

### **Definition/Description:**

Potential years of life lost (PYLL) is the number of years of life “lost” when a person dies prematurely before age 75. PYLL has been generated by cause of death as well as (overall measure) to better understand premature deaths in the WHR. PYLL have been used as an indicator to measure the impact of premature death, as it compares death occurrence and cause of death. PYLL only considers deaths before age 75 and weights them by age and by cause of death.

One limitation of this indicator is the setting of the arbitrary value of 75. This might give the impression that the younger years of life are more valuable, especially since the life expectancy for both males and females in the WHR exceed this value. PYLL should be interpreted carefully, as the number of PYLL in a disease category may be due to many deaths that occurred later in life (closer to the age of 75); or may be due to fewer deaths that occurred early in life (farther from the age of 75); or may be due to a combination of the above. It is for these reasons that this indicator provides only additional information and should be interpreted along with the information from the other mortality indicators.

### **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>

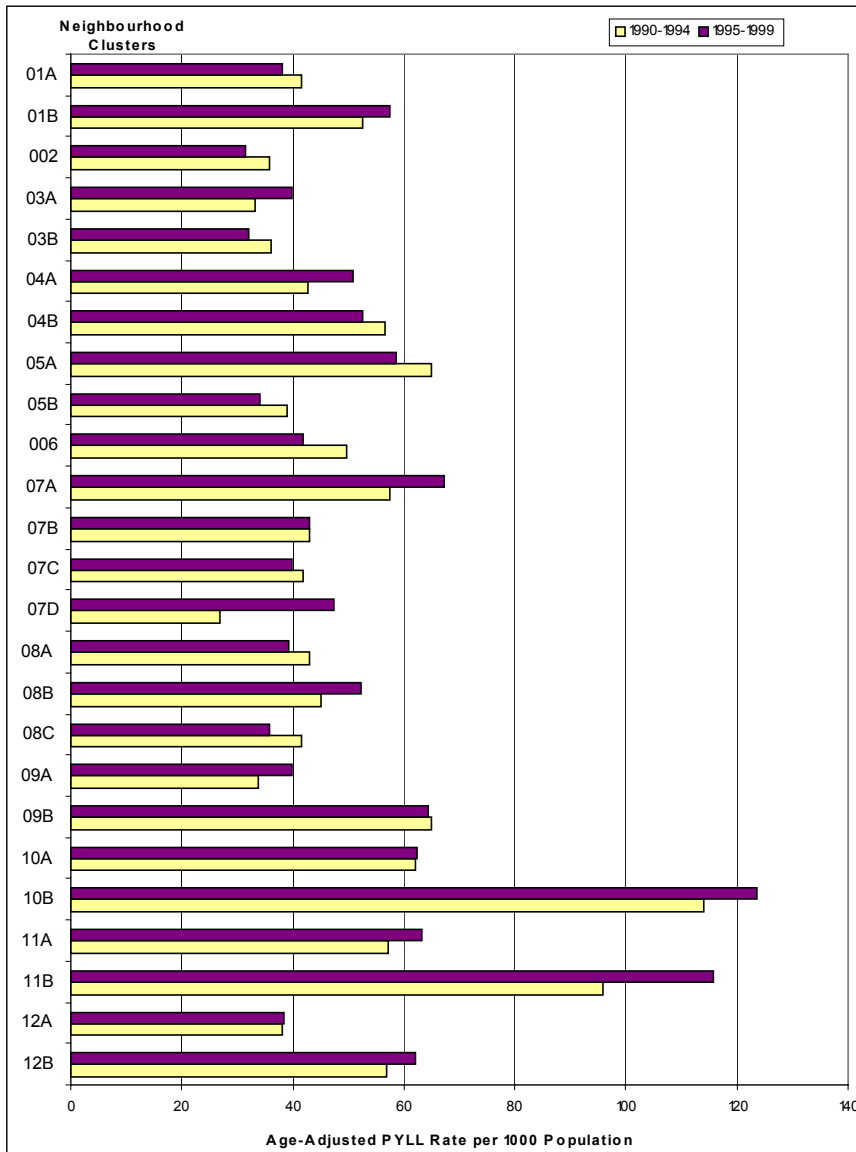
**Findings:****Potential Years of Life Lost in the Winnipeg Health Region by Neighbourhood Cluster and Sex, 1995-1999**

Community Area	Neighbourhood Cluster	Both Sexes			Females			Males		
		PYLL	PYLL Rate per 1000 Population	Age-Adjusted PYLL Rate per 1000 Population	PYLL	PYLL Rate per 1000 Population	Age-Adjusted PYLL Rate per 1000 Population	PYLL	PYLL Rate per 1000 Population	Age-Adjusted PYLL Rate per 1000 Population
St. James-Assiniboia	01A	6952	42.0	38.0	2904	33.8	30.8	4047	50.9	46.2
	01B	7930	58.0	57.5	3268	45.3	46.1	4662	72.2	70.0
Assiniboine South	002	5667	31.3	31.5	2683	28.4	29.3	2984	34.4	33.8
Fort Garry	03A	5067	40.1	39.7	2173	33.2	32.7	2894	47.4	47.0
	03B	5426	31.9	32.0	2538	29.1	29.8	2888	34.8	34.8
St. Vital	04A	7089	51.8	50.7	3269	45.3	45.8	3821	59.1	56.7
	04B	8365	51.6	52.7	3625	43.3	44.1	4740	60.3	62.0
St. Boniface	05A	4455	56.8	58.7	1913	46.0	47.7	2542	68.9	71.7
	05B	5373	35.9	34.1	2312	30.5	28.9	3061	41.5	39.5
Transcona	006	6329	40.5	41.9	2405	30.6	31.3	3924	50.5	52.8
River East	07A	5663	63.5	67.2	2421	53.9	58.2	3242	73.2	76.8
	07B	8612	44.5	42.9	3323	32.3	30.2	5289	58.3	56.6
	07C	5234	38.4	39.8	2265	32.7	33.1	2969	44.3	46.9
	07D	1371	45.3	47.4	623	41.7	51.8	749	48.8	44.1
Seven Oaks	08A	3806	36.5	39.3	1661	31.2	33.3	2146	42.2	45.4
	08B	8639	53.0	52.1	3930	45.8	45.5	4709	60.9	59.9
	08C	747	38.4	35.8	346	34.9	35.7	401	42.0	36.4
Inkster	09A	3190	36.5	39.9	1443	32.9	36.4	1747	40.1	43.7
	09B	4303	63.4	64.3	1441	41.9	41.7	2862	85.5	87.9
Point Douglas	10A	7999	60.2	62.3	3422	50.6	52.1	4577	70.1	73.4
	10B	8357	116.2	123.5	2927	83.9	94.0	5430	146.5	150.3
Downtown	11A	11984	62.5	63.2	4486	45.8	47.0	7498	79.8	80.2
	11B	18205	114.5	115.8	6037	79.3	86.0	12168	146.7	141.5
River Heights	12A	6886	38.6	38.4	2613	27.4	27.5	4273	51.4	50.5
	12B	6369	59.8	62.0	2907	50.7	54.6	3462	70.4	70.9
Winnipeg Health Region		<b>164018</b>	<b>51.3</b>	<b>51.4</b>	<b>66931</b>	<b>40.7</b>	<b>41.2</b>	<b>97087</b>	<b>62.6</b>	<b>62.4</b>

### Potential Years of Life Lost in the Winnipeg Health Region by Neighbourhood Cluster and Sex, 1990-1994

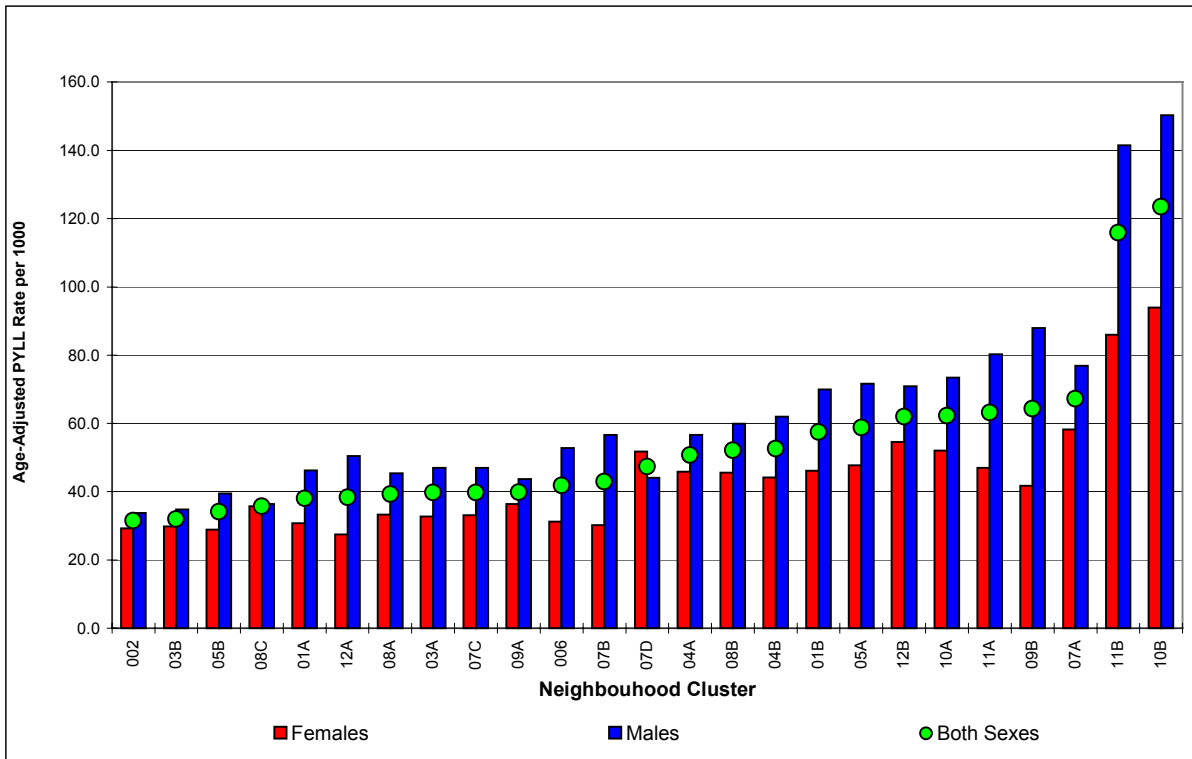
Community Area	Neighbourhood Cluster	Both Sexes			Females			Males		
		PYLL	PYLL Rate per 1000 Population	Age-Adjusted PYLL Rate per 1000 Population	PYLL	PYLL Rate per 1000 Population	Age-Adjusted PYLL Rate per 1000 Population	PYLL	PYLL Rate per 1000 Population	Age-Adjusted PYLL Rate per 1000 Population
St. James-Assiniboia	01A	7577	44.1	41.6	2515	28.5	26.3	5062	60.7	57.4
	01B	7513	53.6	52.5	2989	40.5	40.9	4524	68.2	65.5
Assiniboine South	002	6312	34.9	35.7	2413	25.9	26.9	3899	44.4	44.9
Fort Garry	03A	3824	34.2	33.3	1893	32.9	32.1	1931	35.6	35.1
	03B	5643	34.0	36.0	2471	29.2	30.0	3173	38.9	42.4
St. Vital	04A	6218	44.5	42.6	2666	36.2	35.9	3552	53.8	50.7
	04B	8462	55.5	56.6	3487	44.5	46.0	4975	67.2	67.9
St. Boniface	05A	5084	62.1	64.9	1887	43.2	44.0	3198	83.7	88.2
	05B	5699	39.9	38.9	2077	28.8	28.2	3622	51.2	49.2
Transcona	006	7188	46.3	49.5	2923	37.4	40.0	4265	55.3	59.4
River East	07A	5434	59.4	57.3	1895	40.7	37.2	3540	78.7	79.1
	07B	8855	45.1	43.0	3123	30.1	28.3	5732	61.8	59.3
	07C	5339	40.1	42.0	2075	30.7	32.2	3264	49.7	52.4
	07D	390	22.2	26.8	57	6.6	12.7	333	37.6	40.0
Seven Oaks	08A	3785	37.7	43.0	1835	35.8	41.8	1951	39.7	45.1
	08B	7442	46.0	45.0	2932	34.6	33.4	4511	58.4	58.0
	08C	729	40.3	41.5	328	35.2	36.4	401	45.7	47.1
Inkster	09A	2518	30.0	33.8	1047	24.8	26.8	1471	35.4	41.4
	09B	4447	63.6	65.0	1863	52.4	50.0	2584	75.0	81.8
Point Douglas	10A	8649	62.2	62.1	3406	48.0	48.4	5243	77.1	77.1
	10B	8343	104.3	114.0	2491	63.5	65.1	5852	143.6	157.5
Downtown	11A	11356	57.2	57.2	4826	47.8	47.8	6530	66.9	67.9
	11B	15765	90.1	95.8	4968	58.3	63.4	10797	120.2	124.3
River Heights	12A	7167	39.1	38.1	3382	34.4	33.9	3785	44.4	43.0
	12B	6207	56.5	56.9	2356	39.5	41.8	3851	76.7	75.7
Winnipeg Health Region*		<b>159948</b>	<b>50.0</b>	<b>50.2</b>	<b>61903</b>	<b>37.6</b>	<b>38.0</b>	<b>98045</b>	<b>63.1</b>	<b>63.4</b>

**Comparison of Potential Years of Life Lost in the Winnipeg Health Region by Neighbourhood cluster by Both Sexes, 1990-1994 vs 1995-1999**



Note: Please refer to Methods, Data Book, CHA Report 2004 for a listing of Neighbourhood Clusters by name.

**Comparison of Age-Adjusted PYLL Rates per 1000 population by Neighbourhood Cluster, 1995-1999**



**Highlights:**

- Up to 2001, an average of 66246 potential years of life were lost each year for residents in Manitoba. As noted for premature mortality rates, 10199 of the 25887 (39.4%) total deaths over five years in the WHR were premature. The 10199 deaths result in a total PYLL of 164018. Therefore an average of 32804 potential years of life were lost each year for residents in the WHR.
- Comparison of both crude and age-adjusted PYLL show that although there has been a slight increase in the WHR overall, the majority of the increase is attributable to females as the males show a slight decline in the rates between the two time periods. It is important to note that the total PYLL males remain substantially higher than for females.
- Fluctuations in age-adjusted PYLL between NCs reflect differences in the magnitude and in direction between the two time periods. For example, Downtown 11A and 11B show an increase over time with a greater increase in Downtown 11B while Fort Garry 03A shows an increase overtime and Fort Garry 03B shows a decrease.
- The highest PYLL rates are found in Downtown 11B and Point Douglas 10B for both sexes, males, and females, which is a similar pattern to that found with the PMR. When adjusting for age distribution differences among the neighbourhood clusters, the same pattern persists for Downtown 11B and Point Douglas 10B, which is approximately 2-3 times higher than the other neighbourhood clusters. This continues to reinforce the differences in health-care needs across the region, where areas like Downtown 11B and Point Douglas 10B have either more deaths occurring in later life or fewer number of deaths occurring in early life, or a combination of the above. It is known that these two neighbourhood clusters also have higher death rates and higher PMRs, when in combination with higher years of life lost does support a poor population health outcome and an increase in the burden of illness for residents who live in Downtown 11B and Point Douglas 10B.