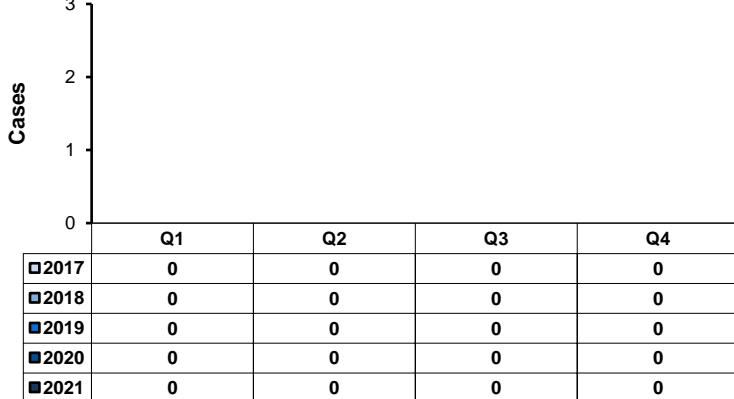
N. meningitidis Cases in Ottawa County Previous 5 Years



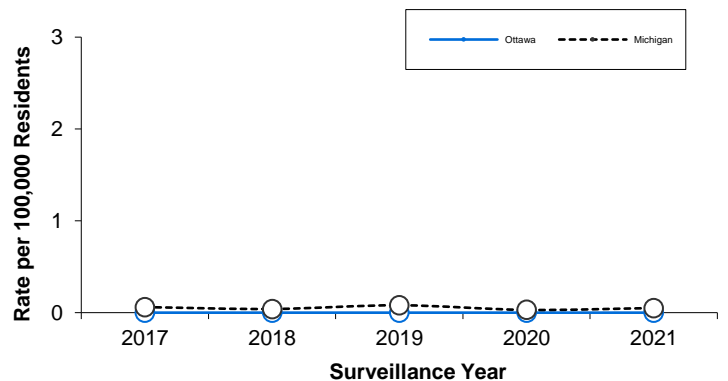
N. meningitidis Cases in Ottawa County by Month Previous 5 Years



N. meningitidis Cases in Ottawa County by Quarter Previous 5 Years

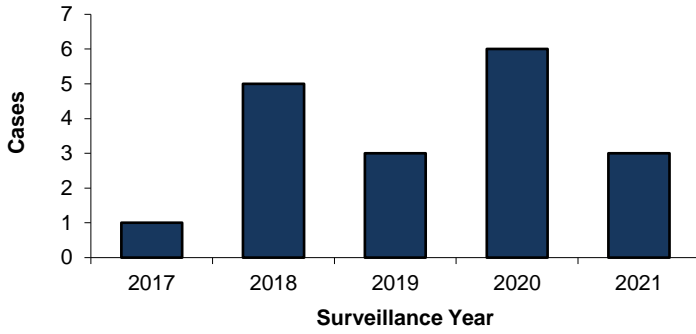


N. meningitidis Cases per 100,000

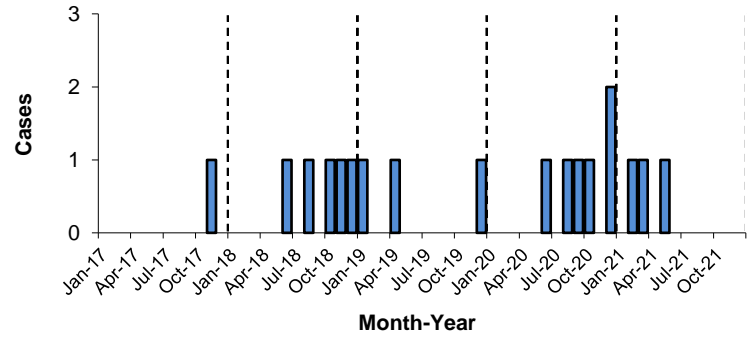


Meningitis:

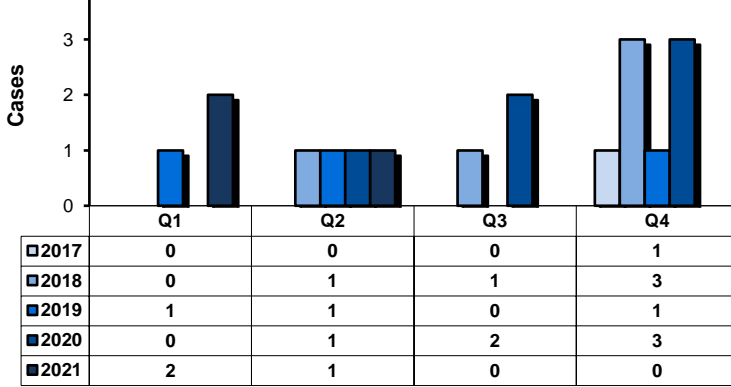
Meningitis (Other Bacterial) Cases in Ottawa County Previous 5 Years



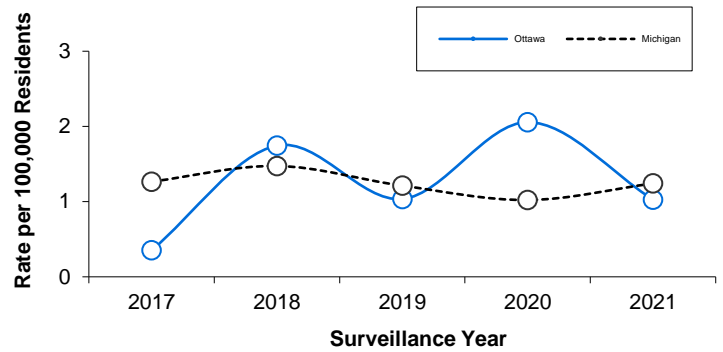
Meningitis (Other Bacterial) Cases in Ottawa County by Month Previous 5 Years



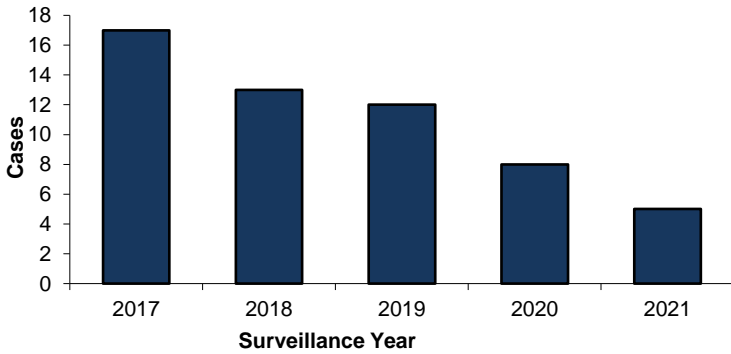
Meningitis (Other Bacterial) Cases in Ottawa County by Quarter Previous 5 Years



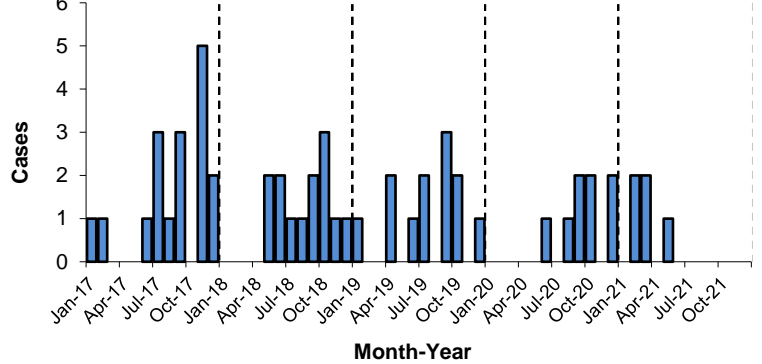
Meningitis (Other Bacterial) Cases per 100,000



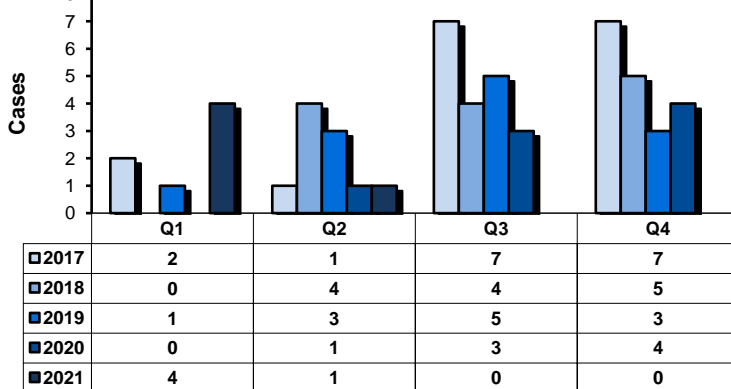
Invasive Streptococcus pneumoniae Cases in Ottawa County Previous 5 Years



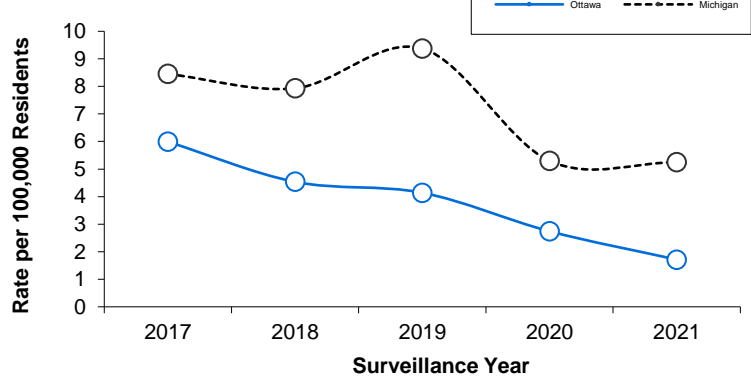
Invasive Streptococcus pneumoniae Cases in Ottawa County by Month Previous 5 Years



Invasive Streptococcus pneumoniae Cases in Ottawa County by Quarter Previous 5 Years

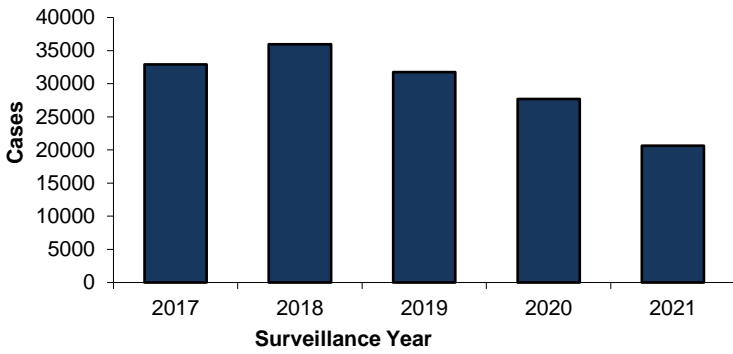


Invasive Streptococcus pneumoniae Cases per 100,000

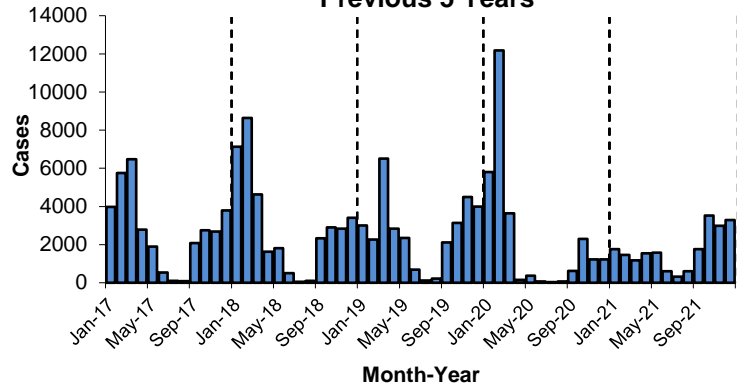


Influenza and COVID-19:

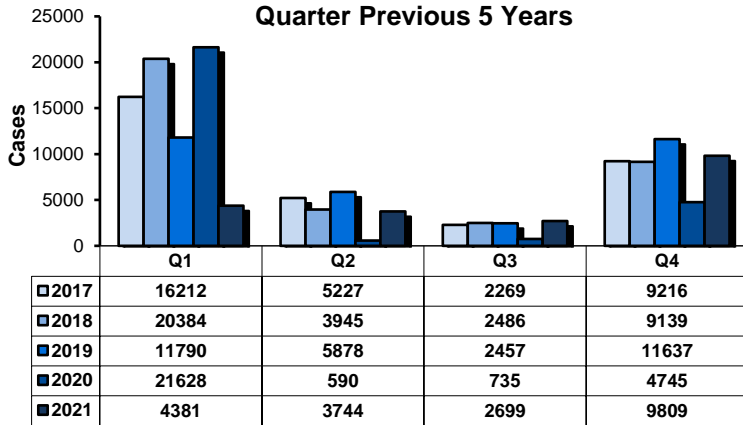
Flu-Like Disease Cases in Ottawa County Previous 5 Years



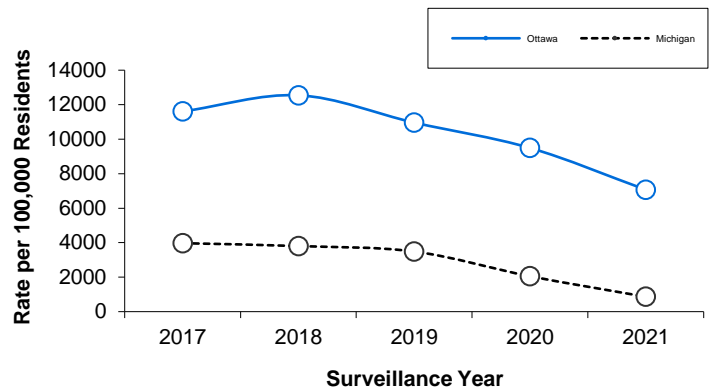
Flu-Like Disease Cases in Ottawa County by Month Previous 5 Years



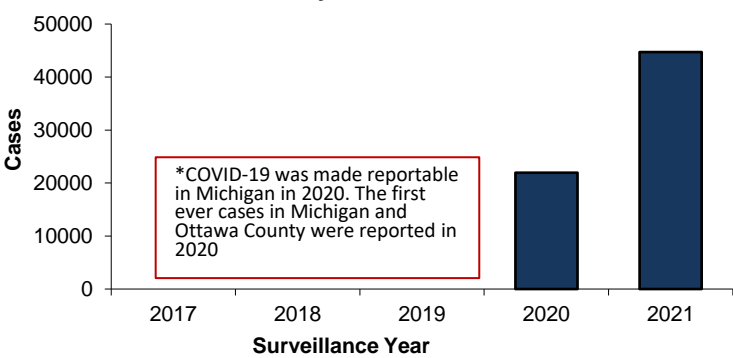
Flu-Like Disease Cases in Ottawa County by Quarter Previous 5 Years



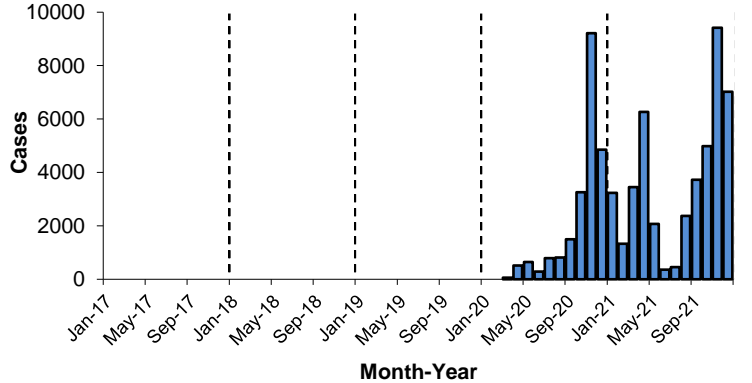
Flu-Like Disease Cases per 100,000



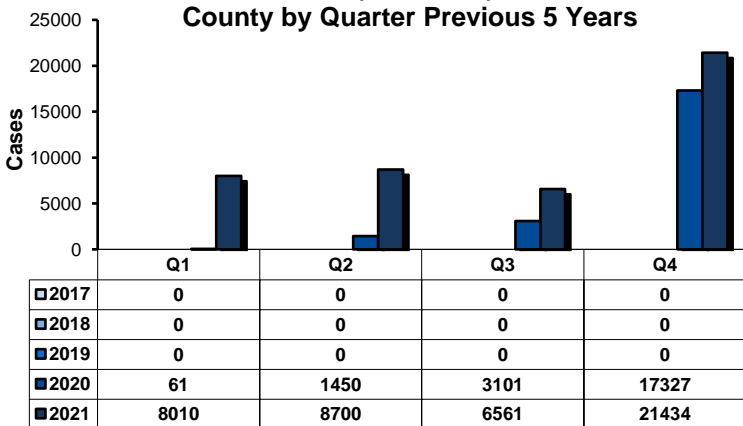
Novel Coronavirus (COVID-19) Cases in Ottawa County Previous 5 Years



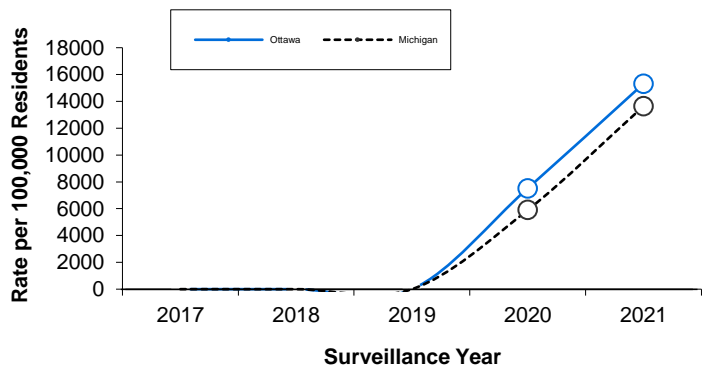
Novel Coronavirus (COVID-19) Cases in Ottawa County by Month Previous 5 Years



Novel Coronavirus (COVID-19) Cases in Ottawa County by Quarter Previous 5 Years

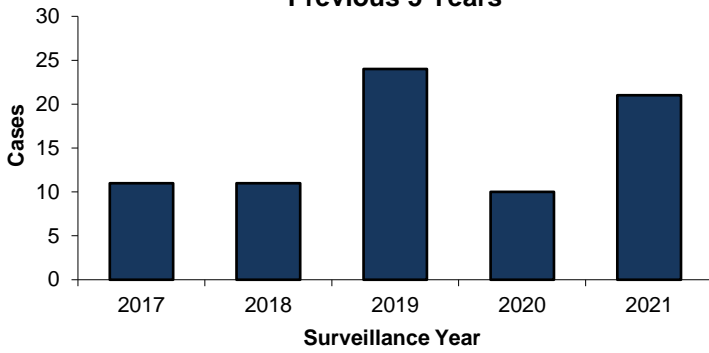


Novel Coronavirus (COVID-19) Disease Cases per 100,000

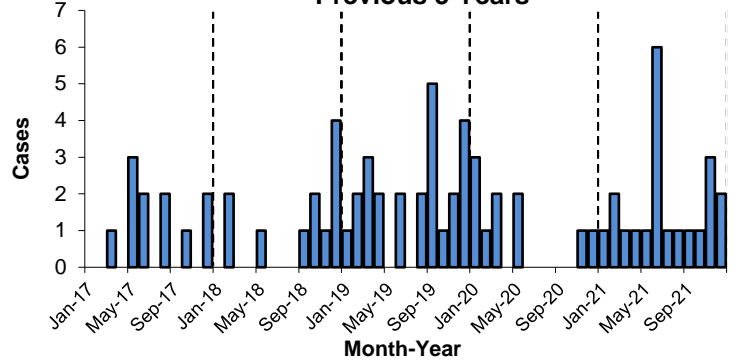


Other Illnesses:

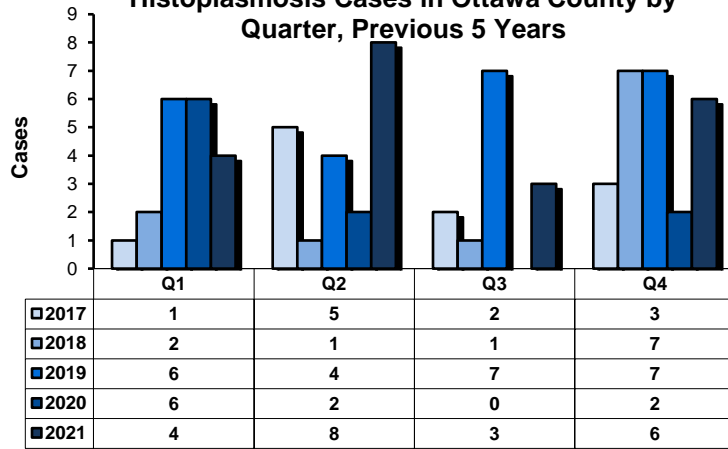
Histoplasmosis Cases in Ottawa County Previous 5 Years



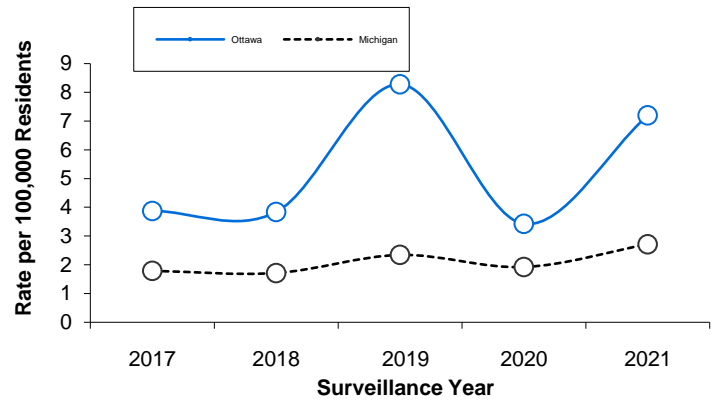
Histoplasmosis Cases in Ottawa County by Month Previous 5 Years



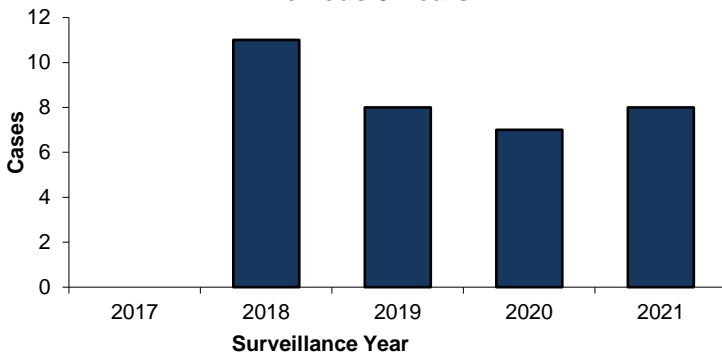
Histoplasmosis Cases in Ottawa County by Quarter, Previous 5 Years



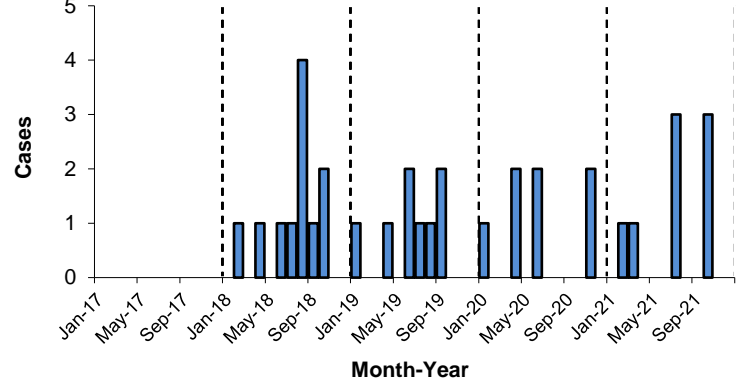
Histoplasmosis Cases per 100,000



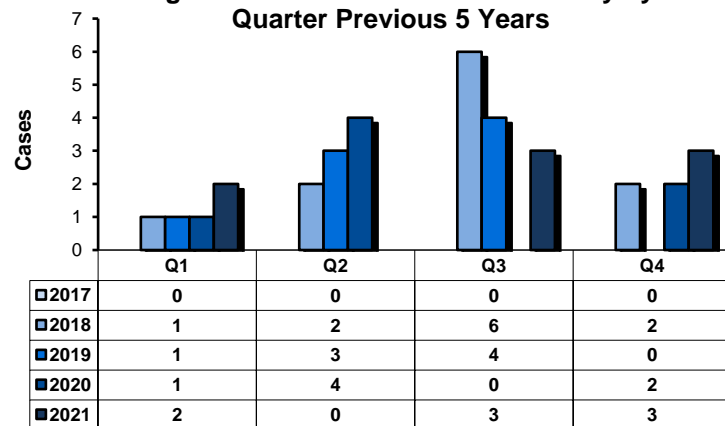
Legionellosis Cases in Ottawa County Previous 5 Years



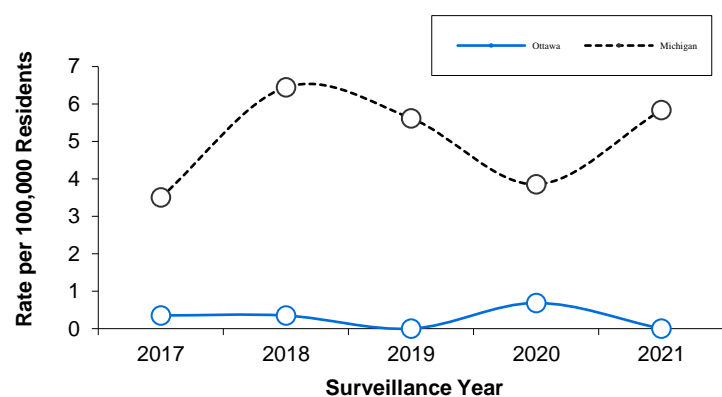
Legionellosis Cases in Ottawa County by Month Previous 5 Years



Legionellosis Cases in Ottawa County by Quarter Previous 5 Years

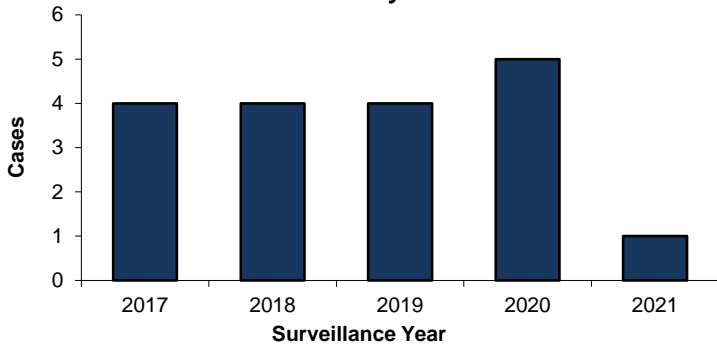


Legionellosis Cases per 100,000

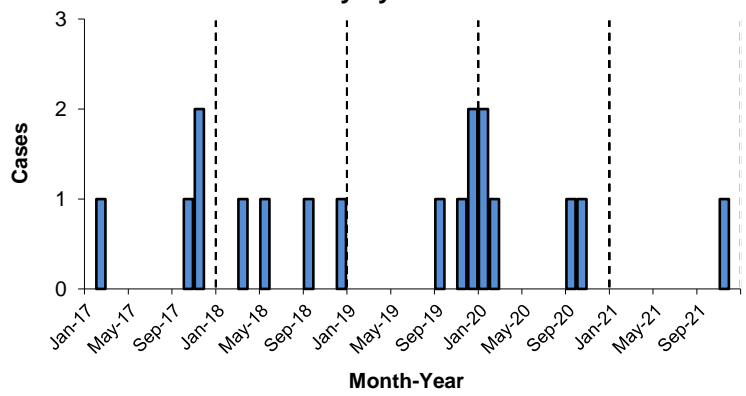


Other Illnesses:

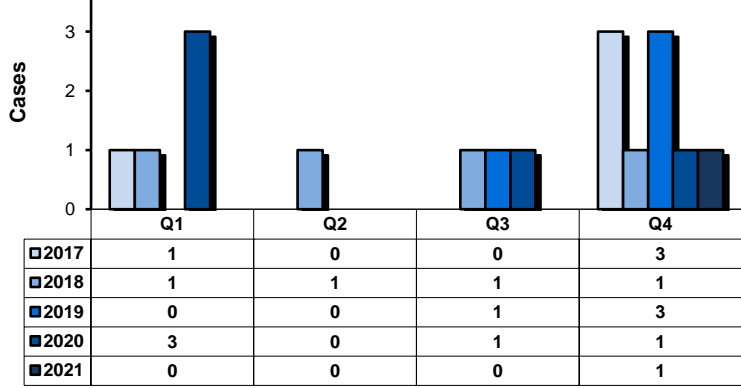
Drug Resistant *Streptococcus pneumoniae* Cases in Ottawa County Previous 5 Years



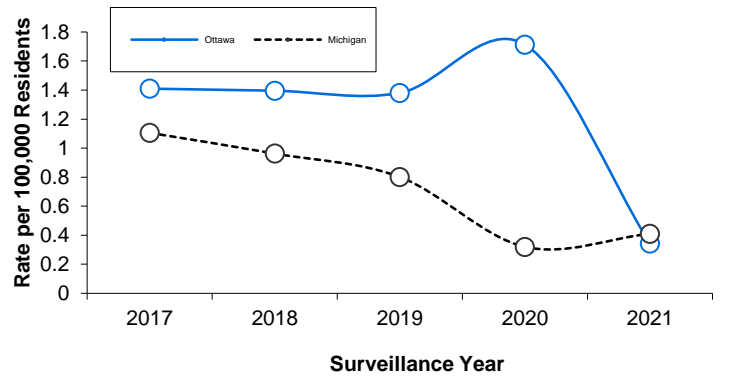
Drug Resistant *Streptococcus pneumoniae* Cases in Ottawa County by Month Previous 5 Years



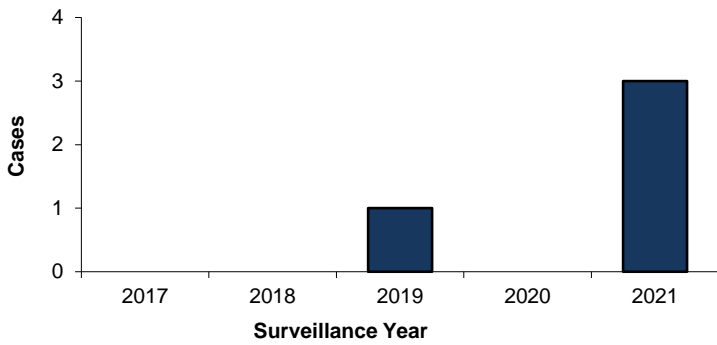
Drug Resistant *Streptococcus pneumoniae* Cases in Ottawa County by Quarter Previous 5 Years



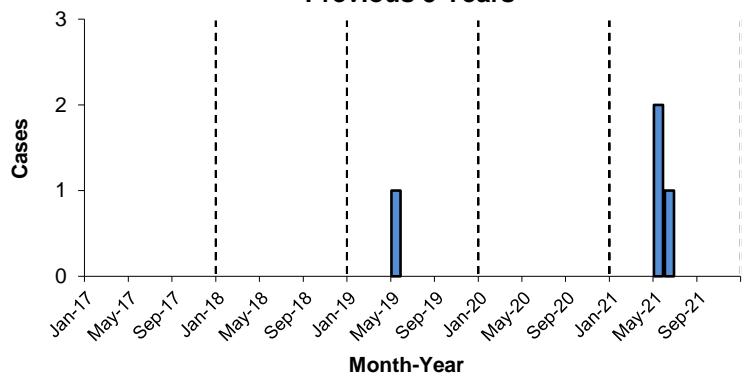
Drug Resistant *Streptococcus pneumoniae* Cases per 100,000



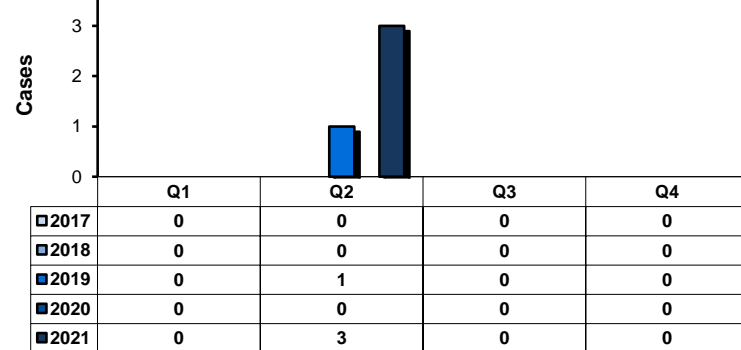
Animal Rabies Cases in Ottawa County Previous 5 Years



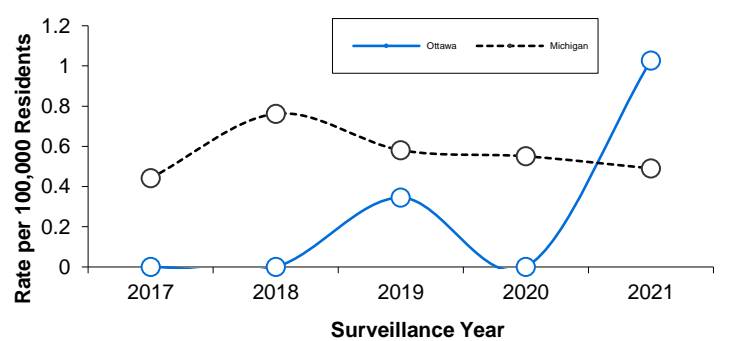
Animal Rabies Cases in Ottawa County by Month Previous 5 Years



Animal Rabies Cases in Ottawa County by Quarter Previous 5 Years

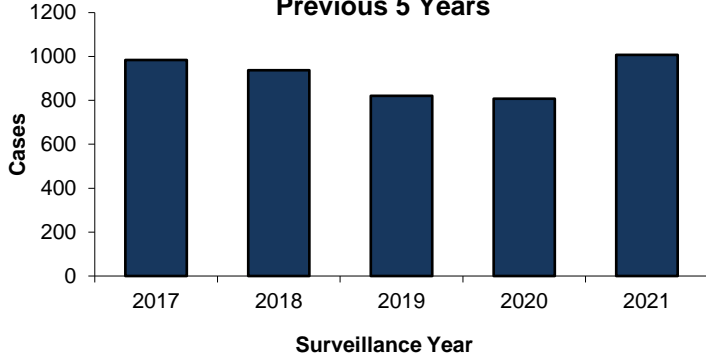


Animal Rabies Cases per 100,000

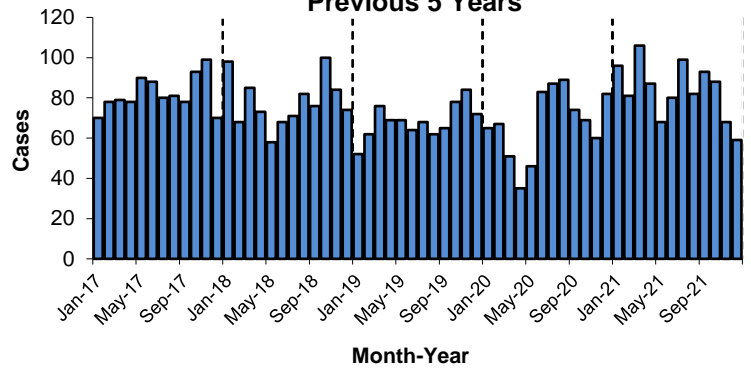


Sexually Transmitted Diseases:

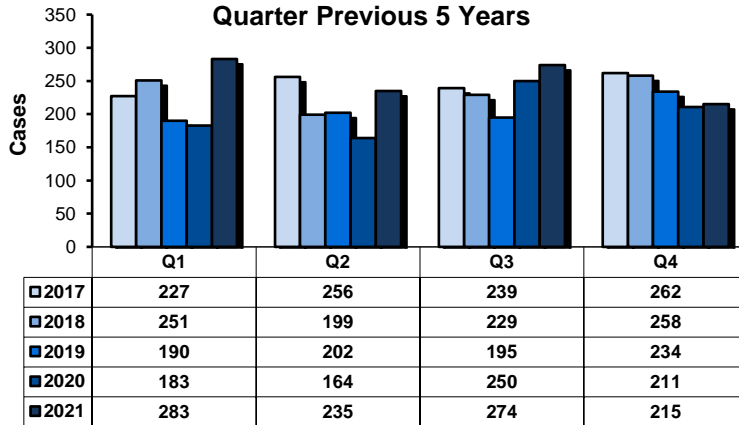
Chlamydia Cases in Ottawa County Previous 5 Years



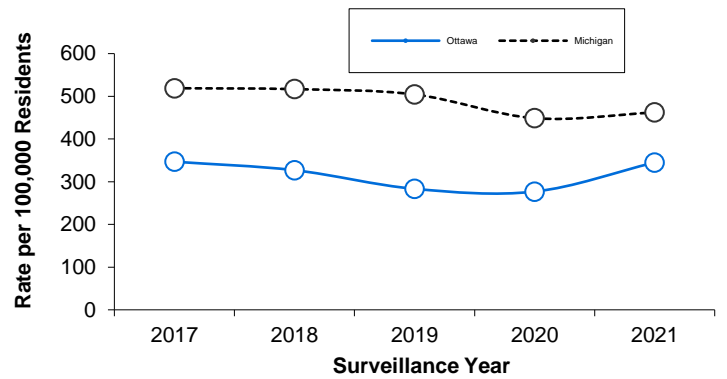
Chlamydia Cases in Ottawa County by Month Previous 5 Years



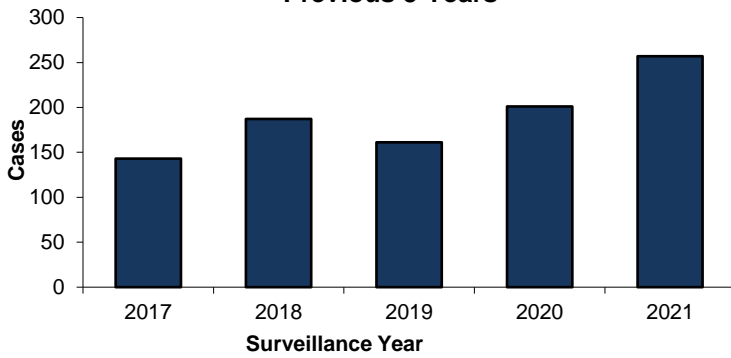
Chlamydia Cases in Ottawa County by Quarter Previous 5 Years



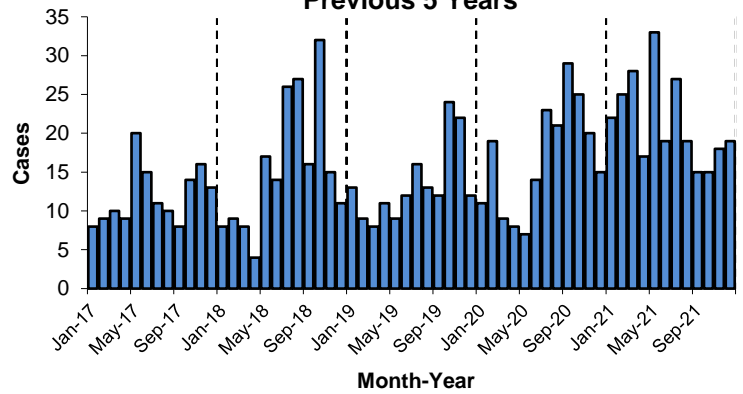
Chlamydia Cases per 100,000



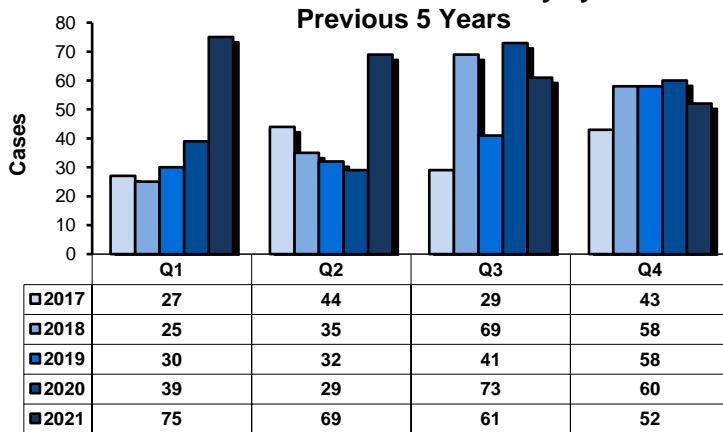
Gonorrhea Cases in Ottawa County Previous 5 Years



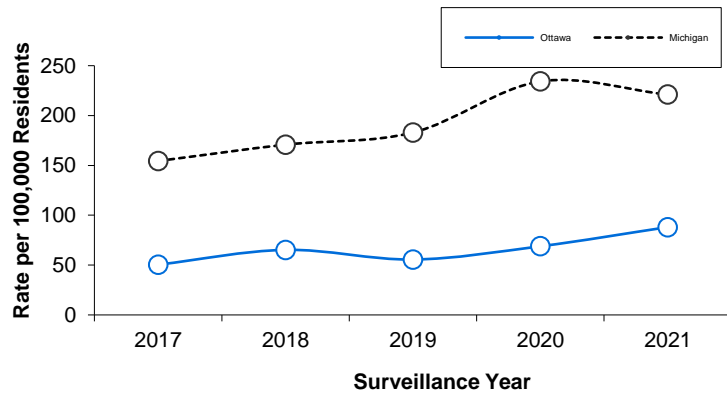
Gonorrhea Cases in Ottawa County by Month Previous 5 Years



Gonorrhea Cases in Ottawa County by Quarter Previous 5 Years

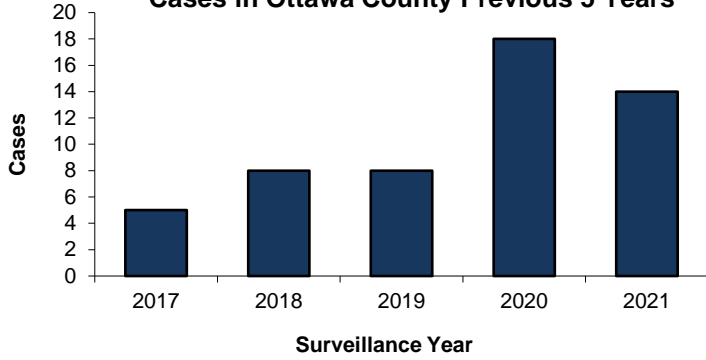


Gonorrhea Cases per 100,000

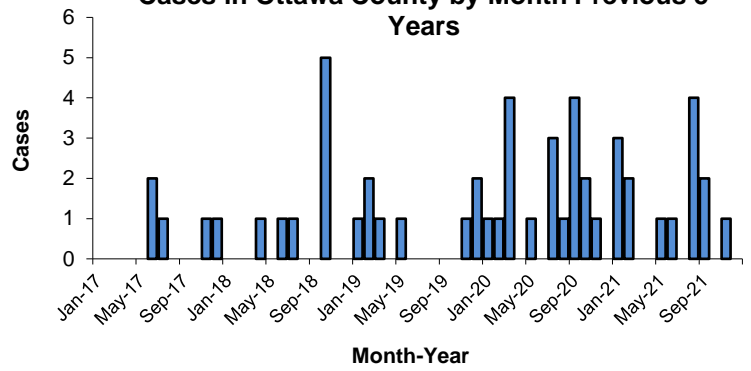


Sexually Transmitted Diseases:

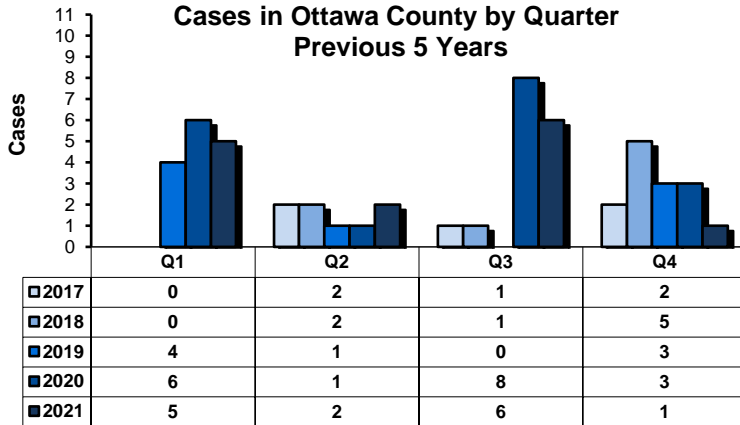
Primary, Secondary & Early Latent Syphilis Cases in Ottawa County Previous 5 Years



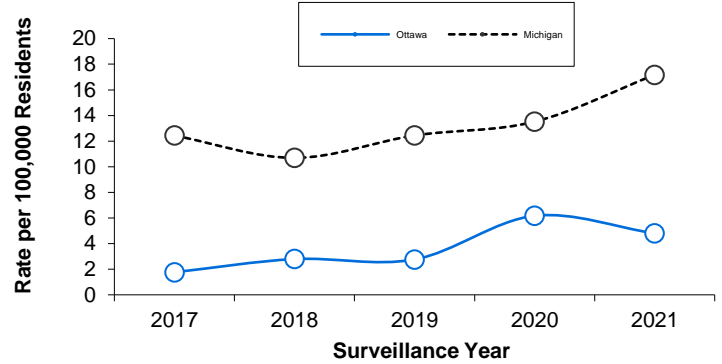
Primary, Secondary & Early Latent Syphilis Cases in Ottawa County by Month Previous 5 Years



Primary, Secondary & Early Latent Syphilis Cases in Ottawa County by Quarter Previous 5 Years

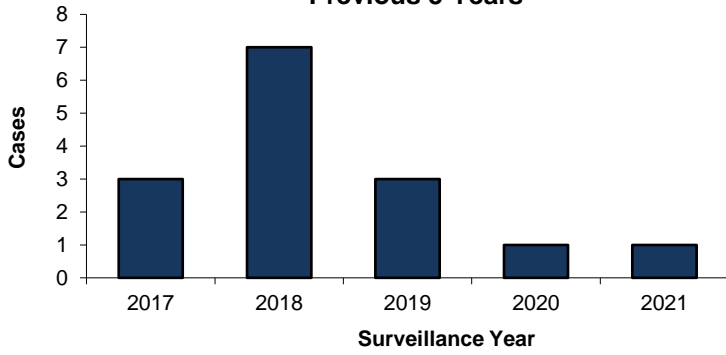


Primary, Secondary & Early Latent Syphilis Cases per 100,000

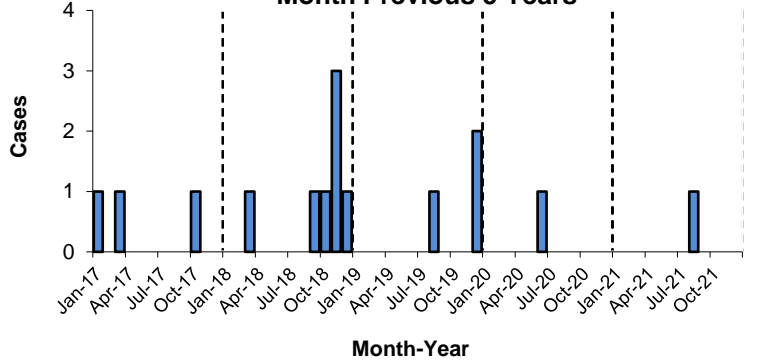


Tuberculosis:

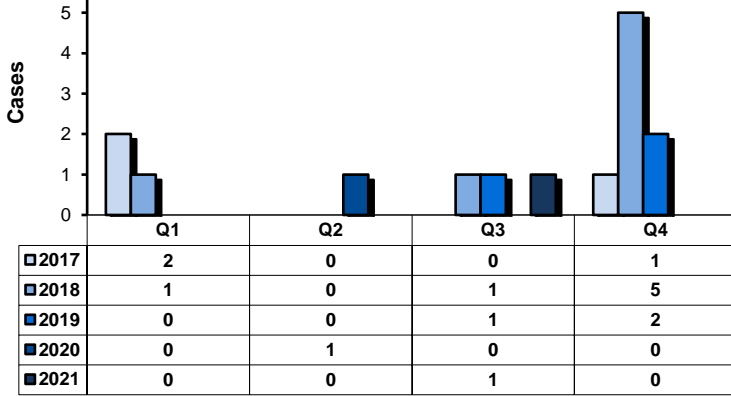
Tuberculosis Disease Cases in Ottawa County Previous 5 Years



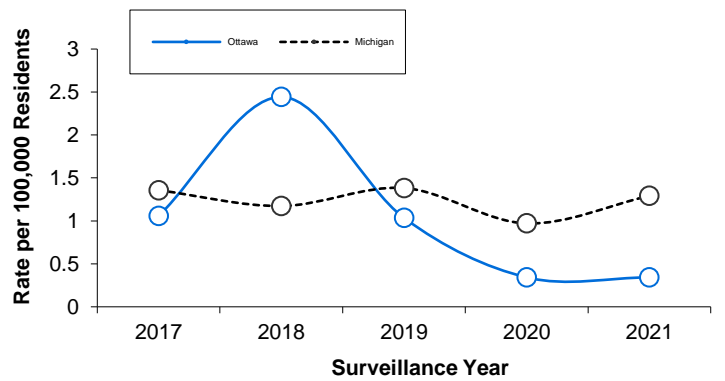
Tuberculosis Disease Cases in Ottawa County by Month Previous 5 Years



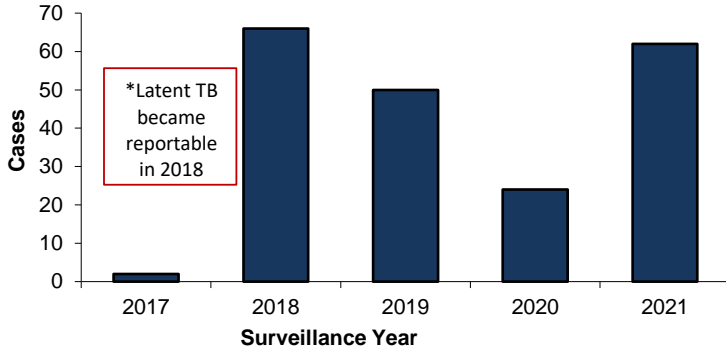
Tuberculosis Disease Cases in Ottawa County by Quarter Previous 5 Years



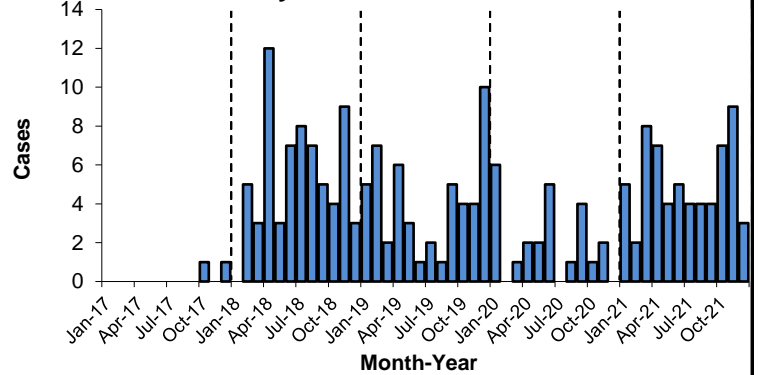
Tuberculosis Disease Cases per 100,000



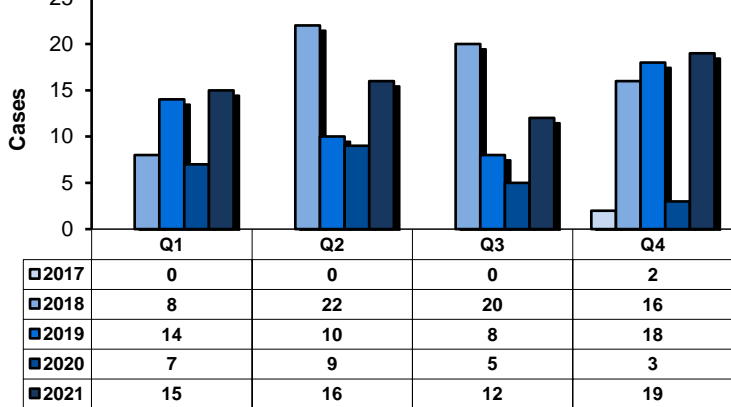
Latent Tuberculosis Cases in Ottawa County Previous 5 Years*



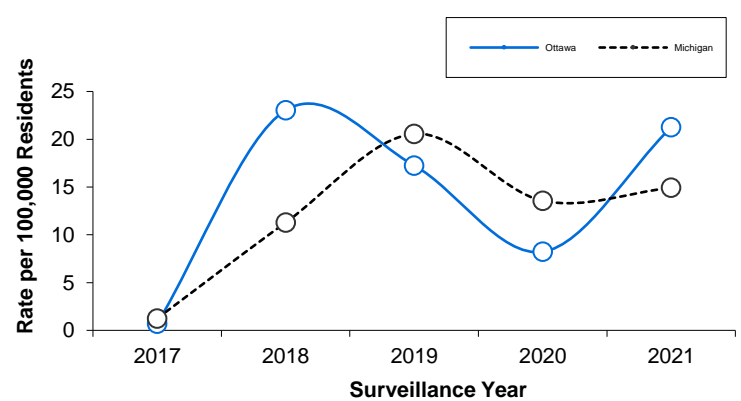
Latent Tuberculosis Cases in Ottawa County by Month Previous 5 Years*



Latent Tuberculosis Cases in Ottawa County by Quarter Previous 5 Years*

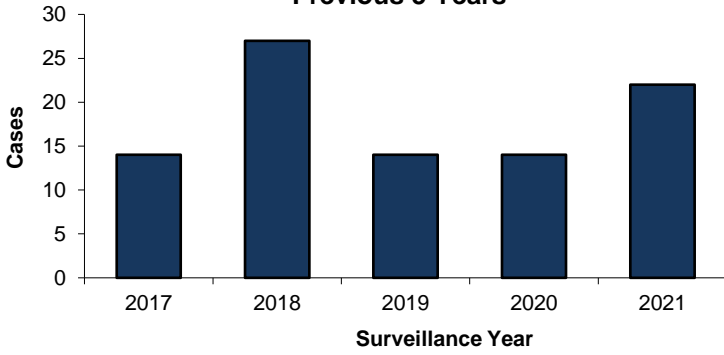


Latent Tuberculosis Cases per 100,000*

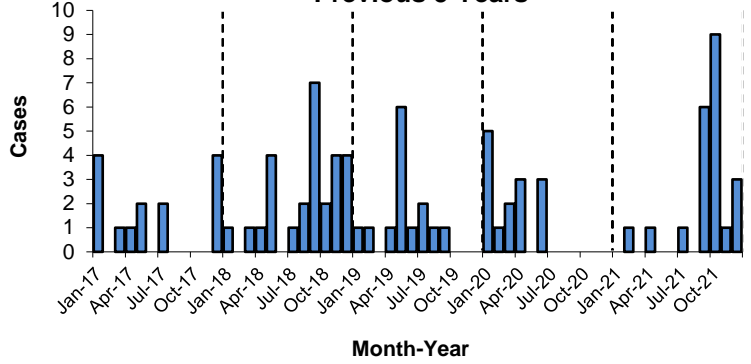


Vaccine Preventable Diseases:

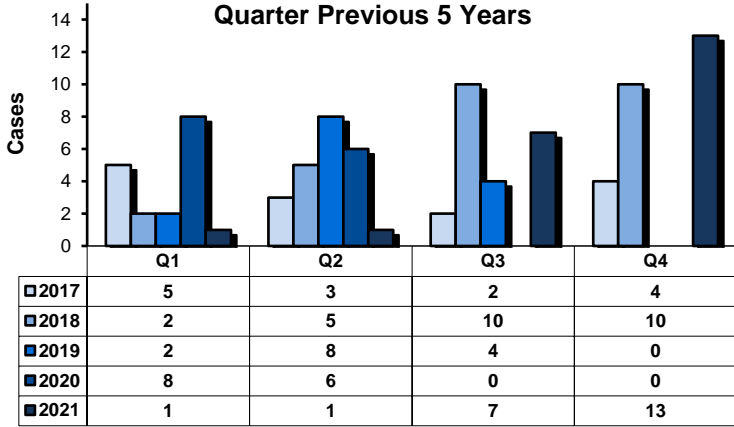
Chickenpox Cases in Ottawa County Previous 5 Years



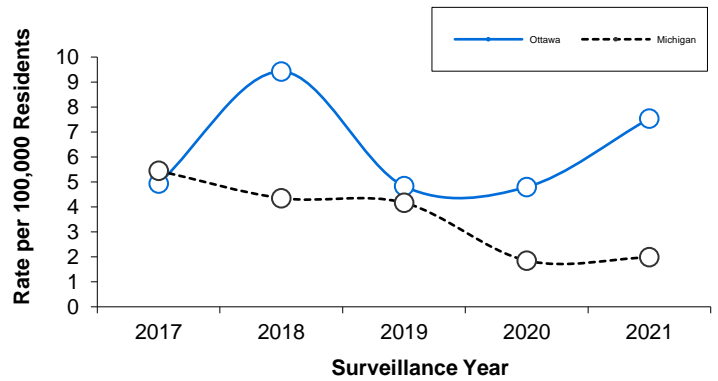
Chickenpox Cases in Ottawa County by Month Previous 5 Years



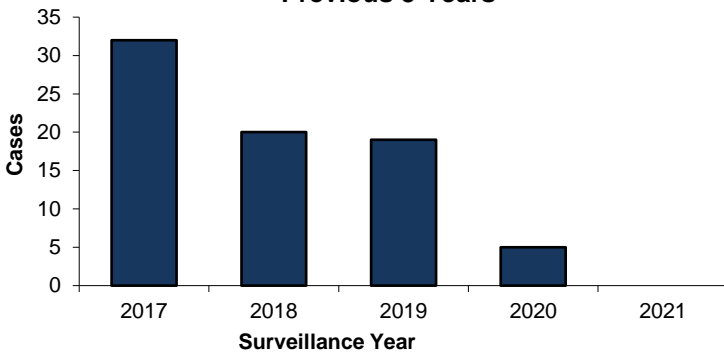
Chickenpox Cases in Ottawa County by Quarter Previous 5 Years



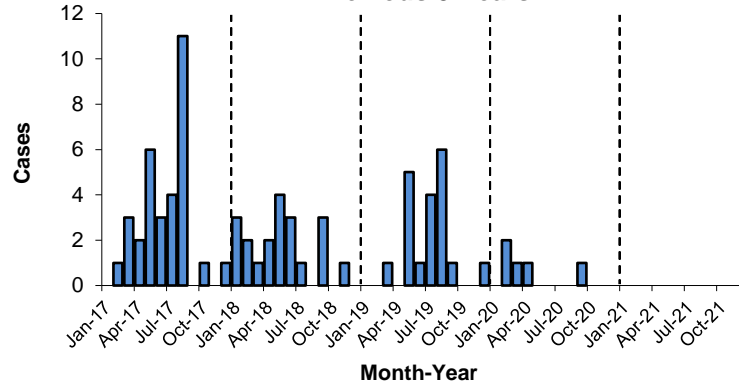
Chickenpox Cases per 100,000



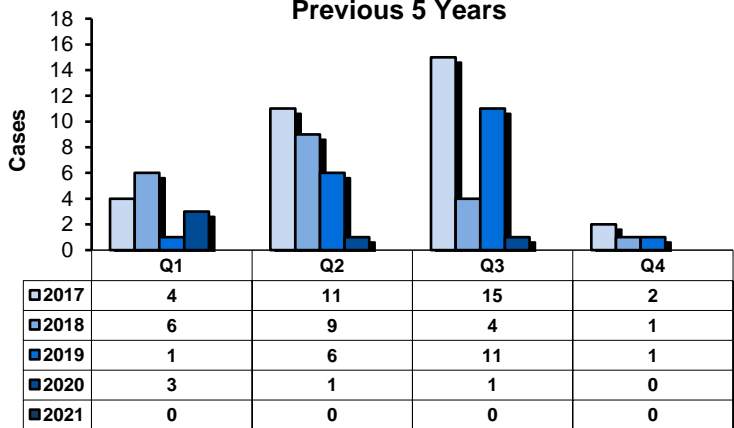
Pertussis Cases in Ottawa County Previous 5 Years



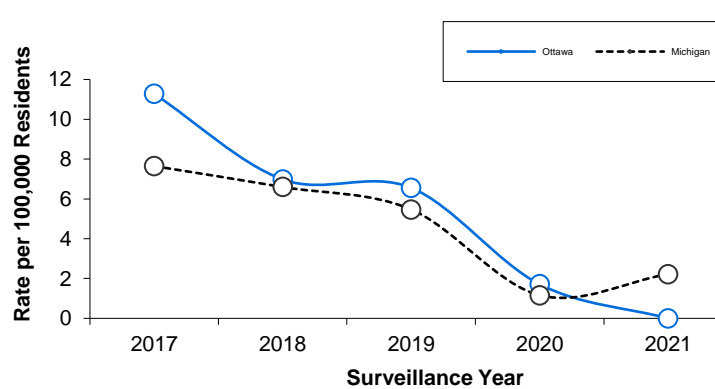
Pertussis Cases in Ottawa County by Month Previous 5 Years



Pertussis Cases in Ottawa County by Quarter Previous 5 Years

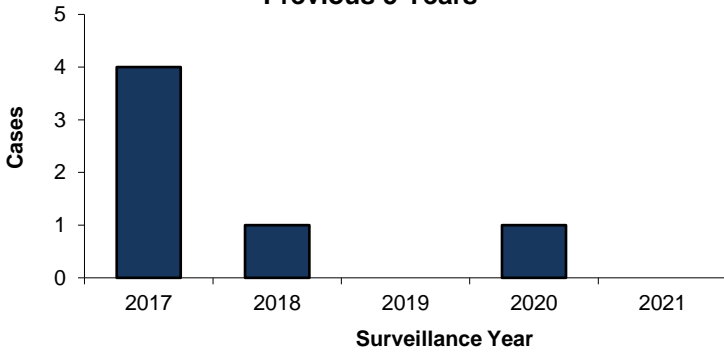


Pertussis Cases per 100,000

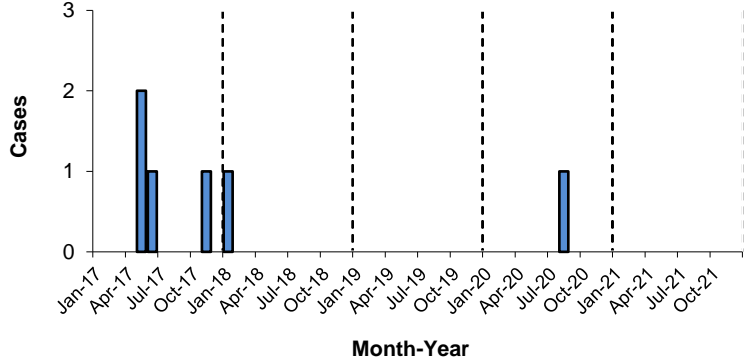


Vaccine Preventable Diseases:

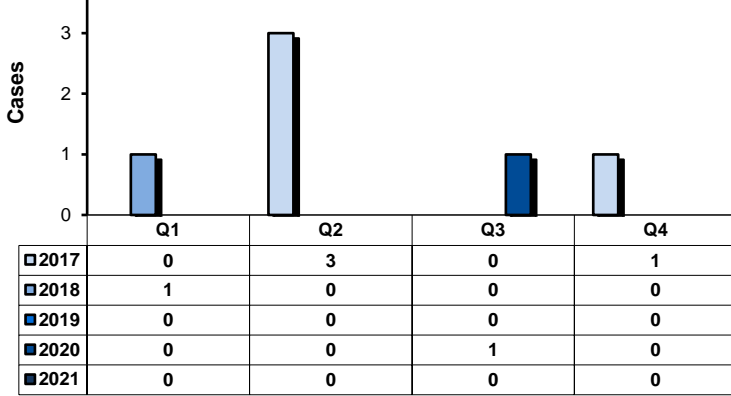
Mumps Cases in Ottawa County Previous 5 Years



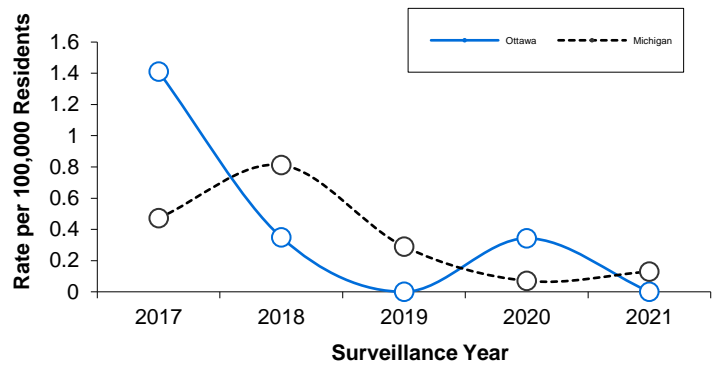
Mumps Cases in Ottawa County by Month Previous 5 Years



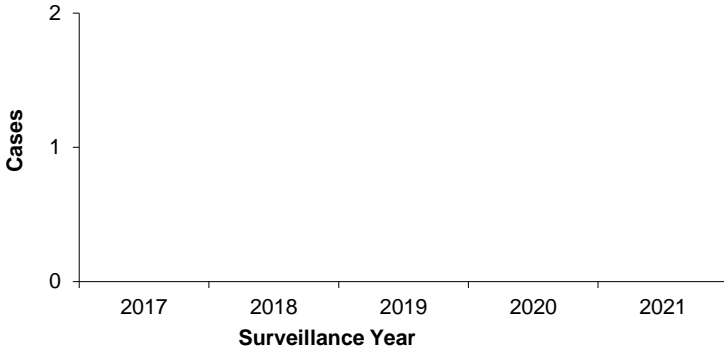
Mumps Cases in Ottawa County by Quarter Previous 5 Years



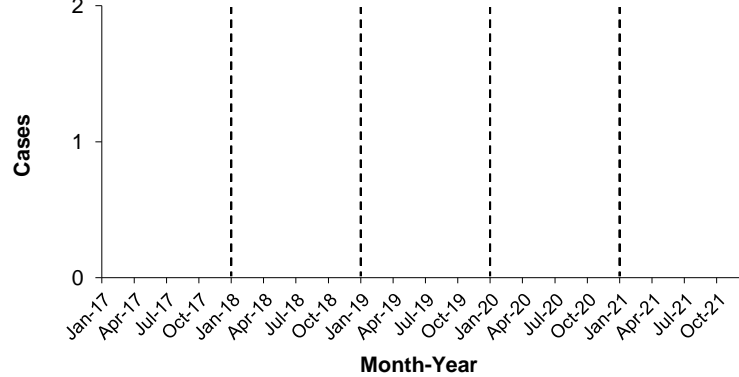
Mumps Cases per 100,000



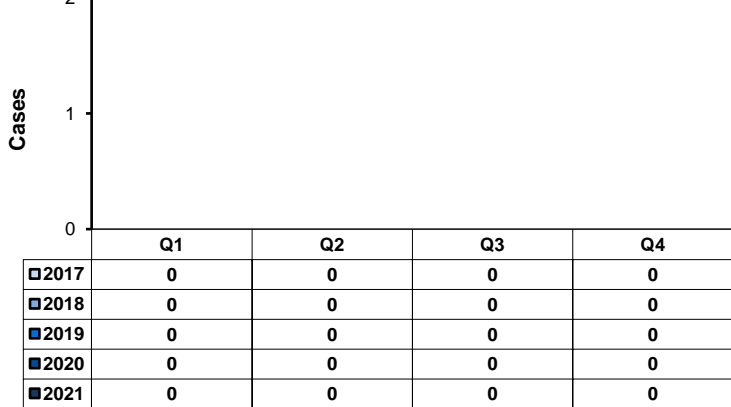
Measles Cases in Ottawa County Previous 5 Years



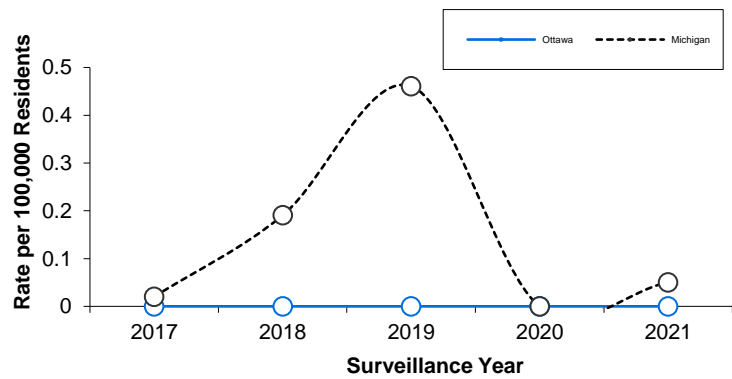
Measles Cases in Ottawa County by Month Previous 5 Years



Measles Cases in Ottawa County by Quarter Previous 5 Years

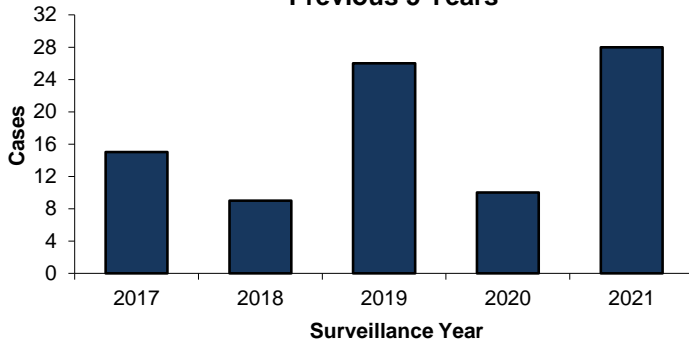


Measles Cases per 100,000

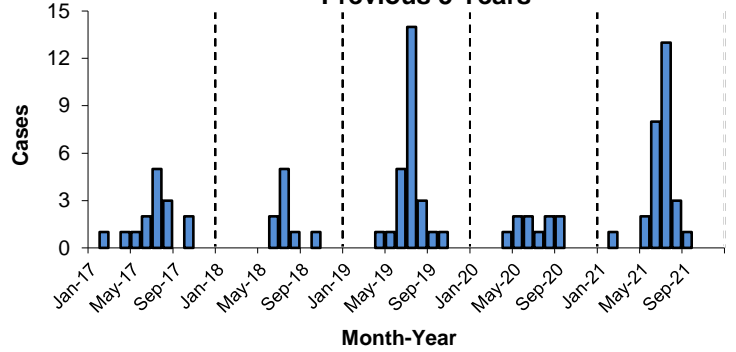


Vectorborne Diseases:

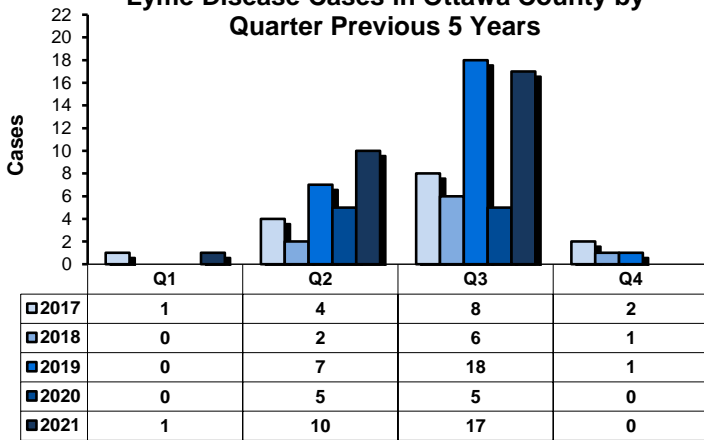
Lyme Disease Cases in Ottawa County Previous 5 Years



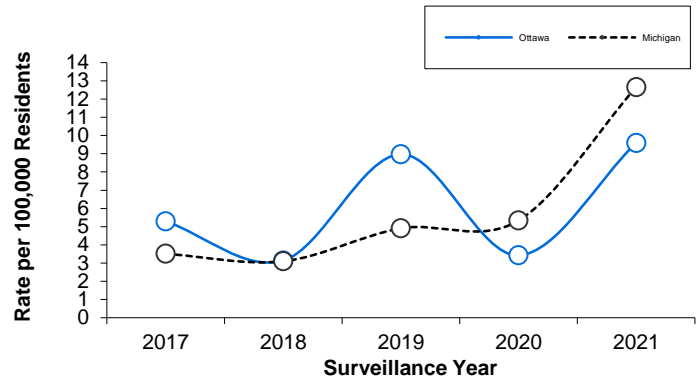
Lyme Disease Cases in Ottawa County by Month Previous 5 Years



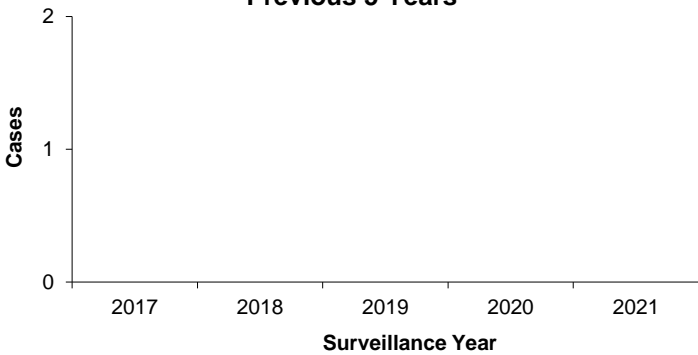
Lyme Disease Cases in Ottawa County by Quarter Previous 5 Years



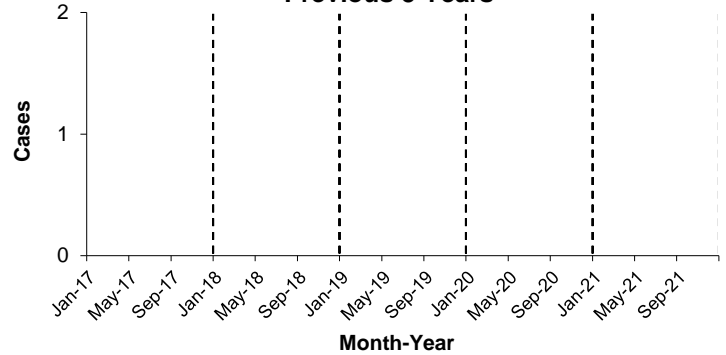
Lyme Disease Cases per 100,000



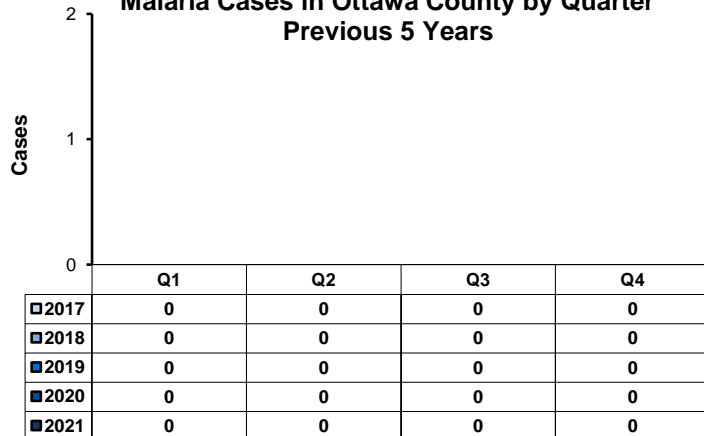
Malaria Cases in Ottawa County Previous 5 Years



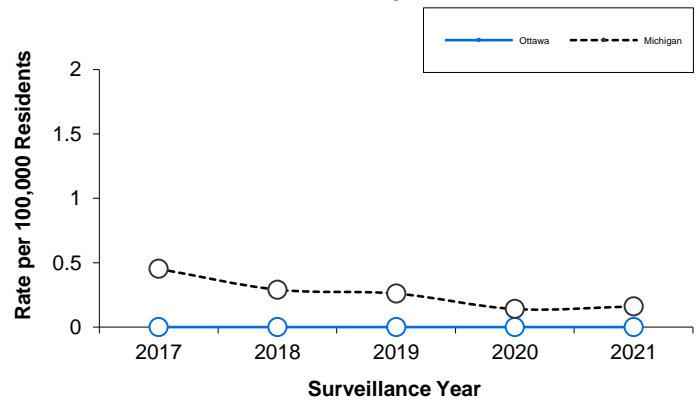
Malaria Cases in Ottawa County by Month Previous 5 Years



Malaria Cases in Ottawa County by Quarter Previous 5 Years

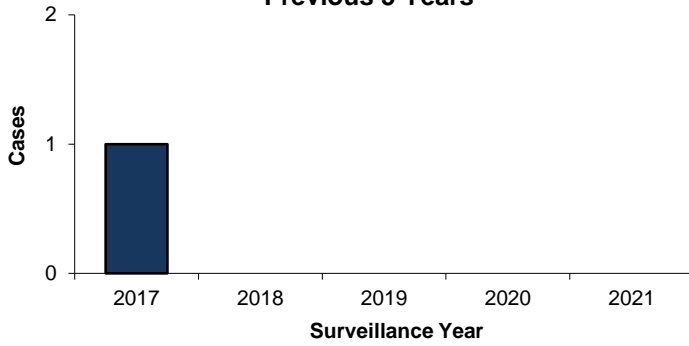


Malaria Cases per 100,000

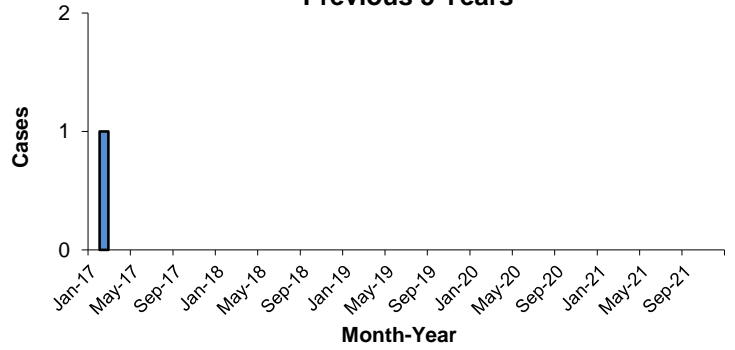


Vectorborne Diseases:

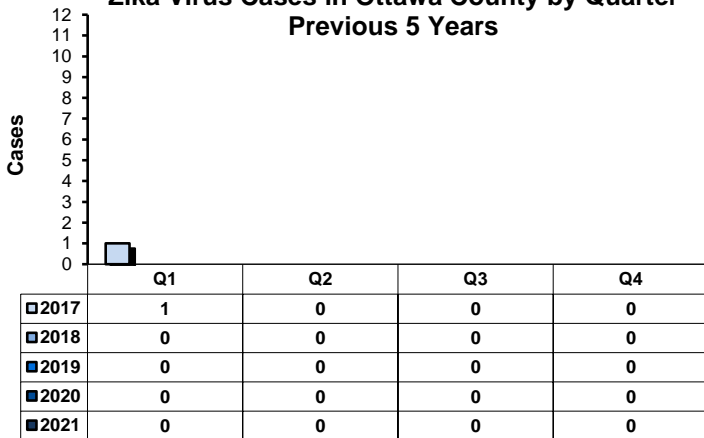
Zika Virus Cases in Ottawa County Previous 5 Years



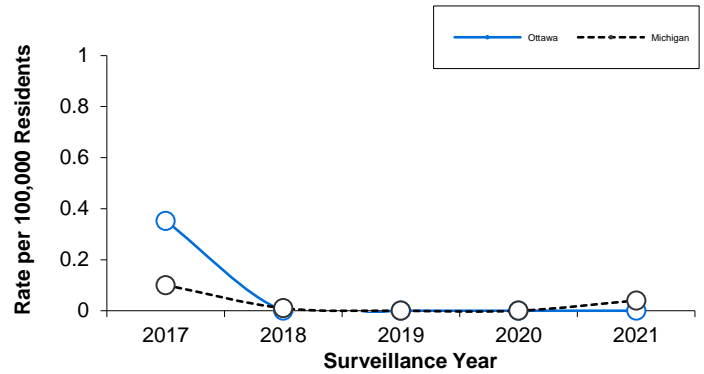
Zika Virus Cases in Ottawa County by Month Previous 5 Years



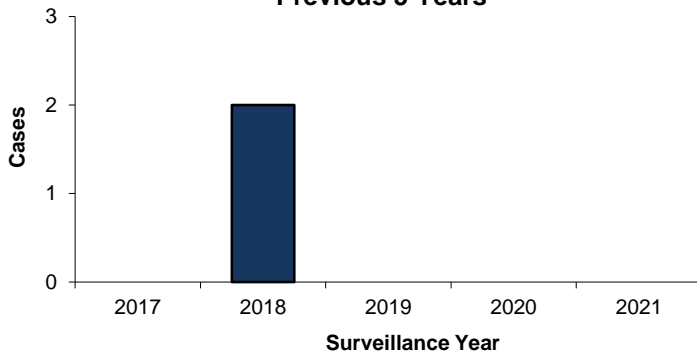
Zika Virus Cases in Ottawa County by Quarter Previous 5 Years



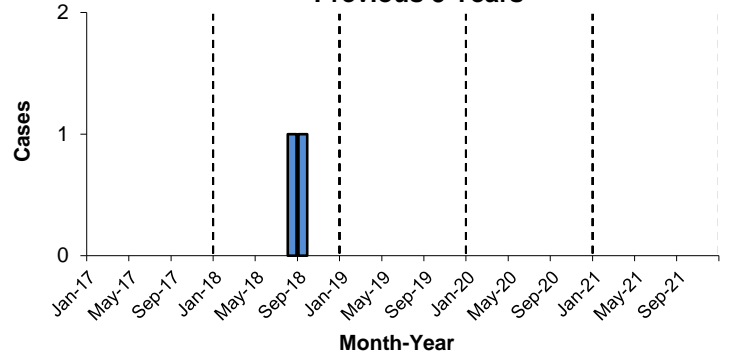
Zika Virus Cases per 100,000



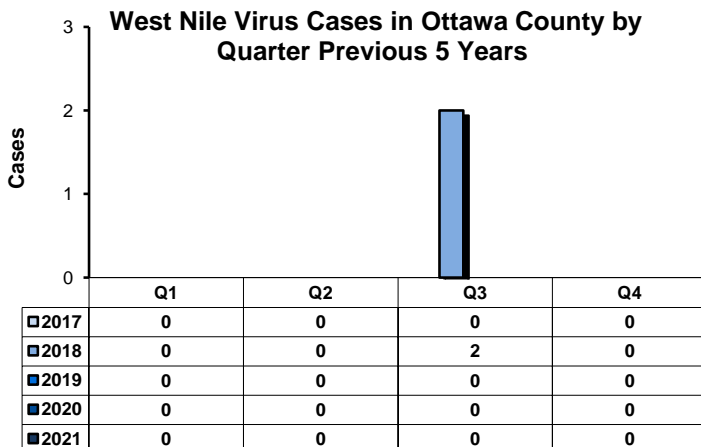
West Nile Virus Cases in Ottawa County Previous 5 Years



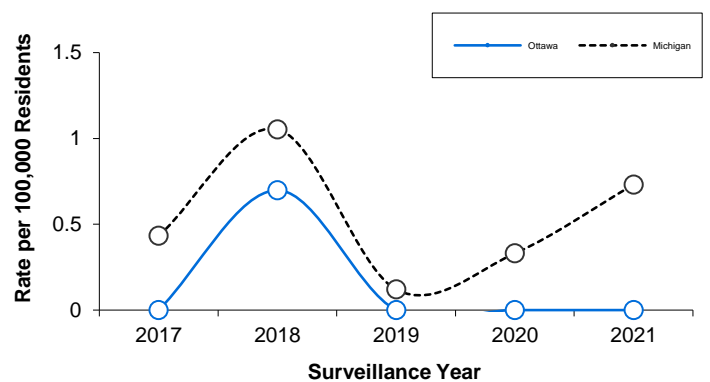
West Nile Virus Cases in Ottawa County by Month Previous 5 Years



West Nile Virus Cases in Ottawa County by Quarter Previous 5 Years

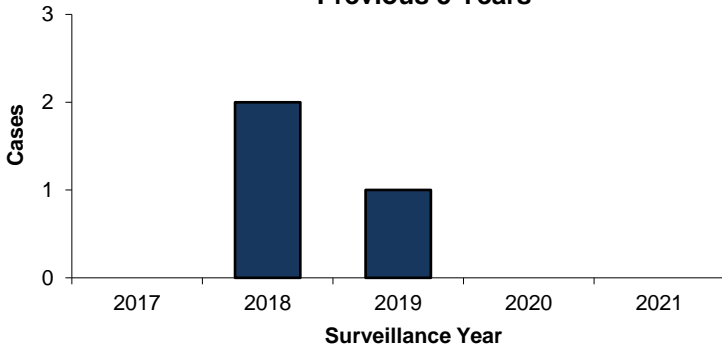


West Nile Virus Cases per 100,000

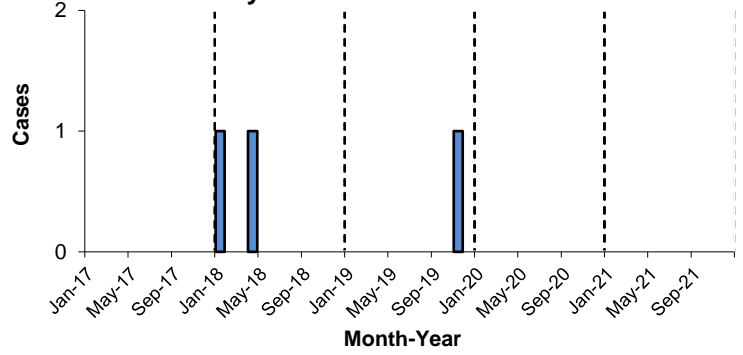


Viral Hepatitis:

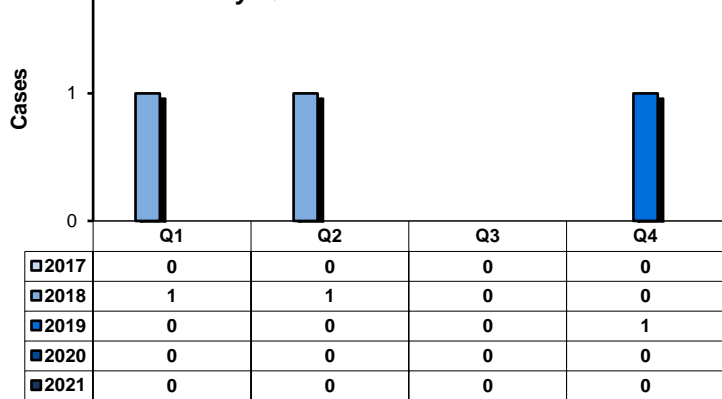
Acute Hepatitis B Cases in Ottawa County Previous 5 Years



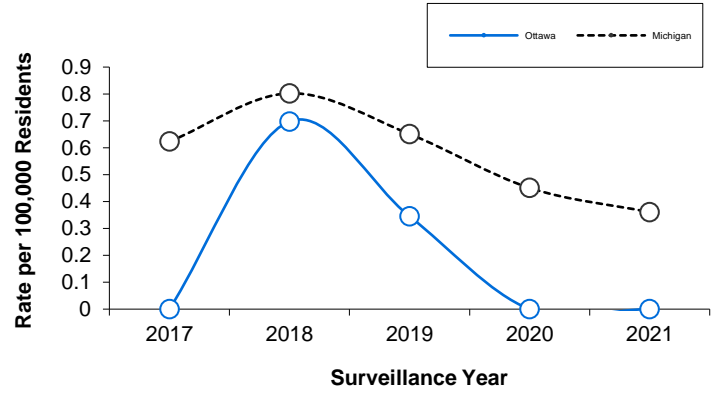
Acute Hepatitis B Cases in Ottawa County by Month Previous 5 Years



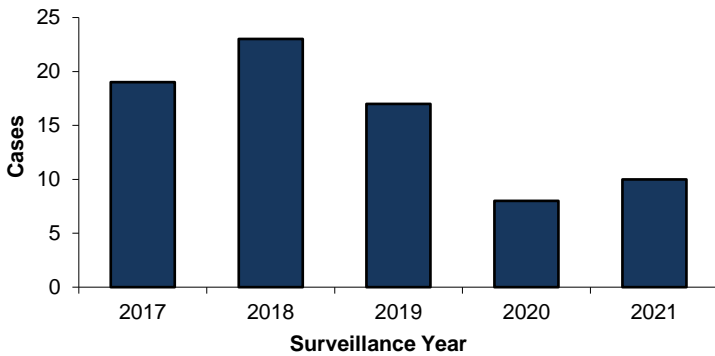
Acute Hepatitis B Cases in Ottawa County by Quarter Previous 5 Years



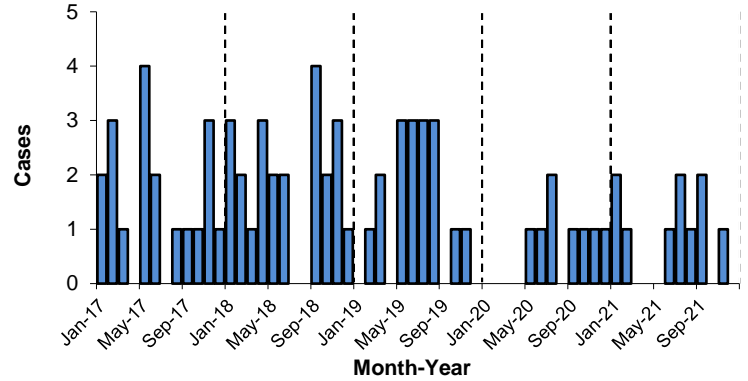
Acute Hepatitis B Cases per 100,000



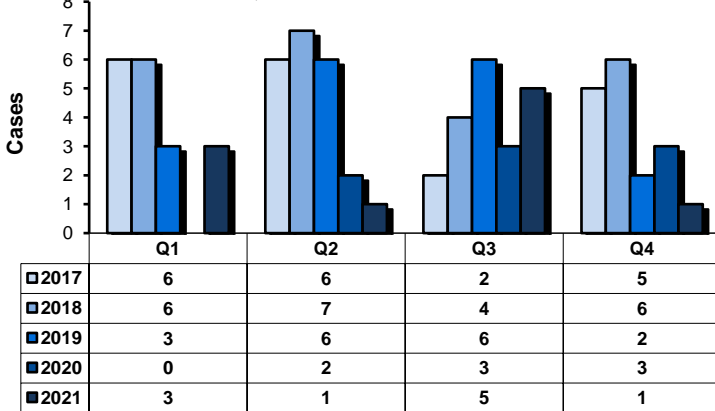
Chronic Hepatitis B Cases in Ottawa County Previous 5 Years



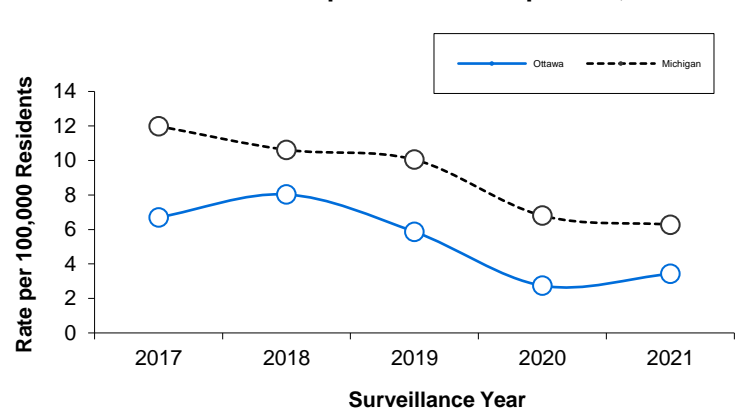
Chronic Hepatitis B Cases in Ottawa County by Month Previous 5 Years



Chronic Hepatitis B Cases in Ottawa County by Quarter Previous 5 Years

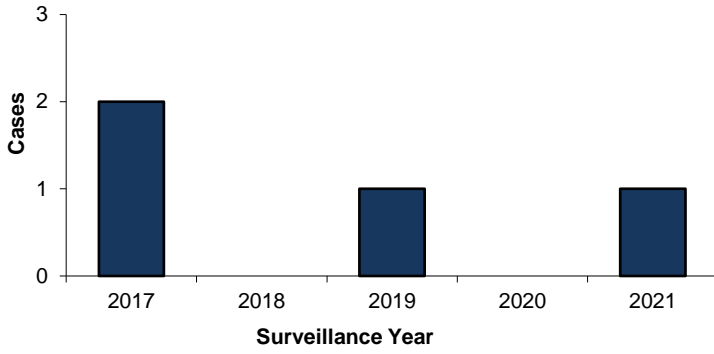


Chronic Hepatitis B Cases per 100,000

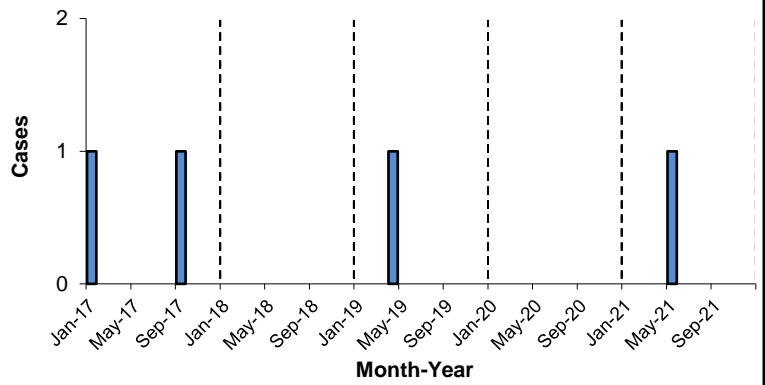


Viral Hepatitis:

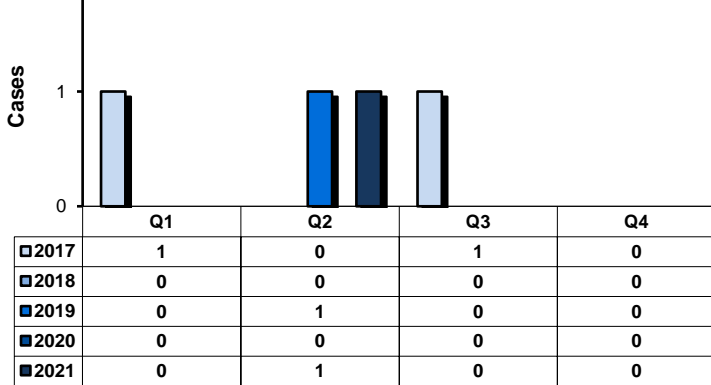
Hepatitis A Cases in Ottawa County Previous 5 Years



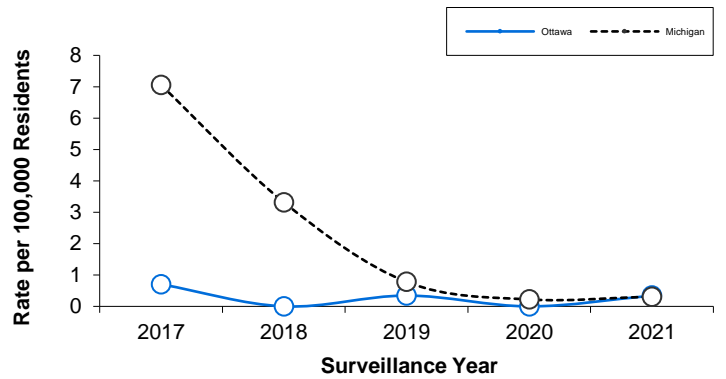
Hepatitis A Cases in Ottawa County by Month Previous 5 Years



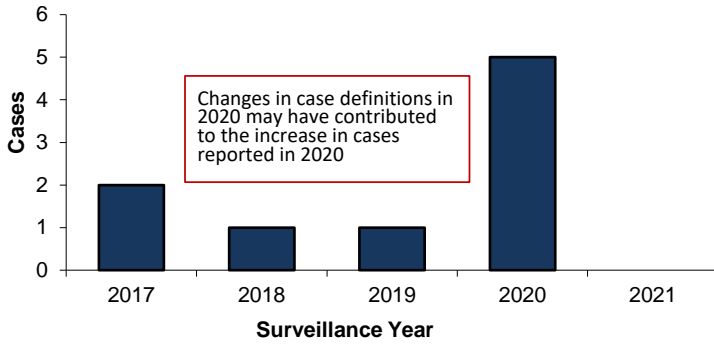
Hepatitis A Cases in Ottawa County by Quarter Previous 5 Years



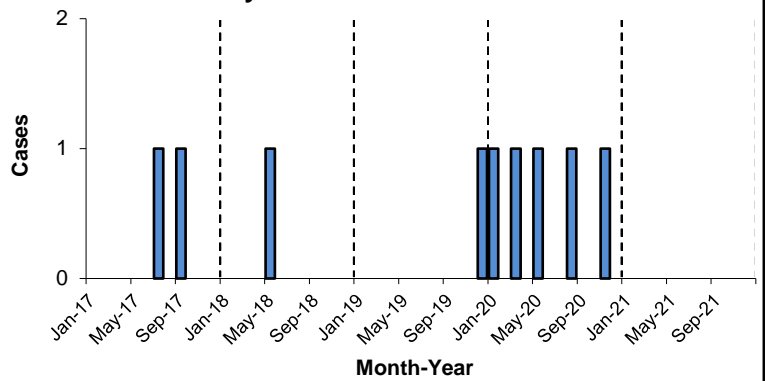
Hepatitis A Cases per 100,000



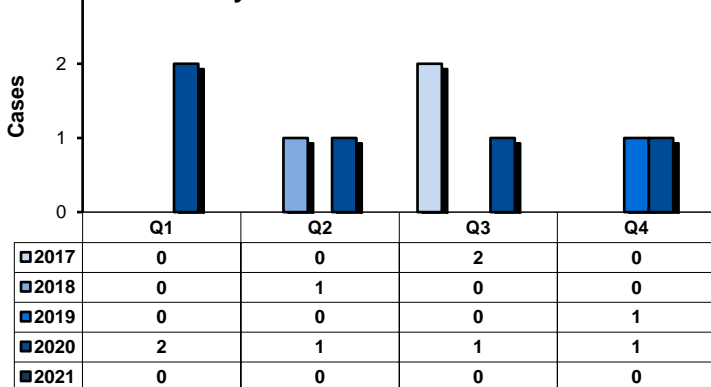
Acute Hepatitis C Cases in Ottawa County Previous 5 Years



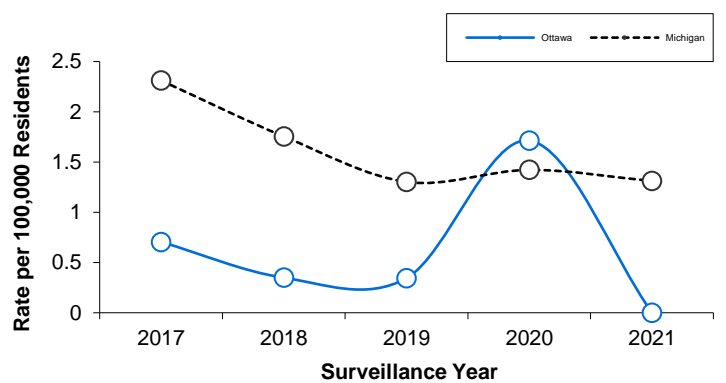
Acute Hepatitis C Cases in Ottawa County by Month Previous 5 Years



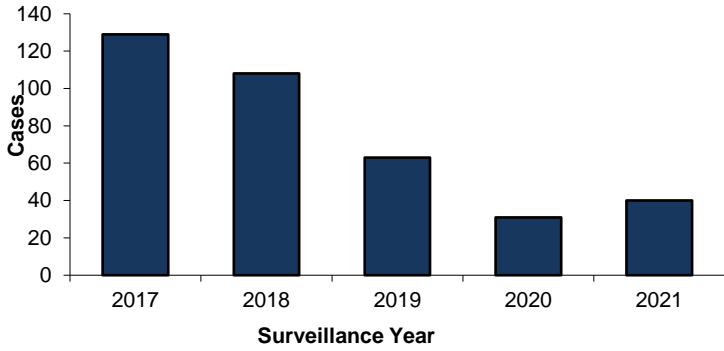
Acute Hepatitis C Cases in Ottawa County by Quarter Previous 5 Years



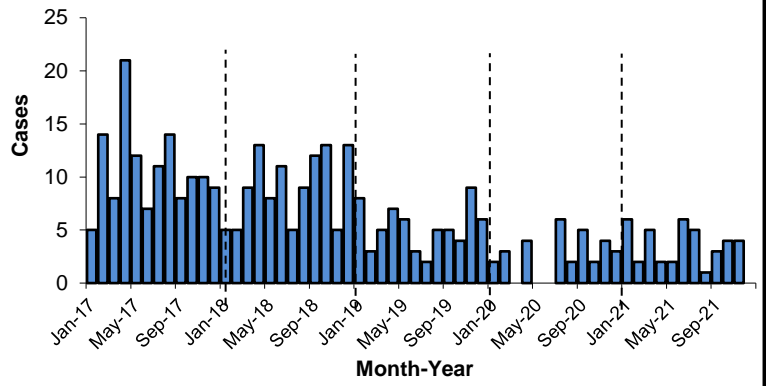
Acute Hepatitis C Cases per 100,000



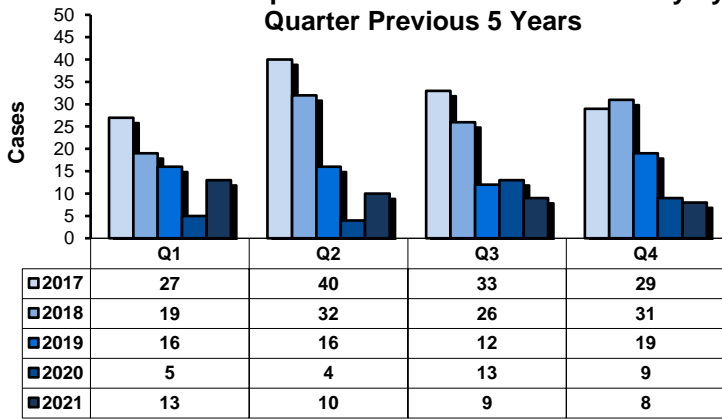
Chronic Hepatitis C Cases in Ottawa County Previous 5 Years



Chronic Hepatitis C Cases in Ottawa County by Month Previous 5 Years



Chronic Hepatitis C Cases in Ottawa County by Quarter Previous 5 Years



Chronic Hepatitis C Cases per 100,000

