

Annual Incidence Summary Report

Reporting period: January 1, 2012 to December 31, 2016

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 2012-2016 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 2012-2016 calendar years, as well as, the averages for 2002 to 2011 and 2012 to 2016.

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 2012 to 2016, as well as, the averages for 2002 to 2011 and 2012 to 2016.

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, and date the iPHIS record was opened.

Notes:

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

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

²TB numbers represent infectious cases - new and relapsed.

³West Nile Neuroinvasive Disease (WNND) data available only from 2003 onwards.

INCIDENCE OF COMMON NOTIFIABLE DISEASES FOR SASKATCHEWAN (2012-2016)

	2002 - 2011 (AVERAGE)	Number of Cases Per Year					2012 - 2016 (AVERAGE)
		2012	2013	2014	2015	2016	
Enteric, Food and Waterborne Diseases							
Campylobacteriosis	237	216	194	186	185	201	196
Cryptosporidiosis	39	38	105	48	34	33	52
Cyclosporiasis	<1	0	2	0	0	1	<1
Food poisoning (organism not reportable)	2	2	0	4	1	10	3
Giardiasis	145	119	110	139	128	99	119
Hepatitis A	7	14	2	12	9	12	10
Listeriosis	3	1	1	2	2	1	1
Salmonellosis	150	147	173	182	272	225	200
Shigellosis	23	161	21	16	11	13	44
Verotoxigenic E. coli ¹	30	28	29	23	51	63	39
Yersinia enterocolitica	15	39	22	18	13	17	22
TOTAL	652	765	659	630	706	675	687
Respiratory Route Diseases							
Hantavirus pulmonary syndrome	2	0	3	4	0	1	2
Legionellosis	<1	0	1	0	0	3	<1
Meningococcal disease - invasive	5	3	3	3	1	2	2
Pneumococcal disease - invasive	106	129	125	111	134	143	128
Streptococcal - group A, invasive (iGAS)	63	61	80	105	104	137	97
Tuberculosis (new and relapsed) ²	93	88	86	89	72	91	85
TOTAL	270	281	298	312	311	377	316
Diseases transmitted by Direct Contact							
Creutzfeld-Jacob Disease (CJD), classic	<1	1	0	3	1	1	1
Herpes - neonatal/congenital	0	0	0	0	1	1	<1
Streptococcal, group B, newborn	5	4	8	5	4	4	5
TOTAL	6	5	8	8	6	6	7
Routine Vaccination Prevented Diseases							
Diphtheria - respiratory, toxigenic	0	0	0	0	0	0	0
Haemophilus influenzae - type B	<1	0	1	1	0	1	<1
Haemophilus influenzae - all other types	14	17	18	19	18	24	19
Measles	<1	2	1	16	0	0	4
Mumps	2	0	2	0	1	1	<1
Pertussis	264	34	19	47	213	197	102
Poliomyelitis / Acute flaccid paralysis	<1	0	0	0	0	0	0
Rubella	<1	0	0	0	0	0	0
Tetanus	<1	0	0	0	0	0	0
TOTAL	282	53	41	83	232	223	126
Sexually Transmitted & Bloodborne Pathogens							
AIDS	15	36	27	33	29	25	30
HIV (Based on specimen collection year)	116	177	128	112	160	170	149
Chlamydia trachomatis - genital	4395	5631	5771	5811	6091	6242	5909
Gonococcal infections	813	988	1215	1239	957	1385	1157
Granuloma inguinale	0	0	0	0	0	0	0
Hepatitis B (Acute) (Based on reported year)	12	9	9	9	6	3	7
Hepatitis C (Based on reported year)	673	688	637	613	727	722	677
Syphilis - primary, secondary, early latent, neuro	14	8	17	29	24	85	33
Syphilis - early congenital	<1	0	0	0	0	0	0
TOTAL	6039	7537	7804	7846	7994	8632	7963
Vectorborne and other Zoonotic Diseases							
Anthrax	<1	0	0	0	0	0	0
Brucellosis	0	0	0	0	1	0	<1
Encephalitis - vector borne	0	0	0	0	0	0	0
Lyme disease	<1	0	1	0	0	1	<1
Malaria	6	10	9	9	20	23	14
Plague	0	0	0	0	0	0	0
Rabies	0	0	0	0	0	0	0
Rickettsial infections	<1	4	1	6	1	1	3
Tularemia	1	0	1	0	2	1	<1
West Nile Neuroinvasive Disease (WNND)	15	0	7	1	0	0	2
Yellow Fever	0	0	0	0	0	0	0
TOTAL	22	14	19	16	24	26	20