

# NATIONAL NOTIFIABLE DISEASES SURVEILLANCE SYSTEM, 1 JANUARY TO 31 MARCH 2015

A summary of diseases currently being reported by each jurisdiction is provided in Table 1. There were 67,831 notifications to the National Notifiable Diseases Surveillance System (NNDSS) with a notification received date between 1 January to 31 March 2015 (Table 2). The notification rate of diseases per 100,000 population for each state or territory is presented in Table 3.

**Table 1: Reporting of notifiable diseases by jurisdiction**

Disease	Data received from:
<b>Bloodborne diseases</b>	
Hepatitis (NEC)	All jurisdictions
Hepatitis B (newly acquired)	All jurisdictions
Hepatitis B (unspecified)	All jurisdictions
Hepatitis C (newly acquired)	All jurisdictions except Queensland
Hepatitis C (unspecified)	All jurisdictions
Hepatitis D	All jurisdictions
<b>Gastrointestinal diseases</b>	
Botulism	All jurisdictions
Campylobacteriosis	All jurisdictions except New South Wales
Cryptosporidiosis	All jurisdictions
Haemolytic uraemic syndrome	All jurisdictions
Hepatitis A	All jurisdictions
Hepatitis E	All jurisdictions
Listeriosis	All jurisdictions
STEC, VTEC*	All jurisdictions
Salmonellosis	All jurisdictions
Shigellosis	All jurisdictions
Typhoid	All jurisdictions
<b>Quarantinable diseases</b>	
Cholera	All jurisdictions
Highly pathogenic avian influenza in humans	All jurisdictions
Plague	All jurisdictions
Rabies	All jurisdictions
Severe acute respiratory syndrome	All jurisdictions
Smallpox	All jurisdictions
Viral haemorrhagic fever	All jurisdictions
Yellow fever	All jurisdictions
<b>Sexually transmissible infections</b>	
Chlamydial infection	All jurisdictions
Donovanosis	All jurisdictions
Gonococcal infection	All jurisdictions
Syphilis - congenital	All jurisdictions
Syphilis <2 years duration	All jurisdictions
Syphilis >2 years or unspecified duration	All jurisdictions

**Table 1 continued: Reporting of notifiable diseases by jurisdiction**

Disease	Data received from:
<b>Vaccine preventable diseases</b>	
Diphtheria	All jurisdictions
<i>Haemophilus influenzae</i> type b	All jurisdictions
Influenza (laboratory confirmed)	All jurisdictions
Measles	All jurisdictions
Mumps	All jurisdictions
Pertussis	All jurisdictions
Pneumococcal disease (invasive)	All jurisdictions
Poliomyelitis	All jurisdictions
Rubella	All jurisdictions
Rubella - congenital	All jurisdictions
Tetanus	All jurisdictions
Varicella zoster (chickenpox)	All jurisdictions except New South Wales
Varicella zoster (shingles)	All jurisdictions except New South Wales
Varicella zoster (unspecified)	All jurisdictions except New South Wales
<b>Vectorborne diseases</b>	
Barmah Forest virus infection	All jurisdictions
Chikungunya virus infection	All jurisdictions
Dengue virus infection	All jurisdictions
Flavivirus infection (NEC)	All jurisdictions
Japanese encephalitis virus infection	All jurisdictions
Kunjin virus infection	All jurisdictions
Malaria	All jurisdictions
Murray Valley encephalitis virus infection	All jurisdictions
Ross River virus infection	All jurisdictions
<b>Zoonoses</b>	
Anthrax	All jurisdictions
Australian bat lyssavirus	All jurisdictions
Brucellosis	All jurisdictions
Leptospirosis	All jurisdictions
Lyssavirus (NEC)	All jurisdictions
Ornithosis	All jurisdictions
Q fever	All jurisdictions
Tularaemia	All jurisdictions
<b>Other bacterial infections</b>	
Legionellosis	All jurisdictions
Leprosy	All jurisdictions
Meningococcal infection	All jurisdictions
Tuberculosis	All jurisdictions

\* Infections with Shiga-like toxin (verotoxin) producing *Escherichia coli* (STEC/VTEC).

NEC Not elsewhere classified.

Table 2: Notifications of diseases received by state and territory health authorities, 1 January to 31 March 2015, by date of diagnosis\*

Disease	State or territory						Total 1st quarter 2015	Total 4th quarter 2014	Total 1st quarter 2014	Total 1st quarter 2014	Last 5 years mean 1st quarter	Year to date 2015	Last 5 years YTD mean
	ACT	NSW	NT	Qld	SA	Tas							
<b>Bloodborne diseases</b>													
Hepatitis (NEC)	0	0	0	0	0	0	0	0	0	0	0.0	0	0.0
Hepatitis B (newly acquired)†	0	8	2	11	0	0	10	9	40	34	58	56.0	0.7
Hepatitis B (unspecified)‡	18	584	51	255	90	6	454	134	1,592	1,517	1,628.2	1.0	1,592
Hepatitis C (newly acquired)†	3	2	0	0	17	4	39	37	102	86	107	112.0	0.9
Hepatitis C (unspecified)‡	51	889	50	660	107	49	546	251	2,603	2,472	2,481	2,511.6	1.0
Hepatitis D	0	3	0	3	2	0	3	0	11	15	13	11.2	1.0
<b>Gastrointestinal diseases</b>													
Botulism	0	1	0	0	0	0	0	0	1	0	0	0.4	2.5
Campylobacteriosis	122	NN	97	1,987	396	246	1,955	697	5,500	5,558	4,800	4,440.4	1.2
Cryptosporidiosis	4	398	27	595	160	0	209	111	1,504	455	859	1,039.6	1.4
Haemolytic uraemic syndrome	0	2	0	0	0	0	2	0	4	2	9	5.6	0.7
Hepatitis A	1	38	2	20	5	0	12	10	88	51	86	68.8	1.3
Hepatitis E	0	2	0	0	1	1	4	2	10	12	10	13.0	0.8
Listeriosis	0	8	1	3	1	0	2	1	16	20	22	25.8	0.6
STEC, VTEC§	0	8	0	10	6	0	3	0	27	19	40	34.0	0.8
Salmonellosis	92	1,589	139	2,519	409	99	1,054	556	6,457	4,113	5,206	4,416.4	1.5
Shigellosis	0	53	52	51	26	1	108	44	335	278	306	193.0	1.7
Typhoid	0	13	0	11	2	0	13	4	43	28	46	51.6	0.8
<b>Quarantineable diseases</b>													
Cholera	0	0	0	0	0	0	0	0	0	0	1	0.4	0.0
Highly pathogenic avian influenza in humans	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0
Plague	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0
Rabies	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0
Severe acute respiratory syndrome	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
Viral haemorrhagic fever	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0
Yellow fever	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0

Table 2 continued: Notifications of diseases received by state and territory health authorities, 1 January to 31 March 2015, by date of diagnosis\*

Disease	State or territory						Total 1st quarter 2015	Total 4th quarter 2014	Total 1st quarter 2014	Last 5 years mean 1st quarter	Year to date 2015	Last 5 years YTD mean
	ACT	NSW	NT	Qld	SA	Tas	Vic	WA	Ratio			
<b>Sexually transmissible infections</b>												
Chlamydial infection <sup>¶,  </sup>	337	6,098	758	5,437	1,484	484	4,622	2,980	22,200	19,623	22,972	21,303.6
Donovanosis	0	0	0	0	0	0	0	0	0	1	0.2	0
Gonococcal infection <sup>¶</sup>	42	1,453	515	823	219	18	1,092	510	4,672	3,638	4,267	3,440.2
Syphilis – congenital	0	0	0	0	0	0	0	0	1	0	1.2	0
Syphilis < 2 years duration <sup>¶</sup>	3	125	38	128	17	7	231	27	576	491	452	383.4
Syphilis > 2 years or unspecified duration <sup>¶,  </sup>	4	124	41	70	31	6	187	20	483	452	478	367.8
<b>Vaccine preventable diseases</b>												
Diphtheria	0	0	0	0	1	0	0	0	1	1	0	0.2
<i>Haemophilus influenzae</i> type b	0	0	1	1	0	0	0	0	2	5	3	2.8
Influenza (laboratory confirmed)	84	1,082	38	1,377	756	38	667	515	4,557	5,719	3,834	2,111.6
Measles	1	4	0	7	1	0	12	2	27	36	175	57.4
Mumps	1	13	0	13	18	3	3	8	59	40	63	46.2
Pertussis	87	1,621	13	316	164	4	1,491	374	4,070	4,115	2,339	5,912.2
Pneumococcal disease (invasive)	1	50	12	30	16	4	56	19	188	337	216	219.6
Pollonyelitis	0	0	0	0	0	0	0	0	0	0	0	0.0
Rubella	0	3	0	2	0	0	0	0	5	5	6	11.6
Rubella – congenital	0	0	0	0	0	0	0	0	0	0	0	0.0
Tetanus	0	0	0	0	0	0	0	0	0	2	1	1.4
Varicella zoster (chickenpox)	15	NN	16	46	121	23	219	89	529	548	497	388.8
Varicella zoster (shingles)	40	NN	92	15	592	65	418	367	1,589	1,379	1,398	1,099.4
Varicella zoster (unspecified)	28	NN	1	1,498	37	28	1,159	360	3,111	3,099	3,033	2,365.2
<b>Vectorborne diseases</b>												
Barmah Forest virus infection	2	73	12	168	0	0	6	9	270	97	331	699.8
Chikungunya virus infection	0	18	3	12	0	0	17	6	56	48	21	18.2
Dengue virus infection	8	121	22	147	33	3	118	283	735	255	658	475.0
Flavivirus infection (NEC)	0	1	0	6	0	0	0	7	3	14	5.4	1.3
Japanese encephalitis virus infection	0	1	0	0	0	1	0	0	2	0	0	2
Kunjin virus infection <sup>**</sup>	0	0	0	0	0	0	0	0	0	0	0	0.2
Malaria	2	12	2	19	0	1	14	13	63	61	92	104.4
Murray Valley encephalitis virus infection <sup>**</sup>	0	0	1	0	0	0	0	1	0	0	1.8	1
Ross River virus infection	7	894	179	4,062	53	2	137	388	5,722	1,485	1,616	1,987.4

Table 2 continued: Notifications of diseases received by state and territory health authorities, 1 January to 31 March 2015, by date of diagnosis

Disease	State or territory						Total 1st quarter 2015	Total 4th quarter 2014	Total 1st quarter 2014	Last 5 years mean 1st quarter	Year to date 2015	Ratio
	ACT	NSW	NT	Qld	SA	Tas						
<b>Zoonoses</b>												
Anthrax	0	0	0	0	0	0	0	0	0	0	0.2	0.2
Australian bat lyssavirus	0	0	0	0	0	0	0	0	0	0	0.2	0.2
Brucellosis	0	2	0	0	0	0	0	0	2	3	6.8	0.3
Leptospirosis	1	4	0	12	0	2	1	0	20	11	26	46.0
Lyssavirus (NEC)	0	0	0	0	0	0	0	0	0	0	0.0	0.0
Ornithosis	0	0	0	0	0	0	1	0	1	14	12.8	0.1
Q fever	0	54	1	82	5	0	7	1	150	105	125	101.2
Tularemia	0	0	0	0	0	0	0	0	0	0	0.3	0.3
<b>Other bacterial infections</b>												
Legionellosis	2	26	2	19	5	1	14	23	92	110	88	86.2
Leprosy	0	0	0	0	0	0	0	0	0	2	3	1.4
Meningococcal infection <sup>††</sup>	1	6	0	6	1	0	10	3	27	45	25	40.0
Tuberculosis	5	89	6	41	19	4	80	37	281	363	313	317.8
<b>Total</b>	<b>962</b>	<b>15,472</b>	<b>2,174</b>	<b>20,463</b>	<b>4,794</b>	<b>1,099</b>	<b>14,977</b>	<b>7,890</b>	<b>67,831</b>	<b>56,753</b>	<b>58,721</b>	<b>67,831</b>

\* The date of diagnosis is the onset date or where the date of onset was not known, the earliest of the specimen collection date, the notification date, or the notification receive date. For hepatitis B (unspecified), hepatitis C (unspecified), leprosy, syphilis (> 2 years or unspecified duration) and tuberculosis, the public health unit notification receive date was used.

† Newly acquired hepatitis includes cases where the infection was determined to be acquired within 24 months prior to diagnosis. Queensland reports hepatitis C newly acquired under hepatitis unspecified.

‡ Unspecified hepatitis and syphilis includes cases where the duration of infection could not be determined or is greater than 24 months.

§ Infection with Shiga toxin/verotoxin-producing *Escherichia coli*.

|| Includes *Chlamydia trachomatis* identified from cervical, rectal, urine, urethral and throat samples, except for South Australia, which reports only cervical, urine and urethral specimens. From 1 July 2013 case definition changed to exclude all ocular infections.

¶ The national case definitions for chlamydial, gonococcal and syphilis diagnoses include infections that may be acquired through a non-sexual mode (especially in children – e.g. perinatal infections, epidemic gonococcal conjunctivitis).

\*\* In the Australian Capital Territory, Murray Valley encephalitis virus infection and Kunjin virus infection are combined under Murray Valley encephalitis virus infection.

†† Only invasive meningococcal disease is nationally notifiable. However, New South Wales and the Australian Capital Territory also report conjunctival cases.

NN Not notifiable

NEC Not elsewhere classified

Totals comprise data from all states and territories. Cumulative figures are subject to retrospective revision so there may be discrepancies between the number of new notifications and the increment in the cumulative figure from the previous period.

**Table 3: Notification rates of diseases, 1 January to 31 March 2015, by state or territory.  
(Annualised rate per 100,000 population)\*,†**

Disease	State or territory								Aust
	ACT	NSW	NT	Qld	SA	Tas	Vic	WA	
<b>Bloodborne diseases</b>									
Hepatitis (NEC)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hepatitis B (newly acquired)‡	0.0	0.4	3.3	0.9	0.0	0.0	0.7	1.4	0.7
Hepatitis B (unspecified)§	18.5	31.5	84.0	21.5	21.6	4.7	31.4	20.5	27.3
Hepatitis C (newly acquired)‡	3.1	0.1	0.0	0.0	4.1	3.2	2.7	5.7	1.7
Hepatitis C (unspecified)§	52.5	48.1	82.4	55.7	25.7	38.7	37.7	38.4	44.6
Hepatitis D	0.0	0.2	0.0	0.3	0.5	0.0	0.2	0.0	0.2
<b>Gastrointestinal diseases</b>									
Botulism	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Campylobacteriosis	125.7	NN	159.9	167.6	95.0	194.4	135.1	106.8	137.9
Cryptosporidiosis	4.1	21.5	44.5	50.2	38.4	0.0	14.4	17.0	25.8
Haemolytic uraemic syndrome	0.0	0.1	0.0	0.0	0.0	0.0	0.1	0.0	0.1
Hepatitis A	1.0	2.1	3.3	1.7	1.2	0.0	0.8	1.5	1.5
Hepatitis E	0.0	0.1	0.0	0.0	0.2	0.8	0.3	0.3	0.2
Listeriosis	0.0	0.4	1.6	0.3	0.2	0.0	0.1	0.2	0.3
STEC,VTEC¶	0.0	0.4	0.0	0.8	1.4	0.0	0.2	0.0	0.5
Salmonellosis	94.8	85.8	229.1	212.5	98.1	78.2	72.8	85.2	110.6
Shigellosis	0.0	2.9	85.7	4.3	6.2	0.8	7.5	6.7	5.7
Typhoid fever	0.0	0.7	0.0	0.9	0.5	0.0	0.9	0.6	0.7
<b>Quarantineable diseases</b>									
Cholera	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Human pathogenic avian influenza in humans	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Plague	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Rabies	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Severe acute respiratory syndrome	0.0	0.0	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	0.0	0.0
Viral haemorrhagic fever	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Yellow fever	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>Sexually transmitted infections</b>									
Chlamydial infection¶,**	347.1	329.3	1,249.2	458.8	356.1	382.5	319.4	456.5	380.2
Donovanosis	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Gonococcal infection**	43.3	78.5	848.7	69.4	52.5	14.2	75.5	78.1	80.0
Syphilis – congenital	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Syphilis < 2 years duration**	3.1	6.7	62.6	10.8	4.1	5.5	16.0	4.1	9.9
Syphilis > 2 years or unspecified duration§,**	4.1	6.7	67.6	5.9	7.4	4.7	12.9	3.1	8.3
<b>Vaccine preventable diseases</b>									
Diphtheria	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0
<i>Haemophilus influenzae</i> type b	0.0	0.0	1.6	0.1	0.0	0.0	0.0	0.0	0.0
Influenza (laboratory confirmed)	80.3	58.4	62.6	116.2	181.4	30.0	46.1	78.9	77.9
Measles	1.0	0.2	0.0	0.6	0.2	0.0	0.8	0.3	0.5
Mumps	1.0	0.7	0.0	1.1	4.3	2.4	0.2	1.2	1.0
Pertussis	89.6	87.5	21.4	26.7	39.1	3.2	103.1	57.3	69.7
Pneumococcal disease (invasive)	1.0	2.7	19.8	2.5	3.8	3.2	3.9	2.9	3.2
Poliomyelitis virus infection	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Rubella	0.0	0.2	0.0	0.2	0.0	0.0	0.0	0.0	0.1
Rubella – congenital	0.0	0.0	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	0.0	0.0

**Table 3 continued: Notification rates of diseases, 1 January to 31 March 2015, by state or territory.  
(Annualised rate per 100,000 population)\*,†**

Disease	State or territory								Aust
	ACT	NSW	NT	Qld	SA	Tas	Vic	WA	
<b>Vaccine preventable diseases, cont'd</b>									
Varicella zoster (chickenpox)	15.5	NN	26.4	3.9	28.8	18.2	15.1	13.6	13.2
Varicella zoster (shingles)	41.2	NN	151.6	1.3	142.1	51.4	28.9	56.2	39.9
Varicella zoster (unspecified)	28.8	NN	1.6	126.4	9.1	22.1	80.1	55.1	78.0
<b>Vectorborne diseases</b>									
Barmah Forest virus infection	2.1	3.9	19.8	14.2	0.0	0.0	0.4	1.4	4.6
Chikungunya virus infection	0.0	0.9	4.9	1.0	0.0	0.0	1.2	0.9	0.9
Dengue virus infection	8.2	6.5	36.3	12.4	7.9	2.4	8.2	43.3	12.6
Flavivirus infection (NEC)	0.0	0.1	0.0	0.5	0.0	0.0	0.0	0.0	0.1
Japanese encephalitis virus infection	0.0	0.1	0.0	0.0	0.0	0.0	0.1	0.0	0.0
Kunjin virus infection††	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Malaria	2.1	0.6	3.3	1.6	0.0	0.8	1.0	2.0	1.1
Murray Valley encephalitis virus infection††	0.0	0.0	1.6	0.0	0.0	0.0	0.0	0.0	0.0
Ross River virus infection	7.2	48.3	295.0	342.7	12.7	1.6	9.5	59.4	98.0
<b>Zoonoses</b>									
Anthrax	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Australia bat lyssavirus	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Brucellosis	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Leptospirosis	1.0	0.2	0.0	1.0	0.0	1.6	0.1	0.0	0.3
Lyssavirus (NEC)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ornithosis	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0
Q fever	0.0	2.9	1.6	6.9	1.2	0.0	0.5	0.2	2.6
Tularaemia	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>Other bacterial diseases</b>									
Legionellosis	2.1	1.4	3.3	1.6	1.2	0.8	1.0	3.5	1.6
Leprosy	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Meningococcal infection‡‡	1.0	0.3	0.0	0.5	0.2	0.0	0.7	0.5	0.5
Tuberculosis	5.2	4.8	9.9	3.5	4.6	3.2	5.5	5.7	4.8

\* The date of diagnosis is the onset date or where the date of onset was not known, the earliest of the specimen collection date, the notification date, or the notification receive date. For hepatitis B (unspecified), hepatitis C (unspecified), leprosy, syphilis (> 2 years or unspecified duration) and tuberculosis, the public health unit notification receive date was used.

† Rate per 100,000 of population. Annualisation Factor was 4.0

‡ Newly acquired hepatitis includes cases where the infection was determined to be acquired within 24 months prior to diagnosis. Queensland reports hepatitis C newly acquired under hepatitis C unspecified.

§ Unspecified hepatitis and syphilis includes cases where the duration of infection could not be determined or is greater than 24 months.

|| Infection with Shiga toxin/verotoxin-producing *Escherichia coli*.

¶ Includes *Chlamydia trachomatis* identified from cervical, rectal, urine, urethral and throat samples, except for South Australia, which reports only cervical, urine and urethral specimens. From 1 July 2013 case definition changed to exclude all ocular infections.

\*\* The national case definitions for chlamydial, gonococcal and syphilis diagnoses include infections that may be acquired through a non-sexual mode (especially in children – e.g. perinatal infections, epidemic gonococcal conjunctivitis).

†† In the Australian Capital Territory, Murray Valley encephalitis virus infection and Kunjin virus infection are combined under Murray Valley encephalitis virus infection.

## Only invasive meningococcal disease is nationally notifiable. However, New South Wales and the Australian Capital Territory also report conjunctival cases.

NEC Not elsewhere classified.

NN Not notifiable.