

Annual Incidence Summary Report

Reporting period: January 1, 2011 to December 31, 2015

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 2011-2015 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 2011-2015 calendar years, as well as, the cumulative totals for 2001 to 2010 and 2011 to 2015.

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.

Prepared by:

Population Health Branch,
Saskatchewan Ministry of Health.

Contact:

Val Mann, PhD
Chief Population Health
Epidemiologist
Population Health Branch,
Saskatchewan Ministry of Health
cdc@health.gov.sk.ca

Source:

iPHIS Database

Case numbers are based on confirmed cases reported during the calendar years 2011 to 2015, as well as, the cumulative totals for 2001 to 2010 and 2011 to 2015.

The episode date is assigned by the iPHIS application using a heirarchy 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.

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 (2011-2015)							
	2001 - 2010 (TOTAL)	Number of Cases Per Year					2011 - 2015 (TOTAL)
		2011	2012	2013	2014	2015	
Enteric, Food and Waterborne Diseases							
Campylobacteriosis	2371	240	215	195	187	185	1022
Cryptosporidiosis	1137	18	38	105	48	34	243
Cyclosporiasis	6	0	0	2	0	0	2
Food poisoning (organism not reportable)	18	0	2	0	4	1	7
Giardiasis	1477	134	120	110	140	129	633
Hepatitis A	64	14	14	2	12	9	51
Listeriosis	32	0	1	1	2	2	6
Salmonellosis	1532	170	148	174	184	272	948
Shigellosis	114	138	161	21	16	11	347
Verotoxigenic E. coli ¹	351	15	28	30	23	52	148
Yersinia enterocolitica	124	30	39	22	18	13	122
TOTAL	7226	759	766	662	634	708	3529
Respiratory Route Diseases							
Hantavirus pulmonary syndrome	14	3	0	3	4	0	10
Legionellosis	6	0	0	1	0	0	1
Meningococcal disease - invasive	51	7	3	3	3	1	17
Human parvovirus 19	1258	54	21	17	123	50	265
Pneumococcal disease - invasive	983	133	128	124	111	133	629
Streptococcal - group A, invasive (iGAS)	591	79	61	80	105	104	429
Tuberculosis (new and relapsed) ²	963	83	88	87	88	69	415
TOTAL	3866	359	301	315	434	357	1766
Diseases transmitted by Direct Contact							
Creutzfeld-Jacob Disease (CJD), classic	5	3	1	0	3	1	8
Herpes - neonatal/congenital	0	0	0	0	0	1	1
Streptococcal, group B, newborn	54	1	4	8	5	4	22
TOTAL	59	4	5	8	8	6	31
Routine Vaccination Prevented Diseases							
Diphtheria - respiratory, toxigenic	0	0	0	0	0	0	0
Haemophilus influenzae - type B	8	1	0	1	1	0	3
Haemophilus influenzae - all other types	133	15	17	18	19	18	87
Measles	1	6	2	1	16	0	25
Mumps	21	0	0	2	0	1	3
Pertussis	2965	48	34	19	47	213	361
Poliomyelitis / Acute flaccid paralysis	1	0	0	0	0	0	0
Rubella	5	0	0	0	0	0	0
Tetanus	1	0	0	0	0	0	0
TOTAL	3135	70	53	41	83	232	479
Sexually Transmitted & Bloodborne Pathogens							
AIDS	125	27	36	24	32	28	147
HIV (Based on diagnosis year)	1013	186	177	129	112	160	764
Chlamydia trachomatis - genital	41605	5516	5631	5771	5811	6091	28820
Gonococcal infections	7911	749	988	1215	1239	957	5148
Granuloma inguinale	0	0	0	0	0	0	0
Hepatitis B (Acute) (Based on reported year)	132	12	8	7	9	10	46
Hepatitis C (Based on reported year)	6471	674	691	631	613	720	3329
Syphilis - primary, secondary, early latent, neuro symptomatic	119	27	8	17	29	24	105
Syphilis - early congenital	0	0	0	1	0	0	1
TOTAL	57376	7191	7539	7795	7845	7990	38360
Vectorborne and other Zoonotic Diseases							
Anthrax	1	0	0	0	0	0	0
Brucellosis	0	0	0	0	0	1	1
Encephalitis - vector borne	0	0	0	0	0	0	0
Lyme disease	1	1	0	1	0	0	2
Malaria	58	3	10	9	9	20	51
Plague	0	0	0	0	0	0	0
Rabies	0	0	0	0	0	0	0
Rickettsial infections	4	0	4	1	6	1	12
Tularemia	13	0	0	1	0	2	3
West Nile Neuroinvasive Disease (WNND)	149	0	0	7	1	0	8
Yellow Fever	0	0	0	0	0	0	0
TOTAL	226	4	14	19	16	24	77