

# Annual Incidence Summary Report

**Reporting period: January 1, 2010 to December 31, 2014**

## Purpose

The Saskatchewan Ministry of Health's Population Health Branch provides routine surveillance for the notifiable communicable diseases in the province.

Under the Saskatchewan *Public Health Act, 1994* and the accompanying Disease Control Regulations, the local medical health officers (MHOs) in the regional health authorities must report notifiable communicable diseases, as well as any communicable disease outbreaks to the Chief Medical Health Officer/Deputy Chief Medical Health Officer at the Saskatchewan Ministry of Health.

This annual report provides final data for notifiable communicable diseases that have been entered into the provincially mandated Integrated Public Health Information System (iPHIS) by the regional health authorities for the 2010-2014 calendar years. The data is aggregated at the provincial level.

As many notifiable diseases require public health actions, small numbers (i.e., less than 5) at the provincial level, are provided.

## Technical Notes

The data presented in this report represent the total number of confirmed cases reported per disease for the province for the 2010-2014 calendar years, as well as, the cumulative totals for 2000 to 2009 and 2010 to 2014.

The data source is the iPHIS database. Confirmed cases must meet the provincial surveillance case definition as described in the Saskatchewan Communicable Disease Manual. The diseases are grouped alphabetically by their main mode of transmission.

Duplicate cases have been identified to the extent possible and removed from the case numbers.

## Limitations

The counts presented in this summary are dependent on timely reporting by physicians and laboratories to the local MHO and timely entry of notifiable disease information into the iPHIS system by the health authorities.

Notifiable diseases may be undetected, therefore underreported, due to a number of factors including client's lack of contact with the health care system or inability of laboratory tests to identify the organism.

Surveillance case definitions are used to determine the case counts and ensure uniform reporting to allow comparability of surveillance data. The definitions are not intended to be used for clinical or laboratory diagnosis or management of cases.

An individual person may have been infected multiple times with a notifiable disease.

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**Source:**

iPHIS Database

Case numbers are based on confirmed cases reported during the calendar years 2010 to 2014, as well as, the cumulative totals for 2000 to 2009 and 2010 to 2014.

The episode date is assigned by the iPHIS application using a hierarchy of dates - date of onset, date of diagnosis, date of specimen collection [which is often synonymous with date of diagnosis], date of lab result report, date the iPHIS record was opened.

**Notes:**

Incidence numbers are subject to change as case details are reviewed.

<sup>1</sup>Increases in verotoxic E. coli counts may be partially due to the increasing inclusion of non-O157 E. coli strains since 2013.

<sup>2</sup>TB numbers represent infectious cases - new and relapsed.

<sup>3</sup>West Nile Neuroinvasive Disease (WNND) data available only from 2003 onwards.

## INCIDENCE OF COMMON NOTIFIABLE DISEASES FOR SASKATCHEWAN (2010-2014)

	2000 - 2009	Number of Cases Per Year					2010 - 2014
	(TOTAL)	2010	2011	2012	2013	2014	(TOTAL)
<b>Enteric, Food and Waterborne Diseases</b>							
Campylobacteriosis	2388	239	240	215	195	187	1076
Cryptosporidiosis	1164	22	18	38	105	48	231
Cyclosporiasis	3	3	0	0	2	0	5
Food poisoning (organism not identified)	15	3	0	2	0	0	5
Giardiasis	1506	146	134	120	110	140	650
Hepatitis A	64	6	14	14	2	12	48
Listeriosis	32	3	0	1	1	2	7
Salmonellosis	1507	191	170	148	174	184	867
Shigellosis	109	11	138	161	21	16	347
Verotoxigenic E. coli <sup>1</sup>	392	11	15	28	30	23	107
Yersinia enterocolitica	115	17	30	39	22	18	126
<b>TOTAL</b>	<b>7295</b>	<b>652</b>	<b>759</b>	<b>766</b>	<b>662</b>	<b>630</b>	<b>3469</b>
<b>Respiratory Route Diseases</b>							
Hantavirus pulmonary syndrome	14	1	3	0	3	4	11
Legionellosis	7	0	0	0	1	0	1
Meningococcal disease - invasive	52	3	7	3	3	3	19
Human parvovirus 19	1186	100	54	21	17	123	315
Pneumococcal disease - invasive	931	128	135	131	127	113	634
Streptococcal - group A, invasive (iGAS)	570	75	79	61	80	105	400
Tuberculosis (new and relapsed) <sup>2</sup>	989	82	82	90	88	86	428
<b>TOTAL</b>	<b>3749</b>	<b>389</b>	<b>360</b>	<b>306</b>	<b>319</b>	<b>434</b>	<b>1374</b>
<b>Diseases transmitted by Direct Contact</b>							
Creutzfeld-Jacob Disease (CJD), classic	7	0	3	1	0	3	7
Herpes - neonatal/congenital	0	0	0	0	0	0	0
Streptococcal, group B, newborn	64	4	1	4	8	5	22
<b>TOTAL</b>	<b>71</b>	<b>4</b>	<b>4</b>	<b>5</b>	<b>8</b>	<b>8</b>	<b>21</b>
<b>Routine Vaccination Prevented Diseases</b>							
Diphtheria	2	0	1	0	0	0	1
Haemophilus influenzae - type B	10	0	1	0	1	1	3
Haemophilus influenzae - all other types	126	18	15	17	18	19	87
Measles	1	0	6	2	1	16	25
Mumps	26	2	1	0	2	0	5
Pertussis	3210	234	48	34	19	47	382
Poliomyelitis / Acute flaccid paralysis	1	0	0	1	0	0	1
Rubella	8	0	0	1	0	0	1
Tetanus	1	0	0	0	0	0	0
<b>TOTAL</b>	<b>3385</b>	<b>254</b>	<b>72</b>	<b>55</b>	<b>41</b>	<b>83</b>	<b>422</b>
<b>Sexually Transmitted &amp; Bloodborne Pathogens</b>							
AIDS	104	27	26	36	24	34	147
HIV (Based on diagnosis year)	875	174	186	177	129	112	778
Chlamydia trachomatis - genital	39583	4964	5516	5631	5771	5811	27693
Gonococcal infections	7638	740	749	988	1215	1239	4931
Granuloma inguinale	0	0	0	0	0	0	0
Hepatitis B (Acute) (Based on reported year)	163	10	12	9	7	9	47
Hepatitis C (Based on reported year)	6565	564	674	691	631	613	3173
Syphilis - primary, secondary, early latent	77	37	27	8	16	29	117
Syphilis - neuro, symptomatic	2	0	0	0	1	0	1
Syphilis - early congenital	0	0	0	0	0	0	0
<b>TOTAL</b>	<b>55007</b>	<b>6516</b>	<b>7190</b>	<b>7540</b>	<b>7794</b>	<b>7847</b>	<b>36887</b>
<b>Vectorborne and other Zoonotic Diseases</b>							
Anthrax	1	0	0	0	0	0	0
Brucellosis	0	0	0	0	0	0	0
Encephalitis - vector borne	0	0	0	0	0	0	0
Lyme disease	1	0	1	0	1	0	2
Malaria	49	11	3	10	9	9	42
Plague	0	0	0	0	0	0	0
Rabies	0	0	0	0	0	0	0
Rickettsial infections	4	0	0	4	1	6	11
Tularemia	12	1	0	0	1	0	2
West Nile Neuroinvasive Disease (WNND) <sup>3</sup>	149	0	0	0	7	1	8
Yellow Fever	0	0	0	0	0	0	0
<b>TOTAL</b>	<b>216</b>	<b>12</b>	<b>4</b>	<b>14</b>	<b>19</b>	<b>16</b>	<b>49</b>