



**McHenry County Department of Health**  
**Notifiable Conditions Report**  
**2018**

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## INTRODUCTION

The McHenry County Department of Health (MCDH) Communicable Disease (CD) program collects monthly report data on all Illinois Reportable Diseases as defined by the Illinois Department of Public Health (IDPH). This report summarizes the incident cases of all IDPH notifiable conditions during 2018. The frequency of incident cases are reported for each month. Incident cases include both probable and confirmed cases. Summary statistics for each notifiable condition are reported and include: annual year-to-date total and annual year-to-date rate. The definition (and calculation) of these summary statistics can be found below. Reportable conditions are separated by disease category: arboviral infections, gastrointestinal illnesses, sexually transmitted infections, tick borne diseases, vaccine preventable diseases, and other diseases.

## DEFINITION OF TERMS

### *Incident Case*

Incident cases are all newly diagnosed cases in a given timeframe. The frequency of incident cases for each month for the current year are presented in the tables below.

### *Annual Year-to-Date Total*

The annual year-to-date total (**YTD Total**) represents the frequency of new cases for the current year as of this point in time. It is calculated for each condition as the sum of the frequency of incident cases for all months that have elapsed for the current year. The annual year-to-date total for each disease category are also reported.

### *Annual Year-to-Date Rate*

The annual year-to-date rate (**YTD Rate**) is reported for each condition (and disease category) as the annual year-to-date rate of disease per 100,000 population. It can be interpreted as the number of incident cases per 100,000 residents of McHenry County. It is calculated as the annual year-to-date total divided by the current population of McHenry County (based on the US Census Bureau, 2013-2017 ACS 5-year Estimates for McHenry County: 308,043 people) multiplied by 100,000; this is represented mathematically as:

$$\text{YTD Rate} = \frac{\text{YTD Total}}{308,043} * 100,000$$

**ARBOVIRAL INFECTIONS**

Two arboviral infections were reported in 2018. The annual year-to-date rate of all arboviral infections was 0.6 cases per 100,000 residents of McHenry County. Table 1 summarizes the frequency of incident cases of all arboviral infections for 2018.

**Table 1. Arboviral Infections**

Condition	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	YTD Total	YTD Rate
California Encephalitis	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
Chikungunya Fever	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
Dengue Fever	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
St. Louis Encephalitis	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
West Nile: Neuroinvasive	0	0	0	0	0	0	1	0	0	0	0	0	1	0.3
West Nile: Non-neuroinvasive	0	0	0	0	0	0	0	1	0	0	0	0	1	0.3
Zika: Congenital	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
Zika: Non-congenital	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>0.6</b>

**GASTROINTESTINAL ILLNESSES**

One hundred thirty-eight gastrointestinal illnesses were reported in 2018. The annual year-to-date rate of all gastrointestinal illnesses was 44.8 cases per 100,000 residents of McHenry County. Table 2 summarizes the frequency of incident cases of all gastrointestinal illnesses for 2018.

**Table 2. Gastrointestinal Illnesses**

Condition	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	YTD Total	YTD Rate
Campylobacteriosis	2	0	8	6	6	9	9	3	3	3	4	6	59	19.2
Cholera*	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
<i>Escherichia coli</i> Infections	4	5	0	3	0	0	0	2	1	3	1	1	20	6.5
<i>S. Paratyphi</i>	0	0	1	0	0	0	0	0	0	0	0	0	1	0.3
Salmonellosis	2	1	7	11	5	3	7	4	5	0	2	2	49	15.9
Shigellosis	1	0	0	1	0	0	1	2	0	0	0	1	6	1.9
Vibriosis**	0	0	0	0	0	0	1	0	0	0	0	0	1	0.3
Yersiniosis	0	0	0	1	0	0	1	0	0	0	0	0	2	0.6
<b>Total</b>	<b>9</b>	<b>6</b>	<b>16</b>	<b>22</b>	<b>11</b>	<b>12</b>	<b>19</b>	<b>11</b>	<b>9</b>	<b>6</b>	<b>7</b>	<b>10</b>	<b>138</b>	<b>44.8</b>

\*Toxigenic *Vibrio cholerae* O1 or O139

\*\*Other than toxigenic *Vibrio cholerae* O1 or O139

**SEXUALLY TRANSMITTED INFECTIONS (STIs)**

Eight hundred thirty-five sexually transmitted infections were reported in 2018. The annual year-to-date rate of all sexually transmitted infections was 271.1 cases per 100,000 residents of McHenry County. Table 3 summarizes the frequency of incident cases of all sexually transmitted infections for 2018 (AIDS/HIV is also a reportable condition but is excluded from the table to protect patient privacy in line with guidelines from the Office of Health Protection).

**Table 3. Sexually Transmitted Infections (STIs)**

Condition	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	YTD Total	YTD Rate
Chancroid	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
Chlamydia	82	49	57	48	67	72	57	77	54	64	51	52	730	237.0
Gonorrhea	9	4	4	8	2	7	13	9	9	9	5	9	88	28.6
Syphilis	2	1	2	0	0	2	1	5	2	0	1	1	17	5.5
<b>Total</b>	<b>93</b>	<b>54</b>	<b>63</b>	<b>56</b>	<b>69</b>	<b>81</b>	<b>71</b>	<b>91</b>	<b>65</b>	<b>73</b>	<b>57</b>	<b>62</b>	<b>835</b>	<b>271.1</b>

**TICK BORNE DISEASES**

Thirty-four tick borne diseases were reported in 2018. The annual year-to-date rate of all tick borne diseases was 11.0 cases per 100,000 residents of McHenry County. Table 4 summarizes the frequency of incident cases of all tick borne diseases for 2018.

**Table 4. Tick Borne Diseases**

Condition	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	YTD Total	YTD Rate
Anaplasmosis	0	0	0	0	0	1	0	0	0	0	0	0	1	0.3
Babesiosis	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
Ehrlichiosis	0	0	0	0	0	1	0	0	0	0	0	0	1	0.3
Lyme Disease	0	1	0	0	2	11	7	2	4	2	0	0	29	9.4
Spotted Fever Rickettsioses	0	0	0	0	0	0	1	0	0	0	0	0	1	0.3
Typhus Murine	0	0	0	0	0	1	0	1	0	0	0	0	2	0.6
<b>Total</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>14</b>	<b>8</b>	<b>3</b>	<b>4</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>34</b>	<b>11.0</b>

**VACCINE PREVENTABLE DISEASES**

Ninety-seven vaccine preventable diseases were reported in 2018. The annual year-to-date rate of all vaccine preventable diseases was 31.5 cases per 100,000 residents of McHenry County. Table 5 summarizes the frequency of incident cases of all vaccine preventable diseases for 2018.

**Table 5. Vaccine Preventable Diseases**

Condition	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	YTD Total	YTD Rate
Chickenpox	4	3	1	2	2	1	1	2	3	0	2	0	21	6.8
Diphtheria	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
Haemophilus influenzae*	0	1	0	0	2	1	0	1	1	1	1	0	8	2.6
Hepatitis A	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
Hepatitis B	1	2	0	2	0	1	1	2	1	1	1	0	12	3.9
Influenza A, variant virus	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
Influenza with ICU admission	14	5	6	3	0	1	0	0	0	0	0	1	30	9.7
Influenza, death in ≤ 18 year olds	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
Measles	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
Mumps	2	1	0	0	0	0	0	0	0	2	1	0	6	1.9
Neisseria meningitidis**	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
Pertussis	6	4	3	0	1	1	0	0	0	3	0	2	20	6.5
Rubella	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
Smallpox	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
Tetanus	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
<b>Total</b>	<b>27</b>	<b>16</b>	<b>10</b>	<b>7</b>	<b>5</b>	<b>5</b>	<b>2</b>	<b>5</b>	<b>5</b>	<b>7</b>	<b>5</b>	<b>3</b>	<b>97</b>	<b>31.5</b>

\*Haemophilus influenzae, meningitis, & other invasive disease

\*\*Neisseria meningitidis, meningitis and invasive disease



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## OTHER DISEASES

One hundred ninety other diseases were reported in 2018. The annual year-to-date rate of all other diseases was 61.7 cases per 100,000 residents of McHenry County. Table 6 summarizes the frequency of incident cases of all other diseases for 2018 (only other diseases that have had a case reported from 2013 – 2018 are included in Table 6).

**Table 6. Other Diseases**

Condition	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	YTD Total	YTD Rate
Acute Flaccid Myelitis	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
Botulism: foodborne	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
Creutzfeldt-Jakob Disease	0	0	0	1	0	0	0	0	0	0	0	0	1	0.3
Cryptosporidiosis	3	2	0	1	0	2	2	4	2	1	0	0	17	5.5
Cyclosporiasis	0	0	0	0	2	5	11	0	0	0	0	0	18	5.8
Hemolytic Uremic Syndrome, Post-diarrheal	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
Hepatitis C	7	6	6	5	8	6	3	8	4	10	4	4	71	23.0
Histoplasmosis	0	0	0	1	0	0	0	1	0	0	0	0	2	0.6
Legionellosis	2	0	0	1	0	8	1	1	3	2	3	1	22	7.1
Listeriosis	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
Malaria	0	0	0	0	0	0	0	0	0	1	1	0	2	0.6
MRSA community cluster	0	0	1**	0	0	0	0	0	0	0	0	0	1	0.3
MRSA in infants under 61 days	1	0	0	1	0	0	0	1	1	0	0	0	4	1.3
Q Fever	0	0	0	0	0	0	0	1	0	0	0	0	1	0.3
Rabies, Human (Potential Exposure)	0	1	1	0	5	2	10	10	3	0	0	3	35	11.4
Streptococcal Infections, Group A, Invasive Disease	3	1	1	0	0	0	2	1	0	0	0	2	10	3.2
Streptococcus Pneumoniae, Invasive Disease*	0	0	0	0	0	0	0	0	0	1	0	0	1	0.3
Toxic Shock Syndrome (due to staph aureus)	1	0	0	1	1	0	0	0	0	0	0	0	3	1.0
Tuberculosis	0	0	0	1	0	0	0	0	0	1	0	0	2	0.6
<b>Total</b>	<b>17</b>	<b>10</b>	<b>8</b>	<b>12</b>	<b>16</b>	<b>23</b>	<b>29</b>	<b>27</b>	<b>13</b>	<b>16</b>	<b>8</b>	<b>10</b>	<b>190</b>	<b>61.7</b>

\*In children less than 5 years

\*\*Case related to a cluster outside McHenry County