

dmonton LIFE is a collaborative, ongoing project that has established a shared definition of quality of life in Edmonton.

The project provides an accessible and comprehensive report measuring health, environmental, economic and social indicators. By monitoring results annually, the project will provide the opportunity to review existing strategies, target priority areas for improvement and demonstrate the city's commitment to excellence.

This edition takes the first step towards identifying emerging trends by reporting comparative data for the indicators first introduced and measured in 1997.

Edmonton LIFE welcomes the future and invites all Edmontonians to participate.



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1.0 Introduction

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Edmonton is poised on the edge of a new millennium. Emerging global trends will have an impact on quality of life all over the world. Edmonton's ability to anticipate change will determine whether or not the city can benefit from these changes and maintain a high quality of life. It is critical that Edmontonians, individually and collectively, take this opportunity to redefine excellence in the community.

Edmonton LIFE: Local Indicators for Excellence, is a collaborative, ongoing project that has established a shared definition of quality of life in Edmonton. The purpose of the project is to provide an accessible and comprehensive annual report measuring health, environmental, economic and social indicators. A comprehensive set of indicators will assist in:

- demonstrating the city's commitment to excellence;
- assessing the value of existing strategies;
- · identifying strengths and weaknesses;
- planning effectively for the future;
- refining existing initiatives and programs;
- identifying and anticipating trends;
- setting organizational, agency and program targets for excellence; and
- comparing Edmonton's progress on a regional, national or global level.

Shared beliefs about quality of life and an ideal vision of what Edmontonians would experience were developed to provide a framework for the project.

Beliefs about Quality of Life

- All aspects of community living are interrelated and contribute to quality of life.
- Each individual has a role in improving quality of life in the community and opportunities to participate in a meaningful way must be encouraged.
- Respect for the inherent dignity of all human beings is fundamental to community life.
- Diversity enriches community life and must be respected and valued. The community must be responsive to the varying contributions and needs of all its members.
- Interaction among people and their surroundings provide opportunities to work together and strengthen community connections to improve quality of life.



Vision of Quality of Life

Edmonton is a caring, safe, attractive community in which all people are valued. Edmonton is socially and environmentally responsible, and has a vibrant, flourishing economy.

Caring...

Individual and community well-being are fostered by meaningful connections to others. Members recognize their responsibility to each other.

Safe...

A safe community respects diversity, provides social supports for people who need it and reasonable security from avoidable hazards. The design of the community encourages interaction and minimizes the potential for avoidable hazards.

Attractive...

An attractive community provides the opportunity to participate in a wide range of arts, leisure, community activities and life-long learning in pleasant surroundings. It is vibrant, its citizens are active and it offers variety, choice and excellence.

Valuing all people...

The contributions made by each member of the community are recognized and appreciated. People are listened to and have an opportunity to participate in decision making.

Socially responsible...

There is a shared commitment to each other. There are easily accessible, responsive services to meet the emotional, physical, mental and spiritual needs of all people.

Environmentally responsible...

Individuals use air, water and land responsibly and protect the natural resources for future generations. There are a variety of opportunities to enjoy the outdoors and attractive areas are kept or created for recreational and spiritual needs.

Vibrant, flourishing economy...

A vibrant, flourishing economy is diversified, resilient, environmentally responsible and globally competitive while meeting the needs of the local community. It provides the opportunity for employment which is meaningfully productive, creative and rewarding.

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The purpose of the 1997 Edmonton LIFE report was to introduce the indicators and provide a point of reference for each one. For 1998, Edmonton LIFE has taken the first step towards identifying emerging trends by reporting comparative data.

As expected, not all indicators lend themselves to annual updates; information was updated where possible. Likewise, where more specific or reliable information was identified and available for both previous and current reporting periods, the new information was adopted. Where the information provided is based on the Capital Health region rather than the city of Edmonton, caution should be used when comparing results between reporting periods. The region's composition has undergone substantial changes in recent years which has certainly had an affect on the outcomes of statistical measures.

Rather than setting goals or providing an analysis of changes, Edmonton LIFE is a tool to track variances over time and allows the reader to evaluate the significance of those variances.

As the turn of the century approaches, Edmonton LIFE begins a process which breaks new ground in understanding quality of life in the city. This project sets an example for communities across the country by embracing excellence and monitoring healthy growth and change. Edmonton LIFE welcomes the future and invites all Edmontonians to participate.

The continued support of the City of Edmonton, the Edmonton Chamber of Commerce, the Edmonton Social Planning Council, the United Way of Alberta - Capital Region and the University of Alberta has made this revised edition possible.

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2.0 Healthy Economy

Overview

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A Healthy Economy combines both individual economic well-being and community economic health. It is enhanced by education and skills development and must be supported by factors such as positive labour relations, economic diversification and environmental responsibility. Global developments are a consideration as well, with market fluctuations, international affairs and new technologies all having an influence on the local economy. The extent to which Edmonton's economic well-being is affected by national and international economies can be mitigated by monitoring and strengthening the local economy. The underlying theme is that all aspects of an economy are interconnected, and changes in one will be reflected in another.

The Healthy Economy working committee recognized that traditional methods of measuring economic well-being would not capture changes in relatively new, but no less significant, aspects of the economy. For example, traditional economic measurements might focus on investments, employment levels or downtown office vacancy rates, but these measurements would not reflect the growth in individuals who work from home or changes in training and educational levels. The goal became balancing the two approaches to achieve a more accurate assessment of economic health.

Healthy Economy includes...

- Individual economic well-being and community economic health.
- Employment opportunities.
- · Positive labour relations.
- Positive regional, provincial, national and international relations.
- Diversification and innovation.
- Equity fair opportunities.
- Locally supported and globally competitive.
- Environmental and social responsibility.
- Opportunities for small and large business.
- Good jobs which offer a sense of security.
- Resiliency ability to cope with change, including recession and depression.
- Infrastructure physical and social.
- Education as it relates to training, career development.
- Sustainable economy.



2.1 Net Business Creation

The number of new businesses established minus the number of businesses retired per annum.

Rationale

While the nature of the economy is dynamic, stability and steady growth are measures of economic health. Net business creation indicates the overall growth of the business sector in Edmonton.

Directionality: this indicator should move upward.

Qualifications

To attain the most accurate information for this indicator, tax account data has been used instead of total number of business licenses issued. Each time business ownership changes in the course of a year a new license is required, therefore using license information would over-represent business creation.

Status

Net business creation for 1997 was 835, compared to 1,361 in 1996.

Source: City of Edmonton, Planning and Development

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2.2 Development Activity

The activity in commercial, industrial, institutional, miscellaneous and residential categories, as measured by the number of building permits and housing starts.

Rationale

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Development activity indicates the viability of the economy and provides insight into emerging industries, level of infrastructure and disposable income. The level and type of development reflects confidence in various sectors of the local economy.

Directionality: this indicator should move upward in each category.

Qualifications

This indicator does not include construction activity that proceeds without a permit. Two permits may be issued for the same building, one for the foundation and one for construction. Housing starts are defined as, "units where construction has advanced to a stage where full... footings are in place".

Some minor commercial and home renovation projects are completed without building permits. If future studies reveal a method of obtaining renovation data, the annual level of renovation activity should be included as well.

Status

The following table compares development activity in 1996 and 1997:

| Permit Type | 1996 | 1997 |
|--------------------------------------------------------------------------|----------------------------|----------------------------|
| Commercial Industrial Institutional Miscellaneous (temporary structures) | 1,155 121 164 944 | 1,092 198 142 908 |
| Housing Starts (City of Edmonton) | 1,935 | 3,015 |

Source: City of Edmonton, Planning and Development; Canada Mortgage and Housing Corporation Edmonton



2.3 Municipal Expenditure on Debt

Debt expressed as a percentage of total municipal expenditures.

Rationale

Municipal expenditure on debt demonstrates the ability of a municipality to sustain its debt load and reflects the overall economic condition of the local government. Debt load affects the ability of the municipality to allocate funds to program areas.

Directionality: this indicator should move generally in a downward direction.

Qualifications

Expenditure on debt must be examined in the context of revenues, expenditures and priority issues to ensure a sustainable balance.

Status

Debt servicing for 1997 was 4.78% of municipal expenditures, a slight increase over the 1996 rate of 4.43%.

Source: City of Edmonton, Finance Department

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2.4 Emerging Industry Research and Development

This indicator measures the following: level of investment in emerging industry research, employment created by research and patent and invention information.

Rationale

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The transition to a post-industrial society is characterized by innovation and research. Edmonton has a strong tradition of leadership in the areas of pure and applied studies. While research has historically focused on natural resources, biotechnology and medicine have become priorities as well. The University of Alberta provides a foundation for emerging industry research and development activities.

Directionality: this indicator should move upward.

Qualifications

Qualifications for consideration:

- Information was obtained from the University of Alberta's Industry Liaison Office. This office does not have information pertaining to independent industry research, or research done by the private sector with partners other than the University.
- Research program funding does not include endowment funds or clinical trials.
- The use of the term "emerging industry" needs to be clarified as to whether it refers only to new industries, or if it includes spin-off industries as well.
- Public and private research (and the related investment) need to be differentiated.
- The number of patents does not necessarily translate into local economic development.

Status

| | 1995/96 | 1996/97 | 1997/98 |
|--------------------------------------------------------------------------|----------------|----------------------|----------------|
| Research Program Funding | \$115,000,000 | \$125,000,000 | \$130,000,000 |
| Employment from sponsored research Employment from spin-off companies | 5,400 3,265 | 5,900 3,120(est.) | 7,900 3,640 |
| | 1996 | 1997 | 1998 |
| United States Patent applications | 46 | 4 4 | - |
| United States patents Issued | 13 | 12 | - |
| Invention disclosures received | 82 | 8.1 | - |

Source: University of Alberta Industry Liaison Office



2.5 Labour Force Participation Rate

The labour force participation rate is the percentage of working aged people (15 years or older) who are in the labour force. This indicator also measures changes in the percentage of people employed full-time and part-time.

Rationale

The labour force consists of working aged people, whether they are employed or unemployed. Those not counted by the participation rate are those who are unwilling or unable to participate in the work force. For this reason, the participation rate provides a more meaningful overview of the labour force than other measures.

Non-participation represents potential, but unused, human capital. Individuals who are not employed generally have decreased household incomes and reduced social or community activity levels.

Directionality: indicator should move upward.

Qualifications

Labour force participation does not measure the importance or the value of an individual's work. People may leave the work force for reasons not related to economics, such as illness or family responsibilities.

Status

For the Edmonton Census Metropolitan Area, the 1996 participation rate was 70.4%. In 1997, labour force participation increased to 71.7%.

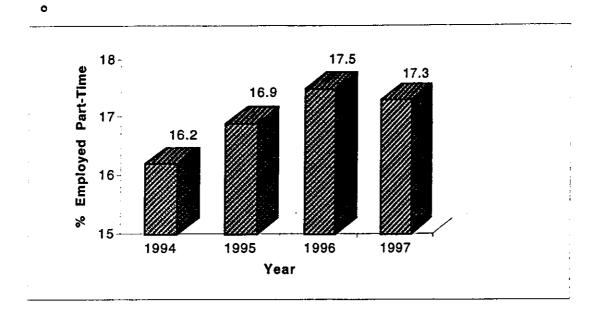
The following graphs display the percentage of part-time and full-time employment for the period 1994 to 1997. Percentages were determined by dividing employment figures by labour force figures.

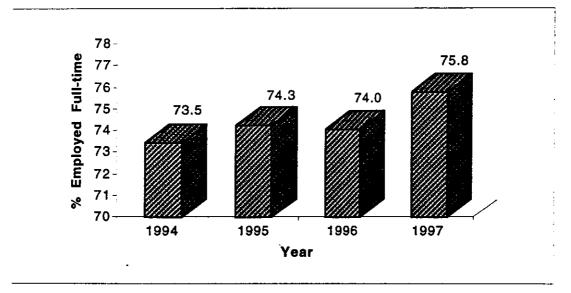
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Source: Statistics Canada

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2.6 Adult Job-Related Education and Training

There are three components to this indicator: total participation in adult education, proportion of participation in training that was job-related and proportion of training that was supported by an employer.

Rationale

There is a strong correlation between the strength of the economy and participation rates in adult education. With the changing demands of the workplace, adult training and upgrading plays a key role in helping individuals adapt to new demands as well as retraining them for new positions.

Directionality: each component for this indicator should move upward.

Qualifications

This indicator does not include information on government financed programs which are primarily designed to lower the visible unemployment rate. The impact of these programs on the overall participation rate is not significant, but it may be more pronounced among some subgroups. Finally, the number of activities is not equivalent to the number of adults in training courses as one person may be enrolled in more than one course.

Status

The following figures are for 1993 for the Edmonton Census Metropolitan Area, and are approximations:

- Total education and training activities: 345,600
- Job-related education and training activities: 256,400
- Employer sponsored adult education and training: 205,400

At the time of writing, more current information was not available. The results of the next Adult Education and Training Survey will be released in 1999.

Source: Statistics Canada, Adult Education and Training Survey, 1994

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2.7 Level of Education

The percentage of the population having achieved specified levels of education, expressed as a percentage of the total population.

Rationale

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The level of education achieved has a direct effect on a person's ability to secure employment. Current trends point to an increasing number of new jobs created in Canada requiring more than sixteen years of education and training.

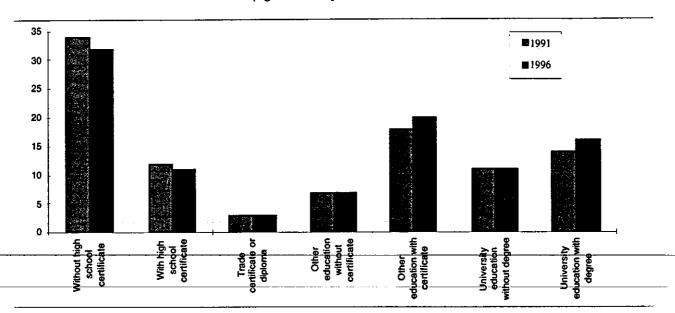
Directionality: indicator should move upward.

Qualifications

To reflect current intellectual capital, this indicator should reveal the highest level of education attained by Edmontonians, not the number of certificates, degrees or diplomas granted by local institutions. This would offset accreditation earned locally by students who relocate to other communities after graduation and/or commute to Edmonton to attend local institutions.

Status

The following chart illustrates the results of the two previous census surveys for the census subdivision of Edmonton (figures may not total one hundred due to rounding).



Source: Statistics Canada



2.8 Households Below the Low Income Cut-Off Level (LICO)

The LICO is determined by adding 20 percent to the average percentage of gross family income spent on the basics of food, shelter and clothing. LICO is adjusted according to size of household and the population of the area of residence.

Rationale

The LICO has been defined by Statistics Canada and is commonly accepted as a threshold marker that measures well-being relative to the average. It may also be viewed as a measure of distribution of wealth.

Directionality: indicator should move downward.

Qualifications

LICO does not directly measure poverty, rather, it defines a set of income cut-offs below which individuals may be living in dire circumstances. A more expansive definition of poverty may be needed.

An economic family, as defined by Statistics Canada, "Refers to a group of two or more persons who live in the same dwelling and are related to each other by blood, marriage, common-law or adoption."

Status

In 1995, 47,580 (18.3%) economic families of two persons or more were living below the LICO. By 1996, that number decreased to 35,358, or 14.2%.

Source: Statistics Canada

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2.9 Air Traffic

The number of people using registered air service in and out of Edmonton.

Rationale

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The level of flight activity indicates economic well-being of both individuals and businesses, as ability to travel is related to economic health.

Directionality: indicator should move upward.

Qualifications

This indicator does not distinguish between flights for business or pleasure, or the origin and destination of travellers.

On June 1, 1996, all scheduled air passenger service for Edmonton was consolidated at the Edmonton International Airport.

Status

In 1996, the total number of passengers through Edmonton was 3,522,674 (3,121,444 at the Edmonton International Airport and 401,230 at the City Centre Airport).

In 1997, the total number of passengers increased to 3,720,623.

Source: Edmonton Regional Airports Authority





3.0 Healthy People

Overview

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In order to approach this element in a comprehensive fashion, the Healthy People working committee began indicator development by examining the concept of a healthy individual. It was determined that Healthy People are the result of all components of a community working well together (economy, environment and community).

Five core concepts for the element were identified, and for each one a description developed. The first concept, adaptability, included factors such as an individual's ability to cope with change and crises, or resiliency. Inherent to the concept of resources was that individuals needed to have the skills and knowledge to pursue their choices, as well as the means. The concept of relationships entailed individuals who were socially connected and concerned for others. The participation concept focused on individuals having access to meaningful paid work and the ability to participate in their community. Finally, the concept of meaning described healthy people who had optimism and a zest for life.

Healthy People are...

- · Educated and informed.
- Capable (have the skills to meet their own needs) physically, emotionally, mentally and spiritually.
- Adaptable able to cope with change, crisis physically, emotionally, mentally and spiritually.
- Responsible about their physical, emotional, mental and spiritual lives, recognizing the limits of individual capabilities.
- Provide healthy environments for children and are aware and capable of meeting children's needs.



3.1 Disparity in Annual Family Income

Percentage of families with income in the following quintiles: less than \$19,999; \$20,000-\$39,999; \$40,000-\$59,999; \$60,000-\$69,999; and more than \$70,000.

Rationale

Income distribution displays the proportion of the population living at, above, or below various economic cut-off points, as well as the magnitude of difference between those with the greatest and lowest income. It can be used to indicate changes in the gap between those with the greatest and lowest income. In conjunction with education and occupation, the income variable is often used as a socioeconomic indicator in studies analyzing the links between social condition and health.

Evidence suggests there is a health gradient in which differences are found not only between the groups with the highest and lowest income, but also between all levels on the scale. Individuals living on insufficient income are more likely to be in poor health than individuals in higher income categories. They are also more likely to have harmful behavioural patterns, suffer from a disability or die prematurely.

Directionality: the percentage of people in the lowest two quintiles should decrease.

Qualifications

The data for this indicator is based on the census subdivision of the City of Edmonton. It represents gross family income levels for all census families, "income" includes all sources. Figures may not total one hundred due to rounding.

Status

The following table shows mixed results. While the lowest quintile decreased by one percent, the second lowest quintile increased by the same amount.

| Family Income - All Census Families | 1991 | 1996 | % Change |
|-------------------------------------|------|------|----------|
| \$0 - 19,999 | 17% | 16% | - 1% |
| \$20,000 - 39,999 | 26% | 27% | + 1% |
| \$40,000 - 59,999 | 26% | 24% | - 2% |
| \$60,000 - 69,000 | 9% | 10% | - 1% |
| \$70,000 + | 21% | 24% | +3% |

Source: Statistics Canada

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3.2 Nutritious Food Basket

The cost to purchase an assortment of food that provides a realistic and nutritious dietary balance.

Rationale

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Good nutrition is an important factor affecting an individual's ability to learn and work effectively.

Directionality: indicator should remain steady.

Qualifications

This indicator measures the cost of an assortment of nutritious food. It does not indicate whether individuals are choosing to buy nutritious foods, nor if individuals have the financial means to purchase the suggested quantities and types of food. It is possible to break the data down into greater detail.

Status

An annual average of (average) weekly costs, by age and sex, shows an **increase** in costs in **1997** as compared to 1996.

| Annual Average | Children 0 - 6 | Boys 7 - 18 | Girts 7 - 18 | Men 19 - 75+ | Women 19 - 75+ | Pregnant Women |
|-------------------|-------------------|----------------|-----------------|-----------------|-------------------|-------------------|
| 1996 | \$18.39 | \$29.98 | \$25.78 | \$29.54 | \$24.59 | \$28.87 |
| 1997 | \$18.99 | \$30.97 | \$26.63 | \$30.44 | \$25.39 | \$29.82 |

Source: Alberta Agriculture, Food and Rural Development



3.3 Low Birth-Weight Infants

Percentage of total live births that are low birth-weight (less than 2,500 grams).

Rationale

Low birth-weight (LBW) is linked to infant mortality, neurological defects and birth defects. It is associated with slow development during childhood, presenting difficulties in later stages of life. Some of the factors associated with LBW include smoking, low weight prior to pregnancy, poverty and prenatal care.

Directionality: indicator should move downward.

Qualifications

The percentage of low birth-weight infants varies widely among different areas of the city, possibly reflecting disparities in economic and educational status. Variances may also be indicative of a pregnant woman's ability to access continuous prenatal care and adequate nutrition.

Status

- In 1994, 5.9% of babies in the city were born at a low birth-weight.
- In 1995, 6.0% of the live births in the Capital Health Region were considered low birthweight.
- In 1996, 6.3% of the infants born in the Capital Health Region were born at a low birth-weight.

Source: Capital Health, Population Health and Research, 1996; Capital Health, Health Status in the Capital Health Region, 1997

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3.4 Student Academic Achievement

Percentage of students achieving the acceptable standard (grades in the 50%-100% range) and the standard of excellence (grades in the 80%-100% range). The goal established by Alberta Education is that 85 percent of students will achieve the acceptable standard and 15 percent will attain the standard of excellence.

Rationale

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Performance on provincial achievement tests and diploma examinations are an indicator of student academic achievement.

Directionality: the goals set by Alberta Education should be met annually.

Qualifications

Students in grades 3, 6, and 9 are tested by the provincial achievement test. Grade 12 students are evaluated by diploma examinations.

In 1995/96, a new science curriculum was introduced at the grade 6 level. For that year, schools had the choice of which curriculum to use. As a result, two different achievement tests were administered. The science curriculum was standardized in the 1996/97 year.

Other issues for consideration include:

- this indicator is only one measure of success in school;
- this indicator does not reflect the marks of students in private schools, charter schools or home schooling; and
- this indicator does not reflect the number of students not completing the school year.

Status

- In the 1995/96 school year, there were 42 tested subjects. Of that, 14 did not meet Alberta Education's goals for the acceptable standard, nor for the standard of excellence.
- In 1996/97 and 1997/98 school years, the number of tested subjects was 40. For 1996/97, 17 exam results did not meet provincial goals.
- The 1997/98 results show that Alberta Education goals were not met in 12 tested subjects.

The following table provides a detailed breakdown of the percentage of students meeting the acceptable standard and the standard of excellence. Figures in bold indicate where results met or exceeded the goals set by Alberta Education.



| | <u></u> | Edmoi | nton Pub | lic Schoo | ls | | |
|-------|-------------------|---------------|----------|-----------------|--------|------------------|--------|
| | | 1995/6 | 1995/6 | 1996/7 | 1996/7 | 1997/8 | 1997/8 |
| Ovedo | Subject | 50-100 | 80-100 | 50-100 | 80-100 | 50-100 | 80-100 |
| Grade | Language Arts | 81.2 | 16.8 | 82.3 | 11.1 | 82.3 | 14.2 |
| 3 | Mathematics | 87.6 | 16.6 | 89.8 | 20.4 | 78.7 | 20.4 |
| • | | 80.0 | 14.6 | 79.8 | 13.5 | 80.2 | 13.4 |
| 6 | Language Arts | 83.4 | 24.0 | 87.4 | 25.1 | 80.8 | 17.2 |
| | Mathematics | 78.5 | 18.9 | • | - | - | - |
| | Science A | 79.8 | 14.9 | - | • | - | • |
| | Science B | 79.0 | • | 76.8 | 14.0 | 79.7 | 20.1 |
| | Science | 7 7 .1 | 16.4 | 78.0 | 18.1 | 77.9 | 18.1 |
| _ | Social Studies | 84.7 | 10.9 | 84.3 | 11.7 | 85.2 | 12.2 |
| 9 | Language Arts | 67.9 | 15.8 | 68.0 | 14.6 | 72.4 | 18.0 |
| | Mathematics | | 19.3 | 75.9 | 16.4 | 77.0 | 14.4 |
| | Science | 78.2 | 14.8 | 81.9 | 17.9 | 79.7 | 17.5 |
| | Social Studies | 73.9 | 18.8 | 88.4 | 17.7 | 88.1 | 16.4 |
| 12 | English 30 | 90.6 | 24.2 | 76.3 | 21.2 | 82.3 | 26.6 |
| | Mathematics 30 | 78.7 | | 84.3 | 16.6 | 86.0 | 19.9 |
| | Social Studies 30 | 84.9 | 20.0 | | 26.6 | 80.1 | 25.6 |
| | Biology 30 | 77.2 | 19.3 | 81.3 | 17.3 | 85.7 | 20.2 |
| | Chemistry 30 | 80.5 | 19.3 | 77.1 | 23.0 | 84.4 | 29.2 |
| | Physics 30 | 78.7 | 26.2 | 78.9 | | 70.7 | 9.8 |
| | Science 30 | 74.4 | 7.7 | 79.7 | 6.8 | 83.8 | 7.8 |
| | English 33 | 81.0 | 6.8 | 82.2 | 7.0 | 82.8 | 7.9 |
| | Social Studies 33 | 76.7 | 5.6 | 76.6 | 5.7 | | 11.0 |
| | Mathematics 33 | 77.3 | 18.6 | 78.7 | 17.0 | 71.8 | 11.0 |
| | | | | olic Scho | 0015 | 4007/0 | 1997/8 |
| | | 1995/6 | 1995/6 | 1996/7 | 1996/7 | 1997/8 | 80-100 |
| Grade | Subject | 50-100 | 80-100 | 50-100 | 80-100 | 50-100 | |
| 3 | Language Arts | 83.4 | 18.3 | 84.1 | 11.7 | 83.0 | 14.7 |
| _ | Mathematics | 91.6 | 20.1 | 93.4 | 26.2 | 81.6 | 23.0 |
| 6 | Language Arts | 84.9 | 15.3 | 81.7 | 14.1 | 81.9 | 13.7 |
| • | Mathematics | 88.2 | 28.4 | 89.4 | 27.1 | 84.2 | 18.6 |
| | Science Old | 84.7 | 20.7 | - | • | • | • |
| | Science New | 80.7 | 18.2 | • | - | - | • |
| | Science | _ | - | 74.1 | 11.0 | 80.6 | 20.3 |
| | Social Studies | 76.8 | 16.2 | 76.8 | 17.0 | 78.0 | 15.8 |
| 9 | Language Arts | 88.1 | 9.7 | 85.6 | 10.3 | 86. 9 | 9.8 |
| ~ | Mathematics | 72.2 | 15.1 | 71.9 | 13.6 | 74.1 | 17.6 |
| | Science | 79.5 | 14.3 | 76.4 | 14.1 | 75.9 | 11.2 |
| | Social Studies | 76.9 | 13.4 | 79.2 | 15.2 | 75.1 | 10.2 |
| 12 | English 30 | 93.9 | 17.9 | 91.0 | 15.3 | 97.4 | 17.1 |
| 1 2 | Mathematics 30 | 75.1 | 20.6 | 77.2 | 21.6 | 93.2 | 25.8 |
| | Social Studies 30 | 82.6 | 16.3 | 84.1 | 15.9 | 95.9 | 22.3 |
| | Biology 30 | 76.3 | 16.6 | 83.3 | 22.4 | 92.1 | 26.3 |
| | Chemistry 30 | 78.7 | 14.5 | 76.7 | 13.1 | 92.1 | 18.0 |
| | Physics 30 | 73.8 | 21.9 | 74.6 | 19.8 | 95.3 | 29.3 |
| | Science 30 | 63.6 | 0.0 | 50.0 | 7.1 | 100.0 | 0.0 |
| | English 33 | 79.5 | 4.5 | 83.8 | 9.6 | 92.1 | 4.0 |
| | Social Studies 33 | 80.8 | 8.6 | 78.2 | 6.0 | 91.4 | 4.6 |
| | Mathematics 33 | 70.7 | 12.9 | 79.6 | 17.5 | 81.4 | 11.0 |

Source: Edmonton Public Schools; Edmonton Catholic Schools



3.5 Life-Long Learning

This indicator is comprised of two components: percentage of the population registered in adult continuing education courses and the number of items borrowed from the public library.

Rationale

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Life-long learning enhances creativity, assists in maintaining mental activity and enriches lives as individuals develop interests in a variety of areas. It helps to develop skills and abilities, increasing employment potential. In addition, it enables individuals to access information and services which may support family and personal well-being.

Directionality: indicator should remain steady or increase.

Qualifications

For the continuing education component:

- the percentage of the population registered in adult education and training activities is determined by dividing the total number of activities by the labour force population;
- the number of registrations and the number of people pursuing continuing education are not the same due to multiple registrations by some individuals;
- there is a need to determine to what extent the ability to pay course fees affects participation rates.

For the library usage component:

- the number of items borrowed is not the same as the number of library users;
- changes in public library use may be the result of changes in the accessibility of other information sources, such as growth in the amount of information available on-line.

Status

The percentage of the population registered in adult education courses in 1993 was approximately 72.2%.

At the time of writing, more current information for this component was not available.



Annual library circulation increased by approximately 25,000 in 1997:

| | Materials Borrowed by Adults | Materials Borrowed by Children | Total |
|------|------------------------------|--------------------------------|-----------|
| 1996 | 5,184,236 | 2,411,520 | 7,595,756 |
| 1997 | 5,082,033 | 2,538,933 | 7,620,966 |

Source: Statistics Canada, Adult Education and Training Survey, 1994; Edmonton Public Library Annual Report, 1997



3.6 Physical Activity

Number of adults who report engaging in regular physical activity.

Rationale

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Studies indicate that regular physical activity is a significant contributor to both physical and mental health.

Directionality: indicator should move upward.

Qualifications

The Alberta Centre for Well-Being has conducted several surveys examining the physical activity of Albertans. Across Alberta, a total of 1,206 individuals (18 years and older) were surveyed from November 1996 to January 1997. This sampling did not survey children, individuals in nursing homes or temporary residents.

Status

- Within the Edmonton region, 56% of those surveyed reported that they are currently active.
- Of the individuals who reported not being currently active, 40% reported being active in the past six months.
- Overall, 26% of Edmontonians are sedentary (reporting no physical activity currently or in the past six months).

The Survey on Physical Activity is done every two years, therefore, updated information will not be available until 1999.

Source: The Alberta Centre for Well-Being - 1997 Alberta Survey on Physical Activity



3.7 Food Bank Demand

The number of individuals using Edmonton's Food Bank.

Rationale

Edmonton's Food Bank provides emergency assistance in the form of food hampers to anyone in need. Recipients include those on income support programs, the working poor and those with no income from any source. Food Bank demand has historically fluctuated in response to changes in government income support programs and the economy. Therefore, it is broadly reflective of the number of Edmontonians living in dire poverty and unable to meet their most basic needs.

Directionality: indicator should move downward.

Qualifications

Due to the method of data collection, it is not possible to determine if changes in demand are a result of a change in the number of people requiring support or a change in the frequency of visits by Food Bank users.

Status

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In 1996, Edmonton's Food Bank supplied food to individuals 217,151 times.

In 1997, individuals required the Food Bank's support 192,067 times.

Source: Edmonton's Food Bank

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3.8 Premature Deaths

Number of individuals who die prematurely (prior to the age of 75).

Rationale

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Since death is inevitable, the focus is on minimizing the risk of premature death. The causes of premature death vary greatly with age and include:

- for infants, conditions in the perinatal period and congenital anomalies;
- for those aged 15 44 years, injuries and suicide;
- for those aged 45 74 years, heart disease, cancer and stroke.

There are many factors that contribute to reducing the number of premature deaths. Some of these factors are:

- level of income and education;
- a health care system efficient in treating and preventing physical and mental illnesses; and
- effective public education regarding healthy lifestyle choices and injury prevention.

Directionality: indicator should move downward.

Qualifications

There are a number of ways to measure premature death. The three considered here are:

- 1. The number of deaths occurring before age 75.
- 2. The number of potential years of life lost (PYLL). This is calculated by subtracting the age at which a person dies from the age 75. Therefore, a person who dies at 18 has "lost" 57 years of life.
- 3. The number of lifetimes lost. This is calculated by dividing the number of potential years of life lost by the age 75.

The results will be affected by individuals who have come to the region from communities with inadequate or inaccessible health care services. However, this is a factor for all urban areas in Canada and should not affect comparisons with other large urban areas.



Status

Number of premature deaths:

1994 - 2,048 **1996 - 2,124**

Potential Years of Life Lost:

1994 - 39,064 **1996 - 39,465**

• Total Lifetimes Lost:

1994 - 517 **1996 - 526**

Information for this indicator is obtained from Capital Health Authority publications. Statistics for 1995 were not published; 1997 statistics had not yet been released at the time of writing.

Source: Capital Health, Population Health and Research, 1996; Capital Health, Health Status in the Capital Health Region, 1997



3.9 Crisis Support Calls

Annual number of calls to crisis lines.

Rationale

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Calls to crisis lines reveal the number of individuals in the community who are suffering from acute anxiety and despair. The need to seek outside assistance indicates the callers do not have family or friends for support or choose not to use either source for support.

Directionality: indicator should move in a downward direction.

Qualifications

This indicator can only capture the number of calls, not the number of individuals who need help, since a person may call more than once or use more than one line. Also, an increase in calls may indicate greater awareness of a help line. If an organization attributes the increase in calls to a marketing strategy in subsequent years, the indicator would need to include this in the context. Finally, this indicator does not include all available "help lines".

Status

Some of the crisis lines that monitor annual number of calls received report the following:

- The Distress Line received 28,857 calls in 1996, 6,854 of which were suicide related. In 1997, the number of calls decreased to 27,882, with 6,423 of them being suicide related.
- The Edmonton's Women's Shelter (WIN House) received a total of 3,913 calls in 1996, 3,101 of which were crisis support calls. By 1997, the reported number of calls dropped to 3,625, with 2,871 being classified as crisis support.
- The Sexual Assault Centre of Edmonton also differentiates the types of calls received. In 1996, the Centre received 457 calls for child sexual assault, 757 calls for sexual assault and 886 calls for adults molested as children. In 1997, the numbers were 491, 495, and 1,396 respectively.
- The Gambling Line Summary Report indicates that the Gambling Line received 3,020 calls from April 1, 1996 through March 31, 1997. Of the total calls, 748 were from Edmonton (24.9%).

At the time of writing, 1997/98 statistics for the Gambling Line had not been released.



3.10 Consumption and Use of Addictive Substances

The total dollar sales of alcoholic beverages per person, the rate for drug possession, the separation rate for alcohol related primary and secondary diagnosis and the separation rate for tobacco-related diseases.

Rationale

Addictive substances affect an individual's ability to function effectively. The resultant costs to society as a whole, whether through family instability or the need for publicly funded programs and services, is significant.

Directionality: indicator should move downward.

Qualifications

The information obtained for this indicator was produced from unrelated secondary data sources and compiled by the Alberta Alcohol and Drug Abuse Commission (AADAC). The data systems were established for differing purposes and with different systems, therefore each indicator has limitations.

For example, illicit drug possession statistics are based on the actual number of charges laid as reported by the Royal Canadian Mounted Police (RCMP) and municipal police. This figure does not represent variations in law enforcement practices or differences in human resources, nor does it reflect convictions.

In addition, "separations" are defined as the discharge or death of an inpatient. The same patient may be admitted and discharged with the same diagnosis more than once within the same year.

Status

In 1993, the total dollar sales of alcoholic beverages from retail liquor stores per person aged 15 years and older was \$553.41. This statistic is based on data from the Capital Health Authority (CHA) and does not include retail liquor stores in the St. Albert area.

In 1993/94 the total separation rate (discharge or death of a patient) for alcohol-related primary and secondary diagnosis was 1.58 per thousand population (20 years and older). This information was obtained through admissions to Alberta acute care and psychiatric care hospitals.

In 1993, the police charge rate for cannabis and other illicit drug possession and trafficking was 2.67 per thousand, aged 15 years and older. This data is based on information from the CHA and includes St. Albert.

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The 1994/95 total separation rate for tobacco-related diseases as primary and secondary diagnosis was 0.74 per thousand, aged 20 years and older. This data is based on information from the CHA, and includes St. Albert.

Source: AADAC: Social and Health Indicators of Alcohol and Drug Abuse, April 1996

Current information was not available for this indicator as the above figures were obtained by special data runs on AADAC's behalf.

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4.0 Healthy Environment

Overview

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Air quality, water purity and natural surroundings are essential to individual health and community viability. Individual actions have an impact on the local, regional and global environment. Community initiatives play a key role in protecting and restoring the health of natural resources.

Edmonton has a variety of natural treasures which are essential and irreplaceable. Decisions concerning development have a profound impact on air quality, water quality, use of natural areas and demand for fossil fuels. Natural spaces that meet the needs of the whole community are a reflection of the city's commitment to preserving natural areas in sufficient quantities. The success of Edmontonians protecting and improving the natural environment for the future is dependent on current choices.

Monitoring indicators with regard to environmental changes will enhance informed decision making. There is a local, regional and global readiness to deal with environmental issues in a meaningful manner. If environmental change is not monitored, the opportunity to prevent irrevocable and unknown losses may be missed.

Healthy Environment includes...

- Environmentally sound use of air, water and land to safeguard these essential, life sustaining systems. There should be continuous improvement in practices affecting their quality.
- Protection of bio-geographical areas, habitat and wildlife.
- Attractive areas for recreational, cultural and spiritual needs.
- Using the natural resources in a sustainable manner.
- Protecting the environment for future generations.
- Ensuring the built environment (transportation, housing, land use change, urban structure, design and visual aesthetics) meets the needs of the community.
- Environmentally responsible utilities.
- A public which is informed about environmental issues.



4.1 Private Vehicle Usage

Kilometers travelled by private vehicle and litres of gasoline purchased.

Rationale

Travel by private vehicle consumes large amounts of fossil fuels and produces significant levels of emissions and noise. In addition to carbon dioxide and carbon monoxide, vehicles also release toxic air pollutants (such as volatile organic compounds). In Alberta, the transportation sector (all vehicles and fueling stations) releases twice the volume of toxic air pollution as industry. Reducing the distance travelled by private vehicles would reduce harmful environmental impacts.

Directionality: indicator should move downward.

Qualifications

The City of Edmonton 1994 Travel Survey measured the number of kilometers driven by city residents. To obtain this figure, information was taken during a "typical" fall weekday. It is important to consider that this figure is a sample and that the number of kilometers travelled may vary seasonally and the point in the week that the sample was collected (a weekday versus a weekend).

The Transportation Association of Canada released a report measuring transportation indicators in eight urban cities. In the report, the Association measured gasoline sales in Edmonton to determine consumption per person on an annual basis. City gasoline sales figures do not necessarily equal the number of residents purchasing gasoline as visitors purchase gasoline as they travel through the city. Also, other fuels, such as diesel and propane, are used for private vehicles, and are not included in the following figures.

Status

- The 1994 Travel Survey reported that the total kilometers driven by all City of Edmonton residents was 9,860,123 km.
- Dividing this number by the 1994 population figure of 628,383 indicates that 15.69 vehicle-kilometers were travelled per person each day.
- The Transportation Association of Canada measured gasoline sales for Edmonton for the period 1991 to 1994. The Association determined that 1,178 litres of gasoline per person were purchased on annual basis.

Updated studies pertaining to this indicator have not become available.

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4.2 Residential Energy Consumption Per Capita

Average amount of energy consumed annually by residential customers.

Rationale

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The majority of energy used in Alberta is derived from non-renewable fossil fuels. Effects range from reducing air quality to environmental impacts associated with the extraction, refining and transportation of fossil fuels. Ideally, the monitoring of this indicator will make energy users more aware of their individual contributions to overall energy consumption levels and depletion of resources, thereby encouraging responsible energy use.

Directionality: indicator should move downward.

Qualifications

Although greater efficiencies should be realized whenever possible (for example, building new homes that require less energy), the benefits may be seen only in the long term. Therefore, while changes should be monitored annually to capture emerging trends, they should not be expected to vary more than slightly in the short term.

It should be kept in mind that residential customers account for only a portion of energy consumers.

Status

• The average level of natural gas consumption per residential customer in 1996 was 150 Gigajoules per year (based on a 1,200 - 1,500) square foot home.

There were no significant changes in consumption in 1997. (Northwestern Utilities)

In 1997, the average consumption of electricity per residential customer was 529 kW-h (kilowatt hour) per month or 6,348 kW-h per year. This represents a decrease in consumption levels compared to 1996 when annual consumption averaged 6,456 kW-h. (EPCOR, formerly Edmonton Power)



4.3 Air Quality

Average percentage of time that air quality is rated good.

Rationale

Air quality can affect personal health, particularly for those suffering from allergies, asthma and other respiratory conditions. Dust, smoke and haze decrease visibility and certain pollutants can accelerate the weathering and deterioration of buildings, roads and other structures. Emissions from automobiles, factories, homes and other buildings contribute to air pollution affecting both the local environment, as well as the air quality of surrounding communities.

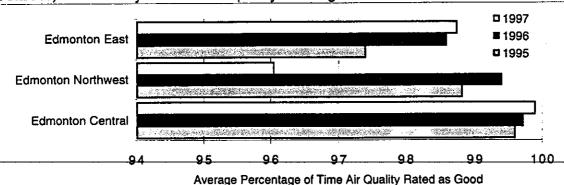
Directionality: the percentage of time that air quality readings are good should move upward.

Qualifications

Air quality is a standard index of readings based on selected pollutants at a specified location and period of time. Alberta Environmental Protection monitors air quality through three continuous (hourly) reading stations in the city. The monitored parameters are carbon monoxide, dust and smoke, nitrogen dioxide, ozone and sulphur dioxide. Results can be influenced by factors such as wind direction and temperature. The results are reported annually as a single Index of the Quality of the Air (IQUA).

Status

In 1995, the average percentage of time for which the air quality was rated as good for Edmonton monitoring stations was 98.6%. In 1996, this number increased to 99.23%. By 1997, the percentage of time where air quality was given a good rating dropped to 98.21%, due mostly to lower air quality readings at the Edmonton Northwest station.



Source: Alberta Environmental Protection, Air Quality Monitoring in Alberta: Summary Reports of 1995, 1996 and 1997

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4.4 River Water Quality

This indicator reflects water quality of the North Saskatchewan River upstream and downstream of Edmonton.

Rationale

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The North Saskatchewan River is an important environmental feature of the Edmonton area. The river is a source of drinking water, used for recreation and enjoyed for its aesthetic qualities. Water quality changes as the river flows through the city as treated effluent is discharged into the river and run-off from city streets enters the river from storm sewers.

Directionality: indicator should move upward. Furthermore, the difference between the upstream and downstream values should decrease, illustrating a diminishing adverse impact by the city on river water quality.

Qualifications

Alberta Environmental Protection measures water quality at monthly intervals. Twenty water quality variables from each sample are compared with the Alberta Ambient Water Quality Interim Guidelines (AWQG). These variables are divided into three categories (water recreation, aquatic life and agriculture) to assess how they affect river use. The three categories are part of the Water Quality Index (WQI). The Index rates the water as being either *good* (100-96% compliance), *fair* (95-86% compliance), *poor* (85-71% compliance) or *not acceptable* (70% compliance or lower) for the three different categories.

By the time the river reaches the city, water quality has been affected by factors such as upstream agricultural practices and activity in other communities. Consequently, an upstream water sample does not necessarily represent pristine river water quality.

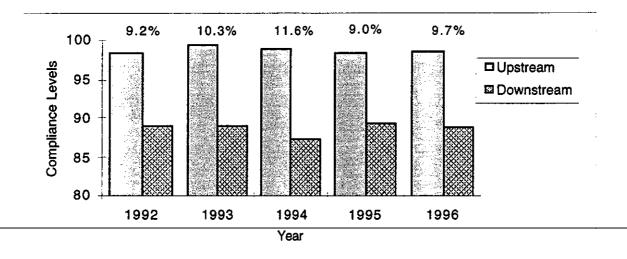


Status

The table below compares WQI results for 1995 and 1996:

| | 1995 | 1996 |
|-------------------------------|----------------|----------------|
| Upstream | | |
| Recreation | Good | Fair |
| Aquatic Life | Good | Good |
| Agriculture | Good | Good |
| Downstream | | |
| Recreation | Not Acceptable | Not Acceptable |
| Aquatic Life | Fair | Fair |
| Agriculture | Good | Good |
| Overall Upstream Compliance | 98.5% | 98.6% |
| Overall Downstream Compliance | 89.5% | 88.9% |
| Difference | 9.0% | 9.7% |

The following graph displays compliance levels upstream and downstream for 1992 to 1996. The figures above the bars in the chart display the difference between upstream and downstream values.



Source: Alberta Environmental Protection, Water Management Division

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4.5 Solid Waste Per Capita

This indicator has two components: the annual volume of residential waste per capita that goes to landfills and the annual volume of material contributed to the Blue Box program per capita.

Rationale

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Decreased landfill and increased recycling use reflect successful public education regarding waste management. It shows a willingness on the part of households to be more efficient in their use of materials, to participate in programs designed to reduce the potentially harmful impact a community has on the environment, and to consider the importance of long term environmental sustainability.

Directionality: the volume of waste going to landfills should move downward. The volume of material going to the blue box program should move upward in the short term, then downward as individuals learn to reduce the amount of materials that require disposal. In addition, the ratio between the two components should decrease.

Qualifications

This indicator does not:

- reflect the nature of the waste in terms of its damage to the environment;
- · account for separated composted materials;
- track materials to private recyclers or private landfills;
- measure changes in total volumes of waste as affected by changes in total population.

The population figure provided for 1997 is an estimate. The only measures available for waste and recyclables are estimates due to the use of private contractors.

Status

| | 1996 | 1997 |
|--------------------------------------------------------|---------|---------|
| WASTE | | |
| Total residential population (single and multi-family) | 616,305 | 626,477 |
| Single and multi-family waste (tonnes) | 235,950 | 194,000 |
| Tonnes per capita | 0.382 | 0.309 |
| RECYCLABLES | | |
| Blue box recyclables | 20,000 | 20,578 |
| Recycling depot recyclables | 4.000 | 4,709 |
| Total Recyclable | 24,000 | 25,287 |
| Tonnes per capita | 0.038 | 0.040 |

Source: City of Edmonton, Asset Management and Public Works; City of Edmonton, Planning and Development



4.6 Urban Green Space

This indicator measures green space by total green space area, the number of parks and hectares of park per 1000 people.

Rationale

Urban green spaces are used for spiritual renewal and aesthetic purposes as well as recognition and protection of Edmonton's heritage. Therefore, visual and physical accessibility to outdoor leisure space and natural areas is an important aspect of urban living. These spaces also provide a connection to nature and support a diversity of flora and fauna. The River Valley Parks System is one of the most significant features of the City of Edmonton.

Directionality: all components of this indicator should remain steady or move upward.

Qualifications

It will not be possible to preserve all natural areas as the city grows. Such growth may either encroach on surrounding rural land, or decrease green space within current city boundaries.

The majority of the data collected will not change substantially on an annual basis. For example, changes in the number of hectares of park per 1000 people are more likely to result from changes in the population rather than changes in park space.

The categories of green space are:

- 1. Naturalized/native areas: an alternative to conventional high maintenance landscaping which encourages natural growth of native plants, and includes forested and natural areas.
- 2. Park land/open space: includes parks, playgrounds, fields and recreation areas.

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According to 1995 statistics:

- The total hectares of land owned by Edmonton Community Services is approximately 4,300, while privately owned hectares are roughly *6,786, for total green space of approximately 11,086 hectares.
- Of that, the total hectares in the Edmonton area which are natural/native or private ("private" includes land not owned by Community Services) is approximately 7,343.
- The total number of parks city wide is 896 sites.

*Accuracy of this figure is dependent on the accuracy of estimates in the supporting data.

More current statistics have not been made available.

- In 1995, there were 6.81ha/1,000 (hectares of park per 1,000 people).
- In 1996, that number decreased slightly to 6.80.
- By 1997, in relation to an increase in population, the number of hectares of park per 1,000 dropped again to 6.69.

Source: City of Edmonton, Community Services; Population figures provided by City of Edmonton, Planning and Development (1997 estimated population)



4.7 Environmental In-Service Training for Teachers

Total number of teacher in-services per year on environmental education.

Rationale

Current and formal training for teachers is vital to providing quality education to students. This is particularly true for environmental education where concepts, standards and course content are changing rapidly.

Directionality: indicator should move upward.

Qualifications

Environmental in-service programs, which could include courses, seminars, workshops or other professional development activities, are offered by FEESA and Destination Conservation. FEESA promotes, communicates, coordinates and initiates the development and support of environmental education in Alberta. Destination Conservation (DC) is an activity-based program which combines environmental education with resource conservation.

Status

Up to three years of information is available for various components of this indicator. Although overall results are mixed, one element that stands out is the considerably high activity level of FEESA in the 1996/97 school year.

| FEESA: | 1995/96 | 1996/97 | 1997/98 |
|----------------------------------------------------------------------------------------------------------------------------------------------------|--------------|---------------|-----------------|
| Number of Edmonton teachers participating in full day in-services Number of teachers conventions Number of EcoLab/EcoTour programs available | 65 - - | 260 8 - | 8 0 8 1 1 |
| Destination Conservation: | | | |
| Schools participating in Student Conferences | - | 11 | 2 5 |
| Schools attending Initial In-service | - | 21 | 9 |
| Schools attending Fall In-service | • | 20 | 12 |
| Schools attending Spring (Professional Development) In-service | • | 15 | 13 |

Source: FEESA, An Environmental Education Society; Destination Conservation

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4.8 Environmental Content in the Classroom

The number of units in the school curriculum focused on environmental education.

Rationale

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Education is a fundamental mechanism to impart awareness and understanding of key concepts and principles. Education can also contribute to behaviour change. Therefore, the frequency of formal teaching of environmental topics is crucial to the environment.

Directionality: indicator should move in an upward direction and be maintained at a high level.

Qualifications

A survey of the school curriculum was performed for Alberta Education to identify where teachers could introduce environmental and sustainable development concepts.

FEESA, An Environmental Education Society, examined the science, social studies, environmental and outdoor education, and career and technology studies areas. Other subject areas, such as language arts, art, music and physical education, were not reviewed.

The number of program units determined for each grade reflect the areas which could accommodate environmental topics, not the actual number of environmental units which are taught. This is due to the selection of specific content being left, to some degree, to each teacher's discretion.

Status

There are approximately 50 units/topics areas that could accommodate environmental or sustainable development studies.

There has been no change in this number in the last year as it will vary only in response to changes in the curriculum.



| Grade/Subject | Number of Topic Areas | Number of Units |
|-----------------------------------|-----------------------|-----------------|
| Grade 1 | 1 topic area | • |
| Grade 2 | 3 topic areas | - |
| Grade 3 | 4 topic areas | <u> </u> |
| Grade 4 | 3 topic areas | • |
| Grade 5 | 4 topic areas | • |
| Grade 6 | 2 topic areas | • |
| Grade 7 | 1 topic area | 2 units |
| Grade 8 | 2 topic areas | 2 units |
| Grade 9 | 1 topic area | 2 units |
| Grade 10 | 4 topic areas | 1 unit |
| Grade 11 | - | 5 units |
| Grade 12 | • | 3 units |
| Career and Technology Studies | 6 topic areas | • |
| Environment and Outdoor Education | 4 topic areas | • |

Source: FEESA, An Environmental Education Society



5.0 Healthy Community

Overview

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In order to assess Edmonton's community health, the Healthy Community working committee needed to identify those factors that enhance and foster community well-being. The committee members began with several concepts that describe a healthy community. Some of the concepts are:

- · access to quality education;
- · commitment to helping others and improving the community;
- reliable physical and social infrastructures;
- · participation in decision making processes;
- public safety and security;
- support for the vulnerable;
- · appreciation for diversity and social justice; and
- · access to activities.

Indicators to assess community health were then developed. It needs to be recognized that even when all elements for a healthy community are in place, participation in a community continues to be influenced by individual issues, resources and choices.

Healthy Community includes...

- A sense of community built on local connections.
- Opportunities to enjoy and participate in a rich variety of leisure activities, performing and visual arts, sports and special events.
- Opportunities to participate in decision-making.
- Fostering ways for people to contribute to community life.
- A sense of safety and security.
- Promoting commitment to community and responsibility to each other.
- Structures, facilities, services, processes and institutions that meet the needs of the community.
- Avenues of expression for personal talents or interests.
- Treating all people with respect, valuing diversity.
- Philanthropy and volunteerism.
- Education as it relates to range of opportunities, in and outside of school settings;
 literacy; school enrollment; and school achievement. Educational opportunities for the development of both critical thinking and practical knowledge.



5.1 Enrollment in Post-Secondary Institutions

The number of individuals enrolled in post-secondary institutions in the city.

Rationale

Enrollment in post-secondary institutions reflects a motivation to pursue higher or additional levels of education. The health of the community is improved by such pursuits, whether they are to attain goals of an occupational, personal or community-oriented nature.

Directionality: indicator should move upward.

Qualifications

Students come to Edmonton to study from other communities. Likewise, students may not stay upon completion of their programs. Some part-time figures may include multiple registrations. Enrollment figures at Alberta Vocational College for the 1997/98 academic year are estimates. The following figures do not reflect non-credit course enrollment.

Status

Alberta Advanced Education and Career Development tracks enrollment at Edmonton post-secondary institutions.

| | 199 | 5/96 | 1990 | 6/97 | 199 | 7/98 |
|-----------------------------------------|---------------|---------------|---------------|---------------|---------------|---------------|
| | Full- time | Part- time | Full- time | Part- time | Full- time | Part- time |
| Public Institutions | titio | | 1 | | 1 | |
| University of Alberta | 25,502 | 3,552 | 26,130 | 3,728 | 25,842 | 3,994 |
| Grant MacEwan | 4,728 | 4,194 | 5,169 | 3,998 | 5,517 | 1,718 |
| NAIT | 6,523 | 3,122 | 6,232 | 3,061 | 6,823 | 2,612 |
| Alberta Vocational College - Edmonton | 3,142 | 4,138 | 3,107 | 2,965 | 2,097 | 2,001 |
| Accredited Private Colleges | <u>,</u> | | | | | |
| Concordia University College of Alberta | 1,119 | 244 | 975 | 309 | 997 | 269 |
| King's University College | 442 | 49 | 436 | 4 5 | 458 | 4 5 |

Source: Alberta Advanced Education and Career Development

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5.2 Charitable Donations Per Capita

The average amount of money donated to charity per year.

Rationale

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The act of giving personal financial resources is a demonstration of an individual's commitment to, and interest in, the quality of life in the community.

Directionality: indicator should move upward.

Qualifications

Charities are defined as those organizations which are able to provide a tax receipt and include places of worship, foundations and non-profit organizations. Some non-profit organizations do not have charitable status, therefore donations to these groups would not be measured by the data source used for this indicator.

Status

Based on tax filer data for the Edmonton Census Metropolitan Area:

- In 1994, 116,360 individuals made charitable donations totalling approximately \$82,273,000, with an average donation of \$707.06.
- In 1995 donations totalling \$119,956,000 were made by 163,700 Edmontonians with the average donation being \$732.78.
- Average donations continued to rise in 1996, with 164,160 Edmontonians donating an average of \$799.44 to charities, for total donations of \$131,236,000.

Source: Statistics Canada



5.3 Voter Turnout

Percentage of eligible voters who cast ballots in municipal, provincial and federal elections.

Rationale

Voter turnout is a measure of the value voters place on participating in the democratic process, the level of interest in public life and the willingness to support the declared candidates.

Directionality: indicator should move upward.

Qualifications

Likely the primary reason people vote is that voting is seen as a means of affecting future decisions made by government. It is impossible to know what compels an individual to vote; the only measurable action is voting.

This indicator cannot be updated on an annual basis due to the length of terms of office. The number of ballots cast include those which are not considered valid. Voter turnout is being measured for general elections, which typically have higher turnout rates than referenda, by-elections or plebiscites. A minor portion of any variance may be due to changes in the electoral boundaries between elections.

Although the St. Albert and Sherwood Park ridings are considered by the provincial Chief Electoral Officer to be part of the Edmonton area, election results for these communities are not used in calculating voter turnout.

Status

- The 1993 federal election had a voter turnout rate of 62.3% Voter turnout in the 1997 election was five percent lower, at 57.3%.
- A comparison of the 1993 and 1997 provincial elections likewise shows a decrease in voter turnout results, with rates of 59.2% and 56.4% respectively.
- Municipal elections have also seen a decline in voter turnout. In the 1995 municipal election, half (50.3%) of the eligible voters cast ballots. By comparison, 1998 voter turnout was approximately 15% lower, with a rate of 35.67%.

Source:

Federal Election - Elections Canada

Provincial Election - Office of the Chief Electoral Officer

Municipal Election - City Clerk's Office

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5.4 Public Safety and Security

This indicator measures how safe individuals feel and the crime rate for person related and property crimes.

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High levels of fear of crime can be devastating to a community, even if that fear is out of proportion to the actual probability of falling victim to criminal activity. It may have a negative influence on other aspects of the community such as lowered property values or decreased interaction among community members.

The crime rate is the generally accepted measure of the amount of crime occurring within a community. Converting the number of crimes to a rate per one thousand balances the effect a change in population size or demographics may have on the number of crimes.

Directionality: indicator should move downward.

Qualifications

The Fear of Crime Index draws its information from three questions included in the Citizen Survey. The Index is a composite of the responses, with scores ranging from 0 (least fearful) to 19 (most fearful). As the Index uses a consistent method of data collection, longitudinal comparisons are meaningful. The three questions used each time are:

- How safe do you feel walking alone in the dark?
- Is there a place in your neighborhood where you feel unsafe alone?
- In general, how often do you avoid going out after dark because of crime?

There are aspects of the *Index* that are subjective. For example, respondents answer the second question based on their perception or definition of "neighbourhood". When "Edmonton" was substituted for "your neighborhood", the answers indicated higher levels of fear.

At what level fear is healthy or unhealthy is not clear. A natural assumption is to target 0 (least fearful), but this may be illogical as a certain level of fear compels people to avoid potentially dangerous situations.

The crime rate is affected by the reporting rate for criminal occurrences. Reporting rates for different types of criminal activities are thought to differ significantly. For example, it is believed that the number of incidents of abuse and sexual assault are much higher than actually reported.



Status

Trends in the fear of crime and the crime rate show increases in both:

• The Fear Index in 1996 was 10.68; in 1993 it was 10.00.

The *Fear Index* is done in alternate years. Updated information will be available in 1999.

- In 1996 there were 8,389 reported incidents of Person Related Crime, or 13.61 incidents per thousand people. In 1997, there were 8,640 incidents, or 13.79 incidents per thousand.
- The 1996 the Property Related Crime Rate was 80.39 (49,545 incidents). In 1997, the rate increased to 81.99, based on 51,366 reported incidents.

Source: Edmonton Police Service, Planning and Evaluation Services (formerly Community and Organizational Support Section)

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5.5 Physical Urban Infrastructure

This indicator measures the condition of infrastructure and annual capital budgets.

Rationale

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Physical infrastructure maintained at an adequate level enables the city and its residents to function effectively and efficiently.

Directionality: indicator should be maintained at current levels or move upward.

Qualifications

In most cases, the condition of city infrastructure is not measured in a standardized method, nor is it evaluated annually. It is assumed that the standards set for infrastructure are adequate. This indicator does not include the infrastructure maintained by utilities such as EPCOR, Northwestern Utilities and Telus.

Status

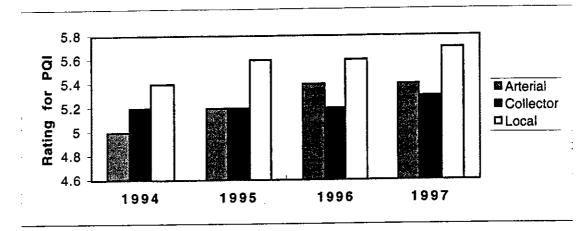
The 1996 rating of infrastructure related to leisure and recreation is displayed below. Assessment is performed by city departments.

| ENTERPRISE FACILITIES | GOOD | FAIR | POOR |
|---------------------------------------------------------------------------|----------------------------------------|----------------------------------------|-------------------------------------|
| ENTENENISE PAOIEITIES | | | |
| Muttart Golf Courses Heritage Facilities Sports/Fitness Fort Edmonton/Zoo | 60% 25% 59% 90% 86% | 30% 40% 30% 6% 10% | 10% 35% 11% 4% 4% |
| CITY FACILITIES | | | |
| Park Amenities Buildings/Structures Arenas Pools Sportsfields Playgrounds | 60% 85% 63% 70% 60% 55% | 20% 13% 21% 25% 29% 37% | 20% 2% 16% 5% 11% 8% |

Source: City of Edmonton, Community Services



The assessment for city roads is based on the *Pavement Quality Index* (PQI) which rates the roads on a scale of 0 - 10, 0 being the poorest rating. The optimal rating is between 6 and 6.5. This is believed to be the most effective and cost efficient road rating to maintain. The ratings for the arterial, collector and local roads for 1994 - 1997 are displayed on the graph below.



Source: City of Edmonton, Transportation and Streets

The following table compares capital budgets for 1996,1997 and 1998 for selected departments. Figures are not available for all departments and all years due to restructuring. Subsequent to 1996, the Municipal Airport was no longer considered part of the city's infrastructure.

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1996 - 1998 Approved Capital Budgets (\$000)

| | 1996 | 1997 | 1998 |
|--------------------------|---------|---------|---------|
| Tax Supported | | | |
| Computing Resources | 2,807 | 1,250 | - |
| Downtown Development | 4,253 | - | • |
| Edmonton Public Library | 1,232 | 1,399 | 2,434 |
| Finance | 1,578 | 2,200 | - |
| Office of the City Clerk | 167 | 182 | |
| Planning & Development | 5,770 | 16,606 | 722 |
| Storm Drainage | 7,045 | 10,507 | 10,896 |
| Economic Development | 330 | 672 | 1,990 |
| Edmonton Police Service | 7,515 | 2,437 | 3,215 |
| Emergency Response | 7,020 | 5,454 | 1,135 |
| Mill Woods Enterprise | 1,600 | 3,697 | • |
| Parks and Recreation | 18,890 | 28,705 | - |
| Public Works | 74,693 | 81,203 | 47,961 |
| Transportation | 9,464 | 18,764 | 78,802 |
| Waste Management | 11,748 | 7,886 | |
| Community Services | • | - | 18,967 |
| Corporate Services | - | - | 8,023 |
| TOTAL TAX SUPPORTED | 154,112 | 180,962 | 174,145 |
| Non-Tax Supported | | | |
| Municipal Airport | 2,895 | | - |
| Sanitary Drainage | 28,829 | 21,688 | 25,592 |
| Water Branch | 32,654 | • | • |
| TOTAL NON-TAX SUPPORTED | 64,378 | 21,688 | 25,592 |
| TOTAL CAPITAL BUDGET | 218,490 | 202,650 | 199,737 |

Source: City of Edmonton, Finance Department

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5.6 Suicide Rate

Suicide rate per 100,000 population.

Rationale

Suicide could be viewed as a final expression of poor mental health, although suicide itself is an act, not an illness.

Directionality: indicator should move downward.

Qualifications

The suicide rate does not reflect the number of people who attempt suicide; it is also lower than the actual number of deaths by suicide, as some suicides are classified as accidental deaths.

Status

- In 1995, there were 114 deaths by suicide, or 18.2 suicides per 100,000.
- In 1996, there were 128 suicides, increasing the rate to 20.8.

Source: Office of the Chief Medical Examiner

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5.7 Access to Medical Services

This indicator measures access to cardiovascular surgery, joint replacement surgery, magnetic resonance imaging (MRI) and continuing care.

Rationale

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Community health is often assessed by the number of patients waiting for care and the length of their wait before receiving care. Health and well-being is supported by receiving medical care in a timely manner.

Directionality: waiting lists and times for this indicator should move downward.

Qualifications

Additional services need to be considered to develop a comprehensive measure of access to medical services (e.g. walk-in care, specialized service, emergency response, etc.).

What constitutes a "reasonable" waiting list or waiting time will vary between health care providers, patients and policy makers.

Status

- For the quarter ending March 31, 1996, 938 individuals were waiting for joint replacements. For the same period in 1997, there was a significant decrease with 517 people waiting for joint replacement surgery.
- The number of people waiting for magnetic resonance imaging (MRI) was 1,188 as of March 31, 1996. This number increased to 1,220 as of March 31, 1997.
- The waiting list for cardiovascular surgery was reported as 332 individuals in March, 1996; a year later, the waiting list had decreased by about one third to 226.
- The average waiting time for cardiovascular surgery also decreased. For the quarter **January March 1997** it averaged **133** days for urgent outpatient and **9** days for urgent inpatient care as compared to 1996 average waiting times of 159 days and 12 days respectively.
- In February of 1996, the waiting list for admission to continuing care was 303 patients.
 By September 1997, the waiting list had increased to 481 patients.

Source: Capital Health Annual Report 1995/96; Capital Health Performance Indicators and Measures, August 1997 and January 1998



5.8 Number of Hospital Beds

The number of hospital beds available for continuing care, acute care, psychiatric care and new options such as Assisted Living Centres and Family Day Homes.

Rationale

This indicator is one measure of the accessibility of health care resources in the community.

Directionality: indicator levels should match community need.

Qualifications

Community need is difficult to assess as approximately 30% of in-patient acute care beds are occupied by out of region patients.

All beds at the Glenrose Hospital are rehabilitation beds; the Edmonton General Hospital is now dedicated to long term care.

1995/96 acute care statistics were provided by Alberta Health; 1997/98 statistics were provided by the Capital Health Authority and cover the period September 1997 - March 1998 (statistics for the intervening period were not collected).

Status

The following continuing care information is taken from Capital Health's Annual Reports (1995/96 and 1996/97) and includes St. Albert:

| | 1995/96 | 1996/97 |
|----------------------------------------------------------|---------|---------|
| Conventional Beds | 3,575 | 3,647 |
| New Option Beds | 174 | 174 |
| TOTAL | 3,749 | 3,821 |
| Number of beds per 1,000 CHA residents aged 65 and older | 52.4 | 49.4 |

The number of acute care beds in the Edmonton area is as follows:

| | 1995/96 | 1997/98 |
|----------------------------------------|---------|---------|
| Glenrose Rehabilitation Hospital | 147 | - |
| Misericordia Hospital | 160 | 157 |
| Edmonton General Hospital | 160 | - |
| Royal Alexandra Hospital | 540 | 517 |
| University of Alberta Hospital | 550 | 573 |
| TOTAL | 1,557 | 1,247 |
| Acute care beds per 1,000 Edmontonians | 2.53 | 1.99 |

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For this report, the number of <u>psychiatric care</u> beds are those located at the Alberta Hospital Edmonton and managed by the Provincial Mental Health Board. It should be noted that psychiatric care is also provided at Edmonton hospitals managed by the Capital Health Authority, and is reflected in the acute care statistics.

The number of psychiatric care beds at Alberta Hospital Edmonton has held steady at 404 beds for three consecutive fiscal years (April 1, 1995 - March 31, 1998).

Source: Alberta Health; Capital Health Authority, Clinical Quality Utilization; Alberta Hospital Edmonton; Provincial Mental Health Advisory Board Annual Report, 1996 - 1997

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5.9 Leisure Activities

This indicator measures participation in leisure activities by counting the number of visits to recreational facilities and attendance at sports events, arts events and festivals.

Rationale

Participation in leisure activities is critical to healthy people and healthy communities. The pursuit of leisure activities illustrates that people have resources to devote to an activity not essential to their economic well-being. Participation levels are in part a measure of the quality of the arts, cultural and sporting events available locally.

Directionality: indicator should move upward.

Qualifications

For a more comprehensive indicator, it may need to be expanded to include participation related to concerts, theatre and dance. There are many leisure activities that are not captured by attendance or use levels (e.g. reading, walking). It should be noted that local events often attract attendees from outside the city. Figures for leisure centres include attendance at the recreation and aquatic components of the leisure centres.

Status

The attendance figures for facilities and events are presented in the following table.

| | 1995 or 1995/96 Season | 1996 or 1996/97 Season | 1997 or 1997/98 Season |
|----------------------------------------|---------------------------|---------------------------|---------------------------|
| Arenas | 1,900,604 | 2,085,664 | 2,123,819 |
| City Arts Centre | 29,038 | 25,191 | 26,194 |
| Kinsmen Sports Centre | 800,390 | 769,889 | 772,849 |
| Valley Zoo | 209,644 | 223,915 | 195,418 |
| Commonwealth Stadium Enterprises | 430,723 | 470,907 | 618,343 |
| Fort Edmonton Park | 211,340 | 202,817 | 195,731 |
| Golf Courses | 200,000 | 163,000 | 181,376 |
| Leisure Centres | 2,013,068 | 2,068,358 | 1,963,268 |
| Muttart Conservatory | 119,455 | 130,894 | 127,838 |
| John Janzen Nature Centre | 83,741 | 72,702 | 67,035 |
| Edmonton Symphony Orchestra | 105,334 | 115,200 | 147,414 |
| Edmonton Opera | 34,000 | 24,000 | 22,000 |
| Number of Arts Events and Festivals | 55 | 5 6 | 5 9 |
| Number of Festival Attendees (approx.) | 2,500,000 | 2,400,000 | 2,350,000 |

Source: City of Edmonton, Community Services; Edmonton Symphony Orchestra; Edmonton Opera

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5.10 Early Intervention to Assist Children

There are three initiatives which focus on early intervention to assist children: Success by Six, Health for Two and Healthy Start. The number of children and parents involved in these programs should be tracked on an annual basis.

Rationale

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The care and support of children is a very important element of quality of life in a healthy community. This indicator is designed to measure how well the community supports child development and responds to the needs of its children. Nutritious food, pre-natal care and good educational beginnings are cornerstones for healthy development.

Directionality: indicator does not have a specific direction.

Qualifications

Programs which have been selected provide an indication of the community response to children's needs, but these programs are not a comprehensive measure of this indicator. For example, Health for Two does not capture the number of new mothers who live in isolation and do not participate in the program. It can only educate, assist and survey the mothers in the program.

The Success by Six and Health for Two programs are relatively new initiatives which are currently developing a standardized method for annual assessment. It should be noted that Head Start programs are offered by a number of agencies, only one of which is measured in this report.

Another significant development not captured by this indicator is the recent establishment of an Early Head Start Program in partnership with the Capital Health Authority and Edmonton Public Schools. The program is now serving 60 low-income families with children from birth to three and half years of age.

Status

ABC Head Start has been in operation since 1985 as an early intervention, prekindergarten initiative for children of low-income families. Its increased participation, based on selected school years, is outlined below:

| | 1995/96 | 1996/97 | 1997/98 |
|----------------------------------------------|------------|---------|---------|
| Number of programs offered | 9 | 12 | 16 |
| Number of schools offering the programs | 5 _ | 6_ | 10 |
| Number of volunteers | 45 | 50 | 53 |
| Number of children and their families served | 144 | 192 | 256 |



Other important elements of the demand for ABC Head Start's programs include:

- Continued waiting lists for all programs and increased waiting lists for some programs throughout the school year;
- Health screening increased from screening for vision and dental to include hearing and psychological assessments;
- Health screening becoming available on site, not only from the Glenrose Pre-School Assessment Centre, but also from a pediatric developmental physician and psychologists; and
- Increased role for ABC Head Start in connecting children and their families to integrated psychiatric, diagnostic treatment and support services.

Source: ABC Head Start

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6.0 Indicators for the Future

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Seven indicators for the future were identified by the working committees. They were not included as indicators in Edmonton LIFE as they are not currently monitored in a quantifiable way. Despite the lack of available measures, these concepts were retained within the project as each one was deemed an important contributor to quality of life. The goal is to incorporate them as indicators at such time as the appropriate data becomes available.

Indicators for the future are...

- · Corporate Revenue Spent on Training
- People With Income to Meet Basic Needs
- Pre-School Aged Children with Developmentally-Appropriate Behaviour and Skills
- Community Design
- Total Air Emissions
- Public Environmental Awareness and Satisfaction
- Volunteer Time

6.1 Corporate Revenue Spent on Training (Healthy Economy)

Percentage of total corporate profits spent on employee training.

Rationale

This indicator would reflect the commitment of business to human capital.

6.2 People With Income to Meet Basic Needs (Healthy Economy)

Percentage of the total population with adequate disposable income to meet basic needs.

Rationale

Without an income source secure enough to reliably provide the basic needs of life (food, clothing, shelter), enhanced quality of life is not possible.



6.3 Pre-School Aged Children With Developmentally Appropriate Behaviour and Skills (Healthy People)

Percentage of pre-school aged children with developmentally appropriate behaviour and skills.

Rationale

This indicator would determine the number of very young children who are considered to be developmentally "ready to learn." Children's social and intellectual skills reflect many aspects of their quality of life to that point: relationships, nutrition, sense of security, exposure to learning opportunities, resiliency, and so on.

6.4 Community Design (Healthy Environment)

There are two components to this indicator: the percentage of new and existing communities where density meets or exceeds the city average and the percentage of new and existing communities where occupants are within 400 metres of a mix of stores and services, transit, parks and open spaces.

Rationale

Higher density communities consume less land and can support infrastructure costs. By providing a mix of facilities within walking distance, dependence on private vehicles would be reduced. An increase in the number of communities meeting this standard would reduce the impact of the built environment on the natural environment.

6.5 Total Air Emissions (Healthy Environment)

Levels of atmospheric emissions from all reported sources.

Rationale

The volumes and toxicity of emissions affect the respiratory health of individuals, aesthetic surroundings and the ability to support a diverse wildlife population. Nearly 3,000 different chemicals have been identified in the atmosphere. Unlike the Index of the Quality of Air, which measures five air pollution parameters (see Indicator 4.3), this indicator would monitor all chemicals released into the air.

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6.6 Public Environmental Awareness and Satisfaction (Healthy Environment)

Individual awareness and satisfaction levels regarding the environment in Edmonton as reflected in surveys on environmental issues.

Rationale

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Most of the environmental indicators measure physical changes in the environment. This indicator would measure Edmontonians' perceptions, levels of awareness of change and effectiveness of public information campaigns.

6.7 Volunteer Time (Healthy Community)

The percentage of the adult population volunteering and the hours of volunteer time contributed.

Rationale

This indicator would show the extent to which individuals are involved in activities that are meaningful to them and enhance the personal, social, educational, recreational, cultural, environmental and economic structures in the city.



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Appendix - Indicator Selection

In order to assess quality of life, the concept itself had to be defined, and the factors in the local context that support the city's well-being needed to be determined.

Guided by the framework of the *Beliefs* and *Vision*, the project identified four elements contributing to quality of life: healthy economy, healthy people, healthy environment and healthy community.

A steering committee and four working committees (one for each element) were involved in the initial phase of the project. The steering committee developed a reporting format for the working committees. It also established principles and criteria for the selection of indicators, and reviewed and approved working committee documents.

The working committees were responsible for defining the elements and identifying a set of indicators that would provide a comprehensive view of that element. The committees consisted of individuals with expertise in a particular area and a familiarity with indicators. The working committees ensured that each measure met all the criteria established by the steering committee.

Focus groups were also used to pinpoint key aspects of quality of life in Edmonton. Approximately 147 people from a cross section of the community provided a broad perspective on quality of life issues. At the same time as the focus groups were being held, over 2,000 questionnaires were distributed to individuals from various sectors of the community. In addition to these groups, a number of focus groups were held in collaboration with the Muttart Foundation project *Edmonton 2005: A Place for All.*

Although the focus groups and questionnaires surveyed a broad spectrum of individuals, the responses supported the concepts emerging from the working committees. These common responses created confidence that the project's focus and direction would be representative of the priorities of Edmontonians.

Annual reports will provide an ongoing assessment of quality of life in Edmonton.

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