

# **BC Municipal Solid Waste Tracking Report**

## **1999**

**Prepared by:**





**BC Municipal Solid  
Waste  
Tracking Report**

**1999**

## **Acknowledgement**

The Ministry of Environment, Lands and Parks and the Recycling Council of BC would like to thank the regional district staff that participated in the completion of this report by supplying regional data. We greatly appreciate their cooperation and efforts, as without their input this project would not be possible.

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## Executive Summary

The goal established in 1989 for solid waste reduction in British Columbia was to reduce the provincial per capita disposal rate by the year 2000 to 50 per cent of the 1990 rate. The main purpose of this report is to present British Columbia's progress toward this goal.

This report presents 1999 municipal solid waste (MSW) tracking data provided to the Ministry of Environment, Lands and Parks (MELP) by regional districts. The report also provides a province-wide update on regional waste management initiatives.

In 1999 the provincial disposal rate was **0.613** tonnes per capita, representing a **35%** reduction in MSW landfilled or incinerated when compared to 1990. The 1990 baseline for disposal was **0.944** tonnes per capita.

Compared to 1998, there was a **1.8%** increase in the amount of MSW disposed in landfills and a **0.6%** increase in the population.

Between 1990 and 1999, the total waste disposed per year dropped from 2,890,516 tonnes to 2,467,356 tonnes, a **15 %** reduction. During the same period of time the provincial population increased by **32%**.

The provincial per capita recycling rate was **0.445** tonnes in 1999, a **107%** increase compared to 1990. A minimal difference exists between 1998 and 1999 rates. As in previous years, this figure under-estimates the amount of recycling occurring because it does not include all the materials recycled by private firms.

Part of this increase is the result of including most of the material recycled by provincial and stewardship programs in the 1999 figures. In 1999, 143,596 tonnes of material were recycled through regulated industry stewardship programs as well as provincially run initiatives. This material accounts for **8.1%**, by weight of the total amount of recyclables reported in BC.

Responses to the questionnaire on recycling programs/initiatives indicate that numerous regional districts are actively involved in waste diversion activities. Regional districts or municipalities run many of the programs, although private industry is also involved. Most programs are more accessible in higher density areas.

Trends in waste reduction vary widely from regional district to regional district. This variation can be attributed to different levels of MSW reduction initiatives undertaken by regional districts, the ability of the regional districts to track disposal and recycling activities, and the tracking methodology used.

## 1.0 Introduction

### 1.1 Background

The 1989 amendment to the *Waste Management Act* required regional districts to submit solid waste management plans (SWMP) to the Ministry of Environment, Lands and Parks (MELP) for approval by the Minister. The purpose of these plans was to establish a system for management of the regional municipal solid waste (MSW) stream in accordance with the **5R** hierarchy.

Subsequently, a 1992 amendment to the *Waste Management Act* defined MSW as (a) refuse that originates from residential, commercial, institutional, demolition, land clearing or construction sources or (b) refuse specified by a manager to be included in a waste management plan. This definition implicitly excludes sewage sludge, agricultural waste and industrial wood waste. The amendment also expanded the scope of MSW management to include recyclable materials.

The importance of collecting MSW data was discussed in the Guide to the Preparation of Regional Solid Waste Management Plans by Regional Districts (1994):

*95 (1) Knowledge of the weight and nature of the solid waste requiring disposal is essential, not only for setting priorities for further high level management strategies but for evaluating the effectiveness of the plan in meeting the reduction goal.*

The Planning Guide specifies that regional district plans should contain a commitment to submitting an annual report to MELP on the per capita amount of MSW requiring disposal for the plan area.

In 1990, MELP established the MSW tracking system to monitor British Columbia's progress toward meeting its year 2000 reduction goal. An annual MSW Tracking Report is published by MELP, based on data supplied by the regional districts.

Since 1996, the Recycling Council of BC (RCBC) has prepared the tracking reports under contract to MELP. RCBC is a multi-sectoral, non-profit organization that works towards waste avoidance while also supporting waste management solutions through research and information exchange services.

## **1.2 Provincial Waste Reduction Goal and Regional Districts' Role**

The provincial goal is a reduction in the per capita amount of MSW requiring disposal by the end of the year 2000 to 50% of the 1990 per capita disposal rate. The ministry expects that each regional district will help achieve the provincial goal by reducing its waste stream as much as possible given its geographic and financial situation as well as the nature of the regional waste stream.

## **1.3 Objectives and Purpose**

The primary objective of the tracking process is to monitor the amount of MSW landfilled or incinerated within each regional district and the province as a whole. Its secondary objective is to track the amount and type of material being recycled.

The purpose of this report is to present the 1999 MSW tracking results as provided by the regional districts. This report, like the one for 1996, also provides the results of a questionnaire on regional MSW management initiatives.

Regional data presented in this report are not intended to be a means of comparison among districts. Regionally specific circumstances, resources, and infrastructure are paramount in determining the capacity of each regional district to provide MSW management programs.

## **1.4 Data Uncertainties and Limitations**

The data included in this report reflect the amount and type of waste that regional districts are able to track. However, the accuracy of the data provided varies according to local circumstance such as the availability of staff and/or weigh scales at disposal sites. As a result, some regional districts are able to provide more rigorous data than others. Data for disposed waste is the most accurate as regional districts can record or measure the amount of waste entering disposal facilities.

On the other hand, regional districts are often unable to measure all of the waste being recycled within their jurisdiction. While many are able to track residential recycled waste, industrial, commercial and institutional sector figures are more difficult to obtain. Typically, this information belongs to private companies, which are not required to make it public. Therefore, the data for recycled waste under-estimates the amount of recycling that occurs, leading to a corresponding under-estimate of the total waste generated.

Information is generally more accurate for urban areas than for rural areas. This reflects the larger and more sophisticated waste facilities serving urban areas, most of which have weigh scales and tipping fees. In contrast, many rural facilities are unstaffed and lack scales or tipping fees.

As the most relevant analysis when studying MSW tracking results is to consider yearly trends rather than absolute numbers, it is important to acknowledge the factors that affect the accuracy of one year's data compared to the next. Such factors could result in either more accurate or less accurate data. A good example is the addition of a weigh scale to a disposal facility that did not have one previously.

A sensitivity analysis was carried out for the 1997/98 report. The results of this analysis indicated that the larger the population of a regional district, the larger its per cent contribution to the total waste disposed in the province, and thus the larger the potential impact of uncertainty in its disposal figures on the provincial disposal rate reduction. For a more complete explanation of the effect of regional district populations see Section 3.1.2 in the BC Municipal Solid Waste Tracking Report 1997/1998.

The ministry acknowledges the above uncertainties as an inherent part of the tracking system. Attention is thus focused on the amount of waste disposed, rather than the amount of waste recycled, as the former is the most rigorous and relevant to the waste reduction goal. A set of guidelines also accompanied each data collection form with the assumption that this would establish a standard for the information provided by the regional districts.

Although every attempt has been made to confirm anomalous figures with the regional district, the ministry does not accept responsibility for verifying the accuracy of submitted data. That responsibility rests with the regional district.

## **2.0 Methodology**

### **2.1 Accounting for Missing Disposal Data**

In the 1996 and 1997/98 Tracking Reports, where a regional district was unable to provide disposal data, its waste disposed figure was calculated by multiplying the regional population for that year by a per capita disposal rate considered reasonable in comparison to regional districts with similar characteristics. For the 1999 Tracking Report, calculations for regional districts that did not supply disposal data were based on the assumption that regional waste generation rates had not changed between 1998 and 1999.

Accordingly, the total waste disposed value for each regional district with missing data was calculated by multiplying its 1998 disposal rate by its 1999 population. The populations were obtained from the BC STATS website ([www.bcstats.gov.bc.ca](http://www.bcstats.gov.bc.ca)).

## **2.2 Collection of 1999 Data**

The format of the 1999 data collection sheet was modified from that used previously in order to accommodate additional recycling and waste disposal program information. In the process of making these additions it was necessary to divide the form into two separate sections. Data from the first section on disposal and recycling rates can be found in Section 3.0 while the information on regional district recycling programs/initiatives can be found in Appendix I.

In most cases the form was distributed to each regional district electronically. Data received from regional districts was formatted in the output model and returned for verification. Verified data is labelled as 'Confirmed by Regional District' and unverified data is labelled as 'Draft'.

### 2.2.1 Disposal Data

Three regional districts did not submit data for the 1999 report, with their combined population being 1.5% of the provincial total. The missing disposal rates for these regional districts were estimated using the method described in Section 2.1. Regional district disposal rates calculated using this method are labelled as '1998 Per Capita Disposal Rate.'

### 2.2.2 Recycling Data

In 1990, not all regional districts were tracking recycling activities. If the information was reported, however, it has been included in this report. Furthermore, as many recycling activities went unreported in 1990, the actual 1990 recycling rate is higher than that presented here.

While the collection of recycling data has improved since 1990, it is still incomplete. For instance, regional districts may not track similar items using standard methodologies, and it is difficult to account for all recycling occurring in more rural areas. Moreover, in regional districts where most recycling occurs privately, this tonnage is either not included or has been estimated.

As a result of these uncertainties it is more useful to identify yearly trends within the regional district, rather than analysing the absolute numbers. It should also be assumed that the recycling figures are minimum estimates.

### 2.2.3 Collection of Provincial Stewardship Program Data

In order to provide a more complete picture of the amount of material recycled in BC, MELP compiled data on the material recovered through both regulated industry stewardship programs and provincial recycling programs. As the figures pertaining to all industry stewardship programs are not available on a regional basis, this information is reported for the province as a whole (see Table 2, Section 3.1.2). Furthermore, as the stewardship agency, not the ministry, reported this data, the ministry does not accept responsibility for the accuracy of the information.

As some stewardship agencies do not record collected material by weight, some of these figures were converted in order to calculate a more accurate total. For instance, litres of used oil were converted to tonnes using a conversion factor of 1 tonne per 1147 litres. However, it was not possible to convert 'equivalent litre containers' or 'containers' to a weight. Therefore the total weight of material recycled through stewardship programs in 1999 does not include paint, residuals and the beverage containers collected by Brewer's Distributor Ltd.

This total is included in the total waste recycled and total waste generated values found in the provincial summary (See Section 3.1.3). Although not all stewardship programs report on a calendar year basis, it was assumed that the tonnage for the fiscal year would be virtually the same as for the calendar year.

Some regional districts estimate material recycled through stewardship programs within their regional district and include this information in their recycling totals. As the regional districts take the time to track this material, it has been included in the regional district summaries, but was not used to calculate the provincial total of material recycled through stewardship programs.

## **2.3 Calculations**

The per capita disposal rate was calculated as follows:

$$\text{Per Capita Disposed} = \frac{\text{Regional MSW Disposed}}{\text{Regional District Population}}$$

The total MSW disposed includes amounts disposed within the regional district, as well as any amount incinerated or exported via transfer stations.

Where data on the amount recycled was available, the MSW recycling rate was calculated as follows:

$$\text{Recycling Rate (\%)} = \left( \frac{\text{Total MSW Recycled}}{\text{Total MSW Generated}} \right) \times 100$$

The total amounts recycled include materials diverted according to the definition of recycling as presented in the Planning Guide.

The total amount of MSW generated was calculated as follows:

**Total MSW Generated = MSW Recycled + MSW Disposed**

For the provincial figures, the BC STATS estimate of the 1999 population was used, so as to minimize the compounding of error that would result if the sum of all 27 regional districts populations had been used.

### 3.0 Discussion and Analysis

#### 3.1 Provincial MSW Overview

##### 3.1.1 Provincial MSW Trends

In 1999 the provincial disposal rate was **0.613** tonnes per capita, representing a **35%** reduction in MSW landfilled or incinerated when compared to 1990. The 1990 baseline for disposal was **0.944** tonnes per capita.

Compared to 1998, there was a **1.8%** increase in the amount of MSW disposed in landfills and a **0.6%** increase in the population. Table 1 illustrates the percentage of the provincial population that resides in regional districts that either increased or decreased the amount of MSW going to landfills in 1999.

**Table 1:** Changes in the amount of waste disposed in landfills by regional district from 1998 to 1999.

|                                  | Number of Regional Districts | Percentage of BC Population |
|----------------------------------|------------------------------|-----------------------------|
| Increase in Total Waste Disposed | 15                           | 82                          |
| Decrease in Total Waste Disposed | 12                           | 18                          |

The reason why the provincial disposal rate did not decrease is suggested in the comments of some of the regional districts with population densities greater than the provincial average that did not decrease the amount of waste disposed. These regional districts noted that their greatest challenges in terms of waste reduction are organics and ICI, two portions of MSW that contributed large volumes to the amount of waste disposed in BC (see Appendix I).

Between 1990 and 1999, the total waste disposed per year dropped from 2,890,516 tonnes to 2,467,356 tonnes, a **15 %** reduction. During the same period of time the provincial population increased by **32%**.

The provincial per capita recycling rate was **0.445** tonnes in 1999, a **107%** increase compared to 1990. A minimal difference exists between 1998 and 1999 rates. Part of this increase is the result of including most of the material recycled by provincial and industry stewardship programs in the 1999 figures.

### 3.1.2 Provincial Stewardship Data

In 1999, 143,596 tonnes of material were recycled through regulated industry stewardship programs as well as provincially run initiatives. This material accounts for **8.1%**, by weight, of the total amount of recyclables reported. Table 2 indicates how the various programs recovered this material.

**Table 2:** Material recovered through Stewardship and Provincial Programs in 1999

|   | Stewardship Program                            | Amount Recovered | Units                       | Reporting Period |
|---|--|------------------|-----------------------------|------------------|
| Regulated Industry Stewardship Programs | Beverage Containers-Encorp                     | 18,347           | tonnes                      | Calendar 1999    |
|   | Beverage Containers-Brewer's Distributor Ltd.  | 538,679,100      | containers                  | Apr 99-Mar 99    |
|   | Beverage Containers-Liquor Distribution Branch | 33,000           | tonnes                      | Apr 99-Mar 99    |
|   | Paint  | 3,900,000        | equivalent litre containers | Calendar 1999    |
|   | Pharmaceuticals                                | 11,479           | tonnes                      | Calendar 1999    |
|   | Residuals                                      | 128,000          | equivalent litre containers | Calendar 1999    |
|   | Lubricating Oil                                | 39,843           | tonnes                      | Calendar 1999    |
| Provincial Programs                     | Tires  | 27,060           | tonnes                      | Apr 99-Mar 99    |
|   | Lead-Acid Batteries                            | 13,867           | tonnes                      | Apr 99-Mar 99    |
|   | <b>TOTAL</b>                                   | <b>143,596</b>   | tonnes                      |                  |

### 3.1.3 Provincial MSW Data Summary

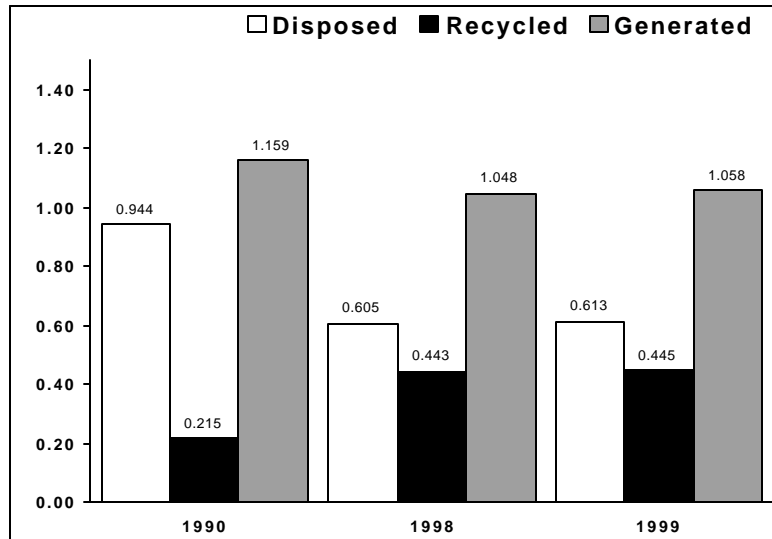
Please see next page.

**3.1.3 British Columbia Municipal Solid Waste Data Summary**

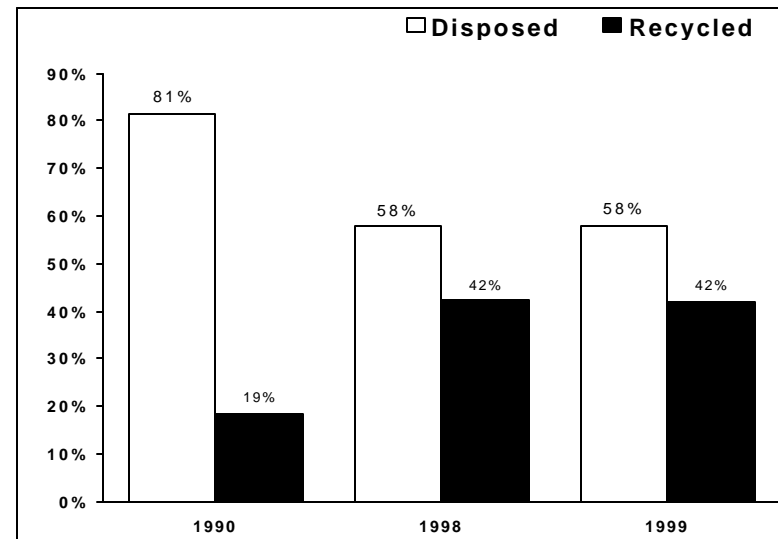
| Year | Population | %   | Total waste disposed (in tonnes) | %   | Percent disposed | Tonnes per capita disposed | Total waste recycled (in tonnes) | %   | Percent recycled | Tonnes per capita recycled | Total waste generated (in tonnes) | %   | Tonnes per capita generated |
|------|------------|-----|----------------------------------|-----|------------------|----------------------------|----------------------------------|-----|------------------|----------------------------|-----------------------------------|-----|-----------------------------|
| 1990 | 3,063,419  |     | 2,890,516                        |     | 81%              | 0.944                      | 659,764                          |     | 19%              | 0.215                      | 3,550,280                         |     | 1.159                       |
| 1998 | 4,002,777  | 0.6 | 2,423,524                        | 1.8 | 58%              | 0.605                      | 1,773,212                        | 1.1 | 42%              | 0.443                      | 4,196,736                         | 1.5 | 1.048                       |
| 1999 | 4,028,132  |     | 2,467,356                        |     | 58%              | 0.613                      | 1,793,439                        |     | 42%              | 0.445                      | 4,260,795                         |     | 1.058                       |

% reduction in per capita disposal from 1990 rate : **36%** in 1998 and **35%** in 1999.

**Tonnes Per Capita Disposed, Recycled and Generated**



**Percent Recycled and Disposed**



**Source of 1990 data:**

1. The 1990 baseline MSW generation rate was estimated from previous MSW tracking reports in combination with a grouping scheme to generate individual rates for each regional district. This baseline rate includes Demolition, Land-clearing, and Construction waste.

**Source of 1999 data:**

1. All except the following regional districts provided their own data for 1999: Central Coast, Mount Waddington and Skeena-Queen Charlotte. For an explanation of how the disposal rate for these regional districts was estimated please see Section
2. BC population estimates are from BC STATS.

**Note:**

% refers to the percent change between 1998 and 1999.

### **3.2 Regional MSW Overview**

#### **3.2.1 Regional District MSW Trends**

Twenty-four of the 27 regional districts returned MSW disposal data for the year 1999. Of the three regional districts that did not submit information, only the Central Coast Regional District stated explicitly that no data would be provided. It can be assumed that these regional districts were unable to provide data due to lack of resources, monetary or otherwise.

##### **3.2.1.1 1999 Data**

In 1999, **92%** of the waste disposed was weighed at regional facilities. The remaining **8%** was quantified using conversions of volumes to mass or other estimation techniques. Landfilling accounted for **90%** of the waste disposed while the other **10%** was incinerated in either the Burnaby incinerator or private DLC burn pits, a practice that was reported in one regional district only. The volume of waste incinerated in the Burnaby facility is an exact number, while that from the private burn pits was estimated.

##### **3.2.1.2 Waste Disposal Facilities**

In 1999, there were **128** landfills operating within BC. Of this total, **63%** charge tipping fees, which range from \$2-140 per tonne, and **36%** have weigh scales. Only **24%** operate with no staff present. **Sixty-eight per cent** of the landfills accept DLC waste, **38%** have a salvage area open to the public and **34%** have electric fences to keep wildlife away from covered refuse.

##### **3.2.1.3 Status of Waste Management Plans**

Most regional districts that supplied data for this report also had approved solid waste management plans as of 1999. **Six** regional districts made significant progress on the implementation of their SWMP, such that their state of implementation status increased.

Two regional districts, Central Coast and East Kootenay, did not have approved plans in 1999. Both are expected to submit plans for approval in 2001.

#### **3.2.2 Regional District Data Summary**

Please see next page.

3.2.2 Regional District Data Summary

**Alberni-Clayoquot Regional District**

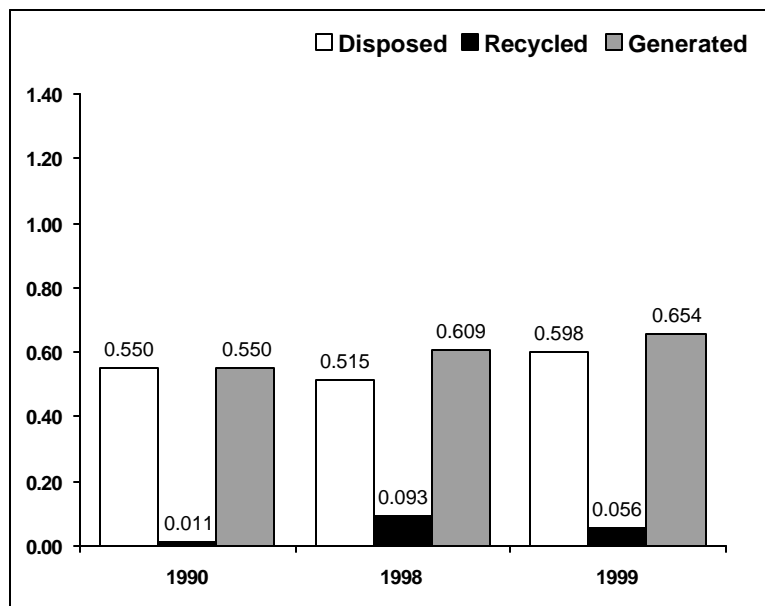
Regional District Area (km<sup>2</sup>): 7,738

| Year | Population | %    | Total waste disposed (in tonnes) | %  | Percent disposed | Tonnes per capita disposed | Total waste recycled (in tonnes) | %   | Percent recycled | Tonnes per capita recycled | Total waste generated (in tonnes) | %  | Tonnes per capita generated |
|------|------------|------|----------------------------------|----|------------------|----------------------------|----------------------------------|-----|------------------|----------------------------|-----------------------------------|----|-----------------------------|
| 1990 | 30,257     |      | 16,641                           |    | 98%              | 0.550                      | 332                              |     | 2%               | 0.011                      | 16,973                            |    | 0.550                       |
| 1998 | 26,914     | 26.3 | 13,874                           | 47 | 85%              | 0.515                      | 2,513                            | -25 | 15%              | 0.093                      | 16,387                            | 36 | 0.609                       |
| 1999 | 34,000     |      | 20,336                           |    | 91%              | 0.598                      | 1,893                            |     | 9%               | 0.056                      | 22,229                            |    | 0.654                       |

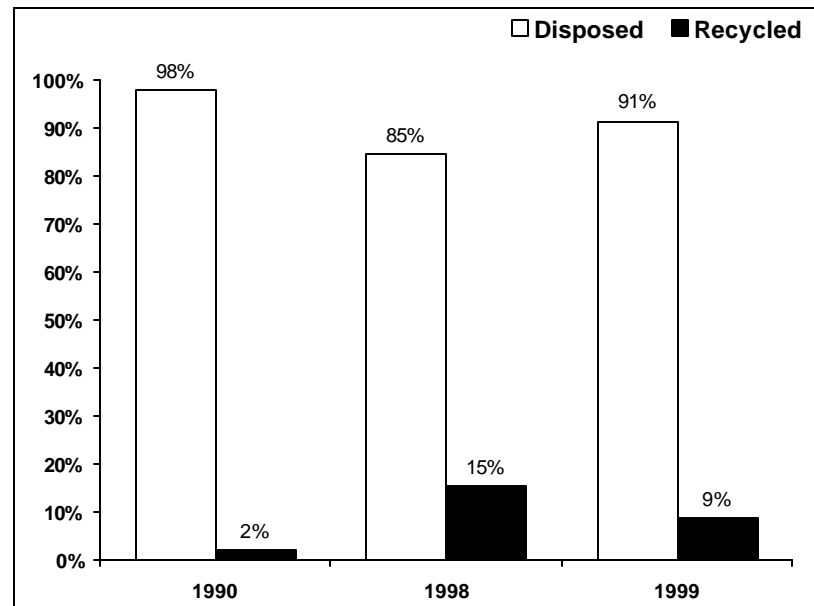
Approved solid waste management plan : Yes

SWMP State of implementation: 51-75%

**Tonnes Per Capita Recvcd and Disposed**



**Percent Recycled and Disposed**



Data status: Draft

Source of the Data:

- 1990- Grouping/previous MSW reports
- 1998- Regional District
- 1999- Regional District



**Regional District of Bulkley-Nechako**

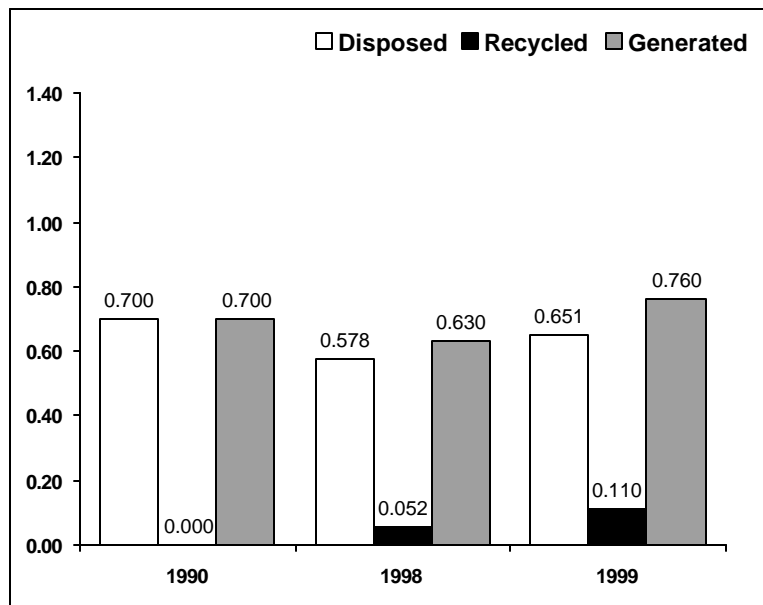
Regional District Area (km<sup>2</sup>): 72,101

| Year | Population | %   | Total waste disposed (in tonnes) | %  | Percent disposed | Tonnes per capita disposed | Total waste recycled (in tonnes) | %   | Percent recycled | Tonnes per capita recycled | Total waste generated (in tonnes) | %  | Tonnes per capita generated |
|------|------------|-----|----------------------------------|----|------------------|----------------------------|----------------------------------|-----|------------------|----------------------------|-----------------------------------|----|-----------------------------|
| 1990 | 37,136     |     | 25,995                           |    | 100%             | 0.700                      | 0                                |     | 0%               | 0.000                      | 25,995                            |    | 0.700                       |
| 1998 | 42,899     | 1.5 | 24,789                           | 14 | 92%              | 0.578                      | 2,237                            | 113 | 8%               | 0.052                      | 27,026                            | 23 | 0.630                       |
| 1999 | 43,545     |     | 28,337                           |    | 86%              | 0.651                      | 4,771                            |     | 14%              | 0.110                      | 33,108                            |    | 0.760                       |

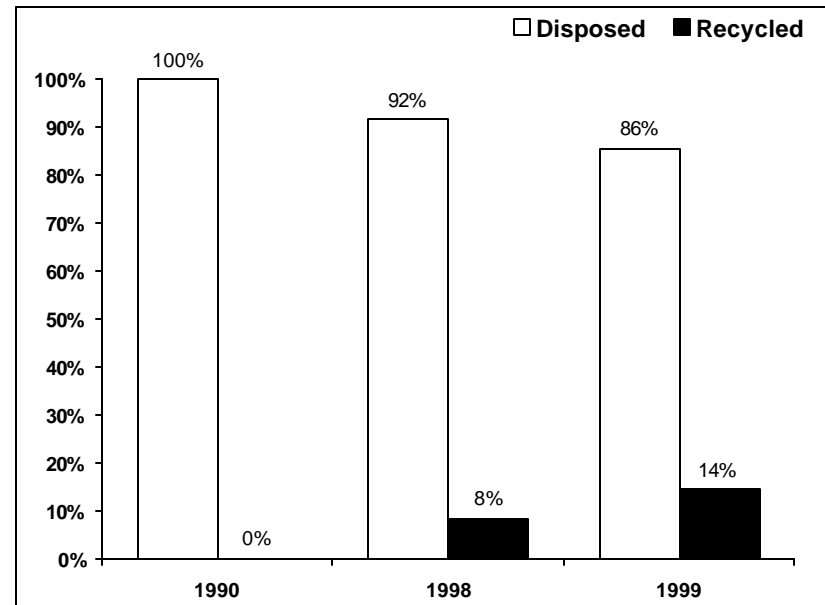
Approved solid waste management plan : Yes

SWMP State of implementation: 0-25%

**Tonnes Per Capita Recvcd and Disposed**



**Percent Recycled and Disposed**



Data status: Confirmed by Regional District

Source of the Data:

- 1990- Grouping/Previous MSW Tracking reports
- 1998- Regional District
- 1999- Regional District

# BC Municipal Solid Waste Tracking Report 1999

## Regional District of Bulkley-Nechako

### Disposed Waste Breakdown by Facility Type

| Disposal Facility | Disposal Method (L/F/N/X/P/T/S) | Tipping Fees General Refuse (\$/N/A) | Staffed (Y/N) | DLC Accepted (Y/N) | Salvage Area (Y/N) | Electric Fencing (Y/N) | Weigh Scales (Y/N) | Landfill Gas Management   |                   | Expected Year of Closure | Design Capacity (tonnes) | Total Waste Disposed (tonnes) |                 |
|-------------------|---------------------------------|--------------------------------------|---------------|--------------------|--------------------|------------------------|--------------------|---------------------------|-------------------|--------------------------|--------------------------|-------------------------------|-----------------|
|                   |                                 |                                      |               |                    |                    |                        |                    | Collection /Flaring (Y/N) | Utilization (Y/N) |                          |                          | 1998                          | 1999            |
| Burns Lake        | LF                              | N                                    | Y             | Y                  | N                  | Y                      | N                  |                           |                   | 2004                     |                          | 4,009                         | 3,319           |
| Fort Fraser       | LF                              | N                                    | Y             | Y                  | N                  | Y                      | N                  |                           |                   | 2005                     |                          | 384                           | 260             |
| Fort St. James    | LF                              | N                                    | Y             | Y                  | N                  | N                      | N                  |                           |                   | 2001                     |                          | 3,109                         | 3,546           |
| Fraser Lake       | LF                              | N                                    | Y             | Y                  | N                  | Y                      | N                  |                           |                   | 2003                     |                          | 1,730                         | 2,145           |
| Granisle          | LF                              | N                                    | Y             | Y                  | N                  | Y                      | N                  |                           |                   | 2002                     |                          | 385                           | 303             |
| Knockbolt         | LF                              | N                                    | Y             | Y                  | N                  | Y                      | N                  |                           |                   | 2050                     | 748,700                  | 2,877                         | 3,468           |
| Mason Ck.         | LF                              | N                                    | N             | Y                  | N                  | N                      | N                  |                           |                   |                          |                          | 41                            | 40              |
| Smithers Landing  | Closed                          |                                      |               |                    |                    |                        |                    |                           |                   |                          |                          | 13                            |                 |
| Smithers/Telkwa   | TS                              | N                                    | Y             | N                  | Y                  | NA                     | Y                  |                           |                   |                          | NA                       | 7,379                         | 8,422           |
| South side        | TS                              | N                                    | N             | ?                  | N                  | NA                     | N                  |                           |                   |                          | NA                       |                               | 1,267           |
| Vanderhoof        | LF                              | N                                    | Y             | Y                  | N                  | N                      | N                  |                           |                   | 2002                     |                          | 4,862                         | 5,567           |
| <b>Total</b>      |                                 |                                      |               |                    |                    |                        |                    |                           |                   |                          |                          | <b>24,789.0</b>               | <b>28,337.0</b> |

### Recycled Waste Breakdown

| Class                                     | Sub-Class           | 1999 Total (tonnes) |
|---|---------------------|---------------------|
| Glass                                     | Co-mingled          |                     |
| Metal                                     | White Goods         | 664.0               |
|   | Other               | 811.0               |
| Organic                                   | Food                |                     |
|   | Yard                |                     |
| Paper                                     | OCC                 | 435.0               |
|   | ONP                 |                     |
|   | Fine                |                     |
|   | Mixed               |                     |
| Plastic                                   | Co-mingled          |                     |
|   | Sorted              |                     |
| DLC                                       | Wood                | 2,826.0             |
|   | Gypsum              |                     |
|   | Concrete            |                     |
|   | Other               |                     |
| Other                                     | Batteries and Paint | 35.0                |
| <b>TOTAL</b>                              |                     | <b>4,771.0</b>      |
| <b>TOTAL RECYCLED PER CAPITA (tonnes)</b> |                     | <b>0.11</b>         |

### Notes, Challenges and Disposal Programs of Significance

- \*Population estimated from 1996 census, assumption of 1.55% growth/year.
- \*Design capacity is currently unknown.
- \*Regional district is designing final closure plans.
- \*No private recycling is included in the figures.

**Capital Regional District**

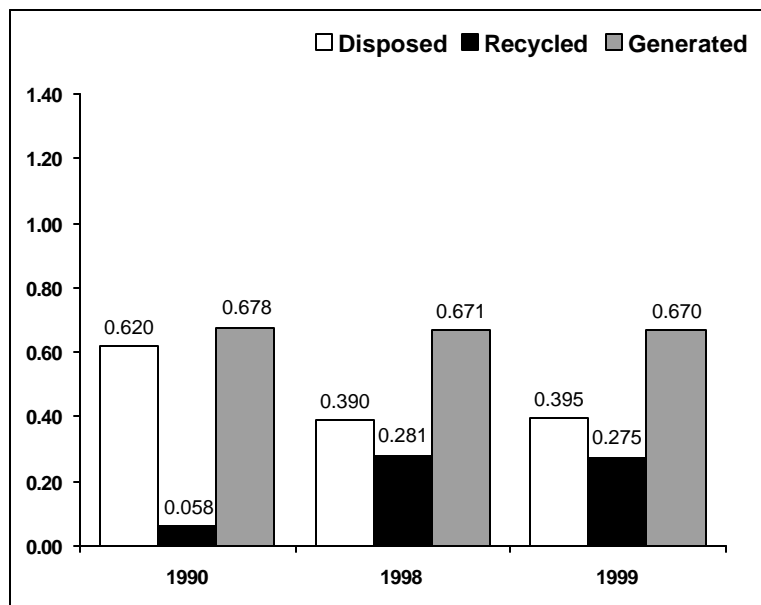
Regional District Area (km<sup>2</sup>): 2,420

| Year | Population | %   | Total waste disposed (in tonnes) | % | Percent disposed | Tonnes per capita disposed | Total waste recycled (in tonnes) | %  | Percent recycled | Tonnes per capita recycled | Total waste generated (in tonnes) | % | Tonnes per capita generated |
|------|------------|-----|----------------------------------|---|------------------|----------------------------|----------------------------------|----|------------------|----------------------------|-----------------------------------|---|-----------------------------|
| 1990 | 291,880    |     | 180,966                          |   | 91%              | 0.620                      | 16,959                           |    | 9%               | 0.058                      | 197,925                           |   | 0.678                       |
| 1998 | 334,871    | 1.4 | 130,604                          | 3 | 58%              | 0.390                      | 94,094                           | -1 | 42%              | 0.281                      | 224,698                           | 1 | 0.671                       |
| 1999 | 339,643    |     | 134,257                          |   | 59%              | 0.395                      | 93,341                           |    | 41%              | 0.275                      | 227,598                           |   | 0.670                       |

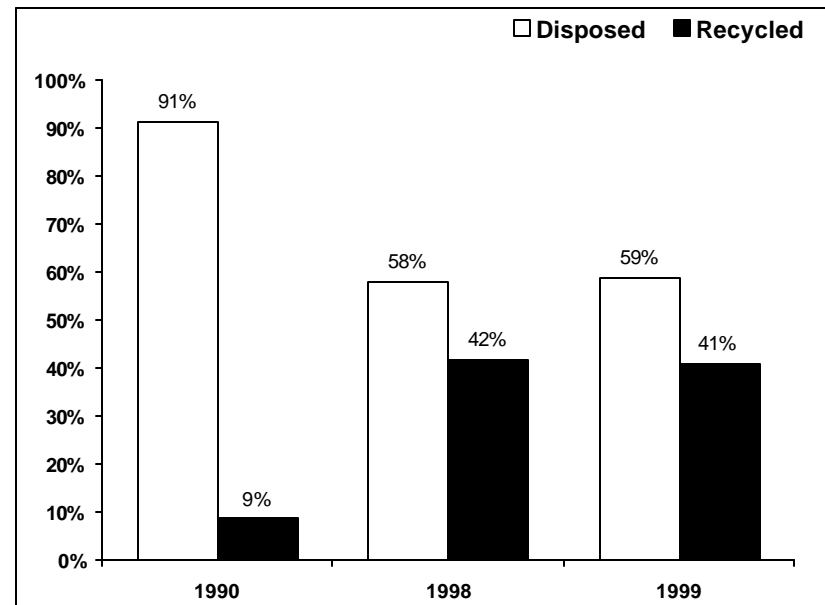
Approved solid waste management plan : Yes

SWMP State of implementation: 76-100%

**Tonnes Per Capita Recvcd and Disposed**



**Percent Recycled and Disposed**



Data status: Confirmed by Regional District

Source of the Data:

- 1990- Grouping/Previous MSW Tracking reports
- 1998- Regional District
- 1999- Regional District



**Cariboo Regional District**

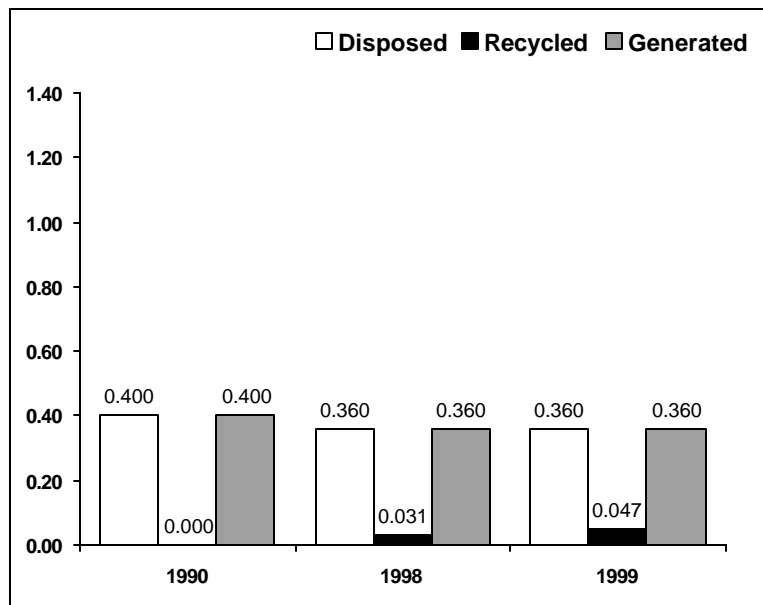
Regional District Area (km<sup>2</sup>): 82,523

| Year | Population | %   | Total waste disposed (in tonnes) | %  | Percent disposed | Tonnes per capita disposed | Total waste recycled (in tonnes) | %  | Percent recycled | Tonnes per capita recycled | Total waste generated (in tonnes) | % | Tonnes per capita generated |
|------|------------|-----|----------------------------------|----|------------------|----------------------------|----------------------------------|----|------------------|----------------------------|-----------------------------------|---|-----------------------------|
| 1990 | 58,641     |     | 23,456                           |    | 100%             | 0.400                      | 0                                |    | 0%               | 0.000                      | 23,456                            |   | 0.400                       |
| 1998 | 73,024     | 0.0 | 24,056                           | -5 | 92%              | 0.360                      | 2,232                            | 52 | 8%               | 0.031                      | 26,288                            | 0 | 0.360                       |
| 1999 | 72,988     |     | 22,867                           |    | 87%              | 0.360                      | 3,397                            |    | 13%              | 0.047                      | 26,264                            |   | 0.360                       |

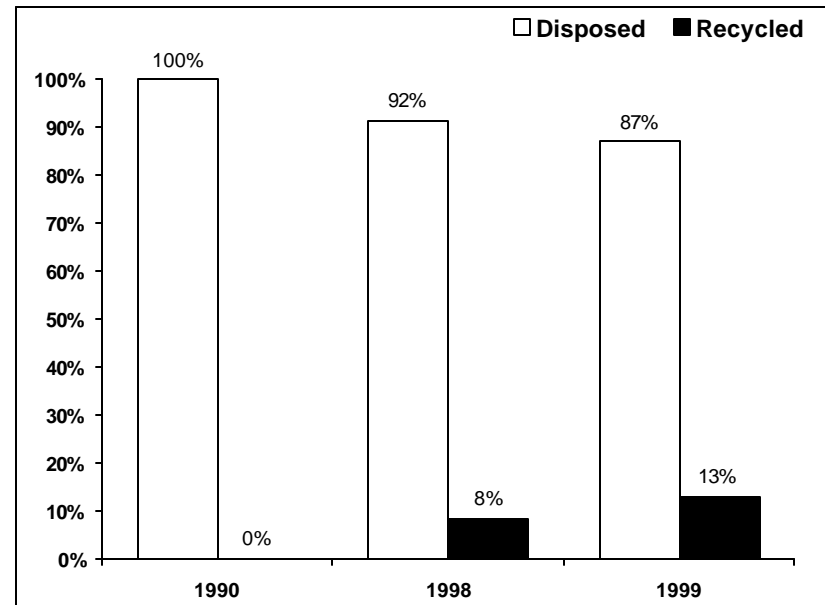
Approved solid waste management plan : Yes

SWMP State of implementation: 76-100%

**Tonnes Per Capita Recvcd and Disposed**



**Percent Recycled and Disposed**



Data status: Confirmed by Regional District

Source of the Data:

- 1990- Grouping/Previous MSW Tracking reports
- 1998- Regional District
- 1999- Regional District

# BC Municipal Solid Waste Tracking Report 1999

## Cariboo Regional District

### Disposed Waste Breakdown by Facility Type

| Disposal Facility   | Disposal Method (L/F/N/X/P/T/S) | Tipping Fees General Refuse (\$/MNA) | Staffed (Y/N) | DLC Accepted (Y/N) | Salvage Area (Y/N) | Electric Fencing (Y/N) | Weigh Scales (Y/N) | Landfill Gas Management   |                   | Expected Year of Closure | Design Capacity (tonnes) | Total Waste Disposed (tonnes) |                 |
|---------------------|---------------------------------|--------------------------------------|---------------|--------------------|--------------------|------------------------|--------------------|---------------------------|-------------------|--------------------------|--------------------------|-------------------------------|-----------------|
|                     |                                 |                                      |               |                    |                    |                        |                    | Collection /Flaring (Y/N) | Utilization (Y/N) |                          |                          | 1998                          | 1999            |
| Carson Pit, Quesnel | LF                              | N                                    |               |                    |                    |                        | N                  |                           |                   |                          |                          |                               |                 |
| Williams Lake       | LF                              | N                                    |               |                    |                    |                        | Y                  |                           |                   |                          |                          |                               |                 |
| Hundred Mile House  | LF                              | N                                    |               |                    |                    |                        | N                  |                           |                   |                          |                          |                               |                 |
| Lone Butte          | TS                              | N                                    |               |                    |                    |                        | N                  |                           |                   |                          |                          |                               |                 |
| Sheridon Lake       | LF                              | N                                    |               |                    |                    |                        | N                  |                           |                   |                          |                          |                               |                 |
| Watch Lake          | LF                              | N                                    |               |                    |                    |                        | N                  |                           |                   |                          |                          |                               |                 |
| Riske Ck.           | TS                              | N                                    |               |                    |                    |                        | N                  |                           |                   |                          |                          |                               |                 |
| Alexis              | LF                              | N                                    |               |                    |                    |                        | N                  |                           |                   |                          |                          |                               |                 |
| Nemaiah Valley      | LF                              | N                                    |               |                    |                    |                        | N                  |                           |                   |                          |                          |                               |                 |
| Tatia Lake          | LF                              | N                                    |               |                    |                    |                        | N                  |                           |                   |                          |                          |                               |                 |
| Punpzi Lake         | LF                              | N                                    |               |                    |                    |                        | N                  |                           |                   |                          |                          |                               |                 |
| Nimpo Lake          | LF                              | N                                    |               |                    |                    |                        | N                  |                           |                   |                          |                          |                               |                 |
| <b>Total</b>        |                                 |                                      |               |                    |                    |                        |                    |                           |                   |                          |                          | <b>24,056.0</b>               | <b>22,867.0</b> |

### Recycled Waste Breakdown

| Class                                     | Sub-Class   | 1999 Total (tonnes) |
|---|-------------|---------------------|
| Glass                                     | Co-mingled  |                     |
| Metal                                     | White Goods |                     |
|   | Other       | 2,127.0             |
| Organic                                   | Food        |                     |
|   | Yard        |                     |
| Paper                                     | OCC         | 587.0               |
|   | ONP         | 455.0               |
|   | Fine        | 220.0               |
|   | Mixed       |                     |
| Plastic                                   | Co-mingled  |                     |
|   | Sorted      | 8.0                 |
| DLC                                       | Wood        |                     |
|   | Gypsum      |                     |
|   | Concrete    |                     |
|   | Other       |                     |
| Other                                     | Specify     |                     |
| <b>TOTAL</b>                              |             | <b>3,397.0</b>      |
| <b>TOTAL RECYCLED PER CAPITA (tonnes)</b> |             | <b>0.05</b>         |

### Notes, Challenges and Disposal Programs of Significance

\*Approximately 10% of additional waste is diverted through industry stewardship and private recycling programs.

**Central Coast Regional District**

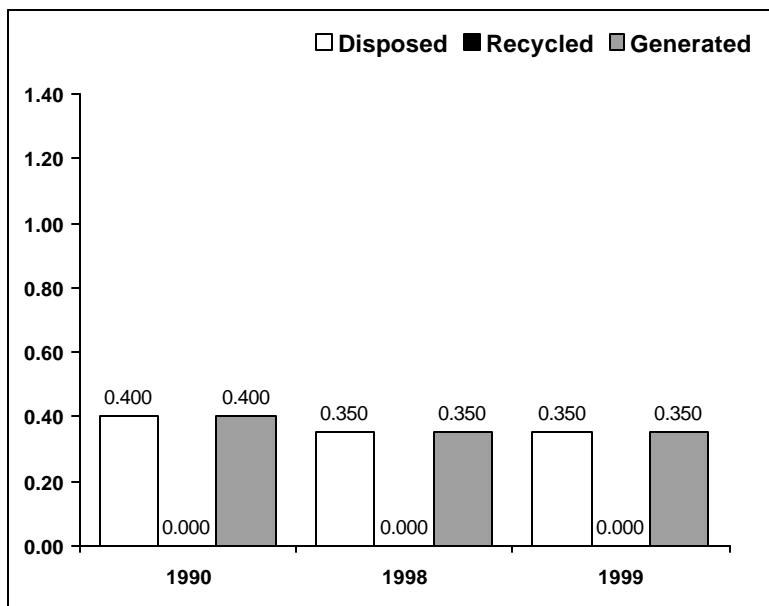
Regional District Area (km<sup>2</sup>): 25,000

| Year | Population | %    | Total waste disposed (in tonnes) | %  | Percent disposed | Tonnes per capita disposed | Total waste recycled (in tonnes) | % | Percent recycled | Tonnes per capita recycled | Total waste generated (in tonnes) | %  | Tonnes per capita generated |
|------|------------|------|----------------------------------|----|------------------|----------------------------|----------------------------------|---|------------------|----------------------------|-----------------------------------|----|-----------------------------|
| 1990 | 3,500      |      | 1,400                            |    | 100%             | 0.400                      | 0                                |   | 0%               | 0.000                      | 1,400                             |    | 0.400                       |
| 1998 | 3,921      | 10.2 | 1,372                            | 10 | 100%             | 0.350                      | No data                          |   | No data          | No data                    | 1,372                             | 10 | 0.350                       |
| 1999 | 4,320      |      | 1,512                            |    | 100%             | 0.350                      | No data                          |   | No data          | No data                    | 1,512                             |    | 0.350                       |

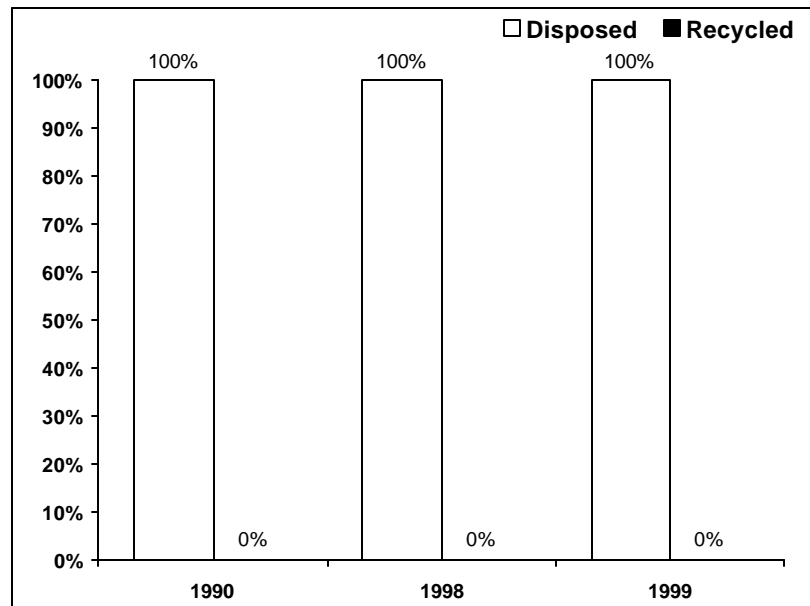
Approved solid waste management plan : No

SWMP State of implementation: N/A

**Tonnes Per Capita Recvcd and Disposed**



**Percent Recycled and Disposed**



Data status: Confirmed by Regional District

Source of the Data:

- 1990- Grouping/Previous MSW Tracking reports
- 1998- Grouping/Previous MSW Tracking reports
- 1999- 1998 Per Capita Disposal Rate



**Central Kootenay Regional District**

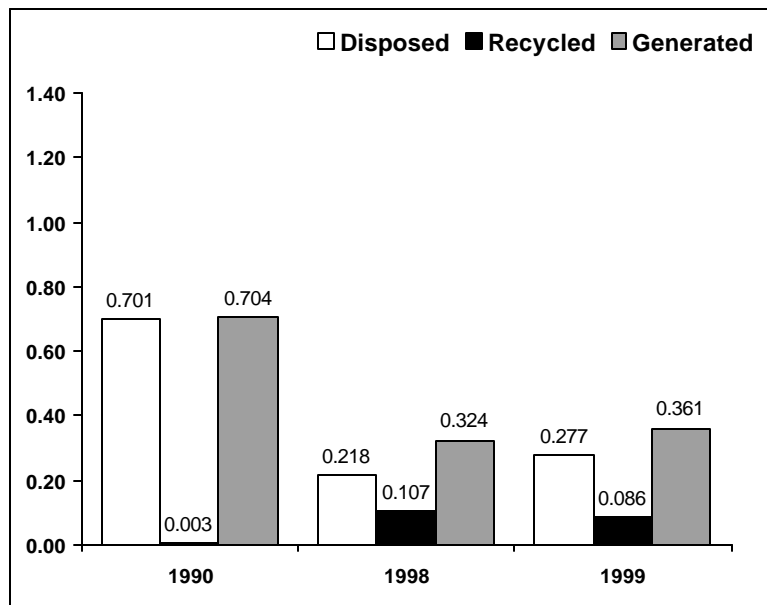
Regional District Area (km<sup>2</sup>): 23,158

| Year | Population | %    | Total waste disposed (in tonnes) | %  | Percent disposed | Tonnes per capita disposed | Total waste recycled (in tonnes) | %   | Percent recycled | Tonnes per capita recycled | Total waste generated (in tonnes) | %  | Tonnes per capita generated |
|------|------------|------|----------------------------------|----|------------------|----------------------------|----------------------------------|-----|------------------|----------------------------|-----------------------------------|----|-----------------------------|
| 1990 | 49,587     |      | 34,760                           |    | 100%             | 0.701                      | 148                              |     | 0%               | 0.003                      | 34,908                            |    | 0.704                       |
| 1998 | 61,602     | -0.2 | 13,421                           | 27 | 67%              | 0.218                      | 6,566                            | -19 | 33%              | 0.107                      | 19,987                            | 11 | 0.324                       |
| 1999 | 61,466     |      | 17,039                           |    | 77%              | 0.277                      | 5,296                            |     | 24%              | 0.086                      | 22,218                            |    | 0.361                       |

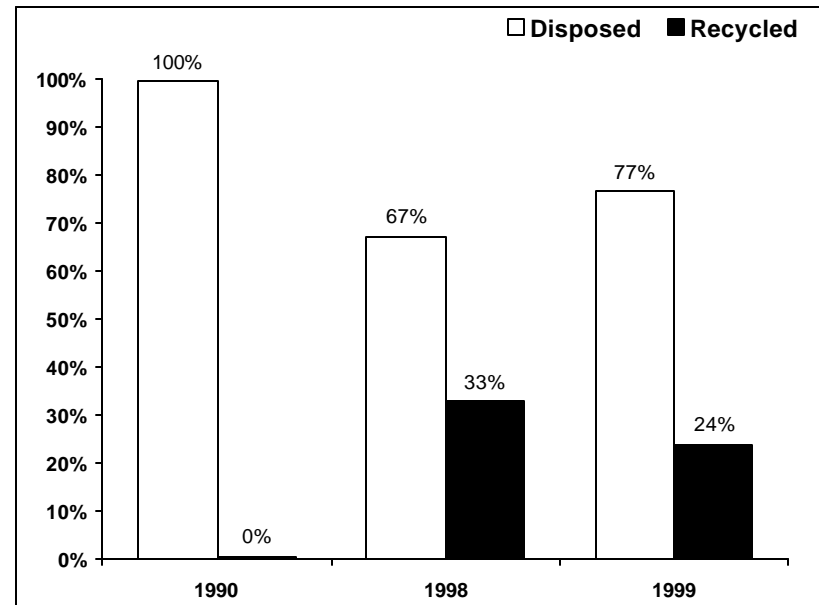
Approved solid waste management plan : Yes

SWMP State of implementation: 76-100%

**Tonnes Per Capita Recvcd and Disposed**



**Percent Recycled and Disposed**



Data status: Confirmed by Regional District

Source of the Data:

- 1990- Grouping/Previous MSW Tracking Reports
- 1998- Regional District
- 1999- Regional District

# BC Municipal Solid Waste Tracking Report 1999

## Central Kootenay Regional District

### Disposed Waste Breakdown by Facility Type

| Disposal Facility | Disposal Method (LF/INXPTS) | Tipping Fees General Refuse (\$/MNA) | Staffed (Y/N) | DLC Accepted (Y/N) | Salvage Area (Y/N) | Electric Fencing (Y/N) | Weigh Scales (Y/N) | Landfill Gas Management   |                   | Expected Year of Closure | Design Capacity (tonnes) | Total Waste Disposed (tonnes) |                 |
|-------------------|-----------------------------|--------------------------------------|---------------|--------------------|--------------------|------------------------|--------------------|---------------------------|-------------------|--------------------------|--------------------------|-------------------------------|-----------------|
|                   |                             |                                      |               |                    |                    |                        |                    | Collection /Flaring (Y/N) | Utilization (Y/N) |                          |                          | 1998                          | 1999            |
| Balfour           | TS                          | \$60-\$65/tonne                      | Y             | Y                  | N                  | NA                     | N                  | NA                        | N                 | NA                       | NA                       |                               | 455             |
| Boswell           | LF                          | variable                             | Y             | Y                  | N                  | N                      | N                  | NA                        | N                 | 2001                     | NA                       | 100                           | 60              |
| Burton            | TS                          | \$60-\$65/tonne                      | Y             | Y                  | N                  | NA                     | N                  | NA                        | N                 | NA                       | NA                       | 100                           | 75              |
| Canex             | LF                          | \$60-\$65/tonne                      | Y             | Y                  | N                  | Y                      | N                  | NA                        | N                 | 2050                     | 750,000                  | 3,550                         | 742             |
| Crawford Bay      | TS                          | \$2-\$50/cubic metre                 | Y             | Y                  | N                  | NA                     | N                  | NA                        | N                 | NA                       | NA                       |                               | 254             |
| Creston           | LF                          | \$2-\$50/cubic metre                 | Y             | Y                  | N                  | N                      | N                  | NA                        | N                 | 2050                     | 350,000                  | 1,021                         | 1,020           |
| Edgewood          | TS                          | \$60-\$65/tonne                      | Y             | Y                  | N                  | NA                     | N                  | NA                        | N                 | NA                       | NA                       | 150                           | 112             |
| Kaslo             | TS                          | \$60-\$65/tonne                      | Y             | Y                  | N                  | NA                     | N                  | NA                        | N                 | NA                       | NA                       | 700                           | 520             |
| Marblehead        | TS                          | \$60-\$65/tonne                      | Y             | Y                  | N                  | NA                     | N                  | NA                        | N                 | NA                       | NA                       | NA                            | 113             |
| Nakusp            | LF                          | \$60-\$65/tonne                      | Y             | Y                  | N                  | Y                      | N                  | NA                        | N                 | 2025                     | 50,000                   | 1,200                         | 428             |
| Nelson            | TS                          | \$60-\$65/tonne                      | Y             | Y                  | N                  | NA                     | Y                  | NA                        | N                 | NA                       | NA                       |                               | 5,522           |
| Ootischenia       | LF                          | \$60-\$65/tonne                      | Y             | Y                  | N                  | Y                      | Y                  | NA                        | N                 | 2025                     | 280,000                  | 6,000                         | 7,327           |
| Rosebery          | LF                          | \$60-\$65/tonne                      | Y             | Y                  | N                  | N                      | N                  | NA                        | N                 | 2001                     | NA                       | 600                           | 179             |
| Slocan            | TS                          | \$60-\$65/tonne                      | Y             | Y                  | N                  | NA                     | N                  | NA                        | N                 | NA                       | NA                       | NA                            | 173             |
| Ymir              | TS                          | \$60-\$65/tonne                      | Y             | Y                  | N                  | NA                     | N                  | NA                        | N                 | NA                       | NA                       |                               | 57              |
| <b>Total</b>      |                             |                                      |               |                    |                    |                        |                    |                           |                   |                          |                          | <b>13,420.9</b>               | <b>17,038.6</b> |

### Recycled Waste Breakdown

| Class                                     | Sub-Class   | 1999 Total (tonnes) |
|---|-------------|---------------------|
| Glass                                     | Co-mingled  | 380.1               |
| Metal                                     | White Goods | 189.5               |
|   | Other       | 486.7               |
| Organic                                   | Food        | NA                  |
|   | Yard        | 1,040.7             |
| Paper                                     | OCC         | 1,201.7             |
|   | ONP         | 428.6               |
|   | Fine        | 133.6               |
|   | Mixed       | 774.4               |
| Plastic                                   | Co-mingled  | 79.0                |
|   | Sorted      | 24.5                |
| DLC                                       | Wood        | 441.6               |
|   | Gypsum      | NA                  |
|   | Concrete    | NA                  |
|   | Other       | NA                  |
| Other                                     | Tires       | 116.2               |
| <b>TOTAL</b>                              |             | <b>5,296.4</b>      |
| <b>TOTAL RECYCLED PER CAPITA (tonnes)</b> |             | <b>0.09</b>         |

### Notes, Challenges and Disposal Programs of Significance

\*The figures listed do not include materials recycled by the private sector.  
 \*The estimated portion of private recycling is about 30%.  
 \*Balfour, Marblehead, Nelson, and Kaslo waste is hauled to the Canex Landfill.  
 \*Slocan waste is hauled to Ootischenia.  
 \*Edgewood and Burton waste gets hauled to the Nakusp Landfill.  
 \*In order to avoid counting the waste disposed twice, the totals for the landfills that accept waste from transfer stations, do not include the weight of the waste collected from the transfer stations.

**Central Okanagan Regional District**

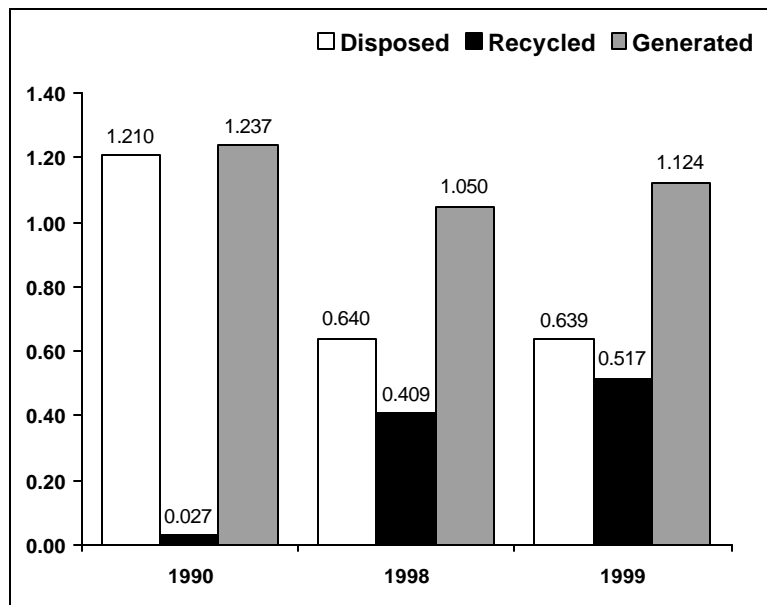
Regional District Area (km<sup>2</sup>): 2,886

| Year | Population | %   | Total waste disposed (in tonnes) | % | Percent disposed | Tonnes per capita disposed | Total waste recycled (in tonnes) | %  | Percent recycled | Tonnes per capita recycled | Total waste generated (in tonnes) | % | Tonnes per capita generated |
|------|------------|-----|----------------------------------|---|------------------|----------------------------|----------------------------------|----|------------------|----------------------------|-----------------------------------|---|-----------------------------|
| 1990 | 103,304    |     | 124,998                          |   | 98%              | 1.210                      | 2,797                            |    | 2%               | 0.027                      | 127,795                           |   | 1.237                       |
| 1998 | 147,113    | 2.0 | 94,216                           | 2 | 61%              | 0.640                      | 60,222                           | 29 | 39%              | 0.409                      | 154,438                           | 9 | 1.050                       |
| 1999 | 150,000    |     | 95,825                           |   | 57%              | 0.639                      | 77,529                           |    | 46%              | 0.517                      | 168,648                           |   | 1.124                       |

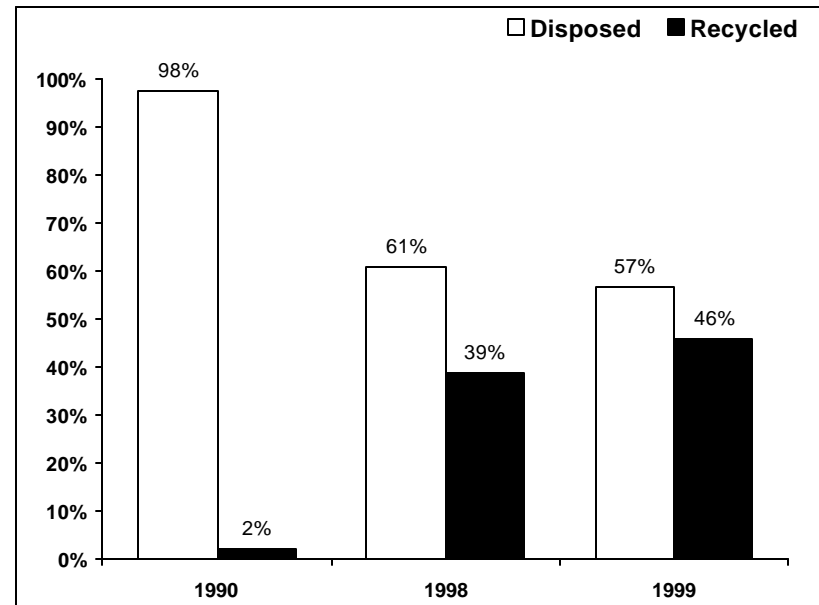
Approved solid waste management plan : Yes

SWMP State of implementation: 76-100%

**Tonnes Per Capita Recvclcd and Disposed**



**Percent Recycled and Disposed**



Data status: Confirmed by Regional District

Source of the Data:

- 1990- Grouping/Previous MSW Tracking Reports
- 1998- Regional District
- 1999- Regional District



**Columbia Shuswap Regional District**

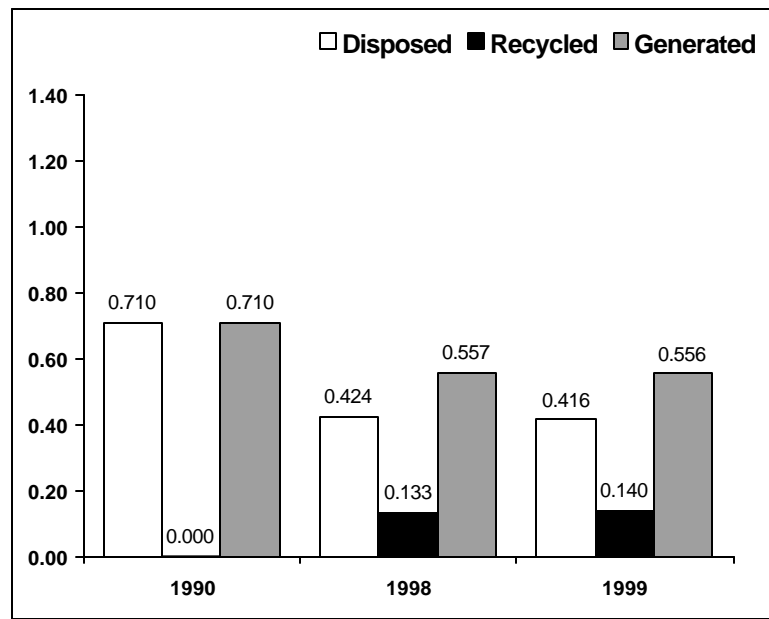
Regional District Area (km<sup>2</sup>): 30,107

| Year | Population | %   | Total waste disposed (in tonnes) | %  | Percent disposed | Tonnes per capita disposed | Total waste recycled (in tonnes) | % | Percent recycled | Tonnes per capita recycled | Total waste generated (in tonnes) | % | Tonnes per capita generated |
|------|------------|-----|----------------------------------|----|------------------|----------------------------|----------------------------------|---|------------------|----------------------------|-----------------------------------|---|-----------------------------|
| 1990 | 40,510     |     | 28,762                           |    | 100%             | 0.710                      | 15                               |   | 0%               | 0.000                      | 28,777                            |   | 0.710                       |
| 1998 | 52,256     | 0.0 | 22,140                           | -2 | 76%              | 0.424                      | 6,961                            | 5 | 24%              | 0.133                      | 29,101                            | 0 | 0.557                       |
| 1999 | 52,256     |     | 21,746                           |    | 75%              | 0.416                      | 7,325                            |   | 25%              | 0.140                      | 29,071                            |   | 0.556                       |

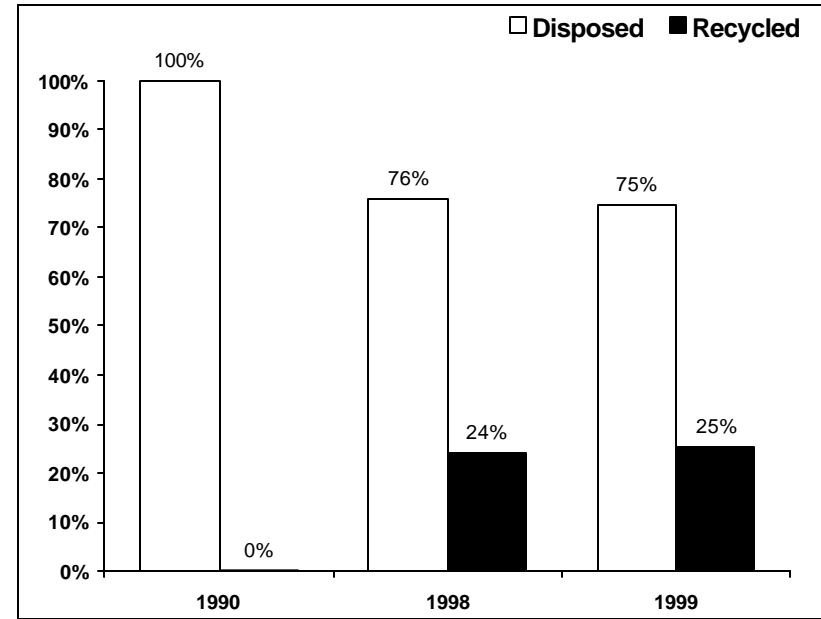
Approved solid waste management plan : Yes

SWMP State of implementation: 76-100%

**Tonnes Per Capita Recvclcd and Disposed**



**Percent Recycled and Disposed**



Data status: Draft

Source of the Data:

- 1990- Grouping/Previous MSW Tracking reports
- 1998- Regional District
- 1999- Regional District



**Comox-Strathcona Regional District**

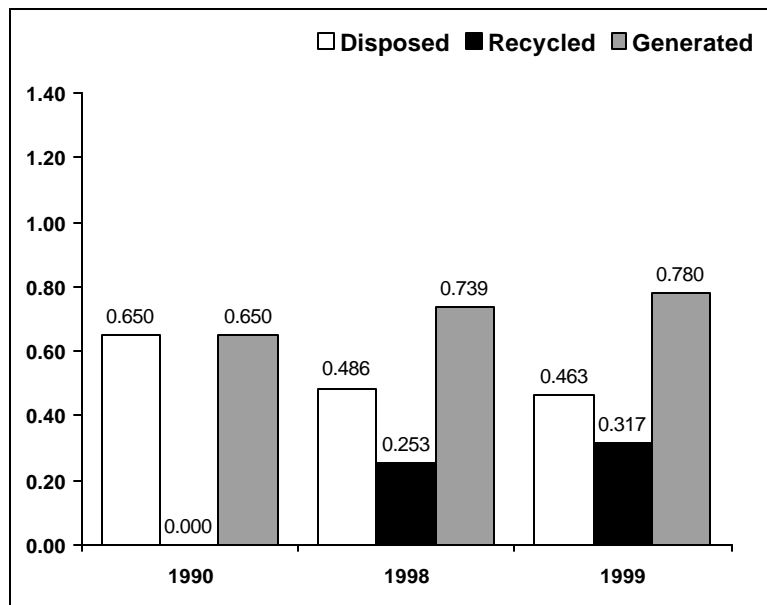
Regional District Area (km<sup>2</sup>): 20,202

| Year | Population | %   | Total waste disposed (in tonnes) | %  | Percent disposed | Tonnes per capita disposed | Total waste recycled (in tonnes) | %  | Percent recycled | Tonnes per capita recycled | Total waste generated (in tonnes) | %  | Tonnes per capita generated |
|------|------------|-----|----------------------------------|----|------------------|----------------------------|----------------------------------|----|------------------|----------------------------|-----------------------------------|----|-----------------------------|
| 1990 | 82,378     |     | 53,546                           |    | 100%             | 0.650                      | 0                                |    | 0%               | 0.000                      | 53,546                            |    | 0.650                       |
| 1998 | 101,085    | 4.2 | 49,092                           | -1 | 66%              | 0.486                      | 25,591                           | 31 | 34%              | 0.253                      | 74,683                            | 10 | 0.739                       |
| 1999 | 105,321    |     | 48,735                           |    | 59%              | 0.463                      | 33,405                           |    | 41%              | 0.317                      | 82,141                            |    | 0.780                       |

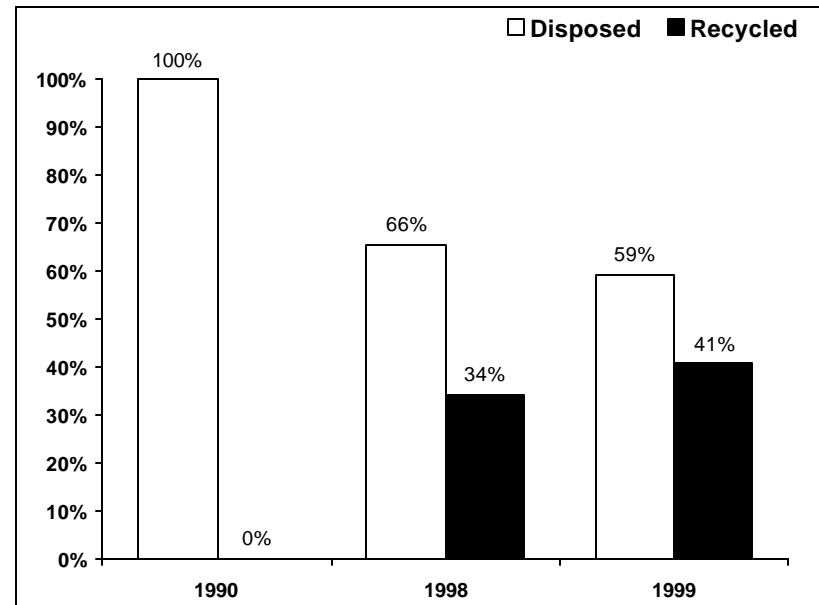
Approved solid waste management plan : Yes

SWMP State of implementation: 26-50%

**Tonnes Per Capita Recvcd and Disposed**



**Percent Recycled and Disposed**



Data status: Confirmed by Regional District

Source of the Data:

- 1990- Grouping/Previous MSW Tracking reports
- 1998- Regional District
- 1999- Regional District



**Cowichan Valley Regional District**

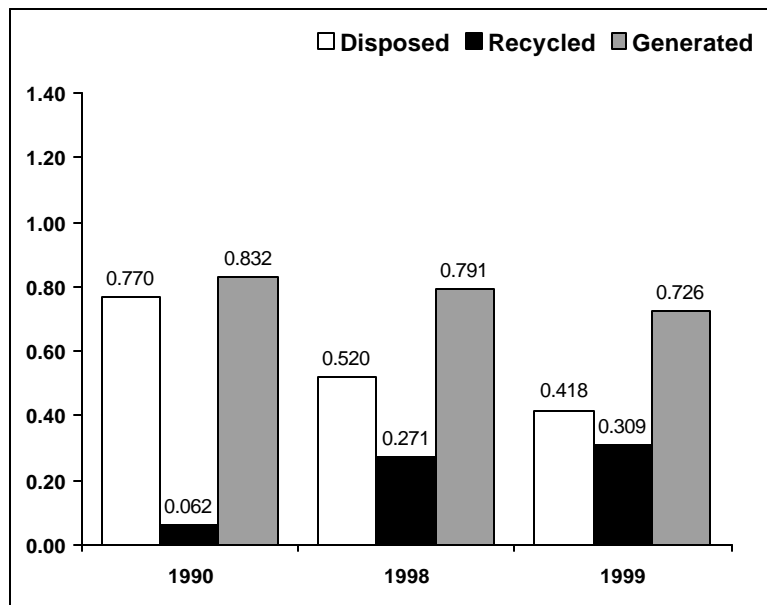
Regional District Area (km<sup>2</sup>): 3,730

| Year | Population | %   | Total waste disposed (in tonnes) | %   | Percent disposed | Tonnes per capita disposed | Total waste recycled (in tonnes) | %  | Percent recycled | Tonnes per capita recycled | Total waste generated (in tonnes) | %  | Tonnes per capita generated |
|------|------------|-----|----------------------------------|-----|------------------|----------------------------|----------------------------------|----|------------------|----------------------------|-----------------------------------|----|-----------------------------|
| 1990 | 59,059     |     | 45,475                           |     | 93%              | 0.770                      | 3,662                            |    | 7%               | 0.062                      | 49,137                            |    | 0.832                       |
| 1998 | 73,735     | 3.6 | 38,323                           | -17 | 66%              | 0.520                      | 20,019                           | 18 | 34%              | 0.271                      | 58,342                            | -5 | 0.791                       |
| 1999 | 76,386     |     | 31,911                           |     | 58%              | 0.418                      | 23,566                           |    | 42%              | 0.309                      | 55,477                            |    | 0.726                       |

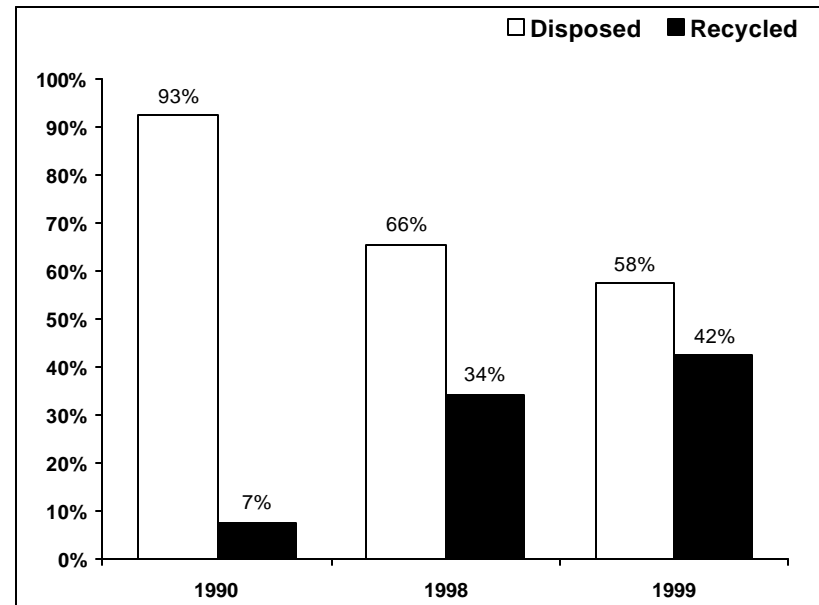
Approved solid waste management plan : Yes

SWMP State of implementation: 51-75%

**Tonnes Per Capita Recvcd and Disposed**



**Percent Recycled and Disposed**



Data status: Confirmed by Regional District

Source of the Data:  
 1990- Grouping/Previous MSW Tracking reports  
 1998- Regional District  
 1999- Regional District



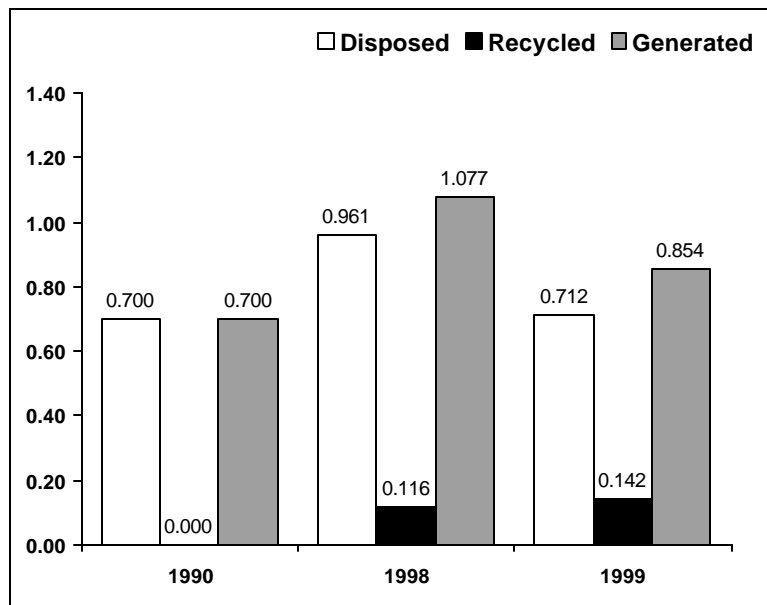
**East Kootenay Regional District**

Regional District Area (km<sup>2</sup>): 27,658

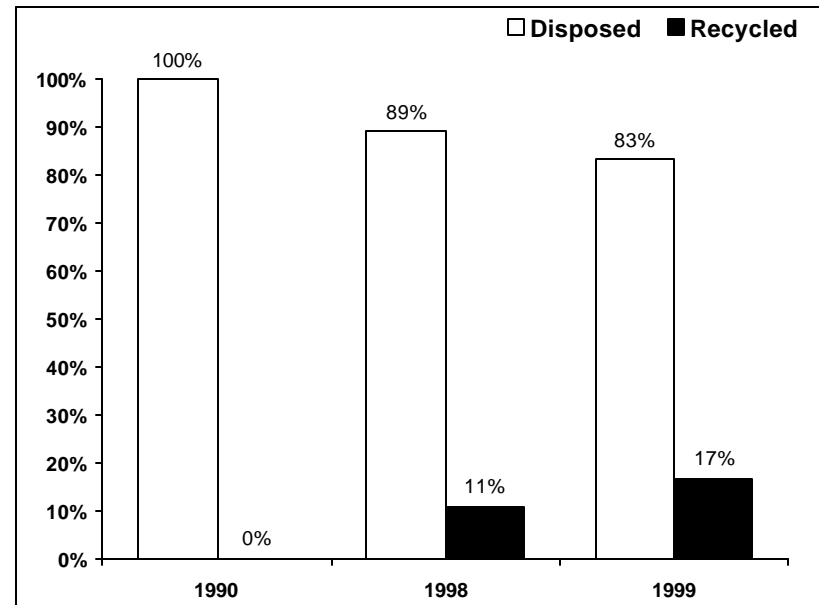
| Year | Population | %   | Total waste disposed (in tonnes) | %   | Percent disposed | Tonnes per capita disposed | Total waste recycled (in tonnes) | %  | Percent recycled | Tonnes per capita recycled | Total waste generated (in tonnes) | %   | Tonnes per capita generated |
|------|------------|-----|----------------------------------|-----|------------------|----------------------------|----------------------------------|----|------------------|----------------------------|-----------------------------------|-----|-----------------------------|
| 1990 | 48,773     |     | 34,141                           |     | 100%             | 0.700                      | 0                                |    | 0%               | 0.000                      | 34,141                            |     | 0.700                       |
| 1998 | 56,366     | 0.0 | 54,167                           | -26 | 89%              | 0.961                      | 6,558                            | 22 | 11%              | 0.116                      | 60,725                            | -21 | 1.077                       |
| 1999 | 56,368     |     | 40,123                           |     | 83%              | 0.712                      | 8,027                            |    | 17%              | 0.142                      | 48,150                            |     | 0.854                       |

Approved solid waste management plan : For Central Sub-region SWMP State of implementation: 76-100%

**Tonnes Per Capita Recvcd and Disposed**



**Percent Recycled and Disposed**



Data status: Draft

Source of the Data:

- 1990- Grouping/Previous MSW Tracking reports
- 1998- Regional District
- 1999- Regional District



**Fraser-Fort George Regional District**

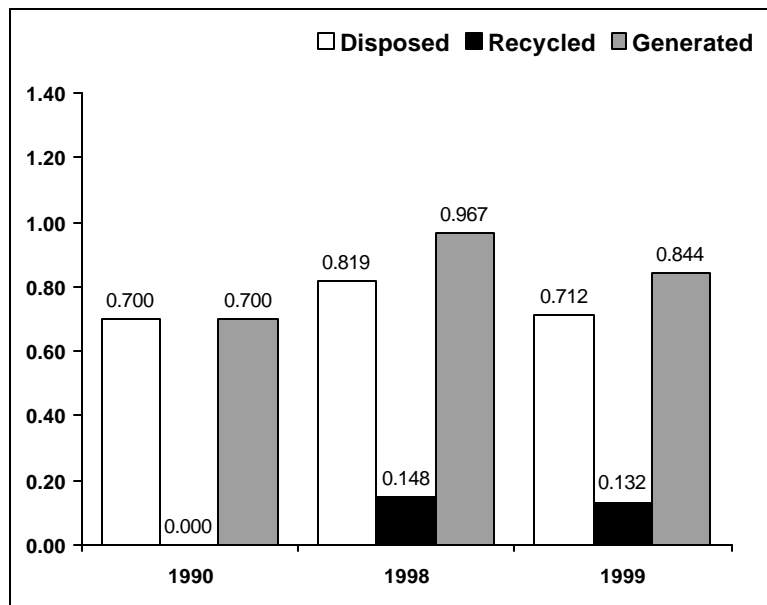
Regional District Area (km<sup>2</sup>): 52,000

| Year | Population | %   | Total waste disposed (in tonnes) | %   | Percent disposed | Tonnes per capita disposed | Total waste recycled (in tonnes) | %  | Percent recycled | Tonnes per capita recycled | Total waste generated (in tonnes) | %   | Tonnes per capita generated |
|------|------------|-----|----------------------------------|-----|------------------|----------------------------|----------------------------------|----|------------------|----------------------------|-----------------------------------|-----|-----------------------------|
| 1990 | 85,971     |     | 60,180                           |     | 100%             | 0.700                      | 16                               |    | 0%               | 0.000                      | 60,195                            |     | 0.700                       |
| 1998 | 103,782    | 2.4 | 85,041                           | -11 | 85%              | 0.819                      | 15,336                           | -9 | 15%              | 0.148                      | 100,377                           | -11 | 0.967                       |
| 1999 | 106,273    |     | 75,650                           |     | 84%              | 0.712                      | 14,020                           |    | 16%              | 0.132                      | 89,670                            |     | 0.844                       |

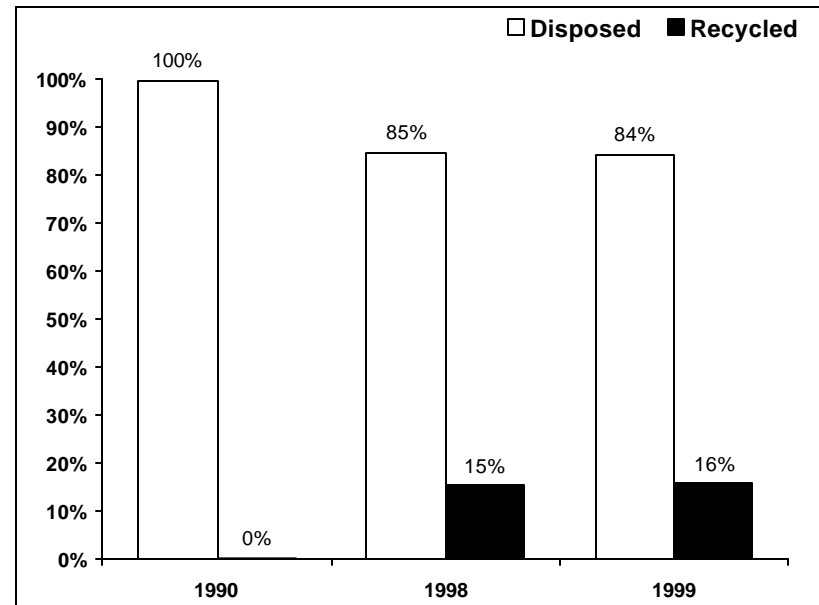
Approved solid waste management plan : Yes

SWMP State of implementation: 76-100%

**Tonnes Per Capita Recvcd and Disposed**



**Percent Recycled and Disposed**



Data status: Confirmed by Regional District

Source of the Data:  
 1990- Grouping/Previous MSW Tracking reports  
 1998- Regional District  
 1999- Regional District

# BC Municipal Solid Waste Tracking Report 1999

## Fraser-Fort George Regional District

### Disposed Waste Breakdown by Facility Type

| Disposal Facility | Disposal Method (L/F/N/X/P/T/S) | Tipping Fees General Refuse (\$/MNA) | Staffed (Y/N) | DLC Accepted (Y/N) | Salvage Area (Y/N) | Electric Fencing (Y/N) | Weigh Scales (Y/N) | Landfill Gas Management   |                   | Expected Year of Closure | Design Capacity (tonnes) | Total Waste Disposed (tonnes) |                 |
|-------------------|---------------------------------|--------------------------------------|---------------|--------------------|--------------------|------------------------|--------------------|---------------------------|-------------------|--------------------------|--------------------------|-------------------------------|-----------------|
|                   |                                 |                                      |               |                    |                    |                        |                    | Collection /Flaring (Y/N) | Utilization (Y/N) |                          |                          | 1998                          | 1999            |
| Foothills Blvd    | LF                              | \$40/tonne                           | Y             | Y                  | Y                  | N                      | Y                  | N                         | N                 | 2040+                    | NA                       | 75,921                        | 67,717          |
| Mackenzie         | LF                              | \$40/tonne                           | Y             | Y                  | Y                  | Y                      | Y                  | N                         | N                 | 2003                     | NA                       | 3,714                         | 3,619           |
| Legrand           | LF                              | \$40/tonne                           | N             | Y                  | N                  | N                      | N                  | N                         | N                 | 2001                     | NA                       | 2,356                         | 2,321           |
| Berman            | LF                              | N                                    | N             | N                  | N                  | N                      | N                  | N                         | N                 | 1999                     | NA                       | 392                           | 341             |
| Mud River         | LF                              | N                                    | N             | N                  | N                  | N                      | N                  | N                         | N                 | 2001                     | NA                       | 412                           | 426             |
| Hixon             | LF                              | N                                    | N             | N                  | N                  | N                      | N                  | N                         | N                 | 1998                     | NA                       | 379                           | Closed          |
| Stone Creek       | LF                              | N                                    | N             | N                  | N                  | N                      | N                  | N                         | N                 | 2003                     | NA                       | 213                           | 221             |
| Bear Lake         | LF                              | N                                    | N             | N                  | N                  | N                      | N                  | N                         | N                 | 1998                     | NA                       | 349                           | Closed          |
| Dome Creek        | LF                              | N                                    | N             | N                  | N                  | N                      | N                  | N                         | N                 | 2002                     | NA                       | 67                            | 68              |
| McLeod Lake       | LF                              | N                                    | N             | N                  | N                  | N                      | N                  | N                         | N                 | 2000                     | NA                       | 90                            | 94              |
| Shelley           | LF                              | N                                    | N             | N                  | N                  | N                      | N                  | N                         | N                 | 1999                     | NA                       | 648                           | 673             |
| Summit Lake       | LF                              | N                                    | N             | N                  | N                  | N                      | N                  | N                         | N                 | 1998                     | NA                       | 106                           | Closed          |
| Sinclair Mills    | LF                              | N                                    | N             | N                  | N                  | N                      | N                  | N                         | N                 | 2003                     | NA                       | 166                           | 170             |
| Willow River      | LF                              | N                                    | N             | N                  | N                  | N                      | N                  | N                         | N                 | 1998                     | NA                       | 228                           | Closed          |
| <b>Total</b>      |                                 |                                      |               |                    |                    |                        |                    |                           |                   |                          |                          | <b>85,041.0</b>               | <b>75,650.0</b> |

### Recycled Waste Breakdown

| Class                                     | Sub-Class        | 1999 Total (tonnes) |
|---|------------------|---------------------|
| Glass                                     | Co-mingled       |                     |
| Metal                                     | White Goods      | 100.0               |
|   | Other            | 633.0               |
| Organic                                   | Food             |                     |
|   | Yard             | 6,244.0             |
| Paper                                     | OCC              | 101.0               |
|   | ONP              |                     |
|   | Fine             |                     |
| Plastic                                   | Mixed            | 5,482.0             |
|   | Co-mingled       |                     |
| DLC                                       | Sorted           | 10.0                |
|   | Wood             | 27.0                |
| DLC                                       | Gypsum           |                     |
|   | Concrete         |                     |
|   | Other            |                     |
| Other                                     | See Note Section | 1,423.0             |
| <b>TOTAL</b>                              |                  | <b>14,020.0</b>     |
| <b>TOTAL RECYCLED PER CAPITA (tonnes)</b> |                  | <b>0.13</b>         |

### Notes, Challenges and Disposal Programs of Significance

\*Recycled Waste Breakdown: The breakdown for the 'Other' Category is as follows -- Salvage=158 tonnes, Tires=110 tonnes and Batteries=1155 tonnes.

**Fraser Valley Regional District**

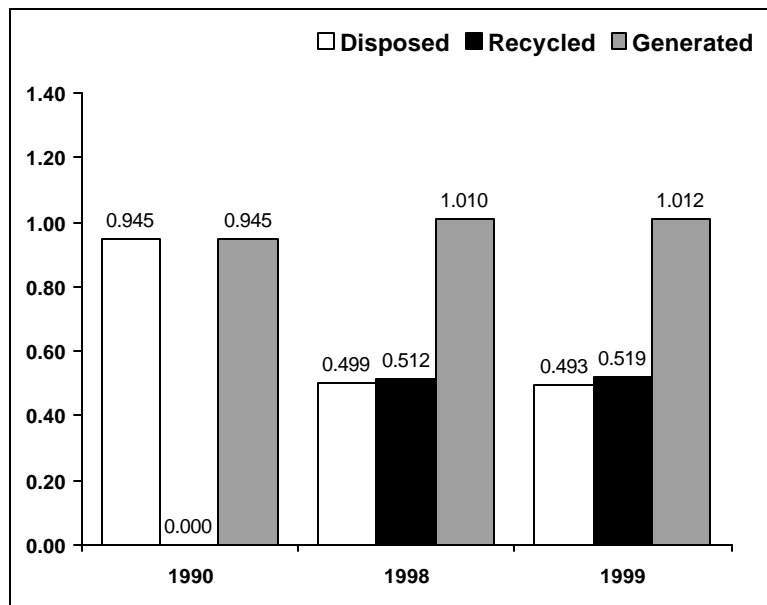
Regional District Area (km<sup>2</sup>): 13,000

| Year | Population | %   | Total waste disposed (in tonnes) | % | Percent disposed | Tonnes per capita disposed | Total waste recycled (in tonnes) | % | Percent recycled | Tonnes per capita recycled | Total waste generated (in tonnes) | % | Tonnes per capita generated |
|------|------------|-----|----------------------------------|---|------------------|----------------------------|----------------------------------|---|------------------|----------------------------|-----------------------------------|---|-----------------------------|
| 1990 | 209,641    |     | 198,111                          |   | 100%             | 0.945                      | 0                                |   | 0%               | 0.000                      | 198,111                           |   | 0.945                       |
| 1998 | 237,128    | 1.2 | 118,309                          | 0 | 49%              | 0.499                      | 121,304                          | 3 | 51%              | 0.512                      | 239,613                           | 1 | 1.010                       |
| 1999 | 240,022    |     | 118,365                          |   | 49%              | 0.493                      | 124,465                          |   | 51%              | 0.519                      | 242,830                           |   | 1.012                       |

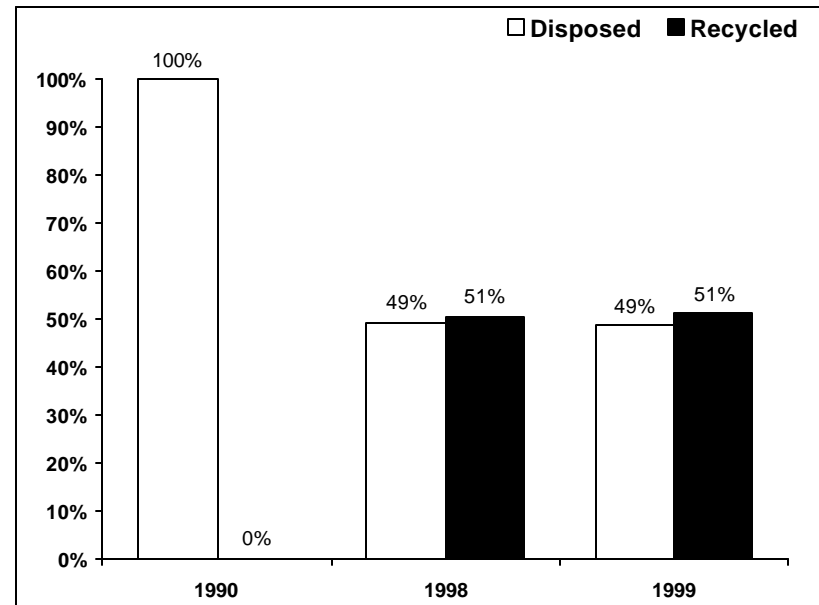
Approved solid waste management plan : Yes

SWMP State of implementation: 76-100%

**Tonnes Per Capita Recvcd and Disposed**



**Percent Recycled and Disposed**



Data status: Confirmed by Regional District

Source of the Data:

- 1990- Grouping/Previous MSW Tracking reports
- 1998- Regional District
- 1999- Regional District



**Greater Vancouver Regional District**

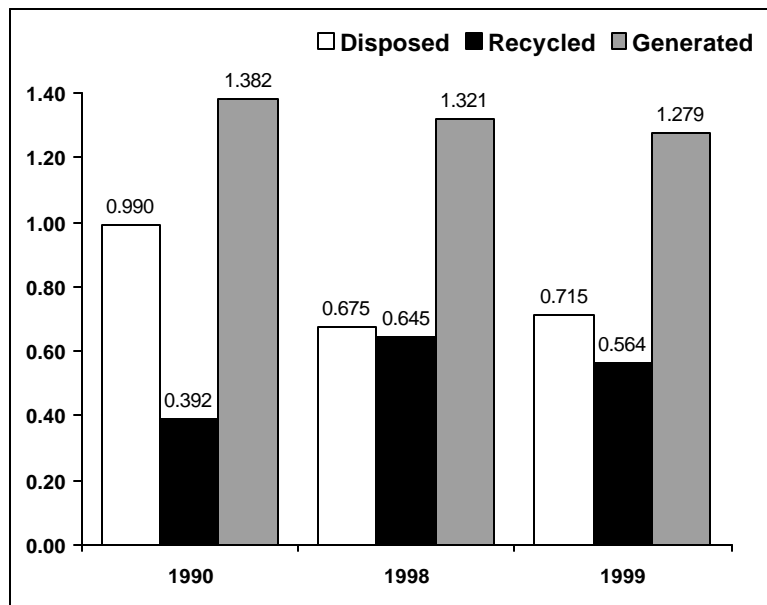
Regional District Area (km<sup>2</sup>): 2,930

| Year | Population | %   | Total waste disposed (in tonnes) | % | Percent disposed | Tonnes per capita disposed | Total waste recycled (in tonnes) | %   | Percent recycled | Tonnes per capita recycled | Total waste generated (in tonnes) | %  | Tonnes per capita generated |
|------|------------|-----|----------------------------------|---|------------------|----------------------------|----------------------------------|-----|------------------|----------------------------|-----------------------------------|----|-----------------------------|
| 1990 | 1,610,899  |     | 1,594,790                        |   | 72%              | 0.990                      | 631,000                          |     | 28%              | 0.392                      | 2,225,790                         |    | 1.382                       |
| 1998 | 1,978,848  | 0.6 | 1,336,671                        | 6 | 51%              | 0.675                      | 1,276,430                        | -12 | 49%              | 0.645                      | 2,613,101                         | -3 | 1.321                       |
| 1999 | 1,990,961  |     | 1,422,779                        |   | 56%              | 0.715                      | 1,122,717                        |     | 44%              | 0.564                      | 2,545,496                         |    | 1.279                       |

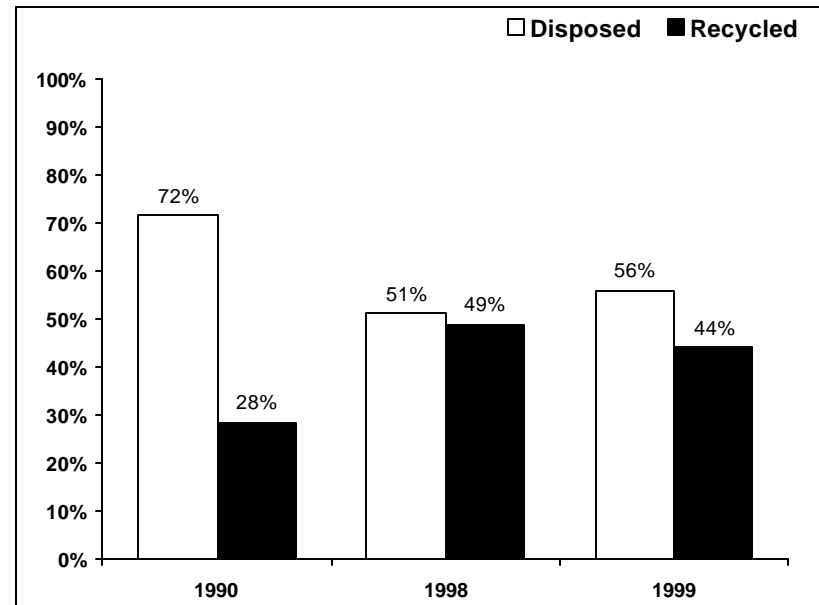
Approved solid waste management plan : Yes

SWMP State of implementation: 76-100%

**Tonnes Per Capita Recvcd and Disposed**



**Percent Recycled and Disposed**



Data status: Confirmed by Regional District

Source of the Data:  
 1990- Grouping/Previous MSW Tracking reports  
 1998- Regional District  
 1999- Regional District



**Kitimat-Stikine Regional District**

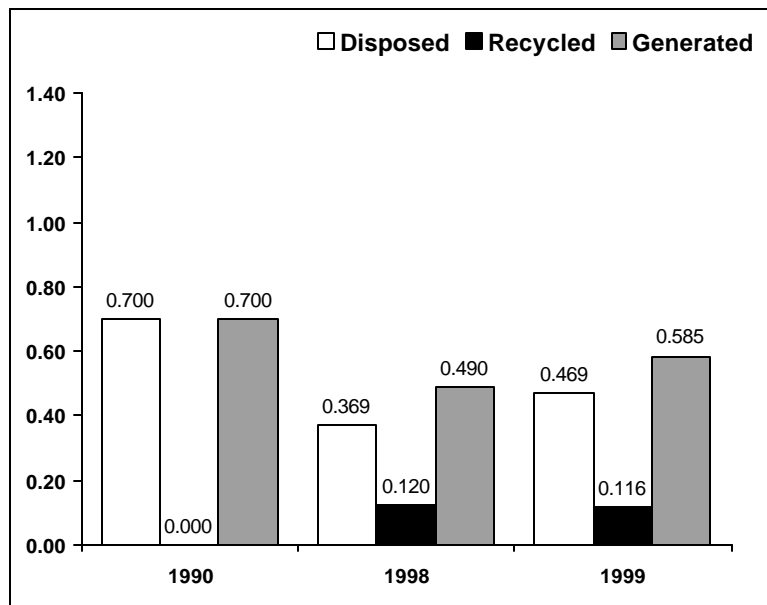
Regional District Area (km<sup>2</sup>): 91,909

| Year | Population | %   | Total waste disposed (in tonnes) | %  | Percent disposed | Tonnes per capita disposed | Total waste recycled (in tonnes) | % | Percent recycled | Tonnes per capita recycled | Total waste generated (in tonnes) | %  | Tonnes per capita generated |
|------|------------|-----|----------------------------------|----|------------------|----------------------------|----------------------------------|---|------------------|----------------------------|-----------------------------------|----|-----------------------------|
| 1990 | 39,431     |     | 27,602                           |    | 100%             | 0.700                      | 0                                |   | 0%               | 0.000                      | 27,602                            |    | 0.700                       |
| 1998 | 44,671     | 4.0 | 16,489                           | 32 | 75%              | 0.369                      | 5,381                            | 0 | 25%              | 0.120                      | 21,869                            | 24 | 0.490                       |
| 1999 | 46,449     |     | 21,800                           |    | 80%              | 0.469                      | 5,374                            |   | 20%              | 0.116                      | 27,174                            |    | 0.585                       |

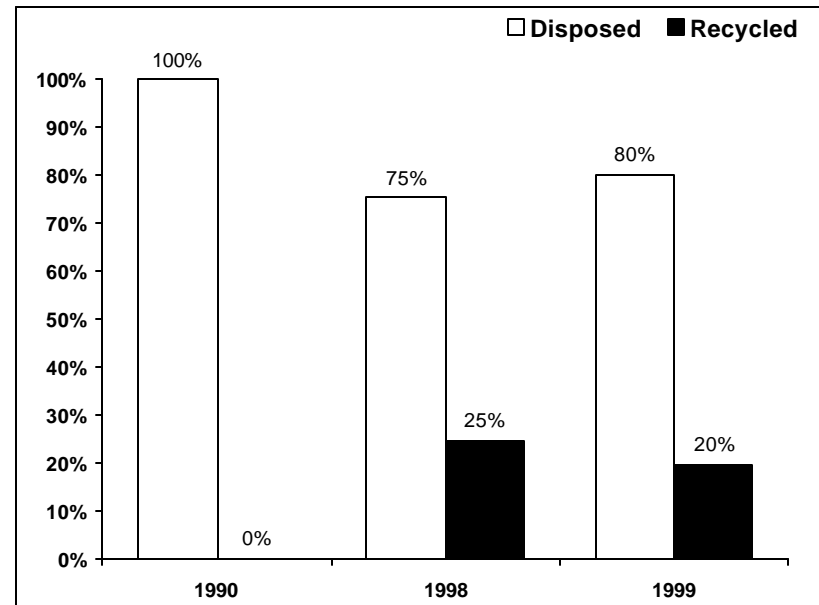
Approved solid waste management plan : Yes

SWMP State of implementation: 26-50%

**Tonnes Per Capita Recvcd and Disposed**



**Percent Recycled and Disposed**



Data status: Confirmed by Regional District

Source of the Data:  
 1990- Grouping/Previous MSW Tracking reports  
 1998- Regional District  
 1999- Regional District

# BC Municipal Solid Waste Tracking Report 1999

## Kitimat-Stikine Regional District

### Disposed Waste Breakdown by Facility Type

| Disposal Facility    | Disposal Method (LF/IN/XPTS) | Tipping Fees General Refuse (\$/MNA) | Staffed (Y/N) | DLC Accepted (Y/N) | Salvage Area (Y/N) | Electric Fencing (Y/N) | Weigh Scales (Y/N) | Landfill Gas Management   |                   | Expected Year of Closure | Design Capacity (tonnes) | Total Waste Disposed (tonnes) |                 |
|----------------------|------------------------------|--------------------------------------|---------------|--------------------|--------------------|------------------------|--------------------|---------------------------|-------------------|--------------------------|--------------------------|-------------------------------|-----------------|
|                      |                              |                                      |               |                    |                    |                        |                    | Collection /Flaring (Y/N) | Utilization (Y/N) |                          |                          | 1998                          | 1999            |
| Thornhill            | LF                           | \$12.50-\$50/load                    | Y             | Y                  | Y                  | Y                      | N                  | N                         | N                 | 2004                     |                          |                               | 4,080           |
| Hazelton             | LF                           |                                      | Y             | Y                  | Y                  | Y                      | N                  | N                         | N                 | 2050                     |                          |                               | 2,254           |
| Kitwanga             | LF                           |                                      | Y             | Y                  | Y                  | Y                      | N                  | N                         | N                 | 2004                     |                          |                               | 960             |
| Rosswood             | LF                           |                                      | Y             | Y                  | Y                  | Y                      | N                  | N                         | N                 | 2025                     | 3,000                    |                               | 96              |
| Iskut                | LF                           |                                      | N             | Y                  | Y                  | N                      | N                  | N                         | N                 | 2035                     | 12,000                   |                               | 120             |
| Terrace              | LF                           | \$12.50-\$50/load                    | Y             | Y                  |                    | Y                      | N                  | N                         | N                 | 2004                     |                          |                               | 6,533           |
| Kitimat              | LF                           | \$                                   | Y             | Y                  |                    | Y                      | N                  | N                         | N                 |                          |                          |                               | 6,086           |
| Stewart              | LF                           | \$                                   | Y             | Y                  |                    | Y                      | N                  | N                         | N                 |                          |                          |                               | 437             |
| Telegraph/ Bob Quinn | LF's                         |                                      | N             | Y                  | N                  | N                      | N                  | N                         | N                 |                          |                          |                               | 219             |
| Nass                 | LF                           |                                      | Y             | Y                  |                    | Y                      | N                  | N                         | N                 |                          |                          |                               | 1,015           |
| <b>Total</b>         |                              |                                      |               |                    |                    |                        |                    |                           |                   |                          |                          | <b>16,488.5</b>               | <b>21,800.0</b> |

### Recycled Waste Breakdown

| Class                                     | Sub-Class           | 1999 Total (tonnes) |
|---|---------------------|---------------------|
| Glass                                     | Co-mingled          | 736.0               |
| Metal                                     | White Goods         | 361.0               |
|   | Other               | 3,160.0             |
| Organic                                   | Food                |                     |
|   | Yard                | 155.0               |
| Paper                                     | OCC                 |                     |
|   | ONP                 |                     |
|   | Fine                |                     |
|   | Total Paper         | 428.0               |
| Plastic                                   | Co-mingled          |                     |
|   | Sorted              |                     |
| DLC                                       | Wood                |                     |
|   | Gypsum              |                     |
|   | Concrete            |                     |
|   | Other               |                     |
| Other                                     | Tires and Batteries | 534.0               |
| <b>TOTAL</b>                              |                     | <b>5,374.0</b>      |
| <b>TOTAL RECYCLED PER CAPITA (tonnes)</b> |                     | <b>0.12</b>         |

### Notes, Challenges and Disposal Programs of Significance

\*Between 25-40% of the recycling occurring is non-regional district. Information provided for 1999 is based on 1998 data. As indicated when 1999 data was requested, there was an insufficient time frame provided to allow for the gathering of more accurate recycling information.

\*Populations are based on 1998 data

\*Information provided in the Disposed Waste Breakdown by Facility Type are estimates for each respective site. The Terrace, Kitimat and Stewart Landfills are Municipal owned. Municipalities were not contacted for data provided.

\*The Terrace and Thornhill Landfills are planned for closure and replaced with a Sub Regional Terrace Area Facility. The Hazelton Landfill is currently being assessed for an upgrade/expansion, the Kitwanga Landfill would then close and refuse would be transferred to the upgraded Hazelton site. The Telegraph site is planned to be closed and replaced with a new landfill.

\*The Nass Landfill is owned by the Gitlakdamix Band.

\*For Recycled Waste Breakdown the 'Other' category includes the following tonnages; Tires = 514, Batteries = 20.

**Kootenay Boundary Regional District**

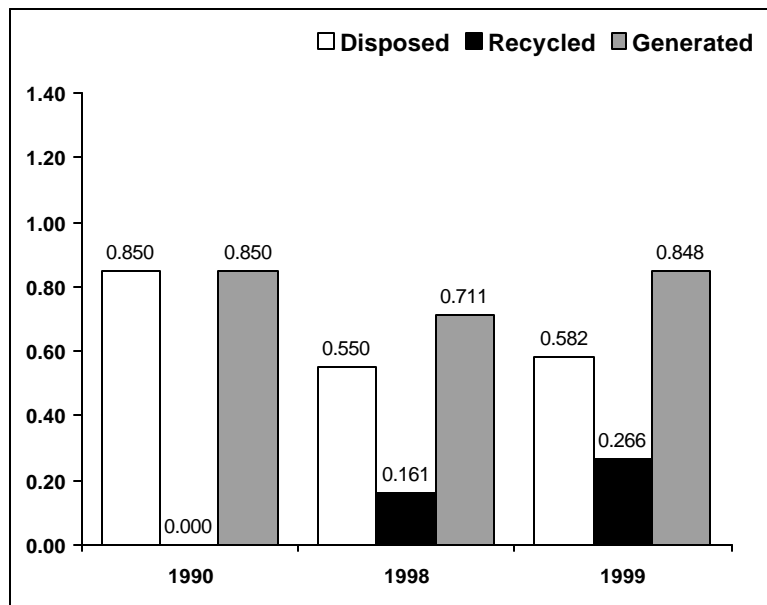
Regional District Area (km<sup>2</sup>): 8,300

| Year | Population | %    | Total waste disposed (in tonnes) | % | Percent disposed | Tonnes per capita disposed | Total waste recycled (in tonnes) | %  | Percent recycled | Tonnes per capita recycled | Total waste generated (in tonnes) | %  | Tonnes per capita generated |
|------|------------|------|----------------------------------|---|------------------|----------------------------|----------------------------------|----|------------------|----------------------------|-----------------------------------|----|-----------------------------|
| 1990 | 30,425     |      | 25,861                           |   | 100%             | 0.850                      | 0                                |    | 0%               | 0.000                      | 25,861                            |    | 0.850                       |
| 1998 | 34,309     | -0.4 | 18,873                           | 5 | 77%              | 0.550                      | 5,523                            | 64 | 23%              | 0.161                      | 24,396                            | 19 | 0.711                       |
| 1999 | 34,156     |      | 19,886                           |   | 69%              | 0.582                      | 9,073                            |    | 31%              | 0.266                      | 28,959                            |    | 0.848                       |

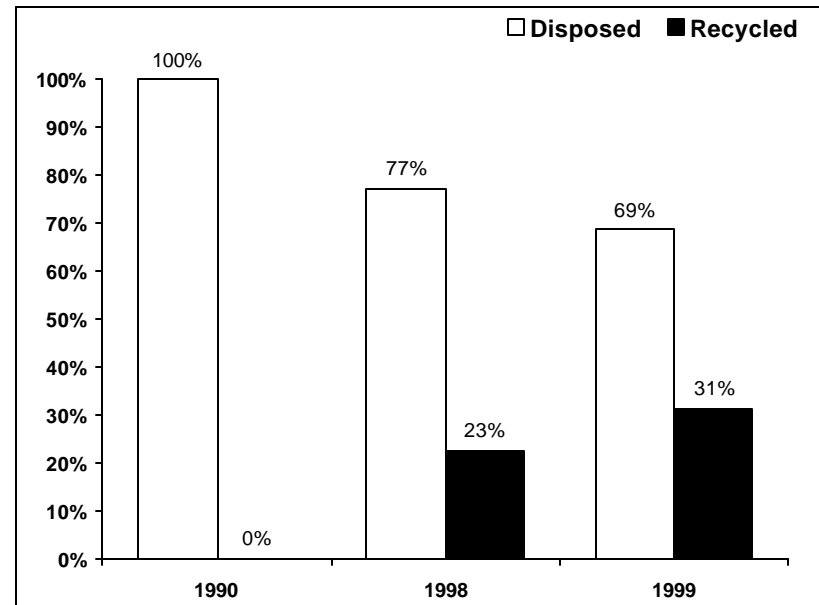
Approved solid waste management plan : Yes

SWMP State of implementation: 76-100%

**Tonnes Per Capita Recvcd and Disposed**



**Percent Recycled and Disposed**



Data status: Confirmed by Regional District

Source of the Data:

- 1990- Grouping/Previous MSW Tracking reports
- 1998- Regional District
- 1999- Regional District



**Mount Waddington Regional District**

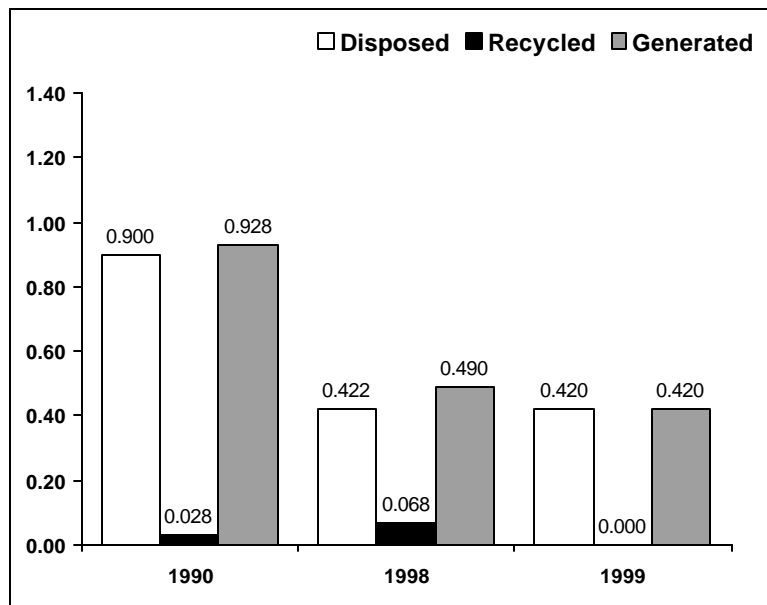
Regional District Area (km<sup>2</sup>): 21,464

| Year | Population | %    | Total waste disposed (in tonnes) | %  | Percent disposed | Tonnes per capita disposed | Total waste recycled (in tonnes) | %       | Percent recycled | Tonnes per capita recycled | Total waste generated (in tonnes) | %   | Tonnes per capita generated |
|------|------------|------|----------------------------------|----|------------------|----------------------------|----------------------------------|---------|------------------|----------------------------|-----------------------------------|-----|-----------------------------|
| 1990 | 14,086     |      | 12,677                           |    | 97%              | 0.900                      | 400                              |         | 3%               | 0.028                      | 13,077                            |     | 0.928                       |
| 1998 | 15,000     | -2.7 | 6,328                            | -3 | 86%              | 0.422                      | 1,024                            |         | 14%              | 0.068                      | 7,352                             | -16 | 0.490                       |
| 1999 | 14,601     |      | 6,162                            |    | 100%             | 0.420                      | No data                          | No data | No data          | 6,162                      | 0.420                             |     |                             |

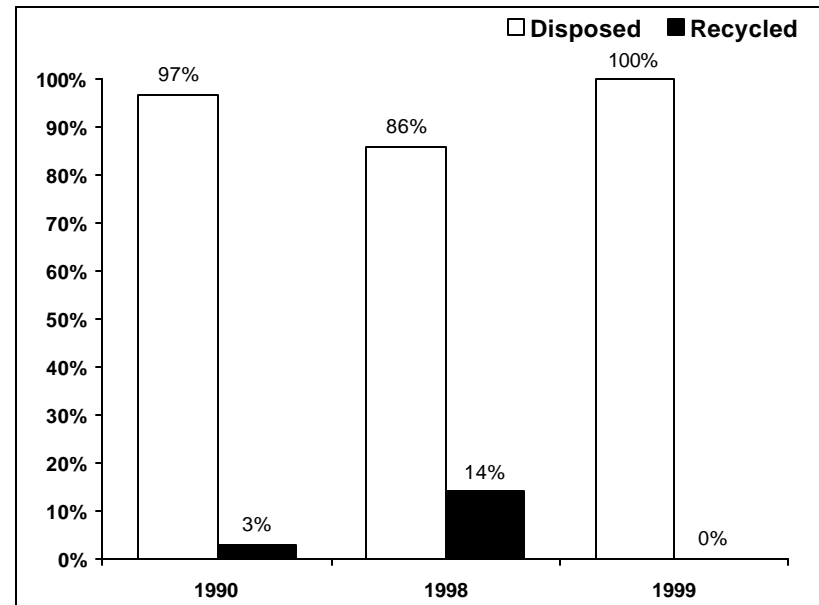
Approved solid waste management plan : Yes

SWMP State of implementation: 76-100%

**Tonnes Per Capita Recvcd and Disposed**



**Percent Recycled and Disposed**



Data status: Confirmed by the Regional District

Source of the Data:  
 1990- Grouping/Previous MSW Tracking reports  
 1998- Regional District  
 1999- 1998 Per Capita Disposal Rate



**Nanaimo Regional District**

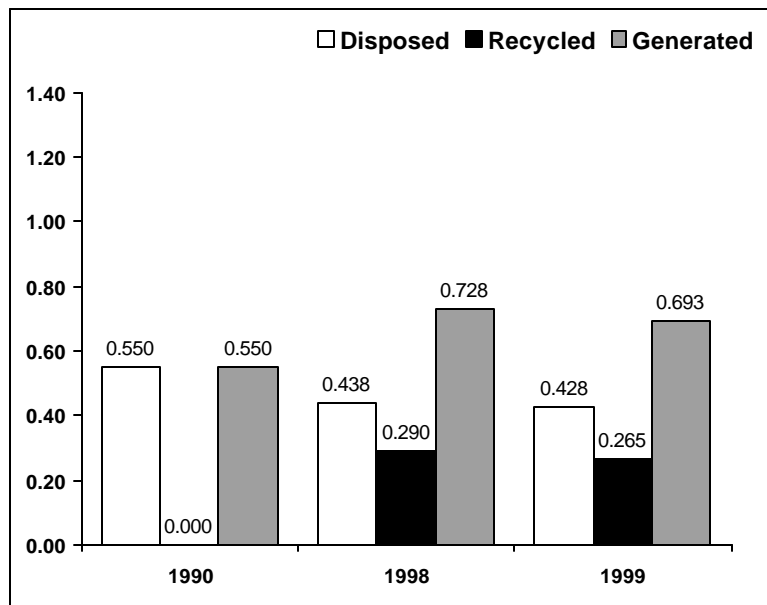
Regional District Area (km<sup>2</sup>): 2,041

| Year | Population | %   | Total waste disposed (in tonnes) | % | Percent disposed | Tonnes per capita disposed | Total waste recycled (in tonnes) | %  | Percent recycled | Tonnes per capita recycled | Total waste generated (in tonnes) | %  | Tonnes per capita generated |
|------|------------|-----|----------------------------------|---|------------------|----------------------------|----------------------------------|----|------------------|----------------------------|-----------------------------------|----|-----------------------------|
| 1990 | 91,879     |     | 50,533                           |   | 100%             | 0.550                      | 0                                |    | 0%               | 0.000                      | 50,533                            |    | 0.550                       |
| 1998 | 132,442    | 3.9 | 58,058                           | 1 | 60%              | 0.438                      | 38,362                           | -5 | 40%              | 0.290                      | 96,420                            | -1 | 0.728                       |
| 1999 | 137,637    |     | 58,885                           |   | 62%              | 0.428                      | 36,526                           |    | 38%              | 0.265                      | 95,411                            |    | 0.693                       |

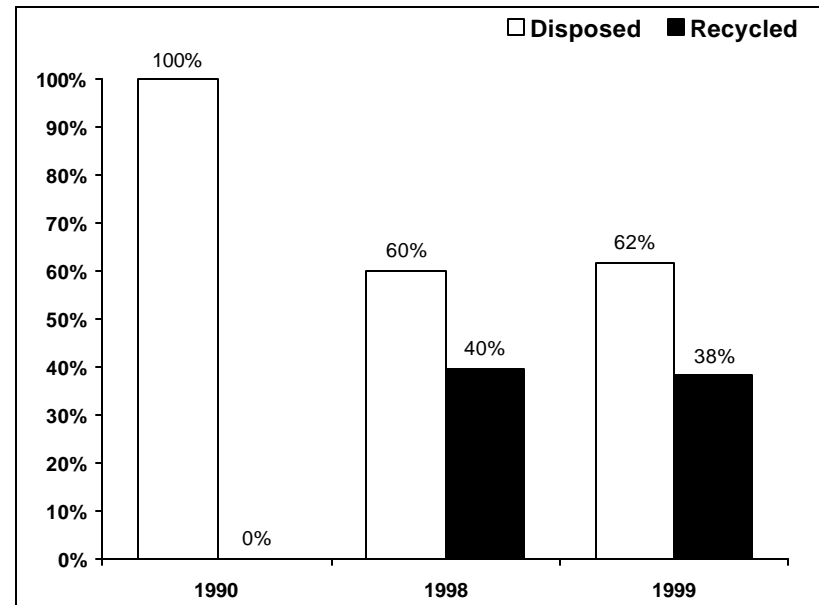
Approved solid waste management plan : Yes

SWMP State of implementation: 51-75%

**Tonnes Per Capita Recvcd and Disposed**



**Percent Recycled and Disposed**



Data status: Confirmed by Regional District

Source of the Data:

- 1990- Grouping/Previous MSW Tracking reports
- 1998- Regional District
- 1999- Regional District



**North Okanagan Regional District**

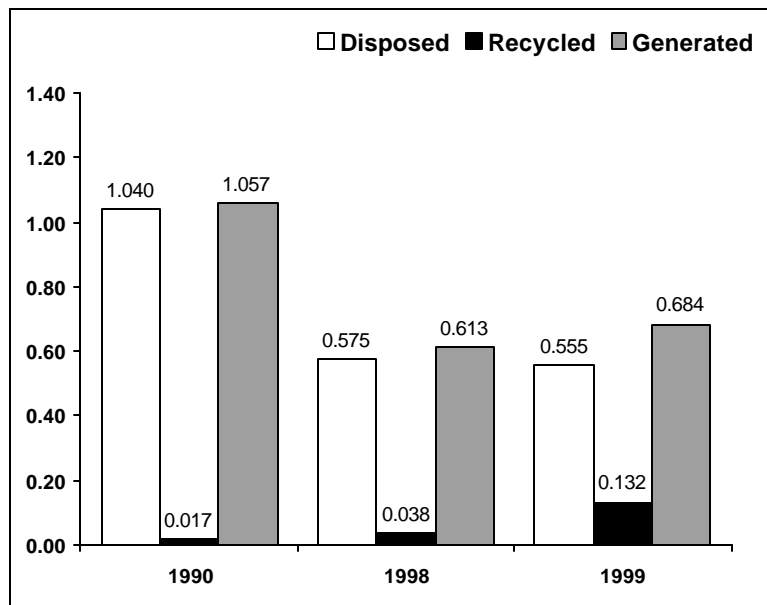
Regional District Area (km<sup>2</sup>): 7,872

| Year | Population | %   | Total waste disposed (in tonnes) | %  | Percent disposed | Tonnes per capita disposed | Total waste recycled (in tonnes) | %   | Percent recycled | Tonnes per capita recycled | Total waste generated (in tonnes) | %  | Tonnes per capita generated |
|------|------------|-----|----------------------------------|----|------------------|----------------------------|----------------------------------|-----|------------------|----------------------------|-----------------------------------|----|-----------------------------|
| 1990 | 57,611     |     | 59,915                           |    | 98%              | 1.040                      | 954                              |     | 2%               | 0.017                      | 60,869                            |    | 1.057                       |
| 1998 | 75,240     | 3.0 | 43,272                           | -1 | 94%              | 0.575                      | 2,844                            | 261 | 6%               | 0.038                      | 46,116                            | 15 | 0.613                       |
| 1999 | 77,497     |     | 43,001                           |    | 81%              | 0.555                      | 10,263                           |     | 19%              | 0.132                      | 53,045                            |    | 0.684                       |

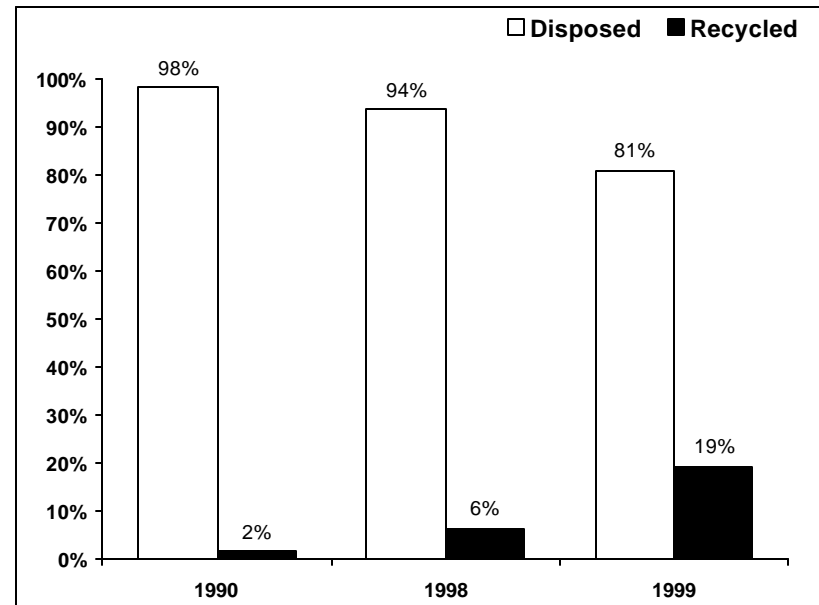
Approved solid waste management plan : Yes

SWMP State of implementation: 76-100%

**Tonnes Per Capita Recvcd and Disposed**



**Percent Recycled and Disposed**



Data status: Draft

Source of the Data:

- 1990- Grouping/Previous MSW Tracking reports
- 1998- Regional District
- 1999- Regional District



**Northern Rockies Regional District**

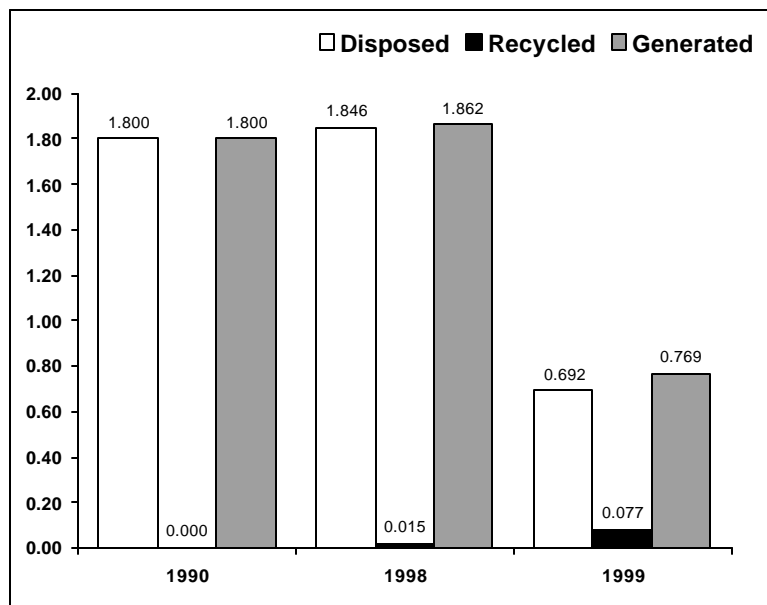
Regional District Area (km<sup>2</sup>): 80,000

| Year | Population | %   | Total waste disposed (in tonnes) | %   | Percent disposed | Tonnes per capita disposed | Total waste recycled (in tonnes) | %   | Percent recycled | Tonnes per capita recycled | Total waste generated (in tonnes) | %   | Tonnes per capita generated |
|------|------------|-----|----------------------------------|-----|------------------|----------------------------|----------------------------------|-----|------------------|----------------------------|-----------------------------------|-----|-----------------------------|
| 1990 | 4,565      |     | 8,217                            |     | 100%             | 1.800                      | 0                                |     | 0%               | 0.000                      | 8,217                             |     | 1.800                       |
| 1998 | 6,500      | 0.0 | 12,000                           | -63 | 99%              | 1.846                      | 100                              | 400 | 1%               | 0.015                      | 12,100                            | -59 | 1.862                       |
| 1999 | 6,500      |     | 4,500                            |     | 90%              | 0.692                      | 500                              |     | 10%              | 0.077                      | 5,000                             |     | 0.769                       |

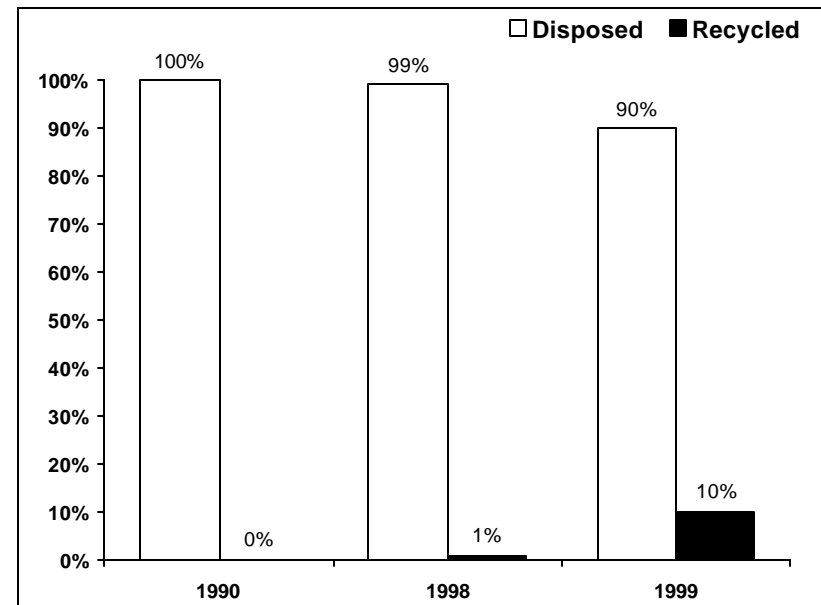
Approved solid waste management plan : Yes

SWMP State of implementation: 76-100%

**Tonnes Per Capita Recvclcd and Disposed**



**Percent Recycled and Disposed**



Data status: Confirmed by Regional District

Source of the Data:

- 1990- Grouping/Previous MSW Tracking reports
- 1998- Regional District
- 1999- Regional District

# BC Municipal Solid Waste Tracking Report 1999

## Northern Rockies Regional District

### Disposed Waste Breakdown by Facility Type

| Disposal Facility    | Disposal Method (L/F/N/X/P/T/S) | Tipping Fees General Refuse (\$/MNA) | Staffed (Y/N) | DLC Accepted (Y/N) | Salvage Area (Y/N) | Electric Fencing (Y/N) | Weigh Scales (Y/N) | Landfill Gas Management   |                   | Expected Year of Closure | Design Capacity (tonnes) | Total Waste Disposed (tonnes) |                |
|----------------------|---------------------------------|--------------------------------------|---------------|--------------------|--------------------|------------------------|--------------------|---------------------------|-------------------|--------------------------|--------------------------|-------------------------------|----------------|
|                      |                                 |                                      |               |                    |                    |                        |                    | Collection /Flaring (Y/N) | Utilization (Y/N) |                          |                          | 1998                          | 1999           |
| Fort Nelson Landfill | LF                              | \$                                   | Y             |                    | N                  | Y                      | Y                  |                           |                   | 2001                     |                          |                               | 4,500          |
|                      |                                 |                                      |               |                    |                    |                        |                    |                           |                   |                          |                          |                               |                |
|                      |                                 |                                      |               |                    |                    |                        |                    |                           |                   |                          |                          |                               |                |
|                      |                                 |                                      |               |                    |                    |                        |                    |                           |                   |                          |                          |                               |                |
|                      |                                 |                                      |               |                    |                    |                        |                    |                           |                   |                          |                          |                               |                |
|                      |                                 |                                      |               |                    |                    |                        |                    |                           |                   |                          |                          |                               |                |
|                      |                                 |                                      |               |                    |                    |                        |                    |                           |                   |                          |                          |                               |                |
|                      |                                 |                                      |               |                    |                    |                        |                    |                           |                   |                          |                          |                               |                |
|                      |                                 |                                      |               |                    |                    |                        |                    |                           |                   |                          |                          |                               |                |
|                      |                                 |                                      |               |                    |                    |                        |                    |                           |                   |                          |                          |                               |                |
|                      |                                 |                                      |               |                    |                    |                        |                    |                           |                   |                          |                          |                               |                |
| <b>Total</b>         |                                 |                                      |               |                    |                    |                        |                    |                           |                   |                          |                          | <b>12,000.0</b>               | <b>4,500.0</b> |

### Recycled Waste Breakdown

| Class                                     | Sub-Class        | 1999 Total (tonnes) |
|---|------------------|---------------------|
| <b>Glass</b>                              | Co-mingled       |                     |
| <b>Metal</b>                              | White Goods      |                     |
|   | Other            |                     |
| <b>Organic</b>                            | Food             |                     |
|   | Yard             |                     |
| <b>Paper</b>                              | OCC              |                     |
|   | ONP              |                     |
|   | Fine             |                     |
|   | Mixed            |                     |
| <b>Plastic</b>                            | Co-mingled       |                     |
|   | Sorted           |                     |
| <b>DLC</b>                                | Wood             |                     |
|   | Gypsum           |                     |
|   | Concrete         |                     |
|   | Other            |                     |
| <b>Other</b>                              | See Note Section | 500.0               |
| <b>TOTAL</b>                              |                  | 500.0               |
| <b>TOTAL RECYCLED PER CAPITA (tonnes)</b> |                  | 0.08                |

### Notes, Challenges and Disposal Programs of Significance

\*50% of the 1990 disposal volume can now be accounted for through cardboard, tires, steel and drink can recycling programs, which are all operated by private facilities.

\*September 1999 a tipping fee was implemented. Prior to this it was free to dispose of excavation fill at the landfill, which is why the 1997 and 1998 Total Waste Disposed values are so much greater than the 1999 value.

**Okanagan-Similkameen Regional District**

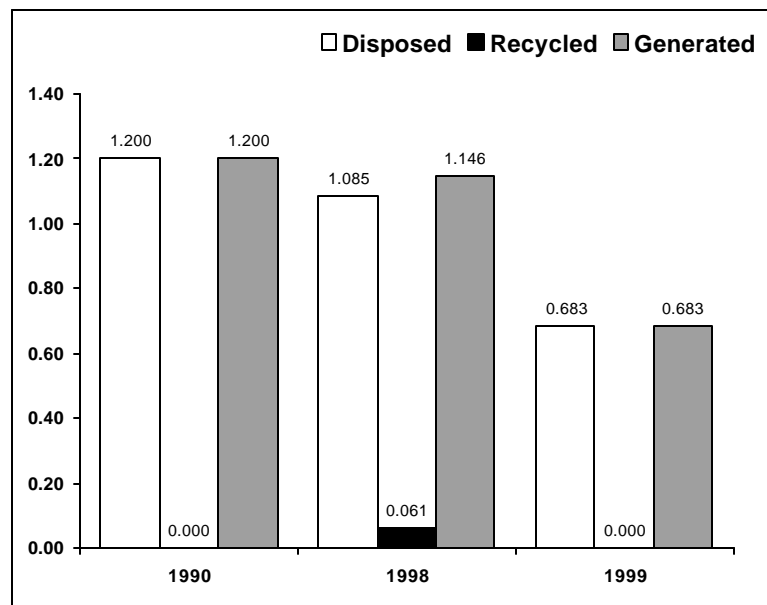
Regional District Area (km<sup>2</sup>): 10,411

| Year | Population | %   | Total waste disposed (in tonnes) | %   | Percent disposed | Tonnes per capita disposed | Total waste recycled (in tonnes) | % | Percent recycled | Tonnes per capita recycled | Total waste generated (in tonnes) | %   | Tonnes per capita generated |
|------|------------|-----|----------------------------------|-----|------------------|----------------------------|----------------------------------|---|------------------|----------------------------|-----------------------------------|-----|-----------------------------|
| 1990 | 66,239     |     | 79,487                           |     | 100%             | 1.200                      | 0                                |   | 0%               | 0.000                      | 79,487                            |     | 1.200                       |
| 1998 | 78,700     | 0.5 | 85,400                           | -37 | 95%              | 1.085                      | 4,800                            |   | 5%               | 0.061                      | 90,200                            | -40 | 1.146                       |
| 1999 | 79,100     |     | 54,049                           |     | 100%             | 0.683                      | No data                          |   | No data          | No data                    | 54,049                            |     | 0.683                       |

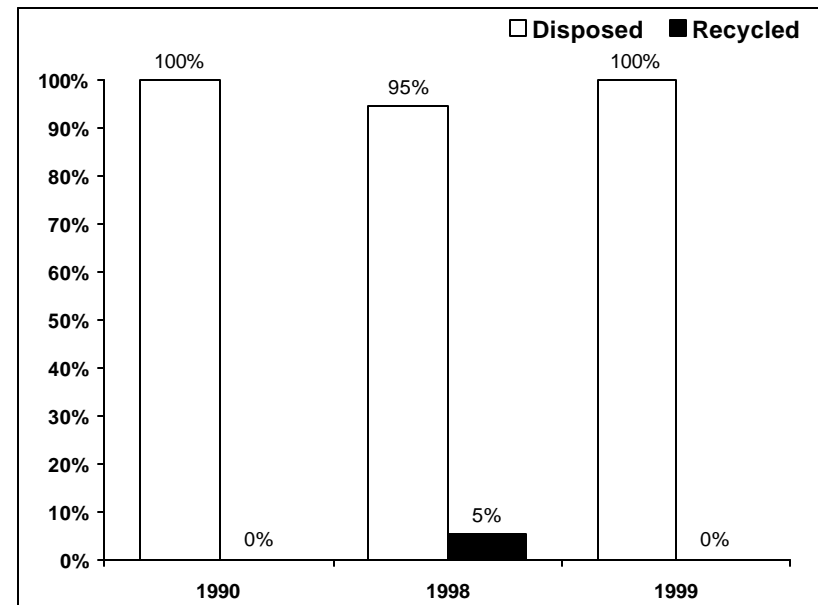
Approved solid waste management plan : Yes

SWMP State of implementation: 26-50%

**Tonnes Per Capita Recvcd and Disposed**



**Percent Recycled and Disposed**



Data status: Confirmed by Regional District

Source of the Data:

- 1990- Grouping/Previous MSW Tracking reports
- 1998- Regional District
- 1999- Regional District



**Peace River Regional District**

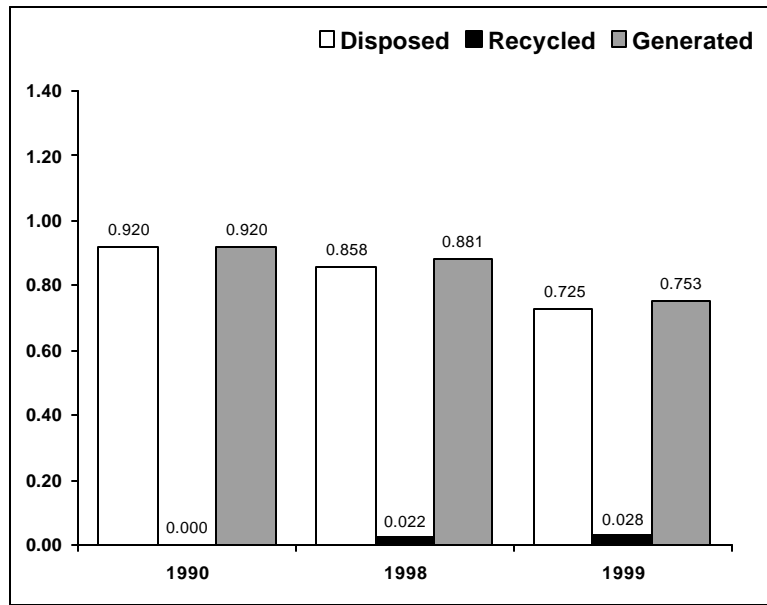
Regional District Area (km<sup>2</sup>): 119,337

| Year | Population | %   | Total waste disposed (in tonnes) | %   | Percent disposed | Tonnes per capita disposed | Total waste recycled (in tonnes) | %  | Percent recycled | Tonnes per capita recycled | Total waste generated (in tonnes) | %   | Tonnes per capita generated |
|------|------------|-----|----------------------------------|-----|------------------|----------------------------|----------------------------------|----|------------------|----------------------------|-----------------------------------|-----|-----------------------------|
| 1990 | 50,083     |     | 46,076                           |     | 100%             | 0.920                      | 0                                |    | 0%               | 0.000                      | 46,076                            |     | 0.920                       |
| 1998 | 60,000     | 0.0 | 51,500                           | -16 | 97%              | 0.858                      | 1,341                            | 26 | 3%               | 0.022                      | 52,841                            | -14 | 0.881                       |
| 1999 | 60,000     |     | 43,500                           |     | 96%              | 0.725                      | 1,689                            |    | 4%               | 0.028                      | 45,189                            |     | 0.753                       |

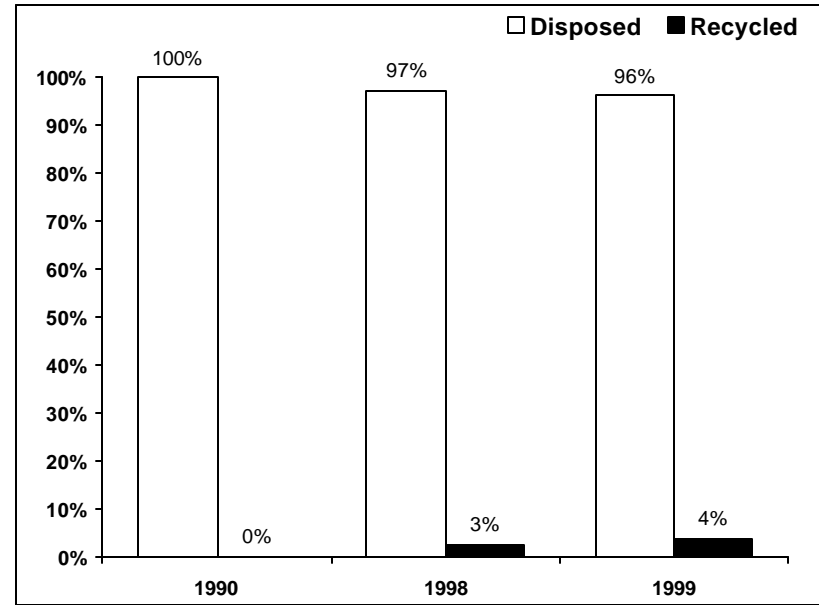
Approved solid waste management plan : Yes

SWMP State of implementation: 76-100%

**Tonnes Per Capita Recycled and Disposed**



**Percent Recycled and Disposed**



Data status: Draft

Source of the Data:

- 1990- Grouping/Previous MSW Tracking reports
- 1998- Regional District
- 1999- Regional District

# BC Municipal Solid Waste Tracking Report 1999

## Peace River Regional District

### Disposed Waste Breakdown by Facility Type

| Disposal Facility | Disposal Method (L/F/N/X/P/T/S) | Tipping Fees General Refuse (\$/MNA) | Staffed (Y/N) | DLC Accepted (Y/N) | Salvage Area (Y/N) | Electric Fencing (Y/N) | Weigh Scales (Y/N) | Landfill Gas Management   |                   | Expected Year of Closure | Design Capacity (tonnes) | Total Waste Disposed (tonnes) |                 |
|-------------------|---------------------------------|--------------------------------------|---------------|--------------------|--------------------|------------------------|--------------------|---------------------------|-------------------|--------------------------|--------------------------|-------------------------------|-----------------|
|                   |                                 |                                      |               |                    |                    |                        |                    | Collection /Flaring (Y/N) | Utilization (Y/N) |                          |                          | 1998                          | 1999            |
| Dawson Creek      | LF                              | \$25/tonne                           | Y             | Y                  | N                  | N                      | Y                  | N                         | N                 | 2003                     | 45,000                   | 14,000                        | 14,000          |
| Fort St John      | LF                              | \$25/tonne                           | Y             | Y                  | N                  | N                      | Y                  | N                         | N                 | 2012                     | 360,000                  | 28,000                        | 22,000          |
| Chetwynd          | LF                              | \$25/tonne                           | Y             | Y                  | N                  | N                      | Y                  | N                         | N                 | 2015                     | 80,000                   | 4,500                         | 4,800           |
| Bessborough       | LF                              | \$25/tonne                           | Y             | Y                  | N                  | N                      | N                  | N                         | N                 | 2020                     | 20,000                   | 600                           | 600             |
| Rose Prairie      | LF                              | \$25/tonne                           | Y             | Y                  | N                  | N                      | N                  | N                         | N                 | 2050                     | 40,000                   | 400                           | 600             |
| Taylor            | LF                              | \$25/tonne                           | Y             | Y                  | N                  | N                      | N                  | N                         | N                 | 2005                     | 6,500                    | 1,200                         | 900             |
| Cecil Lake        | LF                              | \$25/tonne                           | Y             | Y                  | N                  | N                      | N                  | N                         | N                 | 2001                     | 520                      | 400                           | 400             |
| Mile 62.5         | LF                              |                                      |               |                    |                    |                        |                    |                           |                   |                          |                          | 500                           | closed          |
| Hudson's Hope     | LF                              |                                      |               |                    |                    |                        |                    |                           |                   |                          |                          | 1,100                         | closed          |
| Pouce Coupe       | LF                              |                                      |               |                    |                    |                        |                    |                           |                   |                          |                          | 500                           | closed          |
| Moberly Lake      | LF                              |                                      |               |                    |                    |                        |                    |                           |                   |                          |                          | 300                           | closed          |
| <b>Total</b>      |                                 |                                      |               |                    |                    |                        |                    |                           |                   |                          |                          | <b>51,500.0</b>               | <b>43,500.0</b> |

### Recycled Waste Breakdown

| Class                                     | Sub-Class   | 1999 Total (tonnes) |
|---|-------------|---------------------|
| Glass                                     | Co-mingled  | 58.9                |
| Metal                                     | White Goods |                     |
|   | Other       | 20.2                |
| Organic                                   | Food        |                     |
|   | Yard        |                     |
| Paper                                     | OCC         | 742.3               |
|   | ONP         | 543.2               |
|   | Fine        | 118.6               |
|   | Mixed       | 83.5                |
| Plastic                                   | Co-mingled  | 104.9               |
|   | Sorted      | 17.1                |
| DLC                                       | Wood        |                     |
|   | Gypsum      |                     |
|   | Concrete    |                     |
|   | Other       |                     |
| Other                                     | Specify     |                     |
| <b>TOTAL</b>                              |             | 1,688.7             |
| <b>TOTAL RECYCLED PER CAPITA (tonnes)</b> |             | 0.03                |

### Notes, Challenges and Disposal Programs of Significance

\*The Total Waste Disposed and Recycled figures do not include any private sector recycling tonnages.  
 \*Design capacities listed are the available volumes as of 2000.

**Powell River Regional District**

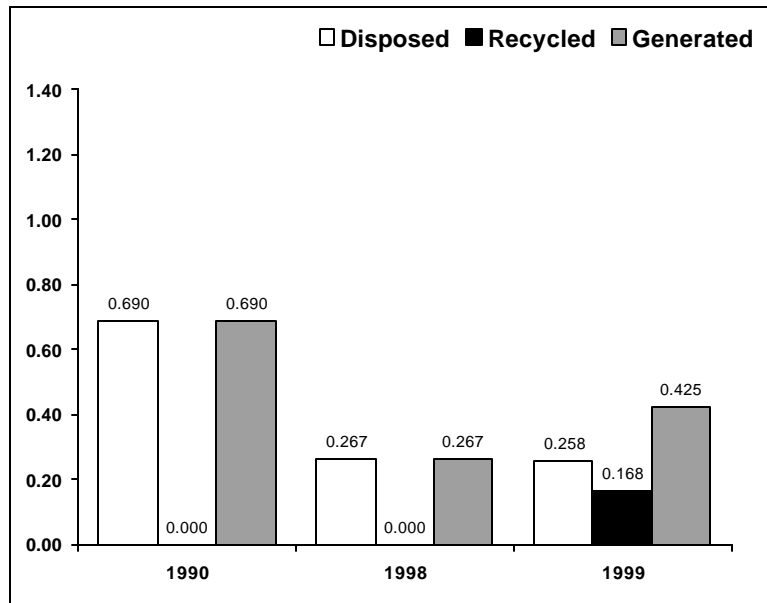
Regional District Area (km<sup>2</sup>): 5,101

| Year | Population | %    | Total waste disposed (in tonnes) | %  | Percent disposed | Tonnes per capita disposed | Total waste recycled (in tonnes) | % | Percent recycled | Tonnes per capita recycled | Total waste generated (in tonnes) | %  | Tonnes per capita generated |
|------|------------|------|----------------------------------|----|------------------|----------------------------|----------------------------------|---|------------------|----------------------------|-----------------------------------|----|-----------------------------|
| 1990 | 18,728     |      | 12,922                           |    | 100%             | 0.690                      | 0                                |   | 0%               | 0.000                      | 12,922                            |    | 0.690                       |
| 1998 | 21,124     | -0.3 | 5,645                            | -4 | No data          | 0.267                      | No data                          |   | No data          | No data                    | 5,645                             | 59 | 0.267                       |
| 1999 | 21,060     |      | 5,430                            |    | 61%              | 0.258                      | 3,531                            |   | 39%              | 0.168                      | 8,961                             |    | 0.425                       |

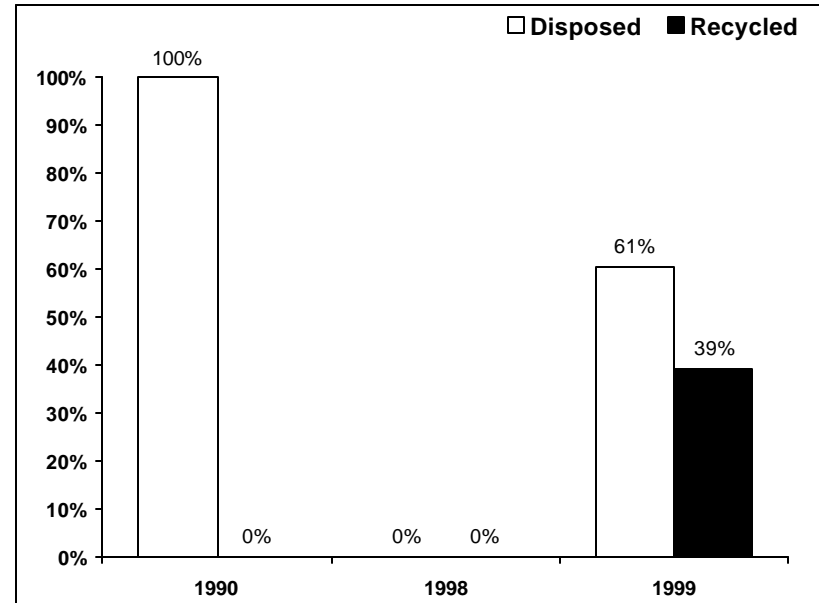
Approved solid waste management plan : Yes

SWMP State of implementation: 76-100%

**Tonnes Per Capita Recycled and Disposed**



**Percent Recycled and Disposed**



Data status: Confirmed by Regional District

Source of the Data:  
 1990- Grouping/Previous MSW Tracking reports  
 1998- Regional District  
 1999- Regional District

# BC Municipal Solid Waste Tracking Report 1999

## Powell River Regional District

### Disposed Waste Breakdown by Facility Type

| Disposal Facility | Disposal Method (L/FIN/XP/TS) | Tipping Fees General Refuse (\$/MNA) | Staffed (Y/N) | DLC Accepted (Y/N) | Salvage Area (Y/N) | Electric Fencing (Y/N) | Weigh Scales (Y/N) | Landfill Gas Management   |                   | Expected Year of Closure | Design Capacity (tonnes) | Total Waste Disposed (tonnes) |                |
|-------------------|-------------------------------|--------------------------------------|---------------|--------------------|--------------------|------------------------|--------------------|---------------------------|-------------------|--------------------------|--------------------------|-------------------------------|----------------|
|                   |                               |                                      |               |                    |                    |                        |                    | Collection /Flaring (Y/N) | Utilization (Y/N) |                          |                          | 1998                          | 1999           |
| Transfer station  | TS-XP                         | \$150/tonne                          | Y             | N                  | Y                  | N                      | Y                  | N/A                       | N/A               | N/A                      | N/A                      |                               | 5,430          |
|                   |                               |                                      |               |                    |                    |                        |                    |                           |                   |                          |                          |                               |                |
|                   |                               |                                      |               |                    |                    |                        |                    |                           |                   |                          |                          |                               |                |
|                   |                               |                                      |               |                    |                    |                        |                    |                           |                   |                          |                          |                               |                |
|                   |                               |                                      |               |                    |                    |                        |                    |                           |                   |                          |                          |                               |                |
|                   |                               |                                      |               |                    |                    |                        |                    |                           |                   |                          |                          |                               |                |
|                   |                               |                                      |               |                    |                    |                        |                    |                           |                   |                          |                          |                               |                |
|                   |                               |                                      |               |                    |                    |                        |                    |                           |                   |                          |                          |                               |                |
|                   |                               |                                      |               |                    |                    |                        |                    |                           |                   |                          |                          |                               |                |
|                   |                               |                                      |               |                    |                    |                        |                    |                           |                   |                          |                          |                               |                |
| <b>Total</b>      |                               |                                      |               |                    |                    |                        |                    |                           |                   |                          |                          | <b>5,645.0</b>                | <b>5,430.3</b> |

### Recycled Waste Breakdown

| Class                                     | Sub-Class   | 1999 Total (tonnes) |
|---|-------------|---------------------|
| Glass                                     | Co-mingled  | 142.4               |
| Metal                                     | White Goods |                     |
|   | Other       | 649.1               |
| Organic                                   | Food        |                     |
|   | Yard        | 1,354.8             |
| Paper                                     | OCC         | 400.9               |
|   | ONP         | 314.4               |
|   | Fine        | 112.1               |
|   | Mixed       | 207.9               |
| Plastic                                   | Co-mingled  | 87.4                |
|   | Sorted      | 12.7                |
| DLC                                       | Wood        |                     |
|   | Gypsum      | 112.8               |
|   | Concrete    | 131.8               |
|   | Asphalt     | 4.0                 |
| Other                                     | Specify     |                     |
| <b>TOTAL</b>                              |             | <b>3,530.3</b>      |
| <b>TOTAL RECYCLED PER CAPITA (tonnes)</b> |             | <b>0.17</b>         |

### Notes, Challenges and Disposal Programs of Significance

\*Total waste recycled includes private collection. Private collection accounted for 13.9% of total waste recycled (479.8 tonnes of paper).  
 \*The Metal 'other' category in the Recycled Waste Breakdown includes 85.17 tonnes of tin and 563.95 tonnes of mixed metal.

**Skeena-Queen Charlotte Regional District**

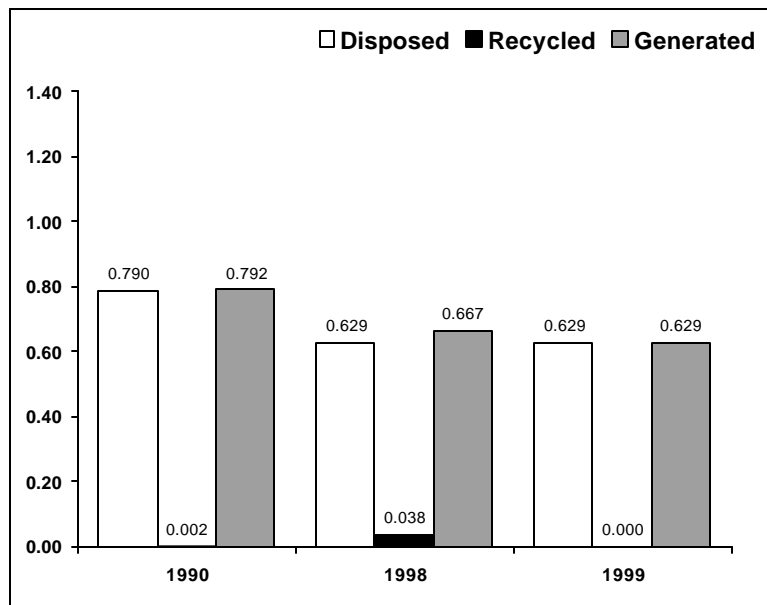
Regional District Area (km<sup>2</sup>): 21,000

| Year | Population | %   | Total waste disposed (in tonnes) | % | Percent disposed | Tonnes per capita disposed | Total waste recycled (in tonnes) | %       | Percent recycled | Tonnes per capita recycled | Total waste generated (in tonnes) | %  | Tonnes per capita generated |
|------|------------|-----|----------------------------------|---|------------------|----------------------------|----------------------------------|---------|------------------|----------------------------|-----------------------------------|----|-----------------------------|
| 1990 | 22,700     |     | 17,933                           |   | 100%             | 0.790                      | 36                               |         | 0%               | 0.002                      | 17,969                            |    | 0.792                       |
| 1998 | 24,795     | 2.7 | 15,606                           | 3 | 94%              | 0.629                      | 936                              |         | 6%               | 0.038                      | 16,542                            | -3 | 0.667                       |
| 1999 | 25,467     |     | 16,019                           |   | 100%             | 0.629                      | No data                          | No data | No data          | 16,019                     | 0.629                             |    |                             |

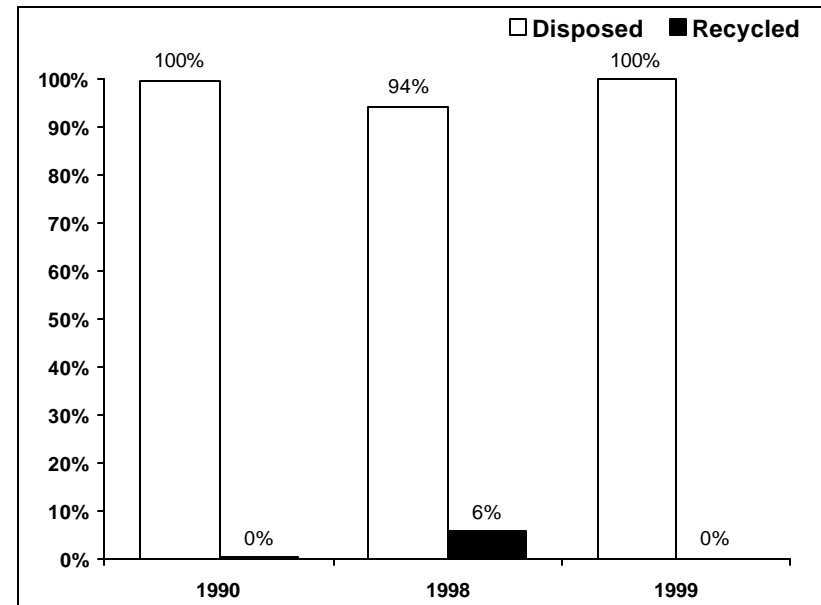
Approved solid waste management plan : Yes

SWMP State of implementation: 26-50%

**Tonnes Per Capita Recycled and Disposed**



**Percent Recycled and Disposed**



Data status: Draft

Source of the Data:

- 1990- Grouping/Previous MSW Tracking reports
- 1998- Regional District
- 1999- 1998 Per Capita Disposal Rate



**Squamish-Lillooet Regional District**

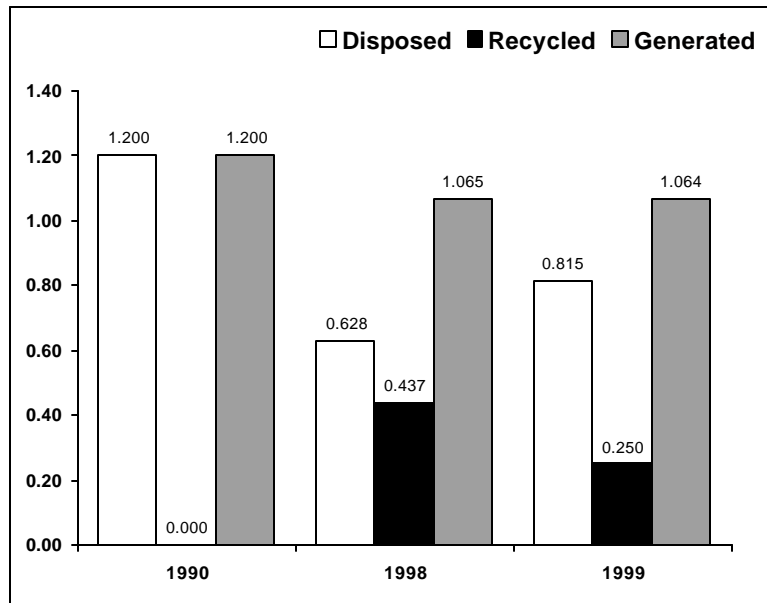
Regional District Area (km<sup>2</sup>): 16,534

| Year | Population | %     | Total waste disposed (in tonnes) | % | Percent disposed | Tonnes per capita disposed | Total waste recycled (in tonnes) | %   | Percent recycled | Tonnes per capita recycled | Total waste generated (in tonnes) | %   | Tonnes per capita generated |
|------|------------|-------|----------------------------------|---|------------------|----------------------------|----------------------------------|-----|------------------|----------------------------|-----------------------------------|-----|-----------------------------|
| 1990 | 32,437     |       | 38,924                           |   | 100%             | 1.200                      | 0                                |     | 0%               | 0.000                      | 38,924                            |     | 1.200                       |
| 1998 | 42,714     | -15.9 | 26,845                           | 9 | 59%              | 0.628                      | 18,655                           | -52 | 41%              | 0.437                      | 45,500                            | -16 | 1.065                       |
| 1999 | 35,911     |       | 29,255                           |   | 77%              | 0.815                      | 8,960                            |     | 23%              | 0.250                      | 38,215                            |     | 1.064                       |

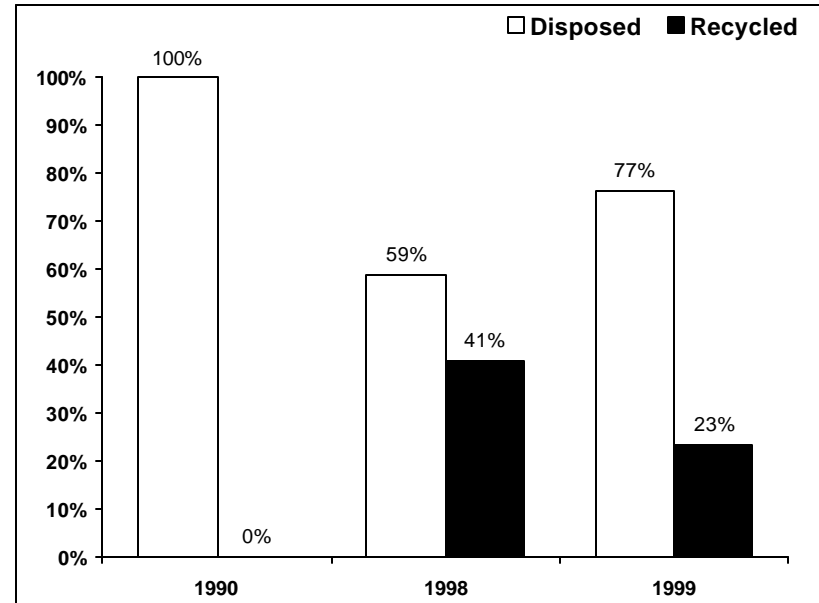
Approved solid waste management plan : Yes

SWMP State of implementation: 75-100 %

**Tonnes Per Capita Recycled and Disposed**



**Percent Recycled and Disposed**



Data status: Draft

Source of the Data:

- 1990- Grouping/Previous MSW Tracking reports
- 1998- Regional District
- 1999- Regional District



**Sunshine Coast Regional District**

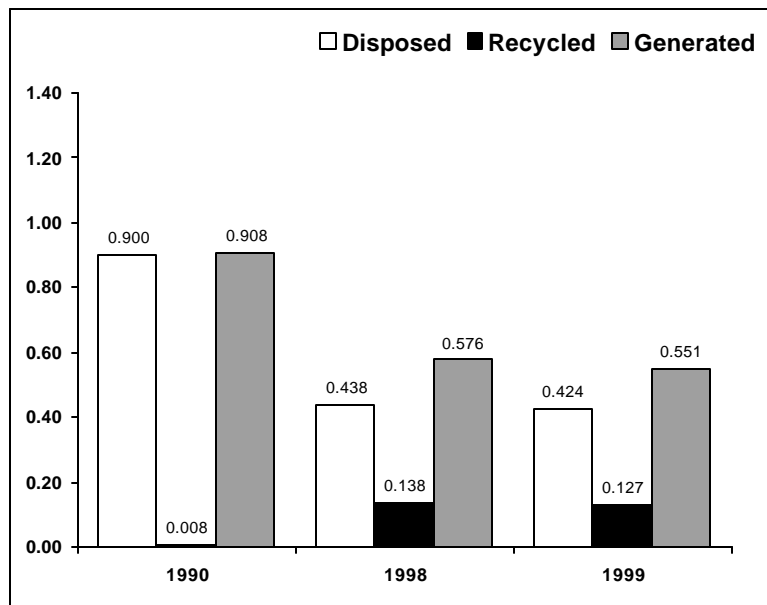
Regional District Area (km<sup>2</sup>): 3,824

| Year | Population | %   | Total waste disposed (in tonnes) | % | Percent disposed | Tonnes per capita disposed | Total waste recycled (in tonnes) | %  | Percent recycled | Tonnes per capita recycled | Total waste generated (in tonnes) | %  | Tonnes per capita generated |
|------|------------|-----|----------------------------------|---|------------------|----------------------------|----------------------------------|----|------------------|----------------------------|-----------------------------------|----|-----------------------------|
| 1990 | 19,119     |     | 17,207                           |   | 99%              | 0.900                      | 162                              |    | 1%               | 0.008                      | 17,369                            |    | 0.908                       |
| 1998 | 26,947     | 3.0 | 11,796                           | 0 | 76%              | 0.438                      | 3,729                            | -5 | 24%              | 0.138                      | 15,525                            | -1 | 0.576                       |
| 1999 | 27,755     |     | 11,765                           |   | 77%              | 0.424                      | 3,531                            |    | 23%              | 0.127                      | 15,296                            |    | 0.551                       |

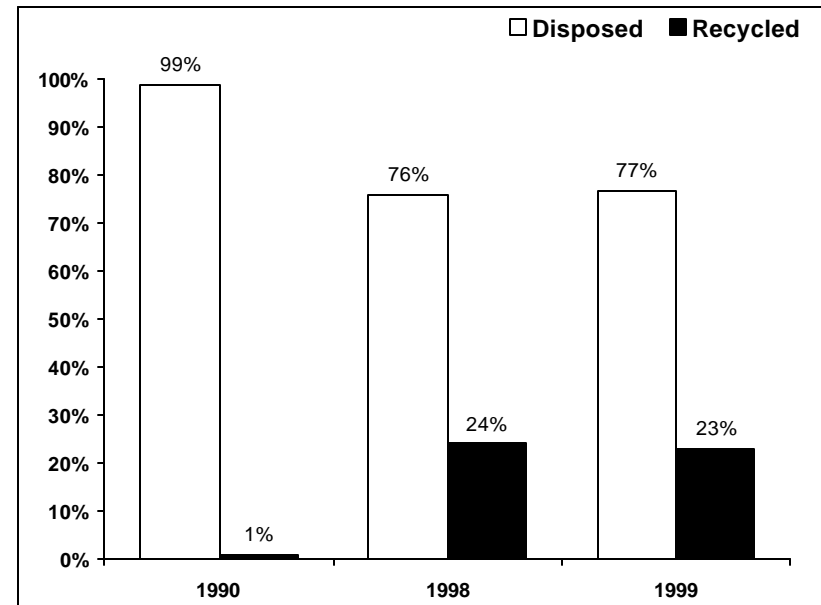
Approved solid waste management plan : Yes

SWMP State of implementation: 51-75%

**Tonnes Per Capita Recycled and Disposed**



**Percent Recycled and Disposed**



Data status: Confirmed by Regional District

Source of the Data:  
 1990- Grouping/Previous MSW Tracking reports  
 1998- Regional District  
 1999- Regional District



**Thompson-Nicola Regional District**

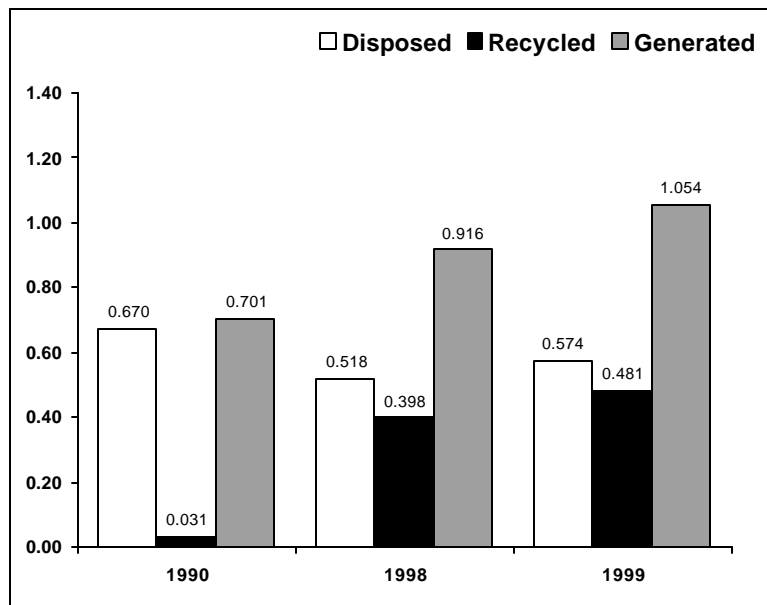
Regional District Area (km<sup>2</sup>): 44,872

| Year | Population | %   | Total waste disposed (in tonnes) | %  | Percent disposed | Tonnes per capita disposed | Total waste recycled (in tonnes) | %  | Percent recycled | Tonnes per capita recycled | Total waste generated (in tonnes) | %  | Tonnes per capita generated |
|------|------------|-----|----------------------------------|----|------------------|----------------------------|----------------------------------|----|------------------|----------------------------|-----------------------------------|----|-----------------------------|
| 1990 | 104,386    |     | 69,939                           |    | 96%              | 0.670                      | 3,285                            |    | 4%               | 0.031                      | 73,224                            |    | 0.701                       |
| 1998 | 126,798    | 1.2 | 65,638                           | 12 | 57%              | 0.518                      | 50,454                           | 22 | 43%              | 0.398                      | 116,092                           | 17 | 0.916                       |
| 1999 | 128,298    |     | 73,623                           |    | 54%              | 0.574                      | 61,662                           |    | 46%              | 0.481                      | 135,284                           |    | 1.054                       |

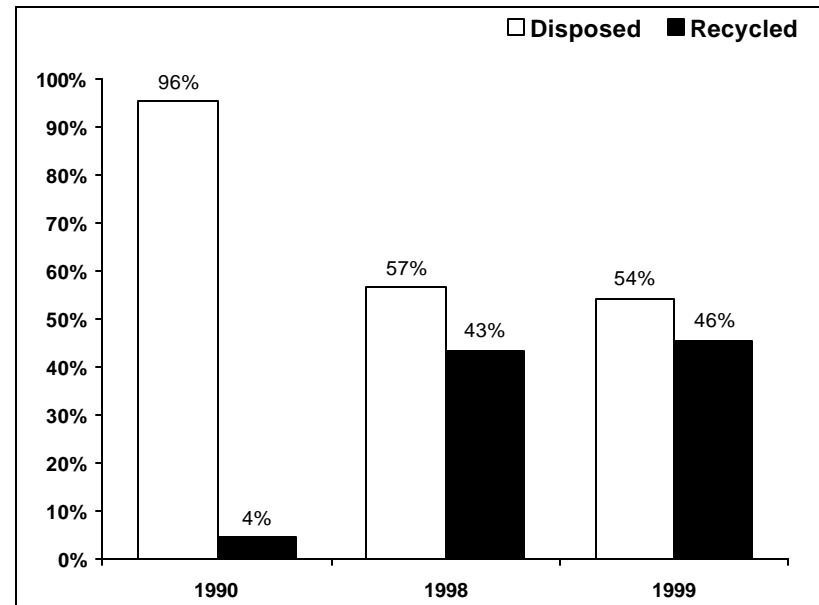
Approved solid waste management plan : Yes

SWMP State of implementation: 76-100%

**Tonnes Per Capita Recycled and Disposed**



**Percent Recycled and Disposed**



Data status: Confirmed by Regional District

Source of the Data:

- 1990- Grouping/Previous MSW Tracking reports
- 1998- Regional District
- 1999- Regional District





**Appendix A: REGIONAL SURVEY RESPONSES**

**Part A: Regional Survey Response Summary**

Percentage of BC Population Served by Various Regional Recycling Programs

| Residential Collection of Recyclables (other than compostables) |                  |                      |                                  |                         |                           |                 |                          |                               |                 |                              | Waste Reduction Staff                      |                       |  | Multi-material Processing Facility |                                |
|---|------------------|----------------------|----------------------------------|-------------------------|---------------------------|-----------------|--------------------------|-------------------------------|-----------------|------------------------------|--|-----------------------|--|------------------------------------|--------------------------------|
| Single Family Residential Curbside                              | Depots (Staffed) | Depots (Not Staffed) | Multi-family Collection Services | ICI Collection Services | Collection Agency         |                 |                          |                               |                 |                              | Waste Reduction Coordinator                | Education Coordinator | Landfill Manager                           | Public Service                     | Private Service                |
|   |                  |                      |                                  |                         | Single Family Residential |                 | Multi-family Residential |                               | ICI             |                              |  |                       |  |                                    |                                |
|   |                  |                      |                                  |                         | Private Service           | Public Service  | Private Service          | Public Service                | Private Service | Public Service               |  |                       |  |                                    |                                |
| 83.1  | 68.6             | 32.7                 | 67.9                             | 24.0                    | 18.5                      | 72.0            | 25.9                     | 58.8                          | 29.2            | 1.0                          | 28.2                                       | 31.4                  | 21.0                                       | 4.6                                | 25.0                           |
| Composting Programs and Facilities                              |                  |                      |                                  |                         |                           |                 |                          |                               |                 |                              | User Pay Strategy                          |                       |  |                                    |                                |
| Food and/or Yard Waste Collection                               |                  |                      |                                  | Composting Facilities   |                           |                 |                          | Backyard Compost Distribution |                 | Compost Demonstration Garden | Estimated Percent with Backyard Composters | Can or Bags Limits    | Collection Fees/Tags for Additional Pickup | Variable Unit Fee Structure        | Backyard Burning Bans in Place |
| Food Waste  |                  | Yard Waste           |                                  | Food Waste              |                           | Yard Waste      |                          | In Past                       | On-going        |                              |  |                       |  |                                    |                                |
| Curbside  | Depot            | Curbside             | Depot                            | Private Service         | Public Service            | Private Service | Public Service           |                               |                 |                              |  |                       |  |                                    |                                |
| 0.9   | 2.6              | 57.7                 | 79.6                             | 2.6                     | 2.0                       | 38.2            | 57.6                     | 31.3                          | 76.0            | 68.6                         | 8.4  | 85.0                  | 73.8                                       | 9.8                                | 27.9                           |

### **Part A: Regional Survey Response Summary, continued**

In order to complete the picture of MSW management in BC, MELP developed a questionnaire focussed on a number of different recycling initiatives. This information was collected for each municipality/electoral area when possible, and regionally, if not.

At this point it is important to reiterate that the primary focus of the MSW Tracking process is to monitor the amount of MSW being landfilled or incinerated in the province. The amount of waste being recycled and the programs involved in doing so, are secondary.

Note that the following regional districts are not included in the survey results: Central Coast, Cariboo, Kitimat-Stikine, Skeena-Queen Charlotte and Squamish-Lillooet. For those regional districts that are included, the assumption was made that if no information was provided concerning specific recycling programs, those programs were not available. If the regional district did not provide regional or municipal/electoral area populations, figures were obtained from the BC STATS website. Further information regarding BC STATS population estimate calculations can be obtained at [www.bcstats.gov.bc.ca](http://www.bcstats.gov.bc.ca).

All of the percentages (including those in the above table) were calculated using the total survey population of 3, 836, 285, which represents 95% of the population of BC. In the text the term population refers to the survey population.

#### **Residential Collection of Recyclables (other than compostables)**

Approximately 80% of the province is serviced by single-family residential curbside recycling, however 91% of the families involved live in regional districts with population densities greater than 15 people/km<sup>2</sup>. There is no curbside service offered in regional districts with population densities less than 1 person/km<sup>2</sup>. The majority of the single-family services are publicly operated (72%) although 19% are privately run, the latter being more common in rural areas.

The per cent of the population serviced by staffed recycling depots (69%) is greater than the number using unstaffed depots (33%). The staffed depots are concentrated in the regional districts with higher population densities, however unstaffed depots are located throughout the province. Fourteen regional districts have both staffed and unstaffed depots.

Multi-family and ICI collection services are available intermittently throughout the province, although neither is offered in regional districts with population densities less than 3 people/km<sup>2</sup>. In the regional districts where these services are offered, the scope of the program is less than that of single-family residential curbside, as it is available in

fewer municipalities. Most multi-family services are public (59%), although if the GVRD is not factored into this calculation the emphasis shifts to the private sector as the value drops to 13% (with the private sector servicing 26%). Furthermore, privately run multi-family collection services exist in more regional districts (10), than do public (8). The private sector is also responsible for 29% of the ICI recycling in the province (available in 12 regional districts), while the public sector is responsible for 1% (available in 3 regional districts).

### **User Pay Strategy**

The majority of the population (85%) is restricted in the number of cans or bags that can be put out for residential pick-up. This is an initiative in place across BC regardless of population density. The same is true for collection fees/tags for additional pickup, as 74% of the population is required to pay if they wish to dispose of more household waste. Only 8 regional districts have implemented user-pay programs other than collection fees for additional curbside pickup.

Twenty-eight per cent of the population is limited in the amount of backyard burning that is allowed. In some regional districts complete bans exist, while in others the times when backyard burning can take place is limited seasonally. Twenty per cent of the population affected by backyard burning bans live in regional districts with population densities less than 5 people/km<sup>2</sup>.

### **Composting Programs and Facilities**

In Mission (in the FVRD) both a curbside collection program and a depot for both food and yard waste are in place. These services are available to 0.85% of the population. However, there is also a privately run food waste depot in Chilliwack (in the FVRD), which had a population of 65,963 (1.64% of the total population) in 1999. Yard waste services, on the other hand, are more readily available, with 58% of the population having access to curbside services and 80% being able to drop their yard waste off at depots.

In terms of composting facilities, food waste composting is available in Mission, Hope and Chilliwack, while yard waste can be composted in 16 regional districts. Of those 16 regional districts, all are operating public facilities and 7 also have private composting services.

Thirteen regional districts have compost demonstration gardens servicing 69% of the population.

In the past, 31% of the population could purchase a backyard composting unit from their regional district; in 1999, this number increased to 76%. It should be noted

however, that not all the regional districts that offered this service at one time are still doing so.

It is estimated that 8% of the population owns a backyard composter. This estimate is based partially on the number of backyard composters distributed within the regional districts as well as the knowledge of regional district waste management staff, and thus does not account for any homemade composting units. The estimate also does not include the number of people with backyard composters in GVRD, which did not provide an estimate for this category.

### **Multi-material Processing Facilities**

Twelve regional districts, representing 25% of the population, have multi-material processing facilities. Four of the facilities are operated publicly, while 11 are private. This type of service is not offered at all in regional districts with population densities less than 1 person/km<sup>2</sup>.

### **Waste Reduction Staff**

Waste reduction coordinator positions exist in 14 regional districts representing 28% of the population. Education coordinators can be found in 12 regional districts (31% of the population), while 12 regional districts have landfill managers (21% of the population).

The positions themselves can not always be separated, as in some regional districts one individual may be responsible for all three roles. In some cases these positions are filled municipally while in other regional districts, the job exists at the regional level. Both part-time and full-time positions exist as well.

There are also regional districts that have decided to fill the role by contracting out the duties involved, as in the PRRD where a non-profit organization is responsible for developing education programs on the importance of waste reduction.

There is a greater concentration of these positions in the more highly populated areas although regional districts with a wide range of population densities have developed these jobs within their Solid Waste Management or Environmental Services departments.

**Part B: Regional District Survey Responses**

**Alberni-Clayoquot Regional District**

|                      |          | Residential Collection of Recyclables (other than compostables) |              |                                     |          |                                       |                           |                           |  | User Pay Strategy                  |   |                             |                                      |  |   |
|----------------------|----------|---|--------------|-------------------------------------|----------|---------------------------------------|---------------------------|---------------------------|--|------------------------------------|---|-----------------------------|--------------------------------------|--|---|
| Municipality / E.A.  | 1999 Pop | SF Curbside (Y/N)   | Depots (Y/N) |                                     | MF (Y/N) | ICI (Y/N)                             | Collection Agency (PU/PR) |                           |  | Can/Bag Limits                     | Collection Fees/ Tags for additional pickup (Y/N) | Variable Unit Fees (Y/N)    | Backyard Burning Bans in Place (Y/N) | Date User Pay Strategy was Implemented | Date User Pay Strategy is Planned to be Implemented |
|                      |          |   | Staff        | No Staff                            |          |                                       | SF                        | MF                        | ICI  |                                    |   |                             |                                      |  |   |
| City of Port Alberni | 18,500   | Y   | N            | Y                                   | Y        | Y                                     | PR                        | PR                        | PR   |                                    |   |                             |                                      |  |   |
|                      |          | Composting Programs and Facilities                              |              |                                     |          |                                       |                           |                           |  | Waste Reduction Staff (Y/N)        |   |                             |                                      |  |   |
| Municipality /E.A.   | 1999 Pop | Food and/or Yard Waste Collection (Y/N)(Fd/Yd)                  |              | Composting Facilities (Y/N) (PU/PR) |          | Backyard Composter Distribution (Y/N) |                           | Compost Demo Garden (Y/N) | Estimated Percent of Population with backyard composters | Multi-material Processing Facility |   | Waste Reduction Coordinator | Education Coordinator                | Landfill Manager                       |   |
|                      |          | Curbside  | Depot        | Yd                                  | Fd       | In past                               | On-going                  |                           |  | Y/N                                | PU/PR   |                             |                                      |  |   |
| City of Port Alberni | 18,500   | N   | N            |                                     |          |                                       |                           |                           |  | N                                  |   | N                           | N                                    | Y                                      |   |

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**Bulkley-Nechako Regional District**

| Municipality / E.A.   | 1999 Pop | Residential Collection of Recyclables (other than compostables) |              |                                     |          |                                       |                           |  |  | User Pay Strategy                  |   |                             |                                      |  |   |
|---|----------|---|--------------|-------------------------------------|----------|---------------------------------------|---------------------------|--|--|------------------------------------|---|-----------------------------|--------------------------------------|--|---|
|   |          | SF Curbside (Y/N)   | Depots (Y/N) |                                     | MF (Y/N) | ICI (Y/N)                             | Collection Agency (PU/PR) |  |  | Can/Bag Limits                     | Collection Fees/ Tags for additional pickup (Y/N) | Variable Unit Fees (Y/N)    | Backyard Burning Bans in Place (Y/N) | Date User Pay Strategy was Implemented | Date User Pay Strategy is Planned to be Implemented |
|   |          |   | Staff        | No Staff                            |          |                                       | SF                        | MF   | ICI  |                                    |   |                             |                                      |  |   |
| Vanderhoof  | 8554     | N   |              |                                     | N        | N                                     | N                         | N  | N  | N                                  | N   | N                           | Y                                    | N                                      | Y   |
| Fort St. James  | 5458     | N   | Y            |                                     | N        | N                                     | N                         | N  | N  | N                                  | N   | N                           | Y                                    | N                                      | Y   |
| Fort Fraser   | 400      | N   |              |                                     | N        | N                                     | N                         | N  | N  | N                                  | N   | N                           | Y                                    | N                                      | Y   |
| Fraser Lake   | 3302     | N   | Y            |                                     | N        | N                                     | N                         | N  | N  | N                                  | N   | N                           | Y                                    | N                                      | Y   |
| Burns Lake  | 5110     | N   | Y            |                                     | N        | N                                     | N                         | N  | N  | 3                                  | N   | N                           | Y                                    | N                                      | Y   |
| South Side  | 1951     | N   |              |                                     | N        | N                                     | N                         | N  | N  | N                                  | N   | N                           | Y                                    | N                                      | Y   |
| Knockholt   | 5338     | N   | Y            |                                     | N        | N                                     | N                         | N  | N  | 3                                  | N   | N                           | Y                                    | N                                      | Y   |
| Smithers/Telkwa   | 12965    | N   | Y            |                                     | N        | N                                     | PR                        | N  | N  | 5                                  | N   | N                           | Y                                    | N                                      | Y   |
| Granisle  | 467      | N   |              |                                     | N        | N                                     | N                         | N  | N  | N                                  | N   | N                           | Y                                    | N                                      | Y   |
| Manson Creek  | 50       | N   |              |                                     | N        | N                                     | N                         | N  | N  | N                                  | N   | N                           | Y                                    | N                                      | N   |
| Smithers Landing  | 50       | N   |              |                                     | N        | N                                     | N                         | N  | N  | N                                  | N   | N                           | Y                                    | N                                      | N   |
| Municipality /E.A.  | 1999 Pop | Composting Programs and Facilities                              |              |                                     |          |                                       |                           |  |  | Waste Reduction Staff (Y/N)        |   |                             |                                      |  |   |
|   |          | Food and/or Yard Waste Collection (Y/N)(Fd/Yd)                  |              | Composting Facilities (Y/N) (PU/PR) |          | Backyard Composter Distribution (Y/N) |                           | Compost Demo Garden (Y/N)  | Estimated Percent of Population with backyard composters | Multi-material Processing Facility |   | Waste Reduction Coordinator | Education Coordinator                | Landfill Manager                       |   |
|   |          | Curbside  | Depot        | Yd                                  | Fd       | In past                               | On-going                  |  |  | Y/N                                | PU/PR   |                             |                                      |  |   |
| Vanderhoof  | 8554     | N   | N            | Y-PU                                | Y-PU     | Y                                     |                           | N  | 17   | N                                  |   | Y                           | Y                                    | Y                                      |   |
| Fort St. James  | 5458     | N   | N            | Y-PU                                | Y-PU     | Y                                     |                           | N  | 23   | N                                  |   | Y                           | Y                                    | Y                                      |   |
| Fort Fraser   | 400      | N   | N            | N                                   | N        |                                       |                           | N  | 25   | N                                  |   | Y                           | Y                                    | Y                                      |   |
| Fraser Lake   | 3302     | N   | N            | Y-PU                                | Y-PU     |                                       |                           | N  | 18   | N                                  |   | Y                           | Y                                    | Y                                      |   |
| Burns Lake  | 5110     | N   | N            | Y-PU                                | Y-PU     |                                       |                           | N  | 17   | N                                  |   | Y                           | Y                                    | Y                                      |   |
| South Side  | 1951     | N   | N            | N                                   | N        |                                       |                           | N  | 25   | N                                  |   | Y                           | Y                                    | Y                                      |   |
| Knockholt   | 5338     | N   | N            | Y-PU                                | Y-PU     |                                       |                           | N  | 13   | N                                  |   | Y                           | Y                                    | Y                                      |   |
| Smithers/Telkwa   | 12965    | N   | N            | Y-PU                                | Y-PU     |                                       | Y                         | N  | 17   | N                                  |   | Y                           | Y                                    | Y                                      |   |
| Granisle  | 467      | N   | N            | N                                   | N        |                                       |                           | N  | 25   | N                                  |   | Y                           | Y                                    | Y                                      |   |
| Manson Creek  | 50       | N   | N            | N                                   | N        |                                       |                           | N  | 25   | N                                  |   | Y                           | Y                                    | Y                                      |   |
| Smithers Landing  | 50       | N   | N            | N                                   | N        |                                       |                           | N  | 25   | N                                  |   | Y                           | Y                                    | Y                                      |   |
| <b>Disposal/ Recycling Measurement /Challenges</b>  |          |   |              |                                     |          |                                       |                           | <b>Waste Composition Study</b>   |  |                                    |   |                             |                                      |  |   |
| Disposal: only one weigh scale in District. Recycling: Recycling measures are taken by the municipalities, not the district which makes it hard to estimate |          |   |              |                                     |          |                                       |                           | Waste composition study planned for 2000.  |  |                                    |   |                             |                                      |  |   |
| <b>Landfill Disposal Bans and Tipping Fee structure</b>   |          |   |              |                                     |          |                                       |                           | <b>Wood Waste Diversion</b>  |  |                                    |   |                             |                                      |  |   |
| Contaminated Soils tipping fees implemented in 1999. Construction and Demolition Waste fee planned for 2001   |          |   |              |                                     |          |                                       |                           | Wood chipper planned for 2000, use of material for landfill septage/leachate treatment |  |                                    |   |                             |                                      |  |   |
| <b>Waste Reduction Goals and Challenges</b>   |          |   |              |                                     |          |                                       |                           |  |  |                                    |   |                             |                                      |  |   |
|   |          |   |              |                                     |          |                                       |                           | Organic pilot project at one landfill planned for 2001. Glass bins planned for 2000.   |  |                                    |   |                             |                                      |  |   |

**Capital Regional District**

| Municipality / E.A. | 1999 Pop | Residential Collection of Recyclables (other than compostables) |              |  |          |  |                           |   |  | User Pay Strategy                  |  |                             |   |  |   |
|---------------------|----------|---|--------------|--|----------|--|---------------------------|---|--|------------------------------------|--|-----------------------------|---|--|---|
|                     |          | SF Curbside (Y/N)   | Depots (Y/N) |  | MF (Y/N) | ICI (Y/N)  | Collection Agency (PU/PR) |   |  | Can/ Bag Limits <sup>5</sup>       | Collection Fees/ Tags for additional pickup (Y/N) <sup>6</sup> | Variable Unit Fees (Y/N)    | Backyard Burning Bans in Place (Y/N) <sup>7</sup> | Date User Pay Strategy was Implemented | Date User Pay Strategy is Planned to be Implemented |
|                     |          |   | Staff        | No Staff                                 |          |  | SF                        | MF                                      | ICI  |                                    |  |                             |   |  |   |
| Esquimalt           | 16,987   | Y   | Y            |  | Y        | N  | PR                        | PR                                      | PR   | 1                                  | Y  | N                           | Y   | 1992                                   |   |
| Oak Bay             | 18,603   | Y   | Y            |  | Y        | N  | PU                        | PR                                      | PR   | 1                                  | Y  | N                           | Y   | 1992                                   |   |
| Saanich             | 107,266  | Y   | Y            |  | Y        | N  | PR                        | PR                                      | PR   | 1                                  | Y  | N                           | N   | 1992                                   |   |
| Victoria            | 77,909   | Y   | Y            |  | Y        | N  | PR                        | PR                                      | PR   | 1                                  | Y  | N                           | Y   | 1992                                   |   |
| Central Saanich     | 16,598   | Y   |              |  | Y        | N  | PR                        | PR                                      | PR   |                                    |  | Y                           | N   |  |   |
| North Saanich       | 11,870   | Y   |              |  | Y        | N  | PR                        | PR                                      | PR   |                                    |  | Y                           | N   |  |   |
| Sidney              | 12,281   | Y   |              |  | Y        | N  | PR                        | PR                                      | PR   | 1                                  | Y  | N                           | Y   |  |   |
| Colwood             | 14,601   | Y   |              |  | Y        | N  | PR                        | PR                                      | PR   |                                    |  | Y                           | N   |  |   |
| Highlands           | 1,650    | Y   |              |  | Y        | N  | PR                        | PR                                      | PR   |                                    |  | Y                           | N   |  |   |
| Langford EA         | 614      | Y   |              |  | Y        | N  | PR                        | PR                                      | PR   |                                    |  | Y                           | N   |  |   |
| Langford            | 18,925   | Y   | Y            |  | Y        | N  | PR                        | PR                                      | PR   |                                    |  | Y                           | N   |  |   |
| Metchosin           | 5,055    | N   |              |  | N        | N  | N/A                       | PR                                      | PR   |                                    |  | Y                           | N   |  |   |
| Sooke EA            | 15,232   | Y   | Y            |  | Y        | N  | PR                        | PR                                      | PR   |                                    |  | Y                           | N   |  |   |
| View Royal          | 7,492    | Y   |              |  | Y        | N  | PR                        | PR                                      | PR   |                                    |  | Y                           | N   |  | 2000  |
| Salt Spring Island  | 9,949    | N   | Y            |  | N        | N  | N/A                       | N/A                                     | PR   |                                    |  | Y                           | N   |  |   |
| Outer Gulf Islands  | 4,611    | N   | Y            |  | N        | N  | N/A                       | N/A                                     | PR   |                                    |  | Y                           | N   |  |   |
| Municipality /E.A.  | 1999 Pop | Composting Programs and Facilities                              |              |  |          |  |                           |   |  | Multi-material Processing Facility |  | Waste Reduction Staff (Y/N) |   |  |   |
|                     |          | Food and/or Yard Waste Collection (Y/N)(Fd/Yd)                  |              | Composting Facilities (Y/N) <sup>8</sup> |          | Backyard Composter Distribution (Y/N) <sup>9</sup> |                           | Compost Demo Garden (Y/N) <sup>10</sup> | Estimated Percent of Population with backyard composters <sup>11</sup> | Y/N                                | PU/PR  | Waste Reduction Coordinator | Education Coordinator <sup>12</sup>               | Landfill Manager                       |   |
|                     |          | Curbside  | Depot        | Yd                                       | Fd       | In past  | On-going                  |   |  |                                    |  |                             |   |  |   |
| Esquimalt           | 16,987   |   | Y-Yd         | Y-PR                                     |          |  |                           | Y                                       |  |                                    |  | Y                           | N   |  |   |
| Oak Bay             | 18,603   |   | Y-Yd         | Y-PU                                     |          |  |                           | Y                                       |  |                                    |  | Y                           | N   |  |   |
| Saanich             | 107,266  |   | Y-Yd         |  |          |  |                           | Y                                       |  |                                    |  | Y                           | N   |  |   |
| Victoria            | 77,909   |   | Y-Yd         | Y-PU                                     |          |  |                           | Y                                       | Y  | Y                                  | PR   | Y                           | N   |  |   |
| Central Saanich     | 16,598   |   | N            |  |          |  |                           | Y                                       |  | Y                                  | PR   | Y                           | N   |  |   |
| North Saanich       | 11,870   |   | N            |  |          |  |                           | Y                                       |  |                                    |  | Y                           | N   |  |   |
| Sidney              | 12,281   | Y-Yd  |              |  |          |  |                           | Y                                       |  |                                    |  | Y                           | N   |  |   |
| Colwood             | 14,601   |   | Y-Yd         |  |          |  |                           | Y                                       |  |                                    |  | Y                           | N   |  |   |
| Highlands           | 1,650    |   |              |  |          |  |                           | Y                                       |  |                                    |  | Y                           | N   |  |   |
| Langford EA         | 614      |   |              |  |          |  |                           | Y                                       |  |                                    |  | Y                           | N   |  |   |
| Langford            | 18,925   |   |              |  |          |  |                           | Y                                       |  |                                    |  | N                           | N   |  |   |
| Metchosin           | 5,055    |   |              |  |          |  |                           | Y                                       |  |                                    |  | Y                           | N   |  |   |
| Sooke EA            | 15,232   |   |              |  |          |  |                           | Y                                       |  |                                    |  | Y                           | N   |  |   |
| View Royal          | 7,492    |   |              |  |          |  |                           | Y                                       |  |                                    |  | Y                           | N   |  |   |
| Salt Spring Island  | 9,949    |   |              |  |          |  |                           | Y                                       |  |                                    |  | Y                           | N   |  |   |
| Outer Gulf Islands  | 4,611    |   |              |  |          |  |                           | Y                                       |  |                                    |  | Y                           | N   |  |   |

**Capital Regional District con't**

|  |   |
|--|---|
| <b>Footnotes:</b>  |   |
| <p>1. Rural areas are serviced by drop boxes<br/>                 2. Includes municipal (CRD funded) and private donors<br/>                 3. Some municipalities did not have MF buidlings eligible for collection<br/>                 4. CRD administers several collection contracts with private colllection companies and one municipality (Oak Bay)<br/>                 5. Garbage collection in Esquimalt, Oak Bay, Saanich, Victoria, and Sidney is administered by the municipalities and subject to a user pay strategy of 1 can/week. All other areas have private garbage collection services which offer variable rates for a variety of services<br/>                 6. Tag fees range from \$1.50 to \$3.00/ bag<br/>                 7. Many municipalities have restrictions on burning<br/>                 8. Victoria composts leaves only<br/>                 9. Since 1992, over 24000 BY composters have been distrubuted<br/>                 10. Compost demo garden is located in the City of Victoria but services the entire region.<br/>                 11. Not available<br/>                 12. CRD provides grants for municipal recycling cordinators. All work is on a part-time basis</p> |   |
| <b>Disposal/ Recycling Measurement Challenges:</b>   | <b>Waste Composition Study:</b>   |
| No legal requirement for private sector to provide CRD with regular recycling tonnage information  | Major waste composition studies were conducted in 1990 and 1996. The next waste composition study is planned for 2001, subject to funding approval. |
| Lack of data and definitions for inclusion of DLC waste in MSW tracking  | <b>Wood Waste Diversion:</b>  |
| <b>Landfill Disposal Bans and Tipping Fee structure:</b>   | Most demolition waste goes to private facilities  |
| CRD has bans on drywall (91), cardboard (93), tires (93), white goods (93), scrap metals (95), asphalt (95), concrete (95), rubble (95), soil (95), aggregate (95), paper (98)   | CRD representation on committee with GVRD, BCMELP, Housing, BCBC and RCBC   |
| Differential tippings fees:  | <b>Waste Reduction Goals and Challenges:</b>  |
| * \$75/tonne regular refuse  | Will not meet provincial waste reduction goal of 50% by 2000  |
| * \$100 to \$245/tonne controlled waste  | Working on development of composting bylaw  |
|  | CRD goal to regulate and educate  |
| <b>Other:</b>  |   |
| Special event recycling program  | Green bonus awards to business  |
| Annual telephone book recycling campaign in cooperation with Telus/ Western directories  | Diversion funding for registered non-profit repair and reuse organizations  |
| Funded community cleanup program   | Salvage area: materials are made available to local non-profit reuse organizations  |
| Recycling directory published three times a year   | New curbside recycling contracts tendered in 1999 for 2000 implementation   |

**Cariboo Regional District**

**No Data Returned**

**Central Coast Regional District**

**No Data Returned**

**Central Kootenay Regional District**

| Municipality / E.A.               | 1999 Pop | Residential Collection of Recyclables (other than compostables) |              |          |          |           |                           |     |       | User Pay Strategy |   |                          |                                      |  |   |
|-----------------------------------|----------|---|--------------|----------|----------|-----------|---------------------------|-----|-------|-------------------|---|--------------------------|--------------------------------------|--|---|
|                                   |          | SF Curbside (Y/N)   | Depots (Y/N) |          | MF (Y/N) | ICI (Y/N) | Collection Agency (PU/PR) |     |       | Can/Bag Limits    | Collection Fees/ Tags for additional pickup (Y/N) | Variable Unit Fees (Y/N) | Backyard Burning Bans in Place (Y/N) | Date User Pay Strategy was Implemented | Date User Pay Strategy is Planned to be Implemented |
|                                   |          |   | Staff        | No Staff |          |           | SF                        | MF  | ICI   |                   |   |                          |                                      |  |   |
| A-Wyndel/E. Shore - Kootenay Lake | 2,200    | N   | N            | Y        | N        | N         | PR                        | PR  | PR    | NA                | PR  | Y                        | N                                    | Mar-97                                 | NA  |
| B                                 | 5,150    | N   | N            | Y        | N        | N         | PR                        | PR  | PR    | NA                | PR  | Y                        | N                                    | Mar-97                                 | NA  |
| C                                 | 1,550    | N   | N            | Y        | N        | N         | N/A                       | N/A | N/A   | NA                | N/A   | Y                        | N                                    | Mar-97                                 | NA  |
| D                                 | 2,550    | N   | N            | Y        | N        | N         | N/A                       | N/A | N/A   | NA                | N/A   | Y                        | N                                    | Mar-97                                 | NA  |
| E                                 | 3,730    | PR  | N            | Y        | PR       | PR        | PR                        | PR  | PR    | NA                | PR  | Y                        | N                                    | Mar-97                                 | NA  |
| F                                 | 4,050    | PR  | N            | Y        | PR       | PR        | PR                        | PR  | PU/PR | NA                | PR  | Y                        | N                                    | Mar-97                                 | NA  |
| G                                 | 1,650    | N   | N            | Y        | N        | N         | N/A                       | N/A | N/A   | NA                | N/A   | Y                        | N                                    | Mar-97                                 | NA  |
| H - Slocan Valley                 | 4,685    | N   | N            | Y        | N        | PR        | PR                        | PR  | PR    | NA                | PR  | Y                        | N                                    | Mar-97                                 | NA  |
| I                                 | 2,635    | PR  | N            | Y        | PR       | PR        | PR                        | PR  | PR    | NA                | PR  | Y                        | N                                    | Mar-97                                 | NA  |
| J-Lower Arrow/Columbia            | 3,700    | PR  | N            | Y        | PR       | PR        | N/A                       | N/A | N/A   | NA                | PR  | Y                        | N                                    | Mar-97                                 | NA  |
| K-The Arrow Lakes                 | 2,100    | N   | N            | Y        | N        | N         | N/A                       | N/A | N/A   | NA                | N/A   | Y                        | N                                    | Mar-97                                 | NA  |
| Castlegar                         | 7,380    | PR  | Y            | Y        | PR       | PR        | PR                        | PR  | PR    | 2                 | \$5/6TAG  | Y                        | N                                    | Mar-97                                 | NA  |
| Creston                           | 5,060    | N   | Y            | Y        | N        | PR        | PR                        | PR  | PR    | 2                 | \$2/TAG   | Y                        | N                                    | Mar-97                                 | NA  |
| Kaslo                             | 1,120    | N   | N            | Y        | N        | PR        | N/A                       | N/A | PR    | 0                 | \$2/TAG   | Y                        | N                                    | Mar-97                                 | NA  |
| Nakusp                            | 1,825    | N   | N            | Y        | N        | PR        | N/A                       | N/A | PR    | 0                 | 5BAG=\$11.5                                       | Y                        | N                                    | Mar-97                                 | NA  |
| Nelson                            | 10,070   | PR  | Y            | Y        | PR       | PR        | PR                        | PR  | PU    | 1                 | \$2/TAG   | Y                        | N                                    | Mar-97                                 | NA  |
| New Denver                        | 610      | N   | N            | Y        | N        | PR        | N/A                       | N/A | PR    | 2                 | \$2/TAG   | Y                        | N                                    | Mar-97                                 | NA  |
| Salmo                             | 1,265    | PR  | N            | Y        | PR       | PR        | PR                        | PR  | PR    | 2                 | \$2/TAG   | Y                        | N                                    | Mar-97                                 | NA  |
| Silverton                         | 255      | N   | N            | Y        | N        | PR        | PR                        | PR  | PR    | 1                 | \$1/TAG   | Y                        | N                                    | Mar-97                                 | NA  |
| Slocan                            | 355      | N   | N            | Y        | N        | N         | PU                        | PU  | PU    | 2                 | \$2/TAG   | Y                        | N                                    | Mar-97                                 | NA  |

BC Municipal Solid Waste Tracking Report 1999

**Central Kootenay Regional District con't**

| Municipality /E.A.                | 1999 Pop | Composting Programs and Facilities             |       |                                     |    |                                       |          |                           |  | Waste Reduction Staff (Y/N)        |       |   |                       |                  |
|-----------------------------------|----------|--|-------|-------------------------------------|----|---------------------------------------|----------|---------------------------|--|------------------------------------|-------|---|-----------------------|------------------|
|                                   |          | Food and/or Yard Waste Collection (Y/N)(Fd/Yd) |       | Composting Facilities (Y/N) (PU/PR) |    | Backyard Composter Distribution (Y/N) |          | Compost Demo Garden (Y/N) | Estimated Percent of Population with backyard composters | Multi-material Processing Facility |       | Waste Reduction Coordinator                               | Education Coordinator | Landfill Manager |
|                                   |          | Curbside                                       | Depot | Yd                                  | Fd | In past                               | On-going |                           |  | Y/N                                | PU/PR |   |                       |                  |
| A-Wyndel/E. Shore - Kootenay Lake | 2,200    | N  | N     | N                                   | N  |                                       | N/A      | N                         |  | N                                  | N/A   |   |                       |                  |
| B                                 | 5,150    | N  | N     | N                                   | N  | Nelson and municipalities in the past | N/A      | N                         |  | N                                  | N/A   | 2 RDCK Staff Members<br><br>Look after cell areas fo RDCK |                       |                  |
| C                                 | 1,550    | N  | N     | N                                   | N  |                                       | N/A      | N                         |  | N                                  | N/A   |   |                       |                  |
| D                                 | 2,550    | N  | N     | N                                   | N  |                                       | N/A      | N                         |  | N                                  | N/A   |   |                       |                  |
| E                                 | 3,730    | N  | N     | N                                   | N  |                                       | N/A      | N                         |  | N                                  | N/A   |   |                       |                  |
| F                                 | 4,050    | N  | N     | N                                   | N  |                                       | N/A      | N                         |  | N                                  | N/A   |   |                       |                  |
| G                                 | 1,650    | N  | N     | N                                   | N  |                                       | N/A      | N                         |  | N                                  | N/A   |   |                       |                  |
| H - Slocan Valley                 | 4,685    | N  | N     | N                                   | N  |                                       | N/A      | N                         |  | N                                  | N/A   |   |                       |                  |
| I                                 | 2,635    | N  | N     | N                                   | N  |                                       | N/A      | N                         |  | N                                  | N/A   |   |                       |                  |
| J-Lower Arrow/Columbia            | 3,700    | N  | N     | N                                   | N  |                                       | N/A      | N                         |  | N                                  | N/A   |   |                       |                  |
| K-The Arrow Lakes                 | 2,100    | N  | N     | N                                   | N  |                                       | N/A      | N                         |  | N                                  | N/A   |   |                       |                  |
| Castlegar                         | 7,380    | N  | N     | N                                   | N  |                                       | N/A      | N                         |  | N                                  | N/A   |   |                       |                  |
| Creston                           | 5,060    | N  | N     | N                                   | N  |                                       | N/A      | N                         |  | N                                  | N/A   |   |                       |                  |
| Kaslo                             | 1,120    | N  | N     | N                                   | N  |                                       | N/A      | N                         |  | N                                  | N/A   |   |                       |                  |
| Nakusp                            | 1,825    | N  | N     | N                                   | N  |                                       | N/A      | N                         |  | N                                  | N/A   |   |                       |                  |
| Nelson                            | 10,070   | N  | N     | N                                   | N  |                                       | N/A      | Y                         |  | N                                  | N/A   |   |                       |                  |
| New Denver                        | 610      | N  | N     | N                                   | N  |                                       | N/A      | N                         |  | N                                  | N/A   |   |                       |                  |
| Salmo                             | 1,265    | N  | N     | N                                   | N  |                                       | N/A      | N                         |  | N                                  | N/A   |   |                       |                  |
| Silverton                         | 255      | N  | N     | N                                   | N  |                                       | N/A      | N                         |  | N                                  | N/A   |   |                       |                  |
| Slocan                            | 355      | N  | N     | N                                   | N  |                                       | N/A      | N                         |  | N                                  | N/A   |   |                       |                  |

**Central Okanagan Regional District**

| Municipality / E.A.  | 1999 Pop | Residential Collection of Recyclables (other than compostables) |              |                                     |          |                                       |                           |  |  | User Pay Strategy                  |   |                             |                                      |  |   |
|--|----------|---|--------------|-------------------------------------|----------|---------------------------------------|---------------------------|--|--|------------------------------------|---|-----------------------------|--------------------------------------|--|---|
|  |          | SF Curbside (Y/N)   | Depots (Y/N) |                                     | MF (Y/N) | ICI (Y/N)                             | Collection Agency (PU/PR) |  |  | Can/Bag Limits                     | Collection Fees/ Tags for additional pickup (Y/N) | Variable Unit Fees (Y/N)    | Backyard Burning Bans in Place (Y/N) | Date User Pay Strategy was Implemented | Date User Pay Strategy is Planned to be Implemented |
|  |          |   | Staff        | No Staff                            |          |                                       | SF                        | MF   | ICI  |                                    |   |                             |                                      |  |   |
| Kelowna  | 98,130   | Y   | Y            | Y                                   | N        | N                                     | PU                        | PR   | PR   | 2                                  | Y   |                             | Y                                    | 1994                                   |   |
| Westbank   | 20,915   | Y   | Y            | N                                   | N        | N                                     | PU                        | PR   | PR   | 2                                  | Y   |                             | Y                                    | 1994                                   |   |
| Peachland  | 4958     | Y   | N            | N                                   | N        | Y                                     | PU                        | PU   | PU   | 2                                  | Y   |                             | Y                                    | 1994                                   |   |
| Lake Country   | 9934     | Y   | N            | N                                   | N        | N                                     | PU                        | PR   | PR   | 2                                  | Y   |                             | Y                                    | 1994                                   |   |
| Area I   | 4041     | Y   | N            | N                                   | N        | N                                     | PU                        | PR   | PR   | 2                                  | Y   |                             | Y                                    | 1994                                   |   |
| Area G   | 9934     | Y   | N            | N                                   | N        | N                                     | PU                        | PR   | PR   | 2                                  | Y   |                             | Y                                    | 1994                                   |   |
|  |          | Composting Programs and Facilities                              |              |                                     |          |                                       |                           |  |  | Waste Reduction Staff (Y/N)        |   |                             |                                      |  |   |
| Municipality /E.A.   | 1999 Pop | Food and/or Yard Waste Collection (Y/N)(Fd/Yd)                  |              | Composting Facilities (Y/N) (PU/PR) |          | Backyard Composter Distribution (Y/N) |                           | Compost Demo Garden (Y/N)  | Estimated Percent of Population with backyard composters | Multi-material Processing Facility |   | Waste Reduction Coordinator | Education Coordinator                | Landfill Manager                       |   |
|  |          | Curbside  | Depot        | Yd                                  | Fd       | In past                               | On-going                  |  |  | Y/N                                | PU/PR   |                             |                                      |  |   |
| Kelowna  | 98,130   | Y-Yd  | Y            | Y-PU                                | N        | Y                                     | N                         | Y  | 50%  | Y                                  | PR  | Y                           | Y                                    | Y                                      |   |
| Westbank   | 20,915   | Y-Yd  | Y            | Y-PU                                | N        | Y                                     | N                         | N  | 50%  | N                                  |   |                             |                                      | Y                                      |   |
| Peachland  | 4958     | Y-Yd  | Y            | Y-PU                                | N        | Y                                     | N                         | N  | 50%  | N                                  |   |                             |                                      |  |   |
| Lake Country   | 9934     | Y-Yd  | N            | Y-PU                                | N        | Y                                     | N                         | N  | 50%  | N                                  |   |                             |                                      |  |   |
| Area I   | 4041     | Y-Yd  | N            | Y-PU                                | N        | Y                                     | N                         | N  | 50%  | N                                  |   |                             |                                      |  |   |
| Area G   | 9934     | Y-Yd  | N            | Y-PU                                | N        | Y                                     | N                         | N  | 50%  | N                                  |   |                             |                                      |  |   |
| <b>Disposal/ Recycling Measurement Challenges</b><br>Some private sector recycling companies do not keep accurate records of materials handled. Tracking waste reduction should be based on the amount of garbage being buried annually not on the volume of goods used.   |          |   |              |                                     |          |                                       |                           | <b>Wood Waste Diversion</b><br>Special tipping fees for depositing wood at the Glenmore and Westside landfills. Produce a commercial recycling directory with a list of local companies whom accept scrap wood.  |  |                                    |   |                             |                                      |  |   |
| <b>Landfill Disposal Bans and Tipping Fee structure</b><br>Both Glenmore and Westside landfills have bans on asphalt, concrete, cardboard, newspaper and hazardous wastes. Tipping fees for Glenmore and Westside landfills involve a \$6 charge for loads up to 250kg. Loads over 250 kg are \$50/ metric tonne prorated. Glenmore landfill special fees: \$25/tonne on mattresses, white goods and appliances, \$40/tonne for wood, lumber and prunings above 1/2 inch in diameter and \$145/tonne for drywall. Westside landfill special fees: \$145/tonne for drywall. Mattresses box springs, tires, propane tanks, white goods and appliances are subject to special fees. |          |   |              |                                     |          |                                       |                           | <b>Waste Reduction Goals and Challenges</b><br>An overall goal of 50% waste reduction of materials deposited at the Glenmore and Westside landfills.<br><b>Organics:</b> continue public awareness about benefits of composting as they relate to overall waste reduction.<br><b>DLC:</b> Research end markets to assist in establishing reuse and recycling opportunities for these materials.<br><b>Plastics:</b> Continued recycling of #2 cloudy plastic, promote green shopping for this type of plastic.<br><b>Mixed paper:</b> continued recycling of mixed paper through blue bag program and drop-off depots.<br><b>Multi-family:</b> look at feasibility of adding multi-family units to curb side recycling collection.<br><b>Other:</b> business recycling campaigns and programs desined to increase recycling participation within the business community. |  |                                    |   |                             |                                      |  |   |

**Columbia Shuswap Regional District**

|  |          | Residential Collection of Recyclables (other than compostables) |              |                                     |          |                                       |                           |                           |  | User Pay Strategy                  |   |                             |                                      |  |   |
|--|----------|---|--------------|-------------------------------------|----------|---------------------------------------|---------------------------|---------------------------|--|------------------------------------|---|-----------------------------|--------------------------------------|--|---|
| Municipality / E.A.  | 1999 Pop | SF Curbside (Y/N)   | Depots (Y/N) |                                     | MF (Y/N) | ICI (Y/N)                             | Collection Agency (PU/PR) |                           |  | Can/Bag Limits                     | Collection Fees/ Tags for additional pickup (Y/N) | Variable Unit Fees (Y/N)    | Backyard Burning Bans in Place (Y/N) | Date User Pay Strategy was Implemented | Date User Pay Strategy is Planned to be Implemented |
|  |          |   | Staff        | No Staff                            |          |                                       | SF                        | MF                        | ICI  |                                    |   |                             |                                      |  |   |
| Columbia Shuswap Regional District   | 52,256   | N   |              | Y                                   | N        | N                                     |                           |                           |  |                                    |   |                             |                                      |  |   |
|  |          | Composting Programs and Facilities                              |              |                                     |          |                                       |                           |                           |  | Waste Reduction Staff (Y/N)        |   |                             |                                      |  |   |
| Municipality / E.A.  | 1999 Pop | Food and/or Yard Waste Collection (Y/N)(Fd/Yd)                  |              | Composting Facilities (Y/N) (PU/PR) |          | Backyard Composter Distribution (Y/N) |                           | Compost Demo Garden (Y/N) | Estimated Percent of Population with backyard composters | Multi-material Processing Facility |   | Waste Reduction Coordinator | Education Coordinator                | Landfill Manager                       |   |
|  |          | Curbside  | Depot        | Yd                                  | Fd       | In past                               | On-going                  |                           |  | Y/N                                | PU/PR   |                             |                                      |  |   |
| Columbia Shuswap Regional District   | 52,256   |   |              |                                     |          | Y                                     |                           |                           |  |                                    |   |                             |                                      |  |   |
| <b>Landfill Disposal Bans and Tipping Fee structure:</b><br>Landfill bans on commercially-generated OCC and passenger tires . The refuse disposal fee structure is \$1/bag, \$2/oversized bag, \$60/tonne. There is also an annual woodwaste grinding program place. |          |   |              |                                     |          |                                       |                           |                           |  |                                    |   |                             |                                      |  |   |

**Comox-Strathcona Regional District**

|   |          | Residential Collection of Recyclables (other than compostables) |                  |                               |          |                                       |                           |                           |   | User Pay Strategy                  |   |                             |                                      |  |   |
|---|----------|---|------------------|-------------------------------|----------|---------------------------------------|---------------------------|---------------------------|---|------------------------------------|---|-----------------------------|--------------------------------------|--|---|
| Municipality / E.A.   | 1999 Pop | SF Curbside (Y/N)   | Depots (Y/N)     |                               | MF (Y/N) | ICI (Y/N)                             | Collection Agency (PU/PR) |                           |   | Can/Bag Limits                     | Collection Fees/ Tags for additional pickup (Y/N) | Variable Unit Fees (Y/N)    | Backyard Burning Bans in Place (Y/N) | Date User Pay Strategy was Implemented | Date User Pay Strategy is Planned to be Implemented |
|   |          |   | Staff            | No Staff                      |          |                                       | SF                        | MF                        | ICI   |                                    |   |                             |                                      |  |   |
| Cumberland  | 2548     | N   | Y                | Y                             | N        | Y                                     | PU                        | PU                        | PU  | 2                                  | Y   |                             | Y                                    | Unknown                                | Unknown   |
| Courtenay   | 17335    | Y   | Y                | Y                             | N        | Y                                     | PU                        | PU                        | PU/PR   | 2                                  | Y   |                             | Y                                    | Unknown                                | Unknown   |
| Comox   | 11069    | Y   | N                | Y                             | N        | Y                                     | PU                        | PR                        | PR  | 2                                  | Y   |                             | Y                                    | Unknown                                | Unknown   |
| Campbell River  | 29274    | Y   | Y                | Y                             |          |                                       | PU                        | PR                        | PR  | 2                                  | Y   |                             | Y                                    | Unknown                                | Unknown   |
| Gold River  | 2041     | N   | N                | Y                             | N        | Y                                     | N/A                       | N/A                       | PR  |                                    |   |                             |                                      |  |   |
| Sayward   | 440      | N   | N                | Quarterly                     | N        | N                                     | PR                        |                           | PR  |                                    |   |                             |                                      |  |   |
| Tahsis  | 940      | N   | N                | Y                             | N        | ?                                     |                           |                           |   |                                    |   |                             |                                      |  |   |
| Zeballos  | 232      | N   | weekly/volunteer |                               | N        | N                                     |                           |                           |   |                                    |   |                             |                                      |  |   |
|   |          | Composting Programs and Facilities                              |                  |                               |          |                                       |                           |                           |   | Multi-material Processing Facility |   | Waste Reduction Staff (Y/N) |                                      |  |   |
| Municipality /E.A.  | 1999 Pop | Food and/or Yard Waste Collection (Y/N)(Fd/Yd)                  |                  | Composting Facilities (PU/PR) |          | Backyard Composter Distribution (Y/N) |                           | Compost Demo Garden (Y/N) | Estimated Percent of Population with backyard composters  | Y/N                                | PU/PR   | Waste Reduction Coordinator | Education Coordinator                | Landfill Manager                       |   |
|   |          | Curbside  | Depot            | Yd                            | Fd       | In past                               | On-going                  |                           |   |                                    |   |                             |                                      |  |   |
| Cumberland  | 2548     | N   | N                | Yd-PU/PR                      | N        | Y                                     | Y                         | N                         | Not Available   | Y                                  | PU  | Y-Regional                  | Regional                             | N/A                                    |   |
| Courtenay   | 17335    | N   | N                | Yd-PU/PR                      | N        | Y                                     | Y                         | N                         | Not Available   | N                                  |   | Regional                    | Regional                             | N/A                                    |   |
| Comox   | 11069    | N   | N                | Yd-PU/PR                      | N        | Y                                     | Y                         | N                         | Not Available   | N                                  |   | Regional                    | Regional                             | N/A                                    |   |
| Campbell River  | 29274    | N   | N                | Yd-PU/PR                      | N        | Y                                     | Y                         | Y                         | Not Available   |                                    |   | Regional                    | Regional                             | N/A                                    |   |
| Gold River  | 2041     |   |                  |                               |          |                                       |                           |                           |   | Y                                  |   | Regional                    | Regional                             | N                                      |   |
| Sayward   | 440      |   |                  |                               |          |                                       |                           |                           |   |                                    |   | Regional                    | Regional                             | N                                      |   |
| Tahsis  | 940      |   |                  |                               |          |                                       |                           |                           |   |                                    |   | Regional                    | Regional                             |  |   |
| Zeballos  | 232      |   |                  |                               |          |                                       |                           |                           |   |                                    |   | Regional                    | Regional                             |  |   |
|   |          |   |                  |                               |          |                                       |                           |                           | Approximately 15-20% regionally   |                                    |   |                             |                                      |  |   |
| <b>Disposal/Recycling Measurement Challenges:</b><br>For smaller outlying areas without scales, it is difficult to estimate the amount recycled. In addition, several commercial operations refuse to provide stats or guesses. |          |   |                  |                               |          |                                       |                           |                           | <b>Landfill Disposal Bans and Tipping Fee Structures :</b><br>Our two main landfills -- Pidgeon Lake and Campbell River operate under the same variable tipping fee programme as follows: All loads of mixed solid waste containing recyclable materials will be charged \$105/tonne instead of \$45/tonne, this includes cardboard, newspaper, magazines, scrap metal, tires, clean wood waste and brush. Contaminated soil is \$10/tonne, and this is remediated by Hazco and then reused/recycled. Out of district waste is charged \$250/tonne. |                                    |   |                             |                                      |  |   |
| <b>Waste Reduction Goals and Challenges :</b><br>In the process of reviewing our SWMP to be completed in early 2001.  |          |   |                  |                               |          |                                       |                           |                           |   |                                    |   |                             |                                      |  |   |

**Cowichan Valley Regional District**

| Municipality / E.A. | 1999 Pop | Residential Collection of Recyclables (other than compostables) |              |          |          |           |                           |    | User Pay Strategy |                |   |                          |                                      |  |   |
|---------------------|----------|---|--------------|----------|----------|-----------|---------------------------|----|-------------------|----------------|---|--------------------------|--------------------------------------|--|---|
|                     |          | SF Curbside (Y/N)   | Depots (Y/N) |          | MF (Y/N) | ICI (Y/N) | Collection Agency (PU/PR) |    |                   | Can/Bag Limits | Collection Fees/ Tags for additional pickup (Y/N) | Variable Unit Fees (Y/N) | Backyard Burning Bans in Place (Y/N) | Date User Pay Strategy was Implemented | Date User Pay Strategy is Planned to be Implemented |
|                     |          |   | Staff        | No Staff |          |           | SF                        | MF | ICI               |                |   |                          |                                      |  |   |
| Duncan              | 4,781    | Y   | N            | Y        | N        | N         | PU                        | PR | PR                | 2              | Y   | N                        | Y                                    | Aug-99                                 |   |
| North Cowichan      | 27,481   | Y   | Y            | Y        | N        | N         | PU                        | PR | PR                | 2              | Y   | N                        | Y                                    | May-99                                 |   |
| Ladysmith           | 6,912    | Y   | Y            | Y        | N        | N         | PU                        | PR | PR                | 2              | Y   | N                        | Y                                    | Oct-99                                 |   |
| Lake Cowichan       | 3,079    | Y   | Y            | Y        | N        | N         | PU                        | PR | PR                | 2              | Y   | N                        | Y                                    | Oct-99                                 |   |
| Electoral Areas:    |          |   |              |          |          |           |                           |    |                   |                |   |                          |                                      |  |   |
| A                   | 3,552    | Y   | N            | Y        | N        | N         | PU                        |    |                   | 2              | N   | Y                        | N                                    | Aug-99                                 |   |
| B                   | 7,200    | Y   | N            | Y        | N        | N         | PU                        |    |                   | 2              | N   | Y                        | N                                    | Aug-99                                 |   |
| C                   | 4,664    | N   | N            | Y        | N        | N         | PR                        |    |                   | --             | --  | --                       | N                                    |  |   |
| D                   | 2,858    | N   | N            | Y        | N        | N         | PU                        |    |                   | 2              | Y   | Y                        | N                                    | Jul-99                                 |   |
| E                   | 4,057    | Y   | N            | Y        | N        | N         | PU                        |    |                   | 2              | Y   | Y                        | N                                    | Jul-99                                 |   |
| F                   | 1,890    | Y   | N            | Y        | N        | N         | PU                        |    |                   | 2              | Y   | Y                        | N                                    | Jul-99                                 |   |
| G                   | 2,540    | Y   | N            | Y        | N        | N         | PU                        |    |                   | 2              | Y   | Y                        | N                                    | Jul-99                                 |   |
| H                   | 2,484    | Y   | N            | Y        | N        | N         | PU                        |    |                   | 2              | N   | Y                        | N                                    | Aug-99                                 |   |
| I                   | 1,994    | Y   | N            | Y        | N        | N         | PU                        |    |                   | 2              | Y   | N                        | N                                    | Jul-99                                 |   |
| Tribal Lands        | 3,394    | N   | N            | N        | N        | N         |                           |    |                   |                |   |                          |                                      |  |   |

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**Cowichan Valley Regional District con't**

| Municipality /E.A.  | 1999 Pop | Composting Programs and Facilities             |    |                                     |          |                                       |   |                           |   | Multi-material Processing Facility |       | Waste Reduction Staff (Y/N) |                       |                  |
|---|----------|--|----|-------------------------------------|----------|---------------------------------------|---|---------------------------|---|------------------------------------|-------|-----------------------------|-----------------------|------------------|
|   |          | Food and/or Yard Waste Collection (Y/N)(Fd/Yd) |    | Composting Facilities (Y/N) (PU/PR) |          | Backyard Composter Distribution (Y/N) |   | Compost Demo Garden (Y/N) | Estimated Percent of Population with backyard composters  | Y/N                                | PU/PR | Waste Reduction Coordinator | Education Coordinator | Landfill Manager |
| Curbside  | Depot    | Yd   | Fd | In past                             | On-going |                                       |   |                           |   |                                    |       |                             |                       |                  |
| Duncan  | 4,781    | N  | Y  | Y                                   | N        | Y                                     | N | N                         | 10%   | N                                  |       | 1                           | 1                     | N                |
| North Cowichan  | 27,481   | N  | Y  | Y                                   | N        | Y                                     | N | N                         | 10%   | N                                  |       | 1                           | 1                     | N                |
| Ladysmith   | 6,912    | N  | Y  | Y                                   | N        | Y                                     | N | N                         | 10%   | N                                  |       | 1                           | 1                     | N                |
| Lake Cowichan   | 3,079    | N  | Y  | Y                                   | N        | Y                                     | N | N                         | 10%   | N                                  |       | 1                           | 1                     | N                |
| Electoral Areas:  |          |  |    |                                     |          |                                       |   |                           |   |                                    |       |                             |                       |                  |
| A   | 3,552    | N  | N  | Y                                   | N        | Y                                     | N | N                         | 10%   | N                                  |       | 1                           | 1                     | N                |
| B   | 7,200    | N  | N  | Y                                   | N        | Y                                     | N | N                         | 10%   | N                                  |       | 1                           | 1                     | N                |
| C   | 4,664    | N  | N  | Y -PR                               | N        | Y                                     | N | N                         | 10%   | N                                  |       | 1                           | 1                     | N                |
| D   | 2,858    | N  | N  | Y                                   | N        | Y                                     | N | N                         | 10%   | N                                  |       | 1                           | 1                     | N                |
| E   | 4,057    | N  | N  | Y                                   | N        | Y                                     | N | N                         | 10%   | N                                  |       | 1                           | 1                     | N                |
| F   | 1,890    | N  | N  | Y                                   | N        | Y                                     | N | N                         | 10%   | N                                  |       | 1                           | 1                     | N                |
| G   | 2,540    | N  | N  | Y                                   | N        | Y                                     | N | N                         | 10%   | N                                  |       | 1                           | 1                     | N                |
| H   | 2,484    | N  | N  | Y                                   | N        | Y                                     | N | N                         | 10%   | N                                  |       | 1                           | 1                     | N                |
| I   | 1,994    | N  | N  | Y                                   | N        | Y                                     | N | N                         | 10%   | N                                  |       | 1                           | 1                     | N                |
| Tribal Lands  | 3,394    | N  | N  | N                                   | N        | Y                                     | N | N                         | 10%   | N                                  |       | 1                           | 1                     | N                |
| <b>Disposal/ Recycling Measurement Challenges:</b><br>Private sector figures are estimates as SWMP must be amended to require formal reporting.   |          |  |    |                                     |          |                                       |   |                           | <b>Landfill Disposal Bans and Tipping Fee structure:</b><br>As of January 1, 2001 58 items will be banned from disposal in CVRD waste export transfer stations and the options will be either recycling or disposal through specialized waste management firms. |                                    |       |                             |                       |                  |
| <b>Waste Reduction Goals and Challenges:</b><br>Currently revising SWMP waste reduction goal - was at 35%, expecting to reach 50% in 2001. Waste export provides major incentive to recycle/reduce waste. |          |  |    |                                     |          |                                       |   |                           | <b>Wood Waste Diversion:</b><br>Banning of all LCD, clean wood waste, yard and garden, commercial organic waste, etc. from disposal will coincide with opening of commercial in-vessel composting facility in area.   |                                    |       |                             |                       |                  |
| <b>Other:</b><br>Will be collecting all plastics #1 - #7, including film plastic, as of January 2001.   |          |  |    |                                     |          |                                       |   |                           |   |                                    |       |                             |                       |                  |

**East Kootenay Regional District**

| Municipality / E.A. | 1999 Pop | Residential Collection of Recyclables (other than compostables) |              |          |          |           |                           |    | User Pay Strategy |                |   |                          |                                      |  |   |
|---------------------|----------|---|--------------|----------|----------|-----------|---------------------------|----|-------------------|----------------|---|--------------------------|--------------------------------------|--|---|
|                     |          | SF Curbside (Y/N)   | Depots (Y/N) |          | MF (Y/N) | ICI (Y/N) | Collection Agency (PU/PR) |    |                   | Can/Bag Limits | Collection Fees/ Tags for additional pickup (Y/N) | Variable Unit Fees (Y/N) | Backyard Burning Bans in Place (Y/N) | Date User Pay Strategy was Implemented | Date User Pay Strategy is Planned to be Implemented |
|                     |          |   | Staff        | No Staff |          |           | SF                        | MF | ICI               |                |   |                          |                                      |  |   |
| Electoral A         | 1,811    | N   |              | Y        | N        | N         |                           |    |                   | N/A            | N/A   | N                        | SEASONAL                             | N/A                                    | N/A   |
| Electoral B         | 1,840    | N   |              | Y        | N        | N         |                           |    |                   | N/A            | N/A   | N                        | SEASONAL                             | N/A                                    | N/A   |
| Electoral C         | 5,977    | N   |              | Y        | N        | N         |                           |    |                   | N/A            | N/A   | N                        | SEASONAL                             | N/A                                    | N/A   |
| Electoral E         | 1,949    | N   |              | Y        | N        | N         |                           |    |                   | N/A            | N/A   | N                        | SEASONAL                             | N/A                                    | N/A   |
| Electoral F         | 3,298    | N   |              | Y        | N        | N         |                           |    |                   | N/A            | N/A   | N                        | SEASONAL                             | N/A                                    | N/A   |
| Electoral G         | 1,521    | N   |              | Y        | N        | N         |                           |    |                   | N/A            | N/A   | N                        | SEASONAL                             | N/A                                    | N/A   |
| Cranbrook           | 18,327   | Y   | Y            |          | N        | N         | PR                        |    |                   | N/A            | N/A   | Y                        | SEASONAL                             | Aug-00                                 |   |
| Kimberley           | 6,738    | Y   | Y            |          | N        | N         | PR                        |    |                   | 3can/<br>5bag  | N   | Y                        | SEASONAL                             | Aug-00                                 |   |
| Fernie              | 4,877    | Y   |              | Y        | N        | N         |                           |    |                   | 3 bags         | \$1   | Y                        | SEASONAL                             | Aug-99                                 | 2001  |
| Sparwood            | 3,982    | N   |              | Y        | N        | N         |                           |    |                   | 2 bags         | \$1   | N                        | SEASONAL                             | N/A                                    | 2001  |
| Elkford             | 2,729    | N   |              | Y        | N        | N         |                           |    |                   | 3 bags         | N   | N                        | SEASONAL                             | N/A                                    | 2001  |
| Invermere           | 2,687    | Y   | Y            |          | N        | N         | PR                        |    |                   | 3 bags         | \$0.50  | Y                        | SEASONAL                             | 1995                                   |   |
| Radium              | 530      | N   |              | Y        | N        | N         |                           |    |                   | N/A            | N   | Y                        | SEASONAL                             | 1995                                   |   |

**East Kootenay Regional District con't**

| Municipality /E.A.   | 1999 Pop | Composting Programs and Facilities             |       |                                     |    |                                       |          |                           |  | Waste Reduction Staff (Y/N)        |       |                             |                       |                  |
|--|----------|--|-------|-------------------------------------|----|---------------------------------------|----------|---------------------------|--|------------------------------------|-------|-----------------------------|-----------------------|------------------|
|  |          | Food and/or Yard Waste Collection (Y/N)(Fd/Yd) |       | Composting Facilities (Y/N) (PU/PR) |    | Backyard Composter Distribution (Y/N) |          | Compost Demo Garden (Y/N) | Estimated Percent of Population with backyard composters   | Multi-material Processing Facility |       | Waste Reduction Coordinator | Education Coordinator | Landfill Manager |
|  |          | Curbside                                       | Depot | Yd                                  | Fd | In past                               | On-going |                           |  | Y/N                                | PU/PR |                             |                       |                  |
| Electoral A  | 1,811    | N  | N     | N                                   | N  | Y                                     | Y        | N                         | 40   | N                                  |       | N                           | N                     | N                |
| Electoral B  | 1,840    | N  | N     | N                                   | N  | Y                                     | Y        | N                         | 40   | N                                  |       | N                           | N                     | N                |
| Electoral C  | 5,977    | N  | N     | Y-Pu                                | N  | Y                                     | Y        | N                         | 40   | N                                  |       | N                           | N                     | N                |
| Electoral E  | 1,949    | N  | N     | N                                   | N  | Y                                     | Y        | N                         | 40   | N                                  |       | N                           | N                     | N                |
| Electoral F  | 3,298    | N  | N     | N                                   | N  | Y                                     | Y        | N                         | 40   | N                                  |       | N                           | N                     | N                |
| Electoral G  | 1,521    | N  | N     | N                                   | N  | Y                                     | Y        | N                         | 40   | N                                  |       | N                           | N                     | N                |
| Cranbrook  | 18,327   | N  | Y-Yd  | Y-Pu                                | N  | Y                                     | Y        | N                         | 20   | Y                                  | PU/PR | N                           | N                     | Y                |
| Kimberley  | 6,738    | N  | Y-Yd  | Y-Pu                                | N  | Y                                     | Y        | N                         | 20   | Y                                  | PR    | N                           | N                     | N                |
| Fernie   | 4,877    | N  | Y-Yd  | Y-Pu                                | N  | N                                     | N        | N                         | 10   | Y                                  | PR    | N                           | N                     | N                |
| Sparwood   | 3,982    | N  | Y-Yd  | Y-Pu                                | N  | Y                                     | Y        | N                         | 20   | Y                                  | PR    | N                           | N                     | N                |
| Elkford  | 2,729    | N  | Y-Yd  | Y-Pu                                | N  | Y                                     | Y        | N                         | 10   | N                                  |       | N                           | N                     | N                |
| Invermere  | 2,687    | N  | Y-Yd  | Y-Pu                                | N  | Y                                     | Y        | N                         | 20   | Y                                  | PU/PR | N                           | N                     | N                |
| Radium   | 530      | N  | Y-Yd  | Y-Pu                                | N  | Y                                     | Y        | N                         | 20   | N                                  |       | N                           | N                     | N                |
| <b>Disposal/ Recycling Measurement Challenges</b>  |          |  |       |                                     |    |                                       |          |                           | <b>Waste Reduction Goals and Challenges</b>  |                                    |       |                             |                       |                  |
| It is impossible to get an accurate assessment of the amount of material being recycled because of the private sector totals. Another challenge is the continuing cost of recycling  |          |  |       |                                     |    |                                       |          |                           | Our waste reduction goal is 50%. We have a goal of increasing public awareness about the recycling program, and brought on a Public Education Coordinator in early 2000 to help raise public knowledge on recycling program and waste diversion. One of our greatest challenges is in dealing with construction, demolition, and land clearing waste, and aside from public education, workshops on deconstruction are being considered to help tackle this issue.   |                                    |       |                             |                       |                  |
| <b>Waste Composition Study</b>   |          |  |       |                                     |    |                                       |          |                           | <b>Wood Waste Diversion</b>  |                                    |       |                             |                       |                  |
| We have conducted a waste minimization report in the Elk Valley Subregion and utilize provincial statistics.   |          |  |       |                                     |    |                                       |          |                           | We have wood waste piles at our 3 rural transfer station sites with marshalling areas. We are currently chipping/grinding clean wood waste and encourage segregation by offering reduced tipping fee rates for clean wood waste. We currently compost the yard and garden waste taken to the Central Subregion Lane and Windermere Landfill site. In addition, we are looking at the feasibility of utilizing a co-generation plant currently under construction in our region as an option for dealing with clean wood waste. |                                    |       |                             |                       |                  |
| <b>Landfill Disposal Bans and Tipping Fee structure</b>  |          |  |       |                                     |    |                                       |          |                           | <b>Other:</b>  |                                    |       |                             |                       |                  |
| The banned recyclables at our transfer station sites include household hazardous wastes, commercially generated cardboard (bylaw introduced across Regional District in Oct. 96), and oil.   |          |  |       |                                     |    |                                       |          |                           | Again, the data reflected in this report does not include the private sector's recycling programs. As a result, a significant portion of the data is missing. The lack of accurate data renders this report meaningless.   |                                    |       |                             |                       |                  |
| <b>Continued from Notes section</b> The same situation applies in the Columbia Valley subregion as Radium does not have its own landfill but residents use the Windermere landfill to take their composting ect. The City of Fernie moved from an operating landfill to a transfer system in August of 99. They now haul their waste to Lethbridge Alberta, which is why there is two entries for them the Disposed Waste Breakdown. Where scales are not used and exact weights not known, estimates have been included. In the Recycled Waste Breakdown, the metals section has been amended to reflect the total scrap metals/white goods recycled and the tin/aluminum totals we have. These reflect only those wastes crossing our scales or being deposited in our recycling facilities. |          |  |       |                                     |    |                                       |          |                           |  |                                    |       |                             |                       |                  |

**Fraser-Fort George Regional District**

|   |          | Residential Collection of Recyclables (other than compostables) |              |                                     |          |                                       |                           |                           | User Pay Strategy  |   |   |                             |                                      |  |   |
|---|----------|---|--------------|-------------------------------------|----------|---------------------------------------|---------------------------|---------------------------|--|---|---|-----------------------------|--------------------------------------|--|---|
| Municipality / E.A.   | 1999 Pop | SF Curbside (Y/N)   | Depots (Y/N) |                                     | MF (Y/N) | ICI (Y/N)                             | Collection Agency (PU/PR) |                           |  | Can/Bag Limits  | Collection Fees/ Tags for additional pickup (Y/N) | Variable Unit Fees (Y/N)    | Backyard Burning Bans in Place (Y/N) | Date User Pay Strategy was Implemented | Date User Pay Strategy is Planned to be Implemented |
|   |          |   | Staff        | No Staff                            |          |                                       | SF                        | MF                        | ICI  |   |   |                             |                                      |  |   |
| Prince George   | 80,845   |   |              | Y                                   |          |                                       |                           |                           | PR   | 4   | N   | Y                           |                                      | 1995                                   |   |
| Mackenzie   | 6,250    |   |              | Y                                   |          |                                       |                           |                           | PR   | 4   | N   | Y                           |                                      | 1998                                   |   |
| McBride   | 757      |   |              | Y                                   |          |                                       |                           |                           | PR   | 4   | N   | Y                           |                                      | 1998                                   |   |
| Valemount   | 1,362    |   |              | Y                                   |          |                                       |                           |                           | PR   | 4   | N   | Y                           |                                      | 1995                                   |   |
|   |          | Composting Programs and Facilities                              |              |                                     |          |                                       |                           |                           |  | Waste Reduction Staff (Y/N)   |   |                             |                                      |  |   |
| Municipality /E.A.  | 1999 Pop | Food and/or Yard Waste Collection (Y/N)(Fd/Yd)                  |              | Composting Facilities (Y/N) (PU/PR) |          | Backyard Composter Distribution (Y/N) |                           | Compost Demo Garden (Y/N) | Estimated Percent of Population with backyard composters | Multi-material Processing Facility  |   | Waste Reduction Coordinator | Education Coordinator                | Landfill Manager                       |   |
|   |          | Curbside  | Depot        | Yd                                  | Fd       | In past                               | On-going                  |                           |  | Y/N   | PU/PR   |                             |                                      |  |   |
| Prince George   | 80,845   |   |              | PU                                  |          |                                       |                           | Y                         |  | Y   | PR  |                             |                                      |  |   |
| Mackenzie   | 6,250    |   |              | PU                                  |          |                                       |                           | Y                         |  |   |   |                             |                                      |  |   |
| McBride   | 757      |   |              |                                     |          |                                       |                           | Y                         |  |   |   |                             |                                      |  |   |
| Valemount   | 1,362    |   |              | PU                                  |          |                                       |                           | Y                         |  |   |   |                             |                                      |  |   |
| <b>Disposal/ Recycling Measurement Challenges</b>   |          |   |              |                                     |          |                                       |                           |                           |  | <b>Waste Reduction Goals and Challenges:</b>  |   |                             |                                      |  |   |
| In the process of developing a regional transfer station system that will feed one landfill that is equipped with scales and supporting database software. <b>Challenge to measuring waste reduction</b> -- Lack of diversion information data from stewardship programs and provincial tire and battery programs. Private recycling programs are also a concern. |          |   |              |                                     |          |                                       |                           |                           |  | <b>Challenges include</b> -- lack of provincial funding, transportation distances and associated costs, economics of scale due to low population densities, and lack of alternative waste reduction services from the private sector. |   |                             |                                      |  |   |
| <b>Landfill Disposal Bans and Tipping Fee structure</b>   |          |   |              |                                     |          |                                       |                           |                           |  |   |   |                             |                                      |  |   |
| Visit our website at <a href="http://www.rdffg.bc.ca">www.rdffg.bc.ca</a> for variable rate tipping fee schedule.   |          |   |              |                                     |          |                                       |                           |                           |  |   |   |                             |                                      |  |   |

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**Fraser Valley Regional District**

| Municipality / E.A. | 1999 Pop | Residential Collection of Recyclables (other than compostables) |              |             |           |           |                           |    |     | User Pay Strategy |   |                          |                                      |  |  |
|---------------------|----------|---|--------------|-------------|-----------|-----------|---------------------------|----|-----|-------------------|---|--------------------------|--------------------------------------|--|--|
|                     |          | SF Curbside (Y/N)   | Depots (Y/N) |             | MF (Y/N)  | ICI (Y/N) | Collection Agency (PU/PR) |    |     | Can/Bag Limits    | Collection Fees/ Tags for additional pickup (Y/N) | Variable Unit Fees (Y/N) | Backyard Burning Bans in Place (Y/N) | Date User Pay Strategy was Implemented | Date User Pay Strategy is Planned to be Implemented                                      |
|                     |          |   | Staff        | No Staff    |           |           | SF                        | MF | ICI |                   |   |                          |                                      |  |  |
| E. A. - A           | 880      | N   |              | Y: Landfill | N         | N         | HD                        | HD | HD  | HD                | HD  | HD                       | N                                    |  | Note: HD refers to hauler dependant limits or prices and TS refers to a transfer station |
| E. A. - B           | 1,094    | Y   | Y - TS       |             | Y         | Y         | PR                        | PR | PR  | 2                 | Y   | Y                        | N                                    | 1991                                   |  |
| E. A. - C           | 1,700    | N   | Y - TS       | Y - TS      | N         | N         | HD                        | HD | HD  | HD                | HD  | HD                       | N                                    |  |  |
| E. A. - D           | 1,065    | N   |              |             | N         | N         | HD                        | HD | HD  | HD                | HD  | HD                       | N                                    |  |  |
| E. A. - E           | 3,481    | N   |              |             | N         | N         | HD                        | HD | HD  | HD                | HD  | HD                       | N                                    |  |  |
| E. A. - F           | 1,410    | N   | Y-TS         |             | N         | N         | HD                        | HD | HD  | HD                | HD  | HD                       | N                                    |  |  |
| E. A. - G           | 1,995    | N   |              |             | N         | N         | HD                        | HD | HD  | HD                | HD  | HD                       | N                                    |  |  |
| E. A. - H           | 356      | N   |              |             | N         | N         | HD                        | HD | HD  | HD                | HD  | HD                       | N                                    |  |  |
| District of Kent    | 4,844    | N   | Y            |             | N         | N         | PR                        | PR | PR  | HD                | HD  | HD                       | Y                                    |  |  |
| Harrison            | 2,000    | Y   |              | Y-Comm.     | N         | N         | PU                        | PR | PR  | 2                 | Y   | N                        | Y                                    |  |  |
| Abbotsford          | 115,386  | Y   | Y            |             | Y         | Y         | PU/PR                     | PR | PR  | 2                 | Y   | N                        | Y                                    | 1994                                   |  |
| Chilliwack          | 65,963   | N-PR  | Y-PR         | Y (15)      | N-PR      | N-PR      | PR                        | PR | PR  | HD                | HD  | HD                       | Y                                    |  |  |
| Hope                | 8,193    | Y-bag   | Y            | N/A         | Y-bag+bin | Y-bag+bin | PR                        | PR | PR  | 2                 | Y   | Y                        | Y                                    | 1991                                   |  |
| Mission             | 32,755   | Y   | Y            |             | Y         | N         | PU                        | PU | PR  | N                 | N   | Y                        | Y                                    | 1993                                   |  |

BC Municipal Solid Waste Tracking Report 1999

Fraser Valley Regional District con't

|   |          | Composting Programs and Facilities             |         |                                     |      |                                       |          |  |  | Multi-material Processing Facility |       | Waste Reduction Staff (Y/N)                                |                       |                       |  |  |  |  |  |  |  |  |  |  |  |  |
|---|----------|--|---------|-------------------------------------|------|---------------------------------------|----------|--|--|------------------------------------|-------|--|-----------------------|-----------------------|--|--|--|--|--|--|--|--|--|--|--|--|
| Municipality /E.A.  | 1999 Pop | Food and/or Yard Waste Collection (Y/N)(Fd/Yd) |         | Composting Facilities (Y/N) (PU/PR) |      | Backyard Composter Distribution (Y/N) |          | Compost Demo Garden (Y/N)  | Estimated Percent of Population with backyard composters | Y/N                                | PU/PR | Waste Reduction Coordinator                                | Education Coordinator | Landfill Manager      |  |  |  |  |  |  |  |  |  |  |  |  |
|   |          | Curbside                                       | Depot   | Yd                                  | Fd   | In past                               | On-going |  |  |                                    |       |  |                       |                       |  |  |  |  |  |  |  |  |  |  |  |  |
| E. A.- A  | 880      | N  | N       | N                                   | N    | Y                                     | N        | N  | 20%  | N                                  |       | Same person: one full-time staff at the regional district. |                       | Y-Landfill Society    |  |  |  |  |  |  |  |  |  |  |  |  |
| E. A.- B  | 1,094    | Y-Yd   | Y-Yd    | N                                   | N    | Y                                     | N        | N  | 20%  | N                                  |       |  |                       |                       |  |  |  |  |  |  |  |  |  |  |  |  |
| E. A.- C  | 1,700    | N  | Y-Yd    | N                                   | N    | Y                                     | N        | N  | 20%  | N                                  |       |  |                       |                       |  |  |  |  |  |  |  |  |  |  |  |  |
| E. A.- D  | 1,065    | N  | N       | N                                   | N    | Y                                     | N        | N  | 20%  | N                                  |       |  |                       |                       |  |  |  |  |  |  |  |  |  |  |  |  |
| E. A.- E  | 3,481    | N  | N       | N                                   | N    | Y                                     | N        | N  | 20%  | N                                  |       |  |                       |                       |  |  |  |  |  |  |  |  |  |  |  |  |
| E. A.- F  | 1,410    | N  | N       | N                                   | N    | Y                                     | N        | N  | 20%  | N                                  |       |  |                       |                       |  |  |  |  |  |  |  |  |  |  |  |  |
| E. A.- G  | 1,995    | N  | N       | N                                   | N    | Y                                     | N        | N  | 20%  | N                                  |       |  |                       |                       |  |  |  |  |  |  |  |  |  |  |  |  |
| E. A.- H  | 356      | N  | N       | N                                   | N    | Y                                     | N        | N  | 20%  | N                                  |       |  |                       |                       |  |  |  |  |  |  |  |  |  |  |  |  |
| District of Kent  | 4,844    | N  | Y-Yd    | N                                   | N    | Y                                     | Y        | N  | 20%  | N                                  |       | N  | N                     |                       |  |  |  |  |  |  |  |  |  |  |  |  |
| Harrison  | 2,000    | N  | N       | N                                   | N    | Y                                     | Y        | N  | 20%  | N                                  |       | N  | N                     | N/A                   |  |  |  |  |  |  |  |  |  |  |  |  |
| Abbotsford  | 115,386  | N  | Y-Yd    | Y-PU                                | N    | Y                                     | Y        | Y  | 37%  | Y                                  | PU/PR | Same   | person                | N                     |  |  |  |  |  |  |  |  |  |  |  |  |
| Chilliwack  | 65,963   | PR-Yd  | PR-Fd   | Y-PR                                | Y-PR | Y                                     | Y        | In progress  | 5-10%  | Y-depot                            | PR    | Same   | person                | for all three         |  |  |  |  |  |  |  |  |  |  |  |  |
| Hope  | 8,193    | Y-Yd   | N       | Y-PU                                | Y-PU | Y                                     | Y-PR     | N  | 33%  | Y                                  | PR    | Y(Dir.Dev. Services)                                       | N-contract            | Y(Dir. Dev. Services) |  |  |  |  |  |  |  |  |  |  |  |  |
| Mission   | 32,755   | Y-Fd/Yd  | Y-Fd/Yd | Y-PR                                | Y-PR | Y                                     | N        | Y  | N/A  | Y                                  | PR    | Y  | Y                     | Y                     |  |  |  |  |  |  |  |  |  |  |  |  |
| <b>Disposal/ Recycling Measurement Challenges :</b><br>Hard to define the number of residents with backyard compost units as many build their own, some are purchased from outside the community and some use the curbside pickup service. Although it is known that 824 compost units were sold in 1995 and 600 in 1997.<br><b>Disposal challenges:</b> Regional District Landfill does not have weigh scales, therefore tonnage is estimated. There is a large amount of waste migration to native landfills, especially DLC waste. <b>Recycling challenges:</b> ICI sector- currently working on ICI |          |  |         |                                     |      |                                       |          | <b>Wood Waste Diversion :</b><br>Wood waste is diverted at most landfills for chipping or if banned at disposal facilities it is sent to composting facilities (lower tipping fee in all cases). Transfer stations now have wood/yard waste bins for disposal to composting twice a year. DLC site has been approved in SWMP but waiting for OC pending MELP liability insurance negotiations.   |  |                                    |       |  |                       |                       |  |  |  |  |  |  |  |  |  |  |  |  |
| <b>Waste Reduction Goals and Challenges:</b><br><b>Organics:</b> Residential diversion by backyard composting, but need to focus on ICI organics (restaurants, hotels, grocery stores). Hoping to develop a pilot project shortly. We need to get the DLC site O.C. Would greatly assist to provide authorized facility for haulers.  |          |  |         |                                     |      |                                       |          | <b>Other:</b><br>Private haulers are responsible for the collection of MF and ICI collection. Yard waste is collected twice a year (spring and fall) at electoral area transfer stations. In Abbotsford 65% of SF collection is completed by city crews while the other 35% is contract. There is a 4 week period when the backyard burning ban in Hope is lifted. The variable unit fee structure in place in Abbotsford, Chilliwack, Hope and Mission implies that prices vary by SF/ MF or rural areas. <b>Legislation:</b> Waste disposal paid for by weight would greatly increase incentive to divert organics and other heavy waste. Federal government control on Native landfill practices. Our FVRD ICI Waste Reduction Strategy should help business w/recycling barriers and provide options. There are two transfer stations in E.A. C -- one that is staffed and one that isn't. |  |                                    |       |  |                       |                       |  |  |  |  |  |  |  |  |  |  |  |  |
| <b>Landfill Disposal Bans and Tipping Fee structure:</b><br>Please see each municipality w/landfills. Chaumox Road Landfill bans: hazardous waste, waste oil, tires, white goods, scrap metal, construction waste w/>15% gypsum.  |          |  |         |                                     |      |                                       |          | <b>Waste Composition Study:</b><br>Studies were completed pre-FVRD amalgamation  |  |                                    |       |  |                       |                       |  |  |  |  |  |  |  |  |  |  |  |  |

# BC Municipal Solid Waste Tracking Report 1999

## Fraser Valley Regional District con't

### Abbotsford

|   |   |
|---|---|
| <p><b>Disposal and Recycling Measurement Challenges:</b> <b>DLC</b> -- hard to measure as much is disposed of in unauthorized landfill facilities. <b>Recycling</b> -- Private companies that do not report tonnages to the city. <b>ICI Waste</b> -- Handled by private industry with final destination not always known.</p>  | <p><b>Wood Waste Diversion:</b><br/> <b>Valley Road Compost Facility</b> -- accepts all grass, leaves, garden waste, brush and wood waste. Charges are \$40/tonne and \$2 for 110 pounds. <b>DLC Site</b> -- approved in the FVRD SWMP but not yet operational.</p>   |
| <p><b>Landfill Disposal Bans and Tipping Fee structure:</b><br/>         (All material go to Cache Creek Landfill) Transfer station tipping fee -- GVRD operated in agreement with Abbotsford -- \$66/tonne. <b>Most recent bans</b> -- OCC in 1997, ONP and Office paper in 1998. <b>Items not accepted since inception:</b> explosives, raw sewage, animal feces, gyproc, oil, paint, rocks, wire, heavy metals or car parts, highly flameable materials, dangerous or offensive materials, dead animals, hot or loose ashes, tree branches, grass cuttings or other garden/yard refuse, items of any kind greater than 60 cm in any dimension, demolition materials and medical waste.</p>   | <p><b>Other:</b><br/>         In 1994 the City of Abbotsford implemented a 2 can garbage limit and an unlimited amount of blue bag recyclables for single family residents. In the year 2000 the City will implement and regulate a MFU recycling program for the over 15000 MFU. As well in the years 2000 and 2001 the City will help the ICI sector implement 3R programs to meet their needs. To assist the City in further reducing the amount of garbage going to the landfill more stringent regulations regarding packaging and plastics production must be implemented. Further, the Province must continue to set reduction goals and provide incentives for those who achieve goals.</p> |
| <p><b>Waste Reduction Goals and Challenges:</b><br/>         The City will continue to strive towards reducing the amount of material going to the landfill by educating the public on matters relating to the 3Rs and composting. <b>Organic</b> -- The City will continue to promote the sale of subsidized composters to the public, continue operation of the Valley Road Compost Drop-off Site, and continue to encourage Private Haulers to contract for yard waste pickup and disposal to the City Compost Site. <b>DLC</b> -- a DLC site had been approved by the FVRD SWMP and it should be operational once the required certification is approved. <b>Plastics</b> -- continue to accept #1 and 2 plastic. The concern is the number of other types of plastic on the market and the lack of end use for them.</p> |   |

### Chilliwack

|   |  |
|---|--|
| <p><b>Disposal and Recycling Measurement Challenges:</b> Migrating waste poses a waste accounting problem. Waste disposed of or recycled outside Chilliwack is difficult to track.</p>  | <p><b>Wood Waste Diversion:</b> The AgGro Composting Facility accepts residential and commercial construction waste for composting. Wood waste is banned from the Bailey Landfill to encourage composting.</p>   |
| <p><b>Landfill Disposal Bans and Tipping Fee Structure:</b><br/>         Extensive material bans at Bailey Landfill (Waste Disposal Bylaw 1996, No. 2313). Bans newspaper, cardboard, glass, metal cans, plastic milk jugs and pop bottles, hazardous waste, waste oil, rubber tires, lead-acid batteries, and yard and wood wastes. Propane tanks, waste oil, batteries and gypsum are accepted at the landfill but taken off-site for recycling. Split tipping fee structure in place with reduced fee for loads greater than 5 MT (\$73/MT for loads less than 5 MT and \$68/MT for loads exceeding 5MT). Fee for gypsum is \$115/MT to cover costs of transportation and recycling.</p> | <p><b>Waste Reduction Goals and Challenges:</b><br/>         Goal to achieve a balance between waste reduction and waste management cost. Aiming for 50% reduction in waste landfilled from 1991 numbers. Challenge is in data collection, with waste migrating from Chilliwack boundaries. There is currently no recycling program in place for multi-family residences. Recycling is encouraged through the landfill material bans. However, multi-family residential recycling could be more effective.</p> |

**Fraser Valley Regional District con't**

**Hope**

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| <p><b>Disposal and Recycling Measurement Challenges:</b><br/>Our biggest challenge is accurate reporting on the commercial recycled material which is NOT picked up by the District's collection contractor. Unless you have the Commercial sector on side, the quantities are nothing more than an educated guess. The materials include; tires at tire shops and garages, recycled bottles at the liquor store /corner store (Not Encorp) and large outlets such as Coopers who have their own recycling programs. Wood waste and scrap metal, especially old auto hulks are other products which are difficult to monitor.</p>  | <p><b>Waste Composition Study:</b><br/>Hope has yet to do a composition study. Due to lack of funds and staff time it is very unlikely that a study will be performed in the near future.</p>  |
| <p><b>Landfill Disposal Bans and Tipping Fee Structure:</b><br/>Hope has 18 different materials which are banned from the Hope Landfill. These materials include -- raw sewage/sludge, explosives, corrosive/inflammable material, trees/logs/stumps, motor vehicle bodies, carcasses/offal/viscera, special MELP waste, gypsum in excess of 15% of total load, waste oil, materials above 65.5 degrees Celsius, clean wood waste, recyclable tires, compostable grass clippings/leaves, cardboard/newspaper, plastic #1 and 2, scrap metal/white goods, glass bottles/containers, asphalt and concrete. These bans have been in place since May 1998. We also recycle many of these banned materials at the landfill. Many of these materials have different tipping fees. Regular garbage is charged out at \$70.00/tonne, clean wood waste @ \$25/tonne, passenger tires @ \$1 each, rimmed passenger tires @ \$2 each, truck tires @ \$10 each and rimmed truck tires @ \$25 each. Scrap metal/white goods are accepted at no charge. Compostable grass clippings are accepted at no charge.</p> | <p><b>Waste Reduction Goals and Challenges:</b><br/>We have a good solid waste program with residential, multi-family, commercial and institutional users. We do not have heavy metal industrial waste to worry about; however, proper disposal of DLC material continues to be a challenge. Illegal dumping continues to be a problem but has decreased over the years. (Unfortunately, the illegal dumping has been transferred to areas outside of the district boundaries) We have a good composting and yard waste program but have difficulty implementing a "Green Waste" program which composts kitchen wastes from both residential and commercial sectors.</p> |
| <p><b>Other:</b><br/>Hope has fairly comprehensive solid waste program in place. While we have many proactive bylaws, there is always room for improvement. The tag-a-bag program is our next step towards an improved system. We are in the process of approving a proposal for a pilot project to dispose of our solid waste through a "gasification" process. The project is only received in principle and is presently going through the process of a Regional Solid Waste Amendment application. If the FVRD and MELP approve the proposal, then Hope may be implementing the new alternate solid waste disposal system within the next year or so. The new process will eliminate the need to landfill material and will dispose of wood waste, tires and other combustible waste with little impact to the environment and producing electrical energy at the same time.</p>   |  |
| <p><b>Wood Waste Diversion:</b> Wood waste diversion is very good in Hope. Wood waste is not landfilled. We have a 64% lower tipping fee for clean wood waste so there is a great incentive not to include this waste with your regular garbage. Much of the wood waste is collected during our Spring Clean Up program which comes at no extra charge to residential users. Achieving 100% compliance with demolition waste is difficult but we still manage to get between 25-30% of material heading to the landfill diverted to the wood waste pile; however, this only includes those loads destined for the Hope Landfill. Some loads continue to leave our District Boundaries. Landclearing is another operation which is slowly improving over time. As our burning bylaws improve, open burning is on a slow but steady decrease. Many burning applications are denied due to their close proximity to schools, hospitals or residential areas. More stringent burning requirements are also encouraging developers to start tub grinding more than before.</p>                            |  |
| <p><b>Mission</b></p>  |  |
| <p><b>Disposal/Recycling Measurement Challenges:</b><br/><b>ICI Sector</b> -- not required to recycle. Thus materials that could be recycled are put into the general refuse waste stream.</p>   | <p><b>Waste Composition Study:</b><br/>Waste statistics/poll planned for residential units in the new year.</p>  |
| <p><b>Landfill Disposal Bans and Tipping Fee Structure:</b><br/>Gyproc -- \$130/tonne, Scrap metal -- No charge, Tires -- \$1.00 + weight, Brush -- \$30/tonne, Auto batteries -- No charge, Propane Tanks -- No charge.</p>   | <p><b>Wood Waste Diversion:</b><br/>Brush/woodwaste is charged at \$30/tonne. It is stacked in a woodpile and processed by grinding at approximately 350 tonnes based on scale weights.</p>  |
| <p><b>Waste Reduction Goals and Challenges:</b><br/>Major challenges are ICI sector, specifically plastics and mixed paper.</p>  | <p><b>Other:</b><br/>Bylaw change or economic incentives required for ICI sector to actively participate in recycling.</p>   |

**Greater Vancouver Regional District**

| Municipality / E.A.  | 1999 Pop   | Residential Collection of Recyclables (other than compostables) |              |          |          |           |                           |    |     | User Pay Strategy |   |                          |   |  |   |
|----------------------|------------|---|--------------|----------|----------|-----------|---------------------------|----|-----|-------------------|---|--------------------------|---|--|---|
|                      |            | SF Curbside (Y/N)   | Depots (Y/N) |          | MF (Y/N) | ICI (Y/N) | Collection Agency (PU/PR) |    |     | Can/Bag Limits    | Collection Fees/ Tags for additional pickup (Y/N) | Variable Unit Fees (Y/N) | Backyard Burning Bans in Place (Y/N)                | Date User Pay Strategy was Implemented | Date User Pay Strategy is Planned to be Implemented |
|                      |            |   | Staff        | No Staff |          |           | SF                        | MF | ICI |                   |   |                          |   |  |   |
| Anmore               | 1,261      | N   | N            | Y        |          |           |                           |    |     | N/A               | Y   | N                        | 1994  |  |   |
| Belcarra             | 707        | N   | N            | Y        |          |           |                           |    |     | 2                 | Y   |                          | approx. 1994  |  |   |
| Bowen Island         |            |   | Y            |          |          |           |                           |    |     |                   |   | Y                        |   |  |   |
| Burnaby              | 190,272    | Y   | Y            |          | Y-100%   | Y         | PU                        | PU |     | 3                 | N   |                          |   |  |   |
| Coquitlam            | 111,534    | Y   | Y(1)         |          | Y-100%   |           | PU                        | PU |     | 2                 | \$2/bag   |                          |   |  |   |
| Delta                | 101,098    | Y   | Y            |          | Y-100%   | Y         | PU                        | PU |     | 2                 | \$15/12 tags                                      |                          |   |  |   |
| Electoral Area A/UBC |            |   |              |          | Y-90%    |           |                           | PU |     |                   |   |                          |   |  |   |
| Langley City         | 24,178     | Y   |              | Y        | Y        |           | PU                        | PU |     | 2                 | \$10/10 tags                                      |                          |   |  |   |
| Langley Township     | 88,489     | Y   |              | Y        | Y-100%   |           | PU                        | PU |     | 2                 | \$1/bag   |                          |   |  |   |
| Lions Bay            | 1,413      | Y   |              |          |          |           | PU                        |    |     | 3                 |   |                          |   |  |   |
| Maple Ridge          | 61,970     | Y   | Y            |          | Y-100%   | Y         | PU                        | PU |     |                   |   |                          |   |  |   |
| New Westminster      | 54,177     | Y   | Y            |          | PILOT    |           | PU                        | PU |     | 2                 | \$1.5/bag   |                          |   |  |   |
| North Shore          | 130149 (1) | Y   | Y            |          | Y-100%   |           | PU                        | PU |     | 2 or 3*           | \$2/bag   |                          | includes both North Van City and North Van District |  |   |
| Pitt Meadows         | 14,756     | Y   |              |          | Y-90%    |           | PU                        | PU |     | 1                 | \$1.5/bag   |                          |   |  |   |
| P. Coquitlam         | 51,130     | Y   |              |          | Y-100%   | Y         | PU                        | PU |     | 3                 | N/A   |                          |   |  |   |
| Port Moody           | 23,736     | Y   |              |          | Y-100%   | Y         | PU                        | PU |     | 2                 | \$1/bag   |                          |   |  |   |
| Richmond             | 164,009    | Y   | Y            |          | Y-100%   | Depot     | PU                        | PU |     | 2                 | \$2/bag   |                          |   |  |   |
| Surrey               | 336,034    | Y   |              |          | Y-90.6%  |           | PU                        | PU |     | 2                 | \$1/bag   |                          |   |  |   |
| Vancouver            | 600773 (2) | Y   | Y            |          | Y-100%   |           | PU                        | PU |     | 2                 | \$7.5/5tags                                       |                          |   |  |   |
| White Rock           | 17,573     | Y   |              | Y        | Y-83%    | Y         | PU                        | PU |     | 2                 | \$3/tag   |                          |   |  |   |

BC Municipal Solid Waste Tracking Report 1999

**Greater Vancouver Regional District con't**

| (1) Includes North Van City and District |          | Composting Programs and Facilities             |       |                                     |    |                                       |          |                           |  | Multi-material Processing Facility |  | Waste Reduction Staff (Y/N) |           |                             |                       |                  |
|--|----------|--|-------|-------------------------------------|----|---------------------------------------|----------|---------------------------|--|------------------------------------|--|-----------------------------|-----------|-----------------------------|-----------------------|------------------|
|  |          | Food and/or Yard Waste Collection (Y/N)(Fd/Yd) |       | Composting Facilities (Y/N) (PU/PR) |    | Backyard Composter Distribution (Y/N) |          | Compost Demo Garden (Y/N) | Estimated Percent of Population with backyard composters |                                    |  | Y/N                         | PU/PR     | Waste Reduction Coordinator | Education Coordinator | Landfill Manager |
|  |          | Curbside                                       | Depot | Yd                                  | Fd | In past                               | On-going |                           |  |                                    |  |                             |           |                             |                       |                  |
| Municipality /E.A.                       | 1999 Pop |  |       |                                     |    |                                       |          |                           |  |                                    |  |                             |           |                             |                       |                  |
| Anmore                                   | 1,261    |  |       |                                     |    |                                       |          |                           |  |                                    |  | Committee                   | Committee | N/A                         |                       |                  |
| Belcarra                                 | 707      |  |       |                                     |    | Y                                     | Y        |                           |  |                                    |  | Committee                   | Committee | N/A                         |                       |                  |
| Bowen Island                             |          |  |       |                                     |    |                                       |          |                           |  |                                    |  |                             |           |                             |                       |                  |
| Burnaby                                  | 190,272  | Y-Yd   | Y-Yd  | Y-PR                                |    |                                       | Y        | Y                         |  |                                    |  |                             |           |                             |                       |                  |
| Coquitlam                                | 111,534  | PR-Yd  | Y-Yd  | Y-PR                                |    |                                       | Y        |                           |  |                                    |  |                             |           |                             |                       |                  |
| Delta                                    | 101,098  | Y-Yd   | Y-Yd  | Y-PU                                |    |                                       | Y        | Y                         |  |                                    |  |                             |           |                             |                       |                  |
| Electoral Area                           |          |  |       |                                     |    |                                       |          |                           |  |                                    |  |                             |           |                             |                       |                  |
| Langley City                             | 24,178   |  | Y-Yd  | Y-PU                                |    |                                       |          |                           |  |                                    |  |                             |           |                             |                       |                  |
| Langley Township                         | 88,489   | Y-Yd   | Y-Yd  | Y-PU                                |    |                                       | Y        | Y                         |  |                                    |  |                             |           |                             |                       |                  |
| Lions Bay                                | 1,413    |  |       |                                     |    |                                       | Y        |                           |  |                                    |  |                             |           |                             |                       |                  |
| Maple Ridge                              | 61,970   |  | Y-Yd  | Y-PR                                |    |                                       | Y        | Y                         |  |                                    |  |                             |           |                             |                       |                  |

| (2) Includes Vancouver and West Van. |          | Composting Programs and Facilities con't       |       |                                     |    |                                       |          |                           |  | Multi-material Processing Facility con't |  | Waste Reduction Staff (Y/N) con't |       |                             |                       |                  |
|--------------------------------------|----------|--|-------|-------------------------------------|----|---------------------------------------|----------|---------------------------|--|--|--|-----------------------------------|-------|-----------------------------|-----------------------|------------------|
|                                      |          | Food and/or Yard Waste Collection (Y/N)(Fd/Yd) |       | Composting Facilities (Y/N) (PU/PR) |    | Backyard Composter Distribution (Y/N) |          | Compost Demo Garden (Y/N) | Estimated Percent of Population with backyard composters |  |  | Y/N                               | PU/PR | Waste Reduction Coordinator | Education Coordinator | Landfill Manager |
|                                      |          | Curbside                                       | Depot | Yd                                  | Fd | In past                               | On-going |                           |  |  |  |                                   |       |                             |                       |                  |
| Municipality /E.A.                   | 1999 Pop |  |       |                                     |    |                                       |          |                           |  |  |  |                                   |       |                             |                       |                  |
| New Westminster                      | 54177    | Y-Yd   | Y-Yd  | PU/PR                               |    |                                       |          |                           |  |  |  |                                   |       |                             |                       |                  |
| North Shore                          | 130149   | Y-Yd   | Y-Yd  | Y-PR                                |    |                                       | Y        | 2                         |  |  |  |                                   |       |                             |                       |                  |
| Pitt Meadows                         | 14756    |  | Y-Yd  | Y-PR                                |    |                                       | Y        |                           |  |  |  |                                   |       |                             |                       |                  |
| P. Coquitlam                         | 51130    |  | Y-Yd  | PU/PR                               |    |                                       | Y        |                           |  |  |  |                                   |       |                             |                       |                  |
| Port Moody                           | 23736    | Y-Yd   |       | Y-PU                                |    |                                       |          |                           |  |  |  |                                   |       |                             |                       |                  |
| Richmond                             | 164009   | Y-Yd   | Y-Yd  | PU/PR                               |    |                                       | Y        | Y                         |  |  |  |                                   |       |                             |                       |                  |
| Surrey                               | 336034   | Y-Yd   | Y-Yd  | Y-PR                                |    |                                       | Y        | 2                         |  |  |  |                                   |       |                             |                       |                  |
| Vancouver                            | 600773   | Y-Yd   | Y-Yd  | Y-PU                                |    |                                       | Y        | Y                         |  |  |  |                                   |       |                             |                       |                  |
| White Rock                           | 17573    | Y-Yd   |       |                                     |    |                                       | Y        | N                         |  |  |  |                                   |       |                             |                       |                  |

**Other:**  
 Residents of the Village of Belcarra pay a levy of \$125.00/household/year for the recycling services offered in the municipality. There is a limited of 2 bags per home per week but it is not enforced due to limited resources. Backyard burning is limited to two weeks in the spring and fall. The Village of Anmore has collection bins at which point residents can drop off ONP, mixed paper, glass, OCC, plastics and tin. Weekly garbage collection is available at the cost of \$1.50/bag.

**Kitimat-Stikine Regional District**

**No data returned**

**Kootenay Boundary Regional District**

| Municipality / E.A.   | 1999 Pop | Residential Collection of Recyclables (other than compostables) |              |                                     |          |                                       |                           |  |  | User Pay Strategy                  |                                      |                             |                                      |  |   |
|---|----------|---|--------------|-------------------------------------|----------|---------------------------------------|---------------------------|--|--|------------------------------------|--------------------------------------|-----------------------------|--------------------------------------|--|---|
|   |          | SF Curbside (Y/N)   | Depots (Y/N) |                                     | MF (Y/N) | ICI (Y/N)                             | Collection Agency (PU/PR) |  |  | Can/ Bag Limits                    | Collection Fees/ Tags for additional | Variable Unit Fees (Y/N)    | Backyard Burning Bans in Place (Y/N) | Date User Pay Strategy was Implemented | Date User Pay Strategy is Planned to be |
|   |          |   | Staff        | No Staff                            |          |                                       | SF                        | MF   | ICI  |                                    |                                      |                             |                                      |  |   |
| RDKB  | 34,156   | N   | 4            | 14                                  | N        | N                                     | N                         | N  | N  | NA                                 |                                      |                             |                                      |  |   |
| Fruitvale   | 2,153    |   |              |                                     |          |                                       |                           |  |  | note below                         | N                                    | N                           | N                                    | 1997                                   |   |
| Montrose  | 1,169    |   |              |                                     |          |                                       |                           |  |  | note below                         | N                                    | N                           | N                                    | 1999                                   |   |
| Trail   | 7,626    |   |              |                                     |          |                                       |                           |  |  | 2                                  | \$0.75                               | N                           | N                                    | 1999                                   |   |
| Warfield  | 1,800    |   |              |                                     |          |                                       |                           |  |  | 2                                  | \$2                                  | N                           | N                                    |  |   |
| Rossland  | 3,859    |   |              |                                     |          |                                       |                           |  |  | note below                         | N                                    | N                           | N                                    | 1998                                   |   |
| Grandforks  | 4,320    |   |              |                                     |          |                                       |                           |  |  | 2                                  | \$1                                  | N                           | Y                                    |  |   |
| Greenwood   | 761      |   |              |                                     |          |                                       |                           |  |  | note below                         | N                                    | N                           | N                                    | 1996                                   |   |
| Midway  | 686      |   |              |                                     |          |                                       |                           |  |  | note below                         | N                                    | N                           | N                                    | 1998                                   |   |
|   |          | Composting Programs and Facilities                              |              |                                     |          |                                       |                           |  |  | Waste Reduction Staff (Y/N)        |                                      |                             |                                      |  |   |
|   |          | Food and/or Yard Waste Collection (Y/N)(Fd/Yd)                  |              | Composting Facilities (Y/N) (PU/PR) |          | Backyard Composter Distribution (Y/N) |                           | Compost Demo Garden (Y/N)  | Estimated Percent of Population with backyard composters | Multi-material Processing Facility |                                      | Waste Reduction Coordinator | Education Coordinator                | Landfill Manager                       |   |
| Municipality /E.A.  | 1999 Pop | Curbside  | Depot        | Yd                                  | Fd       | In past                               | On-going                  |  |  | Y/N                                | PU/PR                                |                             |                                      |  |   |
| RDKB  | 34,156   | N   | Y-YD         | Y<br>PU/PR                          | N        | Y                                     | Y                         | N  | 20   | Y                                  | PU/PR                                | Y                           | N                                    | Y                                      |   |
| <b>Disposal/ Recycling Measurement Challenges</b><br>Waste disposed at small rural landfills is still estimated. No scales are in place or planned              |          |   |              |                                     |          |                                       |                           | <b>Wood Waste Diversion</b><br>All wood waste entering the McKelvey Creek Landfill (serving 2/3 of RD population is chipped and used for road bed or cover. At all other sites wood waste is burned or used for cover material if suitable.  |  |                                    |                                      |                             |                                      |  |   |
| <b>Landfill Disposal Bans and Tipping Fee structure</b><br>Bans in place on all recyclable paper products, refundable beverage containers, oil and oil filters. |          |   |              |                                     |          |                                       |                           | <b>Other:</b><br>In the municipalities of Rossland, Fruitvale, Montrose, Midway and Greenwood there is no limit to garbage bag set outs. However each bag must be paid for. Rossland, Fruitvale and Montrose require use of market bags while Greenwood and Midway require a tag on each bag or container. Prices per bag are as follows; Rossland and Montrose \$2.50; Fruitvale and Midway \$2.00 and Greenwood \$0.75 |  |                                    |                                      |                             |                                      |  |   |
| <b>Waste Reduction Goals and Challenges</b><br>At present the goal is still 50% per capita reduction of 1989 levels.  |          |   |              |                                     |          |                                       |                           |  |  |                                    |                                      |                             |                                      |  |   |

**Mount Waddington Regional District**

| Municipality / E.A. | 1999 Pop | Residential Collection of Recyclables (other than compostables) |              |                                     |          |                                       |                           |                           |  | User Pay Strategy                  |   |                             |                                      |  |   |
|---------------------|----------|---|--------------|-------------------------------------|----------|---------------------------------------|---------------------------|---------------------------|--|------------------------------------|---|-----------------------------|--------------------------------------|--|---|
|                     |          | SF Curbside (Y/N)   | Depots (Y/N) |                                     | MF (Y/N) | ICI (Y/N)                             | Collection Agency (PU/PR) |                           |  | Can/Bag Limits                     | Collection Fees/ Tags for additional pickup (Y/N) | Variable Unit Fees (Y/N)    | Backyard Burning Bans in Place (Y/N) | Date User Pay Strategy was Implemented | Date User Pay Strategy is Planned to be Implemented |
|                     |          |   | Staff        | No Staff                            |          |                                       | SF                        | MF                        | ICI  |                                    |   |                             |                                      |  |   |
| MWRD                | 14601    | N   | Y            | N                                   | N        | N                                     |                           |                           |  | 2                                  | Y   | Y                           | N                                    | N/A                                    | N/A   |
|                     |          | Composting Programs and Facilities                              |              |                                     |          |                                       |                           |                           |  | Waste Reduction Staff (Y/N)        |   |                             |                                      |  |   |
| Municipality /E.A.  | 1999 Pop | Food and/or Yard Waste Collection (Y/N)(Fd/Yd)                  |              | Composting Facilities (Y/N) (PU/PR) |          | Backyard Composter Distribution (Y/N) |                           | Compost Demo Garden (Y/N) | Estimated Percent of Population with backyard composters | Multi-material Processing Facility |   | Waste Reduction Coordinator | Education Coordinator                | Landfill Manager                       |   |
|                     |          | Curbside  | Depot        | Yd                                  | Fd       | In past                               | On-going                  |                           |  | Y/N                                | PU/PR   |                             |                                      |  |   |
| MWRD                | 14601    | N   | N            | N                                   | Y        | Y                                     | Y                         | N                         |  | N                                  |   | N                           | N                                    | Y                                      |   |

**Nanaimo Regional District**

|  |          | Residential Collection of Recyclables (other than compostables) |              |                                     |          |  |                           | User Pay Strategy  |  |                                    |   |                             |                                      |  |   |
|--|----------|---|--------------|-------------------------------------|----------|--|---------------------------|--|--|------------------------------------|---|-----------------------------|--------------------------------------|--|---|
| Municipality / E.A.  | 1999 Pop | SF Curbside (Y/N)   | Depots (Y/N) |                                     | MF (Y/N) | ICI (Y/N)  | Collection Agency (PU/PR) |  |  | Can/Bag Limits                     | Collection Fees/ Tags for additional pickup (Y/N) | Variable Unit Fees (Y/N)    | Backyard Burning Bans in Place (Y/N) | Date User Pay Strategy was Implemented | Date User Pay Strategy is Planned to be Implemented |
|  |          |   | Staff        | No Staff                            |          |  | SF                        | MF   | ICI  |                                    |   |                             |                                      |  |   |
| City of Nanaimo  | 76,173   | Y   | N            | Y                                   | N        | N  | PU (contracted)           |  |  | 1                                  | Y   | N                           | seasonal                             | 1988                                   |   |
| Remainder of RDN   | 61,464   | Y   | Y            | Y                                   | N        | N  | PU (contracted)           |  |  | 1                                  | Y   | N                           | Y                                    | 1991                                   |   |
| Note: The City of Nanaimo depots are used by all sectors.  |          |   |              |                                     |          | Note: the City and RDN residential collection programs are contracted out municipal services |                           |  |  |                                    |   |                             |                                      |  |   |
|  |          | Composting Programs and Facilities                              |              |                                     |          |  |                           |  |  | Waste Reduction Staff (Y/N)        |   |                             |                                      |  |   |
| Municipality / E.A.  | 1999 Pop | Food and/or Yard Waste Collection (Y/N)(Fd/Yd)                  |              | Composting Facilities (Y/N) (PU/PR) |          | Backyard Composter Distribution (Y/N)  |                           | Compost Demo Garden (Y/N)  | Estimated Percent of Population with backyard composters | Multi-material Processing Facility |   | Waste Reduction Coordinator | Education Coordinator                | Landfill Manager                       |   |
|  |          | Curbside  | Depot        | Yd                                  | Fd       | In past  | On-going                  |  |  | Y/N                                | PU/PR   |                             |                                      |  |   |
| RDN (whole)  | 137,637  | N   | Y-Yd         | PU/PR                               | N        | Y  | Y                         | Y  | 60%  | Y                                  | PR  | Y                           | N                                    | Y                                      |   |
| <b>Disposal/ Recycling Measurement Challenges</b>  |          |   |              |                                     |          |  |                           | <b>Waste Reduction Goals and Challenges</b>  |  |                                    |   |                             |                                      |  |   |
| Things that are difficult for us to track include: private recycling, the impact of private waste export, and the amount of waste imported to our disposal facilities                |          |   |              |                                     |          |  |                           | Our SWMP has a diversion goal of 70%. Our primary challenge in meeting that target is the lack of infrastructure for organics diversion and construction waste recycling.  |  |                                    |   |                             |                                      |  |   |
| <b>Landfill Disposal Bans and Tipping Fee structure</b><br>banned: paper, metal, tires, OCC, gypsum.   |          |   |              |                                     |          |  |                           | <b>Other:</b>  |  |                                    |   |                             |                                      |  |   |
| <b>Wood Waste Diversion</b><br>We plan to ban c/d waste from the landfill next year.   |          |   |              |                                     |          |  |                           | Things of interest: We've just completed a broad program evaluation that included a telephone survey, a fax back survey (or on-line or mail), and an on-site customer survey. We plan to implement waste stream management licensing in 2001. We intend to add all rigid plastic containers to our curbside program in 2001. |  |                                    |   |                             |                                      |  |   |
| <b>Waste Reduction Goals and Challenges:</b><br>Our SWMP has a diversion goal of 70%. Our primary challenge in meeting that target is lack of infrastructure for organics diversion. |          |   |              |                                     |          |  |                           |  |  |                                    |   |                             |                                      |  |   |

**North Okanagan Regional District**

| Municipality / E.A.  | 1999 Pop | Residential Collection of Recyclables (other than compostables) |              |                                     |          |                                       |                           |   |  | User Pay Strategy                  |   |                             |                                      |  |   |
|--|----------|---|--------------|-------------------------------------|----------|---------------------------------------|---------------------------|---|--|------------------------------------|---|-----------------------------|--------------------------------------|--|---|
|  |          | SF Curbside (Y/N)   | Depots (Y/N) |                                     | MF (Y/N) | ICI (Y/N)                             | Collection Agency (PU/PR) |   |  | Can/ Bag Limits                    | Collection Fees/ Tags for additional pickup (Y/N) | Variable Unit Fees (Y/N)    | Backyard Burning Bans in Place (Y/N) | Date User Pay Strategy was Implemented | Date User Pay Strategy is Planned to be Implemented |
|  |          |   | Staff        | No Staff                            |          |                                       | SF                        | MF  | ICI  |                                    |   |                             |                                      |  |   |
| NORD   | 77497    | Y   | Y            | N                                   | Y        | PR                                    | PU                        | PU  | PR   | 2                                  | Y   | N                           | periodic                             | 1991                                   |   |
| Composting Programs and Facilities   |          |   |              |                                     |          |                                       |                           |   |  |                                    | Waste Reduction Staff (Y/N)                       |                             |                                      |  |   |
| Municipality /E.A.   | 1999 Pop | Food and/or Yard Waste Collection (Y/N)(Fd/Yd)                  |              | Composting Facilities (Y/N) (PU/PR) |          | Backyard Composter Distribution (Y/N) |                           | Compost Demo Garden (Y/N)   | Estimated Percent of Population with backyard composters | Multi-material Processing Facility |   | Waste Reduction Coordinator | Education Coordinator                | Landfill Manager                       |   |
|  |          | Curbside  | Depot        | Yd                                  | Fd       | In past                               | On-going                  |   |  | Y/N                                | PU/PR   |                             |                                      |  |   |
| NORD   | 77497    | Yd-seasonal   | Y-Yd         | PU                                  | N        | Y                                     | N                         | Y   | 30   | Y                                  | PR  | Y                           | Y                                    | Y                                      |   |
| <b>Disposal/ Recycling Measurement Challenges:</b><br>Difficulty in obtaining private sector tonnages. Have surveyed major contributors, but data is incomplete. Incomplete data is principally ICI  |          |   |              |                                     |          |                                       |                           | <b>Waste Composition Study:</b><br>Completed major Solid waste composition study in 1998.   |  |                                    |   |                             |                                      |  |   |
| <b>Landfill Disposal Bans and Tipping Fee structure:</b><br>Disposal ban bylaw written but not yet passed. Currently operating under a policy that all recyclable materials are banned from landfills. Tipping fee structure is not variable.  |          |   |              |                                     |          |                                       |                           | <b>Wood Waste Diversion:</b><br>Yard and garden waste segregated at all landfills. No data available for forest industry diversion. |  |                                    |   |                             |                                      |  |   |
| <b>Waste Reduction Goals and Challenges:</b><br>Organics makeup a large percentage of MSW. Working toward diversion programs<br><b>DLC:</b> Is a large portion of MSW. Working toward diversion programs<br><b>Plastics:</b> Require stable markets for post consumer resins before collection. Currently only collecting #2 cloudy plastic. |          |   |              |                                     |          |                                       |                           |   |  |                                    |   |                             |                                      |  |   |

**Northern Rockies Regional District**

**Other**  
Recycling in the NRRD is privatized. The quantity of recycled goods can be obtained from Widesky Disposals at 250.774.6528. The NRRD has reduced landfill volumes by 50% during the past 10 years by recycling through private contractors. Recycling programs are available for cardboard, tires, steel, soft drink and alcohol containers.

**Okanagan-Similkameen Regional District**

|  |          | Residential Collection of Recyclables (other than compostables) |              |                                     |          |                                       |                           |  |  | User Pay Strategy                  |   |                             |                                      |  |   |
|--|----------|---|--------------|-------------------------------------|----------|---------------------------------------|---------------------------|--|--|------------------------------------|---|-----------------------------|--------------------------------------|--|---|
| Municipality / E.A.  | 1999 Pop | SF Curbside (Y/N)   | Depots (Y/N) |                                     | MF (Y/N) | ICI (Y/N)                             | Collection Agency (PU/PR) |  |  | Can/Bag Limits                     | Collection Fees/ Tags for additional pickup (Y/N) | Variable Unit Fees (Y/N)    | Backyard Burning Bans in Place (Y/N) | Date User Pay Strategy was Implemented | Date User Pay Strategy is Planned to be Implemented |
|  |          |   | Staff        | No Staff                            |          |                                       | SF                        | MF   | ICI  |                                    |   |                             |                                      |  |   |
| Campbell Mountain  | 38500    | Y   | Y            | Y                                   | N        | N                                     | PR                        | NA   | N/A  | 5 cans                             | N   | N                           | Y                                    | N/A                                    | N/A   |
| OK Falls   | 3500     | N   | N/A          | Y                                   | N        | N                                     | N/A                       | N/A  | N/A  | N/A                                | N   | N                           |                                      | N/A                                    | N/A   |
| Oliver   | 8800     | N   | N/A          | Y                                   | N        | N                                     | N/A                       | N/A  | N/A  | 2 bags                             |   |                             |                                      | N/A                                    | N/A   |
| Osoyoos  | 6700     |   |              |                                     | N        | N                                     |                           |  |  |                                    |   |                             |                                      | N/A                                    | N/A   |
| Keremeos   | 4300     | N   | N/A          | Y                                   | N        | N                                     | N/A                       | N/A  | N/A  |                                    |   |                             |                                      | N/A                                    | N/A   |
| Princeton  | 5800     | N   |              |                                     | N        | N                                     | N/A                       | N/A  | N/A  |                                    |   |                             |                                      | N/A                                    | N/A   |
| Summerland   | 11,500   | N   | N/A          | Y                                   | N        | N                                     | N/A                       | N/A  | N/A  | N/A                                | N   | N                           |                                      | N/A                                    | N/A   |
|  |          | Composting Programs and Facilities                              |              |                                     |          |                                       |                           |  |  | Waste Reduction Staff (Y/N)        |   |                             |                                      |  |   |
| Municipality /E.A.   | 1999 Pop | Food and/or Yard Waste Collection (Y/N)(Fd/Yd)                  |              | Composting Facilities (Y/N) (PU/PR) |          | Backyard Composter Distribution (Y/N) |                           | Compost Demo Garden (Y/N)  | Estimated Percent of Population with backyard composters | Multi-material Processing Facility |   | Waste Reduction Coordinator | Education Coordinator                | Landfill Manager                       |   |
|  |          | Curbside  | Depot        | Yd                                  | Fd       | In past                               | On-going                  |  |  | Y/N                                | PU/PR   |                             |                                      |  |   |
| Campbell Mountain  | 38500    | YD  | N            | PU                                  | N        | Y                                     | N                         | Y  |  | N                                  | N/A   | 1.5 days/wk                 | N                                    | N                                      |   |
| OK Falls   | 3500     | N   | N            | N                                   | N        | Y                                     | Y                         | N  |  | N                                  | N/A   | N                           | N                                    | N                                      |   |
| Oliver   | 8800     | Y   | N            | YD                                  | N        | Y                                     | Y                         | N  |  | N                                  | N/A   | N                           | N                                    | N                                      |   |
| Osoyoos  | 6700     |   |              |                                     | N        | Y                                     | Y                         | N  |  | N                                  | N/A   | N                           | N                                    | N                                      |   |
| Keremeos   | 4300     | Y   | N            | N                                   | N        | N                                     | N                         | N  |  | N                                  | N/A   | N                           | N                                    | N                                      |   |
| Princeton  | 5800     |   |              |                                     | N        |                                       |                           |  |  | N                                  | N/A   | N                           | N                                    | N                                      |   |
| Summerland   | 11,500   | Y   | N            | YD                                  | N        | Y                                     | N                         | N  |  | N                                  | N/A   | N                           | N                                    | N                                      |   |
| <b>Landfill Disposal Bans and Tipping Fee structure</b><br>Implement tipping fees at Keremeos landfill; increase tipping fees at Oliver Landfill from \$20/tonne to \$30/tonne |          |   |              |                                     |          |                                       |                           | <b>Wood Waste Diversion</b><br>Chip wood waste at OK Falls Landfill and Campbell Mountain Landfill |  |                                    |   |                             |                                      |  |   |

BC Municipal Solid Waste Tracking Report 1999

**Peace River Regional District**

|   |          | Residential Collection of Recyclables (other than compostables) |              |                                     |          |                                       |                           |                           |  | User Pay Strategy                  |   |                             |                                      |  |   |
|---|----------|---|--------------|-------------------------------------|----------|---------------------------------------|---------------------------|---------------------------|--|------------------------------------|---|-----------------------------|--------------------------------------|--|---|
| Municipality / E.A.   | 1999 Pop | SF Curbside (Y/N)   | Depots (Y/N) |                                     | MF (Y/N) | ICI (Y/N)                             | Collection Agency (PU/PR) |                           |  | Can/Bag Limits                     | Collection Fees/ Tags for additional pickup (Y/N) | Variable Unit Fees (Y/N)    | Backyard Burning Bans in Place (Y/N) | Date User Pay Strategy was Implemented | Date User Pay Strategy is Planned to be Implemented |
|   |          |   | Staff        | No Staff                            |          |                                       | SF                        | MF                        | ICI  |                                    |   |                             |                                      |  |   |
| Chetwynd  | 3,059    | N   | 1            | 2                                   | N        | N                                     | PR                        | PR                        | PR   |                                    | N   | N                           |                                      |  |   |
| Dawson Creek  | 11,812   | N   | 1            | 3                                   | N        | N                                     | PR                        | PR                        | PR   | 6                                  | N   | N                           |                                      |  |   |
| Fort St. John   | 16,448   | N   | 1            | 5                                   | N        | N                                     | PR                        | PR                        | PR   | 4                                  | N   | N                           |                                      |  |   |
| Hudson's Hope   | 1,152    | N   |              | 2                                   | N        | N                                     | PR                        | PR                        | PR   |                                    | N   | N                           |                                      |  |   |
| Pouce Coup  | 928      | N   |              | 1                                   | N        | N                                     | PR                        | PR                        | PR   | 3                                  | N   | N                           |                                      |  |   |
| Taylor  | 1,211    | N   |              | 1                                   | N        | N                                     | PR                        | PR                        | PR   | 4                                  | N   | N                           |                                      |  |   |
| Tumbler Ridge   | 2,858    | N   | 1            | 2                                   | N        | N                                     | PR                        | PR                        | PR   | 3                                  | N   | N                           |                                      |  |   |
| E.A. B  |          | N   |              |                                     | N        | N                                     | PR                        | PR                        | PR   | NA                                 | N   | N                           |                                      |  |   |
| E. A C  |          | N   |              | 1                                   | N        | N                                     | PR                        | PR                        | PR   | NA                                 | N   | N                           |                                      |  |   |
| E. A D  |          | N   |              |                                     | N        | N                                     |                           |                           |  | NA                                 | N   | N                           |                                      |  |   |
| E. A E  |          | N   |              |                                     | N        | N                                     |                           |                           |  | NA                                 | N   | N                           |                                      |  |   |
|   |          | Composting Programs and Facilities                              |              |                                     |          |                                       |                           |                           |  | Multi-material Processing Facility |   | Waste Reduction Staff (Y/N) |                                      |  |   |
| Municipality /E.A.  | 1999 Pop | Food and/or Yard Waste Collection (Y/N)(Fd/Yd)                  |              | Composting Facilities (Y/N) (PU/PR) |          | Backyard Composter Distribution (Y/N) |                           | Compost Demo Garden (Y/N) | Estimated Percent of Population with backyard composters | Y/N                                | PU/PR   | Waste Reduction Coordinator | Education Coordinator                | Landfill Manager                       |   |
|   |          | Curbside  | Depot        | Yd                                  | Fd       | In past                               | On-going                  |                           |  |                                    |   |                             |                                      |  |   |
| Chetwynd  | 3,059    | N   | Y-Yd         | N                                   | N        | Y                                     | Y                         | Y                         | 5% overall   | Y                                  | PR  | N                           | Y                                    | Y                                      |   |
| Dawson Creek  | 11,812   | N   | N            | N                                   | N        | Y                                     | Y                         | Y                         |  | Y                                  | PR  | N                           | Y                                    | Y                                      |   |
| Fort St. John   | 16,448   | N   | Y-Yd         | N                                   | N        | Y                                     | Y                         | Y                         |  | Y                                  | PR  | Y                           | Y                                    | Y                                      |   |
| Hudson's Hope   | 1,152    | N   | Y-Yd         | N                                   | N        | Y                                     | Y                         | Y                         |  | N                                  |   | N                           | Y*                                   | N                                      |   |
| Pouce Coup  | 928      | N   | N            | N                                   | N        | Y                                     | Y                         | Y                         |  | N                                  |   | N                           | Y*                                   | N                                      |   |
| Taylor  | 1,211    | N   | N            | N                                   | N        | Y                                     | Y                         | Y                         |  | N                                  |   | N                           | Y*                                   | Y                                      |   |
| Tumbler Ridge   | 2,858    | N   | Y-Yd         | N                                   | N        | Y                                     | Y                         | Y                         |  | Y                                  | PR  | N                           | Y                                    | N                                      |   |
| * An education coordinator for the region is available for presentations ect. |          |   |              |                                     |          |                                       |                           |                           |  |                                    |   |                             |                                      |  |   |

**Waste Reduction Goals and Challenges**

NEAT, a nonprofit organization, has a five year contract for waste reduction education and promotion programs. School programs, newsletters, and websites are some of the methods used to "get the message out."

**Powell River Regional District**

| Municipality / E.A. | 1999 Pop | Residential Collection of Recyclables (other than compostables) |              |                                     |          |                                       |                           |                           |  | User Pay Strategy                  |   |                             |                                      |  |   |
|---------------------|----------|---|--------------|-------------------------------------|----------|---------------------------------------|---------------------------|---------------------------|--|------------------------------------|---|-----------------------------|--------------------------------------|--|---|
|                     |          | SF Curbside (Y/N)   | Depots (Y/N) |                                     | MF (Y/N) | ICI (Y/N)                             | Collection Agency (PU/PR) |                           |  | Can/Bag Limits                     | Collection Fees/ Tags for additional pickup (Y/N) | Variable Unit Fees (Y/N)    | Backyard Burning Bans in Place (Y/N) | Date User Pay Strategy was Implemented | Date User Pay Strategy is Planned to be Implemented |
|                     |          |   | Staff        | No Staff                            |          |                                       | SF                        | MF                        | ICI  |                                    |   |                             |                                      |  |   |
| Municipality        | 13879    | Y   | N            | Y                                   | Y        | Y                                     | PU                        | PU                        | PR   | N/A                                | N   | N                           | Y                                    | N/A                                    | N/A   |
| A                   | 1651     | N   | N            | Y                                   | N        | N                                     | N                         | N                         | N  | N/A                                | N   | N                           | N                                    | N/A                                    | N/A   |
| B                   | 1453     | N   | N            | Y                                   | N        | N                                     | N                         | N                         | N  | N/A                                | N   | N                           | N                                    | N/A                                    | N/A   |
| C                   | 2456     | N   | N            | Y                                   | N        | N                                     | N                         | N                         | N  | N/A                                | N   | N                           | N                                    | N/A                                    | N/A   |
| D                   | 1221     | N   | N            | Y                                   | N        | N                                     | N                         | N                         | N  | N/A                                | N   | N                           | N                                    | N/A                                    | N/A   |
| E                   | 400      | N   | Y            | N                                   | N        | N                                     | N                         | N                         | N  | N/A                                | N   | N                           | N                                    | N/A                                    | N/A   |
|                     |          | Composting Programs and Facilities                              |              |                                     |          |                                       |                           |                           |  | Waste Reduction Staff (Y/N)        |   |                             |                                      |  |   |
| Municipality /E.A.  | 1999 Pop | Food and/or Yard Waste Collection (Y/N)(Fd/Yd)                  |              | Composting Facilities (Y/N) (PU/PR) |          | Backyard Composter Distribution (Y/N) |                           | Compost Demo Garden (Y/N) | Estimated Percent of Population with backyard composters | Multi-material Processing Facility |   | Waste Reduction Coordinator | Education Coordinator                | Landfill Manager                       |   |
|                     |          | Curbside  | Depot        | Yd                                  | Fd       | In past                               | On-going                  |                           |  | Y/N                                | PU/PR   |                             |                                      |  |   |
| Municipality        | 13879    | N   | N            | N                                   | N        | Y                                     | N                         | N                         | 20%  |                                    |   | N                           | N                                    | N                                      |   |
| A                   | 1651     | N   | N            | N                                   | N        | Y                                     | N                         | N                         | 35%  |                                    |   | N                           | N                                    | N                                      |   |
| B                   | 1453     | N   | N            | N                                   | N        | Y                                     | N                         | N                         | 35%  |                                    |   | N                           | N                                    | N                                      |   |
| C                   | 2456     | N   | N            | N                                   | N        | Y                                     | N                         | N                         | 35%  |                                    |   | N                           | N                                    | N                                      |   |
| D                   | 1221     | N   | N            | N                                   | N        | Y                                     | N                         | N                         | 35%  |                                    |   | N                           | N                                    | N                                      |   |
| E                   | 400      | N   | N            | N                                   | N        | Y                                     | N                         | N                         | 35%  |                                    |   | N                           | N                                    | N                                      |   |
| Region wide (except | 13479    | N   | Y            | Y                                   | N        | N/A                                   | N/A                       | N/A                       | N/A  | Y                                  | PR  | N                           | N                                    | N                                      |   |

**Skeena-Queen Charlotte Regional District**

**No Data Returned**

**Squamish-Lillooet Regional District**

**No Data Returned**

**Sunshine Coast Regional District**

|                                |          | Residential Collection of Recyclables (other than compostables) |              |                                     |          |                                       |                                |                           |  | User Pay Strategy                  |   |  |                                      |  |   |
|--------------------------------|----------|---|--------------|-------------------------------------|----------|---------------------------------------|--------------------------------|---------------------------|--|------------------------------------|---|--|--------------------------------------|--|---|
| Municipality / E.A.            | 1999 Pop | SF Curbside (Y/N)   | Depots (Y/N) |                                     | MF (Y/N) | ICI (Y/N)                             | Collection Agency (PU/PR)      |                           |  | Can/Bag Limits                     | Collection Fees/ Tags for additional pickup (Y/N) | Variable Unit Fees (Y/N)   | Backyard Burning Bans in Place (Y/N) | Date User Pay Strategy was Implemented | Date User Pay Strategy is Planned to be Implemented |
|                                |          |   | Staff        | No Staff                            |          |                                       | SF                             | MF                        | ICI  |                                    |   |  |                                      |  |   |
| Sunshine Coast (except Area A) | 24,889   | N   | Y            | Y                                   | N        | N                                     | PR*                            | PR*                       | PR*  | 1                                  | Y   | N  | N                                    | Mar-96                                 |   |
|                                |          |   |              |                                     |          |                                       | *curbside collection           |                           |  |                                    |   |  |                                      |  |   |
|                                |          |   |              |                                     |          |                                       | *depots are contracted by SCRD |                           |  |                                    |   |  |                                      |  |   |
| Area A                         | 2,865    | N   | Y            | Y                                   | N        | N                                     | PR*                            | PR*                       | PR*  | No garbage collection              | NA  | N  | N                                    | NA                                     |   |
|                                |          |   |              |                                     |          |                                       |                                |                           |  |                                    |   |  |                                      |  |   |
|                                |          | Composting Programs and Facilities                              |              |                                     |          |                                       |                                |                           |  | Waste Reduction Staff (Y/N)        |   |  |                                      |  |   |
| Municipality / E.A.            | 1999 Pop | Food and/or Yard Waste Collection (Y/N)(Fd/Yd)                  |              | Composting Facilities (Y/N) (PU/PR) |          | Backyard Composter Distribution (Y/N) |                                | Compost Demo Garden (Y/N) | Estimated Percent of Population with backyard composters | Multi-material Processing Facility |   | Waste Reduction Coordinator                                      | Education Coordinator                | Landfill Manager                       |   |
|                                |          | Curbside  | Depot        | Yd                                  | Fd       | In past                               | On-going                       |                           |  | Y/N                                | PU/PR   |  |                                      |  |   |
| Sunshine Coast (except Area A) | 24,889   | N   | N            | Y-PU                                | N        | Y                                     | Y                              | Y                         | 10%  | N                                  | NA  | Y*   | Y*                                   | Y*                                     |   |
| Area A                         | 2,865    | N   | N            | Y-PU                                | N        | Y                                     | Y                              | Y                         | 10%  | N                                  | NA  | Y*   | Y*                                   | Y*                                     |   |
|                                |          |   |              |                                     |          |                                       |                                |                           |  |                                    |   | *one Solid Waste Management Coordinator fulfills all these roles |                                      |  |   |

**Thompson-Nicola Regional District**

|  |          | Residential Collection of Recyclables (other than compostables) |              |                                     |          |                                       |                           |  | User Pay Strategy  |                                    |   |                             |                                      |  |   |
|--|----------|---|--------------|-------------------------------------|----------|---------------------------------------|---------------------------|--|--|------------------------------------|---|-----------------------------|--------------------------------------|--|---|
| Municipality / E.A.  | 1999 Pop | SF Curbside (Y/N)   | Depots (Y/N) |                                     | MF (Y/N) | ICI (Y/N)                             | Collection Agency (PU/PR) |  |  | Can/Bag Limits                     | Collection Fees/ Tags for additional pickup (Y/N) | Variable Unit Fees (Y/N)    | Backyard Burning Bans in Place (Y/N) | Date User Pay Strategy was Implemented | Date User Pay Strategy is Planned to be Implemented |
|  |          |   | Staff        | No Staff                            |          |                                       | SF                        | MF   | ICI  |                                    |   |                             |                                      |  |   |
| Kamloops   | 81,435   | N   |              | Y                                   | N        | N                                     |                           |  |  | 3                                  | Y   | N                           | Y                                    | 1995                                   |   |
| Merritt  | 8,054    | N   |              | Y                                   | N        | N                                     |                           |  |  | 2                                  | Y   | N                           | Y                                    | 1995                                   |   |
| Ashcroft   | 1,974    | N   | Y            |                                     | N        | N                                     |                           |  |  | 3                                  | Y   | N                           | Y                                    | 1996                                   |   |
| Cache Creek  | 1,145    | N   | Y            |                                     | N        | N                                     |                           |  |  | N/A                                | N   | N                           | N                                    | N/A                                    |   |
| Clinton  | 1,000    | N   | Y            |                                     | N        | N                                     |                           |  |  | N/A                                | N   | N                           | N                                    | N/A                                    |   |
| Lytton   | 1,220    | N   | Y            |                                     | N        | N                                     |                           |  |  | N/A                                | N   | N                           | N                                    | N/A                                    |   |
|  |          | Composting Programs and Facilities                              |              |                                     |          |                                       |                           |  |  | Multi-material Processing Facility |   | Waste Reduction Staff (Y/N) |                                      |  |   |
| Municipality /E.A.   | 1999 Pop | Food and/or Yard Waste Collection (Y/N)(Fd/Yd)                  |              | Composting Facilities (Y/N) (PU/PR) |          | Backyard Composter Distribution (Y/N) |                           | Compost Demo Garden (Y/N)  | Estimated Percent of Population with backyard composters | Y/N                                | PU/PR   | Waste Reduction Coordinator | Education Coordinator                | Landfill Manager                       |   |
|  |          | Curbside  | Depot        | Yd                                  | Fd       | In past                               | On-going                  |  |  |                                    |   |                             |                                      |  |   |
| Kamloops   |          |   | Y-Yd         | Y-PU                                | N        | Y                                     |                           | Y  | 20-25%   | Y                                  | PR  | Y                           | Part-time                            | Y                                      |   |
| Remainder of TNRD  | 46,863   |   | Y-Yd         | N                                   | N        | Y                                     |                           | Y  | 20-25%   | Y                                  | PR  | Y                           | Part-time                            | Y                                      |   |
| <b>Landfill Disposal Bans and Tipping Fee structure</b>  |          |   |              |                                     |          |                                       |                           | <b>Wood Waste Diversion</b>  |  |                                    |   |                             |                                      |  |   |
| TNRD and Cache Creek Landfill tipping fees are based on the volume of the incoming load and are charged for DLC only. They range from \$31 to \$103 per load |          |   |              |                                     |          |                                       |                           | TNRD Landfills -- wood waste is shipped and used as cover material.<br>Mission Flats and Barmbartvale Landfills -- wood waste is shipped and hauled to the City of Kamloops central composting site. |  |                                    |   |                             |                                      |  |   |