



2007 Annual Report

Vital Statistics

Letters of Transmittal

His Honour the Honourable Dr. Gordon L. Barnhart, S.O.M., Ph.D.
Lieutenant Governor of Saskatchewan

May it Please Your Honour:

I respectfully submit the Annual Report of Saskatchewan Vital Statistics for the calendar year 2007.



Don McMorris
Minister of Health

The Honourable Don McMorris
Minister of Health

I have the honour of submitting the Annual Report of Saskatchewan Vital Statistics for the calendar year ending December 31, 2007.



Gren Smith-Windsor
Acting Deputy Minister of Health

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This annual report is also available in electronic format from the ministry's web site at www.health.gov.sk.ca

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Terms and Definitions

A summary of symbols, definitions, and the method of computing rates used in this report are given below.

Definitions

Population	This report contains postcensal estimates for 1997 - 2000, 2002-2005 and 2007, final census figures for 2001 and 2006.
Live Births	Infants born alive, i.e., excluding stillbirths.
Stillbirths	Fetal deaths occurring after at least 20 weeks pregnancy or after attaining a weight of at least 500 grams.
Deaths	Excludes stillbirths.
Infant Deaths	Deaths under 1 year of age.
Neonatal Deaths	Deaths under 28 days (4 weeks) of age.
Perinatal Deaths	Fetal deaths of 500 grams or more plus infant deaths under 7 days (1 week) of age.
Natural Increase	Excess of births over deaths.

Rates (unless otherwise indicated, computed as follows)

Live Births	: per 1,000 population
Stillbirths	: per 1,000 live births
Marriages	: per 1,000 population
Natural Increase	: per 1,000 population

Introduction

The Vital Statistics Annual Report represents a concise record of those vital events which occurred in Saskatchewan during the calendar year. The Report has been prepared in accordance with the requirements of subsections 50(1) and 50(2) of *The Vital Statistics Act, 1995*.

The Vital Statistics Annual Report 2007 records vital events by place of occurrence for 2007 (vital events which occurred in Saskatchewan in 2007). It includes, for example, births to Saskatchewan residents who were in the province at the time of giving birth, as well as residents of other provinces (or countries) who were in Saskatchewan at the time of giving birth.

The data in this report are based on original registration forms and do not include amendments. The vital events recorded in this report for years previous to 2007 are by place of residence, unless otherwise indicated.

Table 1. Summary of Vital Statistics, Saskatchewan 2003 - 2007

<u>Item</u>	<u>2003</u>	<u>2004</u>	<u>2005</u>	<u>2006</u>	<u>2007</u>
Population (ooo's)	995	990	994	985	997
Live Births	12,038	11,983	12,104	12,427	13437
Crude Rate ⁺⁺	12.1	12.1	12.2	12.6	13.5
Deaths	9,007	8,844	8,845	9,100	9101
Crude Rate ⁺⁺	9.1	8.9	8.8	9.2	9.1
Natural Increase	3,031	3,139	3,259	3,327	3,536
Crude Rate ⁺⁺	3.0	3.2	3.3	3.4	3.5
Infant Deaths	76	74	95	80	79
Crude Rate ^{**}	6.3	6.2	7.8	6.4	5.9
Neonatal Deaths	46	40	61	49	49
Crude Rate ^{**}	3.8	3.3	5.0	3.9	3.6
Perinatal Deaths [@]					
500 grams or more (20+ weeks Gestation)	119	124	130	124	154
Crude Rate ⁺⁺⁺	9.8	10.3	10.7	9.9	11.4
500 grams or more or (28+ weeks Gestation)	90	82	97	82	104
Crude Rate ⁺⁺⁺	7.4	6.8	8.0	6.5	7.7
Stillbirths [@]					
500 grams or more or 20+ weeks Gestation	77	90	75	82	114
Crude Rate ^{**}	6.3	7.4	6.2	6.6	8.5
500 grams or more or 28+ weeks Gestation	49	50	42	40	64
Crude Rate ^{**}	4.1	4.2	3.5	3.2	4.8
Marriages	4,977	5,043	5,121	5,157	5235
Crude Rate ⁺⁺	5.1	5.1	5.1	5.2	5.2
Divorces and Annulments	1,992	1,877	1,925	1,953	1,832

** Crude Rate per 1,000 live births

++ Crude Rate per 1,000 population

+++ Crude Rate per 1,000 total births (live births and stillbirths)

@ See Terms and Definitions, page 3

A. Population

1. The Historical Trend

The estimated population of 996,869 for 2007 is an increase of 1.0 percent from the 2006 estimated population of 985,386.

Table 2. The Historical Trend in Saskatchewan Population

Year	Population (000's)
1961	925
1971	926
1981	968
1991	991
2001	1,000
2002	996*
2003	995*
2004	995*
2005	990*
2006	985
2007	997*

* Statistics Canada postcensal estimate.
All other figures are final census.

2. The Distribution of the Total Population by Age

The proportion of older people (65 years of age and over) continued to increase in Canada as a whole but remained constant in Saskatchewan. In Saskatchewan the proportion of persons 65 years of age and over is greater than in Canada as a whole (14.9 percent and 13.4 percent respectively).

Table 3. Distribution of Total Population by Age 2007 (000's)

<u>Age Group</u>	<u>Canada</u>		<u>Saskatchewan</u>	
	<u>Number</u>	<u>Percent</u>	<u>Number</u>	<u>Percent</u>
Total	32,976.0	100.0	996.9	100.0
0-19	7,810.8	23.7	266.1	26.7
20-44	11,781.6	35.7	328.4	32.9
45-64	8,960.2	27.2	254.1	25.5
65+	4,423.4	13.4	148.3	14.9

Table 4. Percentage Distribution by Sex, Saskatchewan, for Selected Years

<u>Year</u>	<u>Male</u>	<u>Female</u>	<u>Males per 100 Females</u>
1961	51.8	48.2	107
1971	50.8	49.2	103
1981	50.2	49.8	101
1991	49.6	50.4	98
2001	49.6	50.4	98
2002*	49.6	50.4	98
2003*	49.7	50.3	99
2004*	49.7	50.3	99
2005*	49.7	50.3	99
2006	49.7	50.3	99
2007*	49.6	50.4	98

* Statistics Canada postcensal estimate.
All other figures are final census.

B. Births

1. Live Births

During the year 2007, a total of 13,437 live births occurred in the province of Saskatchewan. This total includes births to Saskatchewan mothers residing in the province at the time of giving birth and those births occurring to mothers who normally reside outside the province but who were in Saskatchewan at the time of giving birth.

The total of 13,437 live births represents a crude birth rate of 13.5 live births per 1,000 population, which is higher than last year's birth rate of 12.6.

The birth rates for Saskatchewan, for Canada, and for the provinces and territories are shown below for comparison.

Table 5. Live Birth Rates per 1,000 Population, Canada and Provinces.

Province	2005-2006	2006-2007
Canada	10.6	10.8
Newfoundland & Labrador	8.7	8.5
Prince Edward Island	9.7	9.8
Nova Scotia	9.1	9.0
New Brunswick	9.1	9.0
Quebec	10.3	10.9
Ontario	10.6	10.6
Manitoba	12.0	12.0
Saskatchewan	12.1	12.1
Alberta	12.9	13.3
British Columbia	9.6	9.8
Yukon	10.2	10.0
Northwest Territories	16.4	16.0
Nunavut	23.5	24.1

* Estimate from demography division July 1 – June 30.

2. Stillbirths

During the year 2007, a total of 114 stillbirths occurred in the province. The definition of stillbirth is given on page 3. The 114 stillbirths occurred after 20 or more weeks gestation (or attaining a weight of 500 grams or more): sixty-four of the stillbirths occurred after 28 or more weeks gestation (or attaining a weight of 500 grams or more). These two totals represent crude rates of 8.5 and 4.8 stillbirths per 1,000 live births respectively.

C. Deaths

During the year 2007, a total of 9,101 deaths occurred within the province of Saskatchewan. This represents a crude death rate of 9.1 deaths per 1,000 population.

The death rates for Saskatchewan, for Canada, and for the provinces are shown in the table below for comparison.

Table 6. Crude Death Rates per 1,000 Population, Canada and Provinces.

Province	2005-2006	2006-2007
Canada	7.1	7.3
Newfoundland & Labrador	8.7	8.9
Prince Edward Island	9.1	9.3
Nova Scotia	9.1	9.3
New Brunswick	8.6	8.8
Quebec	7.0	7.3
Ontario	6.9	7.1
Manitoba	8.6	8.7
Saskatchewan	9.1	9.2
Alberta	5.9	6.1
British Columbia	7.0	7.1
Yukon	5.7	5.8
Northwest Territories	3.7	3.8
Nunavut	4.2	4.3

* Estimate from demography division July 1 – June 30.

Table 7. Age Specific Death Rates per 1,000 Population, Saskatchewan, 1998 – 2007

<u>Year</u>	<u>All Ages</u>	<u>Age Group</u>					
		<u>Under 5</u>	<u>5-14</u>	<u>15-24</u>	<u>25-44</u>	<u>45-64</u>	<u>65+</u>
1998	8.7	1.6	0.1	0.8	1.0	5.2	48.4
1999	8.8	1.5	0.2	0.6	1.1	5.2	49.2
2000	8.8	1.5	0.2	0.8	1.2	4.9	49.0
2001	8.6	1.3	0.1	0.7	1.1	4.9	48.4
2002	8.7	1.3	0.3	0.7	1.2	5.0	48.8
2003	8.9	1.5	0.2	0.8	1.2	4.9	48.4
2004	8.9	1.5	0.2	0.8	1.3	5.0	48.0
2005	8.8	2.0	0.1	0.9	1.2	3.9	48.2
2006	9.2	1.6	0.1	0.9	1.3	4.9	49.7
2007	9.2	1.6	0.2	0.8	1.1	4.9	49.3

Table 8. Number of Deaths by Cause Occurring in Saskatchewan in 2007

	<u>Deaths</u>	<u>Percent</u>	<u>Rate*</u>
All Causes of Death	9101	100.0	912.8
1 Salmonella infections	0	0.0	0.0
2 Shigellosis and amebiasis	0	0.0	0.0
3 Certain other intestinal infections	13	0.1	1.3
4 Respiratory tuberculosis	3	0.0	0.3
5 Other tuberculosis	1	0.0	0.1
6 Whooping cough	0	0.0	0.0
7 Scarlet fever and erysipelas	0	0.0	0.0
8 Meningococcal infection	0	0.0	0.0
9 Septicemia	89	0.9	8.9
10 Syphilis	0	0.0	0.0
11 Acute poliomyelitis	0	0.0	0.0
12 Arthropod-borne viral encephalitis	0	0.0	0.0
13 Measles	0	0.0	0.0
14 Viral hepatitis	6	0.1	0.6

Table 8. Number of Deaths by Cause Occurring in Saskatchewan in 2007

	<u>Deaths</u>	<u>Percent</u>	<u>Rate*</u>
15 Human immunodeficiency virus (HIV) disease	6	0.1	0.6
16 Malaria	0	0.0	0.0
17 Other and unspecified infectious and parasitic diseases and their sequelae	17	0.2	1.7
18 Malignant neoplasms of lip, oral cavity and pharynx	30	0.3	3.0
19 Malignant neoplasm of esophagus	55	0.6	5.5
20 Malignant neoplasm of stomach	44	0.4	4.4
21 Malignant neoplasms of colon, rectum and anus	253	2.6	25.4
22 Malignant neoplasms of liver and intrahepatic bile ducts	49	0.5	4.9
23 Malignant neoplasm of pancreas	126	1.3	12.6
24 Malignant neoplasm of larynx	10	0.1	1.0
25 Malignant neoplasms of trachea, bronchus and lung	536	5.4	53.8
26 Malignant melanoma of skin	26	0.3	2.6
27 Malignant neoplasm of breast	161	1.6	16.2
28 Malignant neoplasm of cervix uteri	13	0.1	1.3
29 Malignant neoplasms of corpus uteri and uterus, part unspecified	24	0.2	2.4
30 Malignant neoplasm of ovary	65	0.7	6.5
31 Malignant neoplasm of prostate	195	2.0	19.6
32 Malignant neoplasms of kidney and renal pelvis	49	0.5	4.9
33 Malignant neoplasm of bladder	59	0.6	5.9
34 Malignant neoplasms of meninges, brain and other parts of central nervous system	51	0.5	5.1
35 Hodgkin's disease	4	0.0	0.4
36 Non-Hodgkin's lymphoma	84	0.8	8.4
37 Leukemia	82	0.8	8.2
38 Multiple myeloma and immunoproliferative neoplasms	52	0.5	5.2
39 Other and unspecified malignant neoplasms of lymphoid, hematopoietic and related tissue	0	0.0	0.0
40 All other and unspecified malignant neoplasms	313	3.4	31.5
41 In situ neoplasms, benign neoplasms and neoplasms of uncertain or unknown behavior	66	0.6	6.6
42 Anemias	26	0.3	2.6

Table 8. Number of Deaths by Cause Occurring in Saskatchewan in 2007

	<u>Deaths</u>	<u>Percent</u>	<u>Rate*</u>
43 Diabetes mellitus	324	3.6	32.6
44 Malnutrition	5	0.0	0.5
45 Other nutritional deficiencies	1	0.0	0.1
46 Meningitis	2	0.0	0.2
47 Parkinson's disease	76	0.8	7.6
48 Alzheimer's disease	221	2.2	22.2
49 Acute rheumatic fever and chronic rheumatic heart diseases	11	0.1	1.1
50 Hypertensive heart disease	40	0.4	4.0
51 Hypertensive heart and renal disease	7	0.1	0.7
52 Acute myocardial infarction	491	5.4	49.4
53 Other acute ischemic heart diseases	28	0.3	2.8
54 Atherosclerotic cardiovascular disease, so described	225	2.5	22.6
55 All other forms of chronic ischemic heart disease	697	7.7	70.1
56 Acute and subacute endocarditis	3	0.0	0.3
57 Diseases of pericardium and acute myocarditis	4	0.0	0.4
58 Heart failure	308	3.4	31.0
59 All other forms of heart disease	292	3.2	29.4
60 Essential (primary) hypertension and hypertensive renal disease	86	0.9	8.6
61 Cerebrovascular diseases	592	6.0	59.4
62 Atherosclerosis	21	0.2	2.1
63 Aortic aneurysm and dissection	68	0.7	6.8
64 Other diseases of arteries, arterioles and capillaries	26	0.3	2.6
65 Other disorders of circulatory system	8	0.1	0.8
66 Influenza	6	0.1	0.6
67 Pneumonia	247	2.7	24.8
68 Acute bronchitis and bronchiolitis	1	0.0	0.1
69 Unspecified acute lower respiratory infection	9	0.1	0.9
70 Bronchitis, chronic and unspecified	5	0.1	0.5
71 Emphysema	35	0.4	3.5
72 Asthma	0	0.0	0.0
73 Other chronic lower respiratory diseases	371	3.7	37.2
74 Pneumoconioses and chemical effects	1	0.0	0.1
75 Pneumonitis due to solids and liquids	36	0.4	3.6
76 Other diseases of respiratory system	121	1.2	12.1

Table 8. Number of Deaths by Cause Occurring in Saskatchewan in 2007

	<u>Deaths</u>	<u>Percent</u>	<u>Rate*</u>
77 Peptic ulcer	20	0.2	2.0
78 Diseases of appendix	3	0.0	0.3
79 Hernia	13	0.1	1.3
80 Alcoholic liver disease	46	0.5	4.6
81 Other chronic liver disease and cirrhosis	33	0.3	3.3
82 Cholelithiasis and other disorders of gallbladder	13	0.1	1.3
83 Acute and rapidly progressive nephritic and nephrotic syndrome	0	0.0	0.0
84 Chronic glomerulonephritis, nephritis & nephritis not specified as acute or chronic and renal sclerosis unspecified	9	0.1	0.9
85 Renal failure	205	2.1	20.6
86 Other disorders of kidney	0	0.0	0.0
87 Infections of kidney	1	0.0	0.1
88 Hyperplasia of prostate	6	0.1	0.6
89 Inflammatory diseases of female pelvic organs	1	0.0	0.1
90 Pregnancy with abortive outcome	1	0.0	0.1
91 Other complications of pregnancy, childbirth and the puerperium	2	0.0	0.2
92 Certain conditions originating in the perinatal period	34	0.3	3.4
93 Congenital malformations, deformations and chromosomal abnormalities	30	0.3	3.0
94 Symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified	113	1.2	11.4
95 All other diseases (Residual)	1001	11.0	100.7
96 Motor vehicle accidents	148	1.6	14.9
97 Other land transport accidents	0	0.0	0.0
98 Water, air and space, and other and unspecified transport accidents	6	0.1	0.6
99 Falls	94	.9	9.4
100 Accidental discharge of firearms	1	0.0	0.1
101 Accidental drowning and submersion	6	0.1	0.6
102 Accidental exposure to smoke, fire and flames	9	0.1	0.9
103 Accidental poisoning and exposure to noxious substances	47	0.5	4.7

Table 8. Number of Deaths by Cause Occurring in Saskatchewan in 2007

	<u>Deaths</u>	<u>Percent</u>	<u>Rate*</u>
104 Other and unspecified nontransport accidents and their sequelae	62	0.7	6.2
105 Intentional self-harm (suicide) by discharge of firearms	28	0.9	2.8
106 Intentional self-harm (suicide) by other and unspecified means and their sequelae	98	1.1	9.9
107 Assault (homicide) by discharge of firearms	4	0.0	0.4
108 Assault (homicide) by other and unspecified means and their sequelae	18	0.2	1.8
109 Legal intervention	0	0.0	0.0
110 Discharge of firearms, undetermined intent	0	0.0	0.0
111 Other and unspecified events of undetermined intent and their sequelae	11	0.1	1.1
112 Operations of war and their sequelae	0	0.0	0
113 Complications of medical and surgical care	17	0.2	1.7
900 Not yet classified at time of printing	145	1.6	14.6

*Crude Rate per 100,000 population (Statistics Canada Population Base)

Accidents and Violence

During the year 2007 a total of 373 deaths due to accidents occurred in the province of Saskatchewan. This represents a crude rate of 37.4 deaths by accidents per 100,000 population in 2007. This is lower than the 428 deaths (43.4 crude rate per 100,000 population) recorded in 2006.

Accidents and Violence

The number of suicides that occurred in Saskatchewan during 2007 was 126. This represents a crude rate of 12.6 suicides per 100,000 population. This is slightly higher than the 105 suicides (10.6 crude rate per 100,000 population) recorded in 2006.

There were 22 homicides in Saskatchewan in 2007. This is lower than the 40 homicides reported in 2006.

D. Natural Increase in Population

In 2007, the natural increase was 3,536 and the estimated actual increase was 11,483 giving rates per 1,000 population of 3.5 and 11.5 respectively.

Table 9. Natural Increase and Actual Increase, Saskatchewan, 2001– 2007

<u>Year</u>	<u>Population</u>	<u>Live Births</u>	<u>Deaths</u>	<u>Natural Increase</u>		<u>Est. Actual Increase</u>	
				<u>Number</u>	<u>Rate per 1,000 Pop.</u>	<u>Number</u>	<u>Rate per 1,000 Pop.</u>
2002*	995,886	11,760	8,906	2,854	2.9	-4,248	-4.3
2003*	994,732	12,038	9,007	3,031	3.0	-1,154	-1.2
2004*	994,888	11,983	8,845	3,138	3.2	156	0.0
2005*	989,957	12,104	8,845	3,259	3.3	-4,931	-5.0
2006	985,386	12,427	9,100	3,327	3.4	-4,571	-4.6
2007*	996,869	13,437	9,901	3,536	3.5	11,483	11.5

* Statistics Canada postcensal estimate. All other figures are final census.

Note: Saskatchewan's covered population on June 30, 2007 (per the provincial health registry) was 1,013,836

E. Marriages

During the year 2007, a total of 5,235 marriages were solemnized in Saskatchewan.

This total represents a crude rate of 5.2 marriages per 1,000 population. Marriage rates for Canada, the provinces, and Saskatchewan for 2005 are given in Table 10.

Of the 5,235 marriages registered in Saskatchewan in 2007, 26 of those marriages were between same sex partners.

Table 10. Marriages Rate per 1,000 Population, Canada and the Provinces, 2005

Province	Rate*
Canada	4.6
Newfoundland & Labrador	5.5
Prince Edward Island	6.0
Nova Scotia	5.0
New Brunswick	4.9
Quebec	2.9
Ontario	5.1
Manitoba	4.9
Saskatchewan	5.1
Alberta	5.4
British Columbia	5.2
Yukon	5.1
Northwest Territories	3.3
Nunavut	2.2

*Preliminary – Statistics Canada

F. Divorces

In 2007, a total of 1,832 divorces were registered in Saskatchewan at the time of publication. This may not represent the total number of petitions filed in 2007 as some petitions may not yet be finalized.

G. Adoptions

There were 140 adoptions registered in Saskatchewan during 2007, compared to 136 adoptions in 2006. The total of 140 adoptions registered includes out-of-province adoptions of persons born in Saskatchewan as well as adoptions in Saskatchewan of persons born elsewhere.

H. Legal Changes of Name

During 2007, a total of 813 legal change of name applications were registered in Saskatchewan. This represents a slight increase from the 809 change of name applications that were registered in 2006. The number of applications does not reflect the number of persons who changed their name as each application may affect more than one person and in some cases, an entire family.

I. Documents Issued

Table 11. Documents Issued 2004 – 2007

Document type	2004	2005	2006	2007
Birth Certificates	47,853	47,317	49,774	59,378
Marriage Certificates	5,090	5,500	5,331	5,879
Death Certificates	5,674	4,840	4,914	5,177
Copies of Registrations	9,539	9,058	9,075	9,261
Total	68,156	66,715	69,094	79,695