

## Definition/Description:

### Injury Deaths

Defined as deaths that resulted from an injury as indicated by the presence of one of the ICD-9 E-codes (E800-E999) in records in the Vital Statistics Death Database. "All Injury" (ICD-9 codes: E800-869.9, E880-929.9, and E950-E999.9) is used in this report as the summary measure of injury in the Winnipeg Health Region (WHR). Health Canada, the United States Centers for Disease Control and the International Collaborative Effort on Injury (ICE on Injury) have recommended the use of All Injury instead of all external causes of injury (i.e. ICD-9 E800-E999.9) when examining injury data for injury prevention and control. It should be noted that injuries due to Adverse Events are excluded from the All Injury definition. Counts, crude rates and PYLL are reported for *All Injury* death for the WHR.

All Injury can be divided into five intent-manner categories: *Unintentional, Self-inflicted, Assault, Undetermined, and Other Violence*, based upon the "injury matrix".<sup>1</sup> Counts, crude rates and PYLL are reported for all five intent-manner categories for the WHR. Note that the total of these five intent-manner categories results in *All Injury*.

The following data is presented in this indicator:

1. Table of Injury Deaths by Manner/ Intent in the WHR for Both Sexes, All Ages, 1990-1994 and 1995-1999
2. Table of Injury Deaths by Manner/ Intent in the WHR for Females, All Ages, 1990-1994 and 1995-1999
3. Table of Injury Deaths by Manner/ Intent in the WHR for Males, All Ages, 1990-1994 and 1995-1999
4. Chart of All Injury Crude Rates of Death in the WHR by CA, 1990-1994 and 1995-1999
5. Chart of All Injury Age-adjusted Rates of Death in the WHR by Community Area, 1990-1994 and 1995-1999
6. Chart of Unintentional Injury Crude Rate of Deaths in the WHR by Community Area, 1990-1994 and 1995-1999
7. Chart of Unintentional Injury Age-adjusted Rates of Death in the WHR by Community Area, 1990-1994 and 1995-1999
8. Chart of Self-inflicted Injury Crude Rates of Death in the WHR by Community Area, 1990-1994 and 1995-1999
9. Chart of Self-inflicted Injury Age-adjusted Rates of Death in the WHR by Community Area, 1990-1994 and 1995-1999
10. Table of Injury Deaths in the WHR by Community Area: Counts, Crude Death Rates and Age-Adjusted Death Rates, 1990-1994
11. Table of Injury Deaths in the WHR by Community Area: Counts, Crude Death Rates and Age-Adjusted Death Rates, 1995-1999
12. Table of Injury in the WHR by CA: Counts and Age-specific Rates of Death, 1990-1999
13. Chart of Injury Deaths: Per cent Distribution of Intent/Manner Categories Among Age Groups, WHR, 1990-1999
14. Table of Injury Matrix: Injury Death for Residents of the Winnipeg Health Region, 1990-1999

### Potential Years of Life Lost for Injury Death

Potential Years of Life Lost (PYLL), is a measure of premature mortality, which gives greater weight to deaths occurring at a younger age than to those at later ages. Statistics Canada defines PYLL (under age 75) as "the number of years of life 'lost' when a person dies 'prematurely' - before age 75." For this report, PYLL was calculated as (age at time of death-75).

Note that all rates provided in this indicator are *per 100 000 population*.

## Method

Ten calendar years of death data from the Vital Statistics Death Database were used, from January 1, 1990 to December 31, 1999. These were divided into two time periods for comparison: January 1, 1990 -December 31, 1994 and January 1, 1995-December 31, 1999. Residents of the WHR who died as a result of an injury (as indicated by an ICD-9 E-code) were included in this analysis.

Injury deaths were sorted into five intent-manner categories by cause/mechanism using the Injury Matrix recommended by Health Canada. This was originally developed by the United States Centers for Disease Control and ICE on Injury (International Collaborative Effort on Injury).<sup>1</sup> It should be noted that Health Canada is represented in ICE on Injury. The injury matrix used was modified by Health Canada in order to monitor injuries of interest to the Canadian population.<sup>2</sup>

Five-year rates were calculated by using the number of injury hospitalization events (using the above definitions) as the numerator. The denominator was the WHR population for each five-year period (corresponding to the years of the numerator data) to produce a rate per 100,000 population. The regional rates reported here are crude rates.

For each of the twelve community areas, the counts, crude rates and age-adjusted rates of injury deaths for the five intent-manner categories are presented. Age-standardization of the rates for community areas was done using the direct method of standardization.

At the regional-level, age-group-specific rates of injury deaths for both sexes were calculated for the entire time period of interest, 1990-1999. Only the counts and age-group-specific rates from the five intent-manner categories are reported. A per cent distribution of the five intent-manner categories for injury deaths for each age-group was calculated with the count for All Injury as the denominator.

Unintentional Injury was also examined at the regional level by cause (or mechanism) using the Injury Matrix in order to determine leading causes of unintentional injury in the health region. This is reported in the indicator: Leading Causes of Unintentional Injury Deaths (Indicator #10).

Table of Injury Groupings by Intent/Manner		
Intent/Manner	ICD9 E-Code	Description
Unintentional	E800.0-E869.9, E880-E929.9	Unintentional injuries of various causes/mechanisms. Includes mechanisms such as: motor vehicle traffic, cut/pierce, drowning, fall, poisoning, suffocation, firearms, fire/burn and natural/environmental factors.
Self-inflicted	E950.0-E959	Intentional self-harm (including suicide). The following mechanisms are included: cut/pierce, drowning, fall, poisoning, suffocation, firearms, fire/burn.
Assault	E960.0-E969	Intentional harm by others. Includes mechanisms such as: cut/pierce, firearm, fire/burn, struck by, against, child maltreatment.
Undetermined	E980.0-E989	Unable to determine the Manner/Intent of the injury as either unintentional or intentional. Examples of mechanisms include: drowning, fire/burn, poisoning, suffocation.
Other Violence	E970-E978, E990-E999	This includes injuries caused by legal intervention, and operations of war. Includes military personnel and civilians.
All Injury	E800-E999, excluding E870.0-E879.9, E930.0-E949.9	This is the sum of the above five intent/manner categories. Note that Adverse events are excluded.

<sup>1</sup> Centers for Disease Control and Prevention. (1997) Recommended framework for presenting injury mortality data. MMWR;46 (No.RR-14).

<sup>2</sup> Information available on-line: [http://dsol-smed.hc-sc.gc.ca/dsol-smed/is-sb/icd9sup\\_e.html](http://dsol-smed.hc-sc.gc.ca/dsol-smed/is-sb/icd9sup_e.html)

**Source:**

The death data used in this report was obtained from Vital Statistics Agency, Consumer and Corporate Affairs, Manitoba Finance and Manitoba Bureau of Statistics, Government of Manitoba. All numerical values, tables, and figures (including spatial analyses) were generated by the Population Health and Health System Analysis Unit, Winnipeg Regional Health Authority.

For further information, a comprehensive Mortality Report, Winnipeg Regional Health Authority, 2004, can be found at

<http://www.wrha.mb.ca/howcare/decsup/files/population/WRHAMortalityReport2004.pdf>

The **Findings** section for this indicator begins on the following page.

**Findings:****Injury Deaths by Manner/ Intent in the Winnipeg Health Region for Both Sexes, All Ages  
1990-1994 and 1995-1999**

Manner/Intent	1990-1994				1995-1999			
	Number of Deaths	Crude Rate per 100,000	Per cent of All Injury	PYLL	Number of Deaths	Crude Rate per 100,000	Per cent of All Injury	PYLL
<b>Unintentional</b>	586	18.3	57.7%	14881	763	23.9	59.2%	13105
<b>Self-inflicted</b>	331	10.3	32.6%	10977	344	10.8	26.7%	10638
<b>Assault</b>	54	1.7	5.3%	2371	80	2.5	6.2%	3151
<b>Undetermined</b>	44	1.4	4.3%	1308	100	3.1	7.8%	3130
<b>Other Violence</b>	0	0.0	0.000	0.000	1	0.0	0.1%	0
<b>All Injury</b>	<b>1015</b>	<b>31.7</b>	<b>100.0%</b>	<b>29536</b>	<b>1288</b>	<b>40.3</b>	<b>100.0%</b>	<b>30024</b>

**Injury Deaths by Manner/ Intent in the Winnipeg Health Region for Females, All Ages  
1990-1994 and 1995-1999**

Manner/Intent	1990-1994				1995-1999			
	Number of Deaths	Crude Rate per 100,000	Per cent of All Injury	PYLL	Number of Deaths	Crude Rate per 100,000	Per cent of All Injury	PYLL
<b>Unintentional</b>	210	12.7	63.3%	4083	336	20.4	68.3%	3902
<b>Self-inflicted</b>	81	4.9	24.4%	2674	94	5.7	19.1%	2913
<b>Assault</b>	26	1.6	7.8%	1223	26	1.6	5.3%	1224
<b>Undetermined</b>	15	0.9	4.5%	390	36	2.2	7.3%	1045
<b>Other Violence</b>	0	0.0	0.000	0.000	0	0.0	0.0%	0
<b>All Injury</b>	<b>332</b>	<b>20.2</b>	<b>100.0%</b>	<b>8370</b>	<b>492</b>	<b>29.9</b>	<b>100.0%</b>	<b>9084</b>

**Injury Deaths by Manner/ Intent in the Winnipeg Health Region for Males, All Ages  
1990-1994 and 1995-1999**

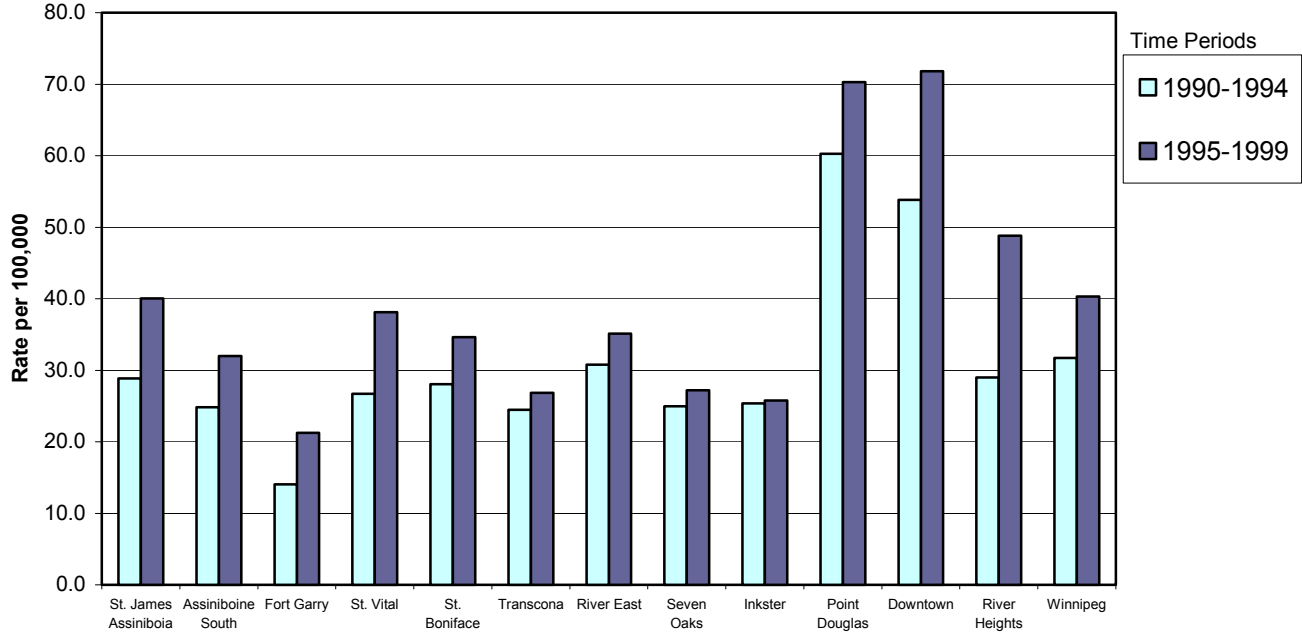
Manner/Intent	1990-1994				1995-1999			
	Number of Deaths	Crude Rate per 100,000	Per cent of All Injury	PYLL	Number of Deaths	Crude Rate per 100,000	Per cent of All Injury	PYLL
<b>Unintentional</b>	376	24.2	55.1%	10797	427	27.5	53.6%	9203
<b>Self-inflicted</b>	250	16.1	36.6%	8303	250	16.1	31.4%	7725
<b>Assault</b>	28	1.8	4.1%	1148	54	3.5	6.8%	1927
<b>Undetermined</b>	29	1.9	4.2%	918	64	4.1	8.0%	2085
<b>Other Violence</b>	0	0.0	0.000	0.000	1	0.1	0.1%	0
<b>All Injury</b>	<b>683</b>	<b>44.0</b>	<b>100.0%</b>	<b>21166</b>	<b>796</b>	<b>51.4</b>	<b>100.0%</b>	<b>20940</b>

## Notes:

- All rates are per 100 000 population.

### All Injury, Crude Rates of Death by Community Area

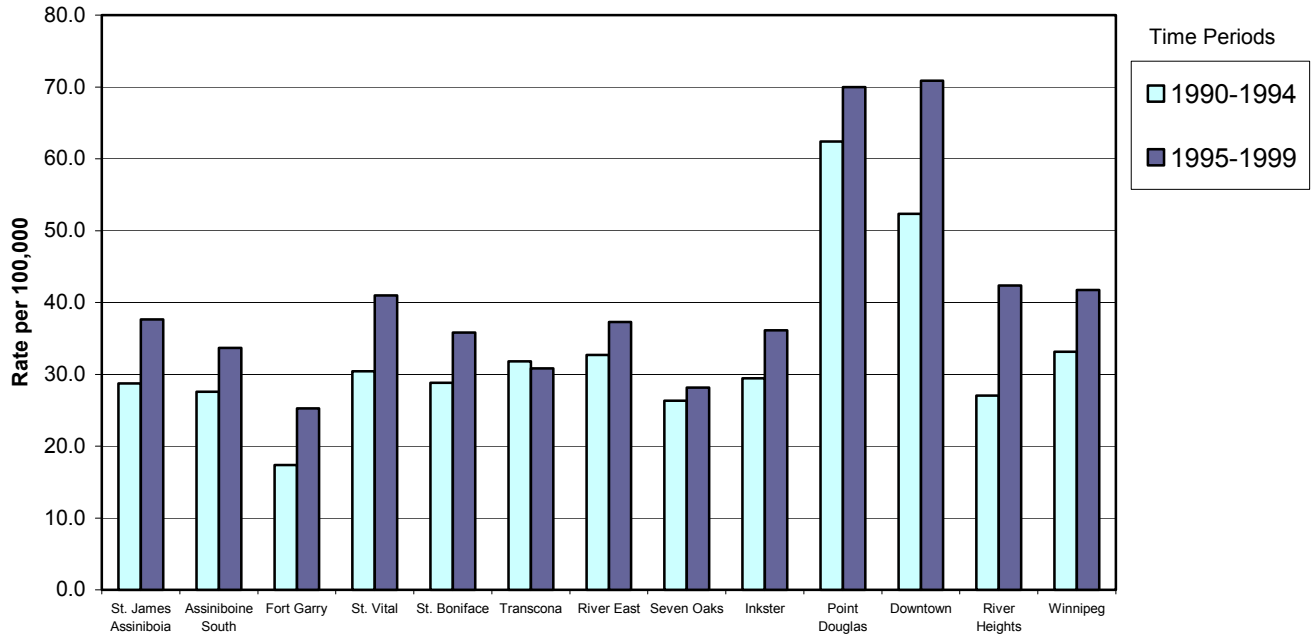
Crude rates of All Injury\* death per 100,000 population; 1990-1994 and 1995-1999



\*All Injury includes unintentional, self-inflicted, assault, undetermined, and other violence. It excludes injuries due to adverse events in medical care.

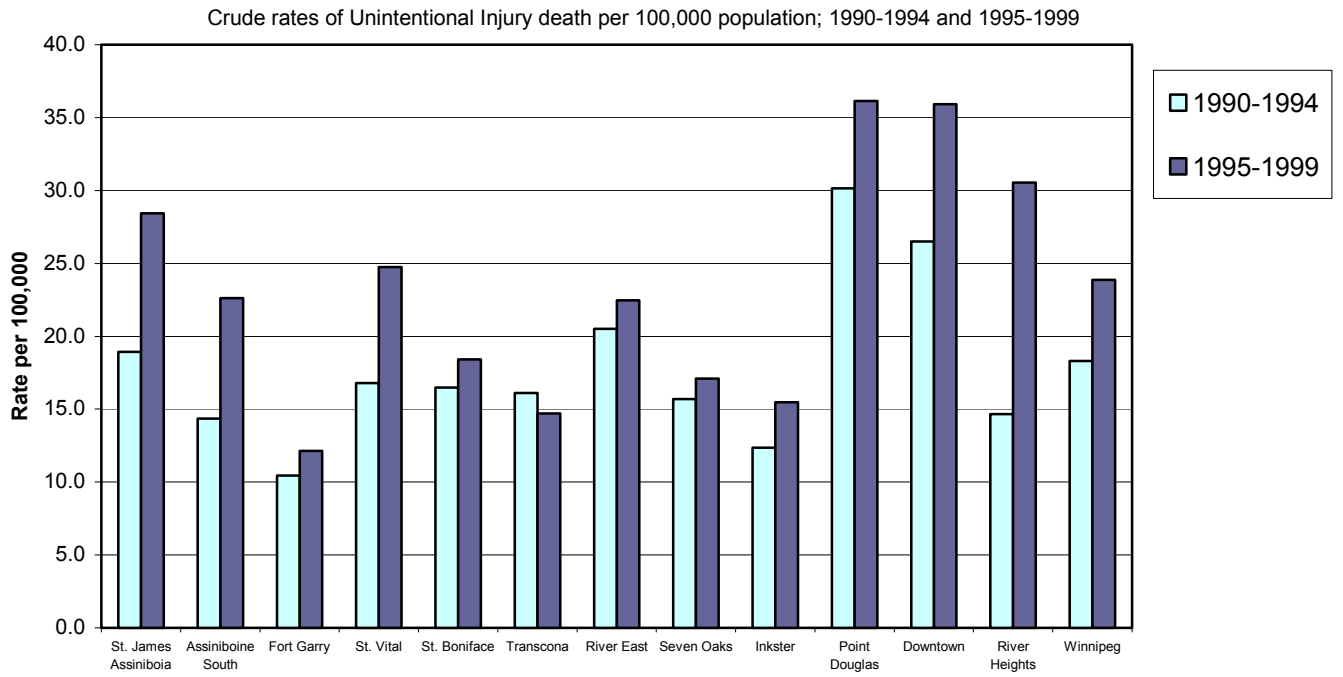
### All Injury, Age-adjusted Rates of Death by Community Area

Age-adjusted rates of All Injury\* death per 100,000 population; 1990-1994 and 1995-1999

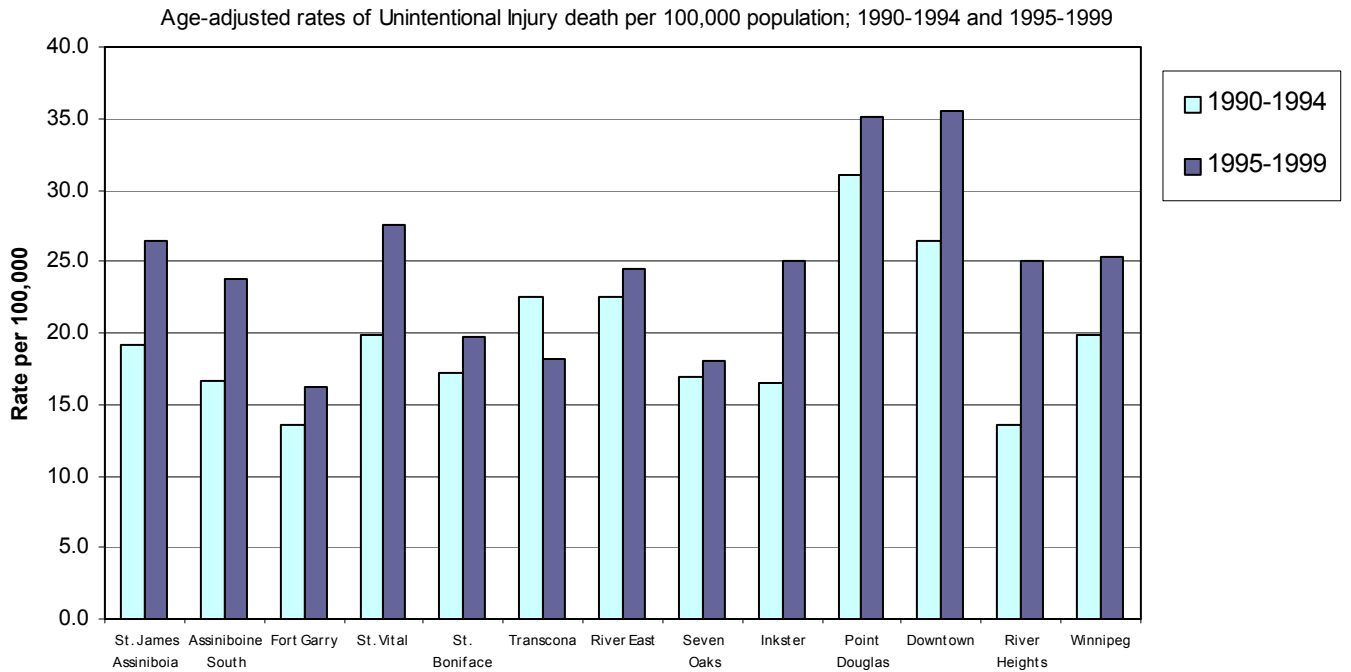


\*All Injury includes unintentional, self-inflicted, assault, undetermined, and other violence. It excludes injuries due to adverse events in medical care.

**Unintentional Injury, Crude Rates of Death by Community Area**

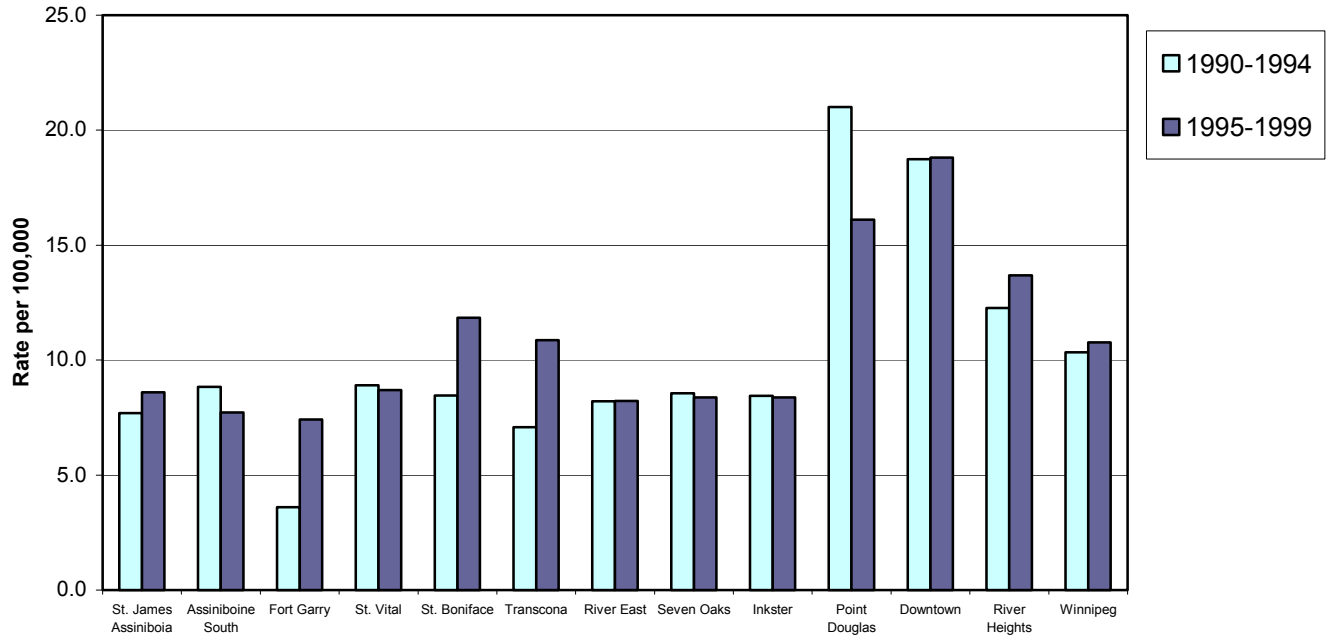


**Unintentional Injury, Age-adjusted Rates of Death by Community Area**



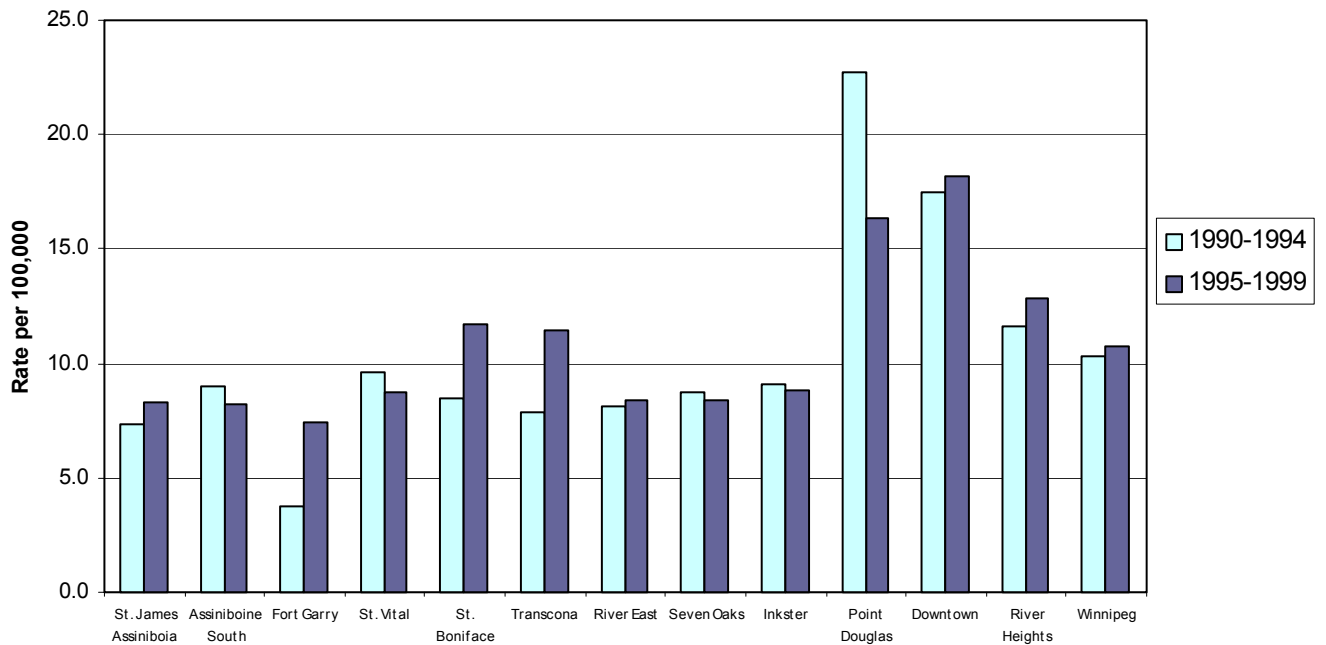
**Self-inflicted Injury, Crude Rates of Death by Community Area**

Crude rates of Self-inflicted Injury death per 100,000 population; 1990-1994 and 1995-1999



**Self-inflicted Injury, Age-adjusted Rates of Death by Community Area**

Age-adjusted rates of Self-inflicted Injury death per 100,000 population; 1990-1994 and 1995-1999



**Injury Deaths in the Winnipeg Health Region by Community Area: Counts, Crude Death Rates and Age-Adjusted Death Rates, 1990-1994**

Community Area	Unintentional			Self-inflicted			Assault			Undetermined			All Injury <sup>1</sup>		
	Count	Crude rate per 100,000	Age-adjusted rate per 100,000	Count	Crude rate per 100,000	Age-adjusted rate per 100,000	Count	Crude rate per 100,000	Age-adjusted rate per 100,000	Count	Crude rate per 100,000	Age-adjusted rate per 100,000	Count	Crude rate per 100,000	Age-adjusted rate per 100,000
St. James Assiniboia	59	18.9	19.1	24	7.7	7.4	*	1.3	1.3	*	1.0	1.0	90	28.9	28.8
Assiniboine South	26	14.4	16.7	16	8.8	9.0	*	1.7	1.8	0	0.0	0.0	45	24.9	27.6
Fort Garry	29	10.4	13.6	10	3.6	3.8	0	0.0	0.0	0	0.0	0.0	39	14.0	17.4
St. Vital	49	16.8	19.9	26	8.9	9.6	*	0.3	0.3	*	0.7	0.6	78	26.7	30.5
St. Boniface	37	16.5	17.3	19	8.5	8.5	*	1.3	1.2	*	1.8	1.8	63	28.0	28.8
Transcona	25	16.1	22.5	11	7.1	7.9	0	0.0	0.0	*	1.3	1.4	38	24.5	31.8
River East	90	20.5	22.6	36	8.2	8.1	*	0.5	0.4	7	1.6	1.6	135	30.8	32.7
Seven Oaks	44	15.7	17.0	24	8.6	8.7	*	0.4	0.3	*	0.4	0.3	70	25.0	26.3
Inkster	19	12.4	16.6	13	8.5	9.1	6	3.9	3.3	*	0.7	0.6	39	25.4	29.4
Point Douglas	66	30.1	31.2	46	21.0	22.8	9	4.1	4.0	11	5.0	4.6	132	60.3	62.6
Downtown	99	26.5	26.6	70	18.7	17.5	19	5.1	4.7	13	3.5	3.7	201	53.8	52.5
River Heights	43	14.7	13.6	36	12.3	11.7	6	2.0	1.9	0	0.0	0.0	85	29.0	27.1
Winnipeg	586	18.3	19.8	331	10.3	10.3	54	1.7	1.6	44	1.4	1.4	1015	31.7	33.2

Notes:

- Indicates that the value has been suppressed due to a cell count of less than five (5).
- All rates are per 100 000 population.



### Injury Deaths in the Winnipeg Health Region by Community Area: Counts, Crude Death Rates and Age-Adjusted Death Rates, 1995-1999

Community Area	Unintentional			Self-inflicted			Assault			Undetermined			All Injury <sup>1</sup>		
	Count	Crude rate per 100,000	Age-adjusted rate per 100,000	Count	Crude rate per 100,000	Age-adjusted rate per 100,000	Count	Crude rate per 100,000	Age-adjusted rate per 100,000	Count	Crude rate per 100,000	Age-adjusted rate per 100,000	Count	Crude rate per 100,000	Age-adjusted rate per 100,000
St. James Assiniboia	86	28.4	26.4	26	8.6	8.3	*	0.7	0.6	7	2.3	2.3	121	40.0	37.6
Assiniboine South	41	22.6	23.7	14	7.7	8.2	*	0.6	0.5	*	0.6	0.5	58	32.0	33.5
Fort Garry	36	12.1	16.2	22	7.4	7.4	*	1.3	1.3	*	0.3	0.4	63	21.2	25.3
St. Vital	74	24.7	27.6	26	8.7	8.8	6	2.0	2.0	8	2.7	2.6	114	38.1	41.0
St. Boniface	42	18.4	19.8	27	11.8	11.7	*	0.9	0.9	8	3.5	3.5	79	34.6	35.9
Transcona	23	14.7	18.2	17	10.9	11.4	0	0.0	0.0	*	1.3	1.1	42	26.9	30.8
River East	101	22.5	24.5	37	8.2	8.3	9	2.0	2.0	11	2.4	2.4	158	35.1	37.3
Seven Oaks	49	17.1	18.0	24	8.4	8.4	*	1.0	1.1	*	0.7	0.7	78	27.2	28.1
Inkster	24	15.5	25.1	13	8.4	8.8	*	1.9	2.3	0	0.0	0.0	40	25.8	36.1
Point Douglas	74	36.1	35.1	33	16.1	16.4	17	8.3	8.3	20	9.8	10.2	144	70.3	70.0
Downtown	126	35.9	35.5	66	18.8	18.2	31	8.8	8.8	29	8.3	8.5	252	71.8	71.1
River Heights	87	30.5	25.0	39	13.7	12.8	*	0.7	0.7	11	3.9	3.8	139	48.8	42.4
Winnipeg	763	23.9	25.3	344	10.8	10.8	80	2.5	2.5	100	3.1	3.1	1288	40.3	41.7

## Notes:

- Indicates that the value has been suppressed due to a cell count of less than five (5).
- All rates are per 100 000 population.



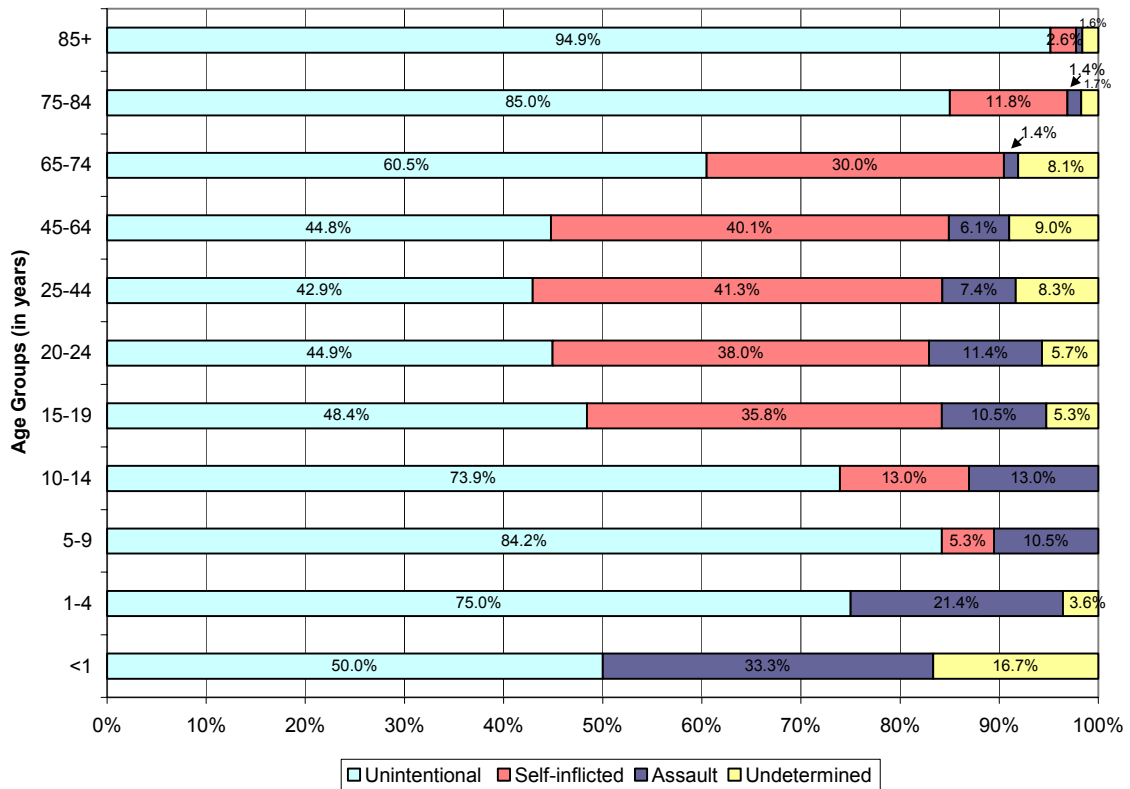
**Injury Deaths in the Winnipeg Health Region: Counts by Age Group and Age-specific Rates of Death, 1990-1999**

Age Group	Unintentional		Self-inflicted		Assault		Undetermined		All Injury	
	Count	Rate per 100,000	Count	Rate per 100,000	Count	Rate per 100,000	Count	Rate per 100,000	Count	Rate per 100,000
<1	9	10.4	0	0.0	6	6.9	*	*	18	20.8
1-4	21	6.0	0	0.0	6	1.7	*	*	28	7.9
5-9	16	3.7	*	*	*	*	0	0.0	19	4.4
10-14	17	4.2	*	*	3	0.7	0	0.0	23	5.7
15-19	46	11.1	34	8.2	10	2.4	5	1.2	95	23.0
20-24	71	15.1	60	12.8	18	3.8	9	1.9	158	33.6
25-44	319	15.0	307	14.5	55	2.6	62	2.9	743	35.0
45-64	184	14.5	165	13.0	25	2.0	37	2.9	411	32.4
65-74	127	27.1	63	13.5	*	*	17	3.6	210	44.9
75-84	244	84.5	34	11.8	*	*	5	1.7	287	99.3
85+	295	323.9	8	8.8	*	*	5	5.5	311	341.5

Notes:

- Indicates that the value has been suppressed due to a cell count of less than five (5).
- All rates are per 100 000 population.

**Injury Deaths: Per cent Distribution of Intent/Manner Categories Among Age Groups in the Winnipeg Health Region, 1990-1999**



**Injury Matrix: Injury Death for Residents of the Winnipeg Health Region, 1990-1999**

Mechanism or Cause	Manner or Intent											
	Unintentional		Self-inflicted		Assault		Undetermined		Other Violence		Total	
	Counts	Rate per 100,000	Counts	Rate per 100,000	Counts	Rate per 100,000	Counts	Rate per 100,000	Counts	Rate per 100,000	Counts	Rate per 100,000
Cut/pierce	1	0.02	13	0.20	49	0.77	0	0.00	0	0.00	63	0.98
Drowning/submersion	76	1.19	17	0.27	0	0.00	10	0.16			103	1.61
Fall	398	6.22	24	0.38	0	0.00	4	0.06			426	6.66
Fire/burn	70	1.09	4	0.06	1	0.02	1	0.02			76	1.19
Fire/flame	63	0.98	4	0.06	1	0.02	1	0.02			69	1.08
Private home conflagration	58	0.91									58	0.91
Ignition of clothing	1	0.02									1	0.02
Hot object/substance	7	0.11	0	0.00	0	0.00	0	0.00			7	0.11
Firearm	7	0.11	109	1.70	18	0.28	4	0.06	0	0.00	138	2.16
Machinery	6	0.09									6	0.09
Agricultural machines	3	0.05									3	0.05
Motor vehicle traffic	354	5.53	2	0.03	0	0.00	0	0.00			356	5.56
Occupant	102	1.59									102	1.59
Motorcyclist	12	0.19									12	0.19
Pedal cyclist	10	0.16									10	0.16
Pedestrian	77	1.20									77	1.20
Unspecified	151	2.36									151	2.36
Pedal cyclist, other	0	0.00									0	0.00
Pedestrian, other	5	0.08									5	0.08
Transport, other	32	0.50	0	0.00			0	0.00			32	0.50
Snowmobile	15	0.23									15	0.23
Other off-road vehicle	2	0.03									2	0.03
Water transport, ex. Drowning	0	0.00									0	0.00
Air & space transport	8	0.13									8	0.13
Natural/environmental	27	0.42	0	0.00			0	0.00			27	0.42
Excessive cold	22	0.34	0	0.00			0	0.00			22	0.34
Bites and stings	1	0.02									1	0.02
Overexertion	0	0.00									0	0.00
Poisoning	96	1.50	231	3.61	1	0.02	111	1.74	0	0.00	439	6.86
Medication	55	0.86	117	1.83	0	0.00	70	1.09			242	3.78
Alcohol	18	0.28									18	0.28
Motor vehicle exhaust	8	0.13	77	1.20			17	0.27			102	1.59
Other carbon monoxide	11	0.17	25	0.39			2	0.03			38	0.59
Struck by, against	9	0.14			18	0.28			0	0.00	27	0.42
Suffocation	78	1.22	257	4.02	4	0.06	8	0.13			347	5.42
Choking on food	27	0.42									27	0.42
Choking, non-food	17	0.27									17	0.27
Suffocation, plastic bag	0	0.00	5	0.08							5	0.08
Suffocation in bed or cradle	6	0.09									6	0.09
Hanging ex in bed or cradle	15	0.23	250	3.91	4	0.06	4	0.06			273	4.27
Other specified, classifiable	17	0.27	9	0.14	10	0.16	0	0.00	0	0.00	36	0.56
Child maltreatment					9	0.14					9	0.14
Other specified, NEC	2	0.03	4	0.06	8	0.13	4	0.06	1	0.02	19	0.30
Unspecified	171	2.67	5	0.08	25	0.39	2	0.03	0	0.00	203	3.17
Fracture, cause unspecified	138	2.16									138	2.16
<b>All injury</b>	<b>1349</b>	<b>21.09</b>	<b>675</b>	<b>10.55</b>	<b>134</b>	<b>2.09</b>	<b>144</b>	<b>2.25</b>	<b>1</b>	<b>0.02</b>	<b>2303</b>	<b>36.00</b>

■ = no applicable E-code(s)

## Highlights:

**Note:** Only the crude rates are referred to in this narrative. The rationale for this is that there was very little difference between the crude and age-adjusted rate for each community area and for the region. For comparison purposes, both crude and age-adjusted rates are shown in the Findings section.

### Regional (WHR) Rates:

- There was an overall increase in the All Injury mortality crude rate in the WHR between the time periods of 1990-1995 ( $t_1$ ) and 1996-1999 ( $t_2$ ).
- The WHR All Injury mortality rate increased from 31.7 per 100 000 population to 40.3 per 100 000 population; an increase of 27%.
- The All Injury mortality rate for females increased substantially between  $t_1$  and  $t_2$ , where the increase for that of males was not as great.
- Unintentional Injury accounts for 59.2% of all injury deaths; for females Unintentional Injury accounts for 68.3% and for males 53.6% (using  $t_2$  data).
- The Unintentional Injury mortality rate has increased between  $t_1$  and  $t_2$ .
- The *Self-inflicted Injury* mortality rates and *Assault injury* mortality rates increased over the two time periods.
- Males had higher rates of *Self-inflicted* mortality than females; the rate for males remained the same while that for females increased.

### Community Area Rates:

- The lowest rates of *All Injury Death* were found in the Fort Garry community area for both time periods.
- The highest rates were found in community areas Point Douglas for  $t_1$  and the Downtown in  $t_2$ .
- The following community areas had *All Injury Mortality* rates that were higher than that of the WHR (in  $t_2$ ): Point Douglas, Downtown, and River Heights. However, after adjusting the rates for the underlying age distribution of the population, only Point Douglas and Downtown have rates that remain higher than that of the adjusted WHR rate.
- The lowest rates of *Unintentional Injury Death* were found in the Fort Garry community area for both time periods.
- The highest rates of *Unintentional Injury Death* were found in community areas Point Douglas and Downtown in both time periods.
- The lowest rates of *Self-inflicted Injury Death (suicide)* were found in the Fort Garry community area for both time periods.
- The highest rates were found in community area Point Douglas for  $t_1$  and the Downtown in  $t_2$ .

### Injuries by Age Group:

#### Children (under 1, 1-4, 5-9, 10-14 year-olds)

- 88 children died as a result of injuries in the period of 1990-1999.
- Unintentional injury makes up the greatest percentage of injuries experienced by children

#### Youth

##### 15-19 year-olds

- 95 youth died as a result of injuries in the period of 1990-1999.
- Almost half of injury deaths are due to *Unintentional Injury* and *Self-inflicted Injury* makes-up 35.8% of all injury in the Youth age group.
- *The Self-inflicted Injury* (suicide) rate is 8.2 per 100 000 population for this age group.

##### 20-24 year-olds

- 158 young adults died as a result of injuries in the period of 1990-1999.

- The *All Injury* rate is substantially higher than that of Youth.
- The *Self-inflicted Injury* (suicide) rate is 12.8 per 100 000 population for this age group.

**Adults (25-44 and 45-64 year-olds)**

- 1154 adults died as a result of injuries in the period of 1990-1999.
- The *All Injury* rates for 25-44 year-old Adults is slightly higher than that of Young Adults; for those in the 45-64 age group, the *All Injury* rate decreases slightly, and is lower than that for Young Adults.
- The *Unintentional Injury* makes-up 42.9% of *All Injury* deaths among 25-44 year-olds and 44.8% among 45-64 year-olds.
- The *Self-inflicted Injury* death rate (suicide) appears to peak in the 25-44 age group.

**Seniors (65-74, 75-84, and 85+ year-olds)**

- 808 seniors died as a result of injuries in the period of 1990-1999.
- The highest injury rates are experienced by the elderly in the WHR population: the majority of these deaths are due to *Unintentional Injury*.
- The highest *All Injury* death rate is experienced by the 85+ group: 341.5 per 100 000 population (n=311 injury events); this group also has the highest *Unintentional Injury* rate, at 323.9 per 100 000 population.
- Among those aged 65-74, the *Self-inflicted Injury* death (suicide) rate remains high at 13.5 per 100 000 population; this rate is higher than that for Youth 15-19 years at 8.2 per 100 000 population.