

# BC Municipal Solid Waste Tracking Report 2000

**Prepared by:**



**Ministry of Water, Land and Air Protection**

April, 2002



## Acknowledgement

The Ministry of Water, Land and Air Protection and the Recycling Council of BC would like to thank the regional district and stewardship agency staff who participated in the completion of this report by supplying data. We greatly appreciate their cooperation and efforts, as without their input this project would not have been 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 2000 municipal solid waste (MSW) tracking data provided by regional districts to the Ministry of Water, Land and Air Protection (WLAP), formerly the Ministry of Environment Lands and Parks. The report also provides a province-wide update on regional waste management initiatives.

In 2000, the provincial disposal rate was **0.618** tonnes per capita. This represents a **29.7%** reduction in the per capita amount of MSW requiring disposal, compared to 1990, and confirms that the province fell short of its MSW reduction goal.

The rate for 2000 is considerably lower than the rate reported in the 1999 Tracking Report. This is the result of a change to the 1990 base disposal rate resulting from a revised 1990 population estimate by BC STATS, not an actual increase in per capita waste disposed. The 2000 disposal rate changed only nominally from 1999 and continues the trend established in 1998, if not earlier. Use of the BC STATS revised population estimate caused the 1990 disposal rate to change from **0.944** to **0.879** tonnes per capita.

Between 1990 and 2000, the total waste disposed per year dropped from 2,890,516 tonnes to 2,509,112 tonnes, a reduction of **13%**. During the same period of time the provincial population increased by **24%**.

Compared to 1999 when the disposal rate was **0.622** tonnes/capita, there was a **0.2%** increase in the total amount of MSW landfilled and incinerated and a **0.9%** increase in the population.

The provincial per capita recycling rate was **0.452** tonnes per capita in 2000, a **1.7%** increase compared to 1999. As in previous years, this figure under-estimates the amount of recycling occurring, as it does not include all the materials recycled by private firms.

Part of the increase in the recycling rate since 1998 is the result of including most of the material recycled by provincial and stewardship programs in the 1999 and 2000 figures. In 2000, 150,533 tonnes of material were recycled through regulated industry stewardship programs as well as provincially run initiatives. This material represents **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.

Nineteen regional districts had per capita disposal rates lower (better) than the provincial rate, and four regional districts achieved per capita disposal rate reductions greater than 50%, compared to their 1990 base rate.

## **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 Water Land and Air Protection (WLAP), formerly the Ministry of Environment Lands, and Parks, 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 (**R**educe, **R**euse, **R**ecycle, **R**ecover and **R**esidual management.)

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 is 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 WLAP on the per capita amount of MSW requiring disposal for the plan area.

In 1990, WLAP 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 WLAP, based on data supplied by the regional districts.

Since 1996, Recycling Council of BC (RCBC) has prepared the tracking reports under contract to WLAP. RCBC is a multi-sectoral, non-profit organization which 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 was 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 expected that each regional district would 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 2000 MSW tracking results as provided by the regional districts to determine if the provincial waste reduction goal has been achieved. This report, like the ones for 1996 and 1999, also provides the results of a questionnaire on regional MSW management initiatives.

### **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.

Conversely, regional districts are often unable to measure all of the waste 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. The data for recycled waste therefore 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 not staffed 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 Disposal and Population Data 1990-2000**

Given the different methodology used in the MSW Tracking Reports for 1990-1995, in terms of what data were collected and how missing data were treated, until now it was not considered appropriate to compare these data with data produced in the 1996 and subsequent reports. In the 1997/98 Report, the 1990 provincial disposal rate was recalculated by estimating disposal rates for regional districts with missing or anomalous data based on the range of values in various reports, comparison with regional districts with similar population density and waste reduction efforts and any updated information received from regional districts.

In an effort to compare the 1991-1995 disposal rate data with the 1996-2000 data to the greatest extent possible, missing or anomalous data in the 1991-1995 reports were estimated using the same methodology used for the 1990 data in the 1997/98 Report. The resulting data points are shown in the chart in section 3.1.4, with breaks between 1990 and 1991 and between 1995 and 1996 to indicate that these two sets of data cannot absolutely be compared. The regional district data sheet is included in Appendix B.

In December 1998, BC STATS revised the provincial and regional district population totals for 1986-1996. The 1990 population figure was changed from 3,063,419 to 3,291,379. While in previous reports the provincial disposal rate reduction was calculated using the 3,063,419 population figure, for the purposes of this report, the revised 1990 population total, minus the Stikine population, is used in calculating the provincial baseline disposal rate. The populations were obtained from the BC STATS website ([www.bcstats.gov.bc.ca/data/pop/EstsPop.htm](http://www.bcstats.gov.bc.ca/data/pop/EstsPop.htm)). The resulting baseline disposal rate of **0.879** tonnes per capita has also been used to recalculate the reductions in the disposal rates for 1996-1999, as shown in section 3.1.3.

## **2.2 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 and 2000 Tracking Reports, calculations for regional districts that did not supply disposal data were based on the assumption that regional waste per capita disposal rates had not changed from the last year with good data. Accordingly, the total waste disposed value for each regional district with missing data was calculated by multiplying its 1998 or 1999 disposal rate by its 2000 population.

## **2.3 Collection of 2000 Data**

The format of the 2000 data collection sheet was not significantly modified from that used previously in the 1999 study. 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 A.

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.'

Several regional districts had developed revised disposal and recycling data for previous years, and submitted that data in response to the invitation to submit any revised data included with the data form. The totals for some years were revised accordingly in the summary chart in section 3.1.3.

### 2.3.1 Disposal Data

Three regional districts did not submit any and one regional district provided only partial disposal data for the 2000 report, with their combined population being 3% of the provincial total. The missing disposal rates for these regional districts were estimated using the method described in Section 2.1. In the case of the regional district that provided data for only some of its landfills, a disposal rate was calculated for the last year with reported data for each missing landfill and that rate was multiplied by the 2000 population for that landfill. Regional district disposal rates calculated using these methods are labelled as 'Estimated Per Capita Disposal Rate.'

### 2.3.2 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.

### 2.3.3 Collection of Provincial Stewardship Program Data

In order to provide a more complete picture of the amount of material recycled in BC, WLAP 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 2000 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 obtain data on amounts of material collected 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.

## 2.4 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 the data on the amount recycled was available, the per capita recycling rate was calculated as follows:

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

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:

$$\text{Total MSW Generated} = \text{MSW Recycled} + \text{MSW Disposed}$$

For the provincial figures, the BC STATS estimate of the 2000 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

The provincial disposal rate in 2000 was **0.618** tonnes per capita, which is a nominal change from 1999 (**0.622**).

As noted in Section 2.1 the 1990 population value used in this report has been increased from the value used in the 1998 and subsequent reports based on revisions to provincial population estimates for 1990 by BC STATS. This changes the 1990 baseline reduction rate from **0.944** used previously to **0.879** tonnes per capita. Consequently, the disposal rate in 2000 represents a **29.7%** reduction compared to 1990 instead of a 34.5% reduction based on **0.944** tonnes per capita. This confirms that the province fell short of the goal set in 1989 of a 50% reduction of the per capita disposal rate, and by an even larger margin than anticipated before the change in the base year population.

The actual percentage reduction is perhaps not as important as the indication, from the chart in Section 3.1.4, that the disposal rate over time curve has essentially been flat since 1998, and possibly longer. The variations shown for previous years, at least to 1996, may not be significant in consideration of the margin for error in calculations based on a combination of weighed, estimated and interpolated data. The curve from 1991 to 1995 may also be closer to flat, at a higher level which may be attributed to the difference in tracking methodology used for the 1991 through 1995 reports.

The reason why the provincial disposal rate reduction has remained stable at about 30% for several years 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, DLC and ICI, components of MSW that contributed large volumes to the amount of waste disposed in BC (see Appendix A).

Comparing 2000 to 1999, there was a **0.2% increase** in the total amount of MSW disposed in landfills and a **0.9% increase** in the population. Table 1 illustrates the percentage of the provincial population that resides in regional districts where the total waste disposed and per capita waste disposed increased, decreased or remained virtually the same.

**Table 1:** Changes in the amount of waste disposed in landfills and per capita disposal rate by regional district from 1999 to 2000

	Increase in Total Waste Disposed	Decrease in Total Waste Disposed	0-1% Change	Increase in Tonnes Per Capita Disposed	Decrease in Tonnes Per Capita Disposed	0-1% Change
Number of Regional Districts	10	8	9	11	12	4
Percentage of BC Population*	29	13	57	27	66	6

\*Does not add to 100 due to rounding

Between 1990 and 2000, the total waste disposed per year dropped from 2,890,516 tonnes to 2,509,112 tonnes, a **13%** reduction. During the same period of time the provincial population increased by **24%**.

The provincial per capita recycling rate was **0.452** tonnes in 2000, a **1.7%** increase compared to 1999.

### 3.1.2 Provincial Stewardship Data

In 2000, 150,530 tonnes of material were recycled through regulated industry stewardship programs as well as provincially run initiatives. This material accounts for

8.2%, 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 2000

	Stewardship Program	Amount Recovered	Units	Reporting Period
Regulated Industry Stewardship Programs	Beverage Containers-Encorp <sup>1</sup>	26,072	tonnes	Calendar 2000
	Beverage Containers-Brewer's Distributor Ltd.	504,834,516	containers	Apr 00-Mar 01
	Beverage Containers-Liquor Distribution Branch	37,000	tonnes	Apr 00-Mar 01
	Paint	4,000,000	equivalent litre containers	Calendar 2000
	Pharmaceuticals <sup>2</sup>	4490.1	kg	Apr 00-Dec 00
	Residuals	150,000	equivalent litre containers	Calendar 2000
	Lubricating Oil	46,279	tonnes	Apr 00-Mar 01
Provincial Programs	Tires	28,074	tonnes	Apr 00-Mar 01
	Lead-Acid Batteries	13,104	tonnes	Apr 00-Mar 01
	<b>TOTAL</b>	<b>150,533</b>	tonnes	

### 3.1.3 Provincial MSW Data Summary

Please see next page for MSW disposal and recycling data for the province, as the sum of regional district totals. As noted earlier, the totals for 1996-1999 may be slightly different than the totals in the respective reports for those years.

<sup>1</sup> Calculated from data posted <http://www.encorpinc.com/html/encp5100.htm>.

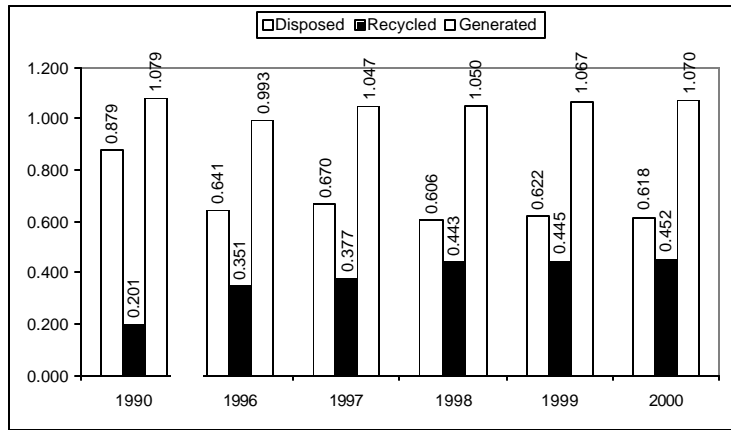
<sup>2</sup> Ron Driedger, Pollution Prevention and Remediation Branch, *Director's Reports :Industry Product Stewardship in British Columbia*, <http://wlapwww.gov.bc.ca/epd/epdpa/ips/index.html> .

**British Columbia Municipal Solid Waste Data Summary**

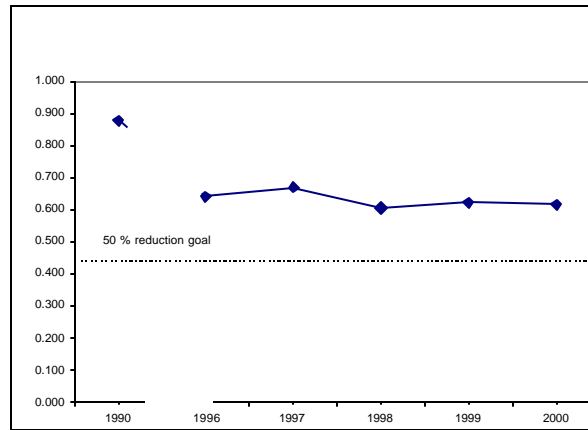
Year	Population	% change from prev yr	Total waste disposed (in tonnes)	% change from prev yr	Tonnes per capita disposed	% change from 1990	Total waste recycled (in tonnes)	% change from prev yr	Tonnes per capita recycled	% change from prev yr	Total waste generated (in tonnes)	% change from prev yr	Tonnes per capita generated	% change from prev yr
1990	3,289,259		2,890,516		0.879		659,764		0.201		3,550,280		1.079	
1996	3,880,593		2,488,741		0.641	-27.0	1,363,721		0.351		3,852,462		0.993	
1997	3,958,217	2.0	2,650,108	6.5	0.670	-23.8	1,493,022	9.5	0.377	7.3	4,143,130	7.5	1.047	5.4
1998	3,996,030	1.0	2,423,524	-8.5	0.606	-31.0	1,771,813	18.7	0.443	17.5	4,195,337	1.3	1.050	0.3
1999	4,026,657	0.8	2,504,667	3.3	0.622	-29.2	1,790,666	1.1	0.445	0.3	4,295,333	2.4	1.067	1.6
2000	4,062,270	0.9	2,509,112	0.2	0.618	-29.7	1,837,381	2.6	0.452	1.7	4,346,492	1.2	1.070	0.3

% reduction in per capita disposal from 1990 rate : **-29.7** in 2000

Tonnes Per Capita Disposed, Recycled and Generated



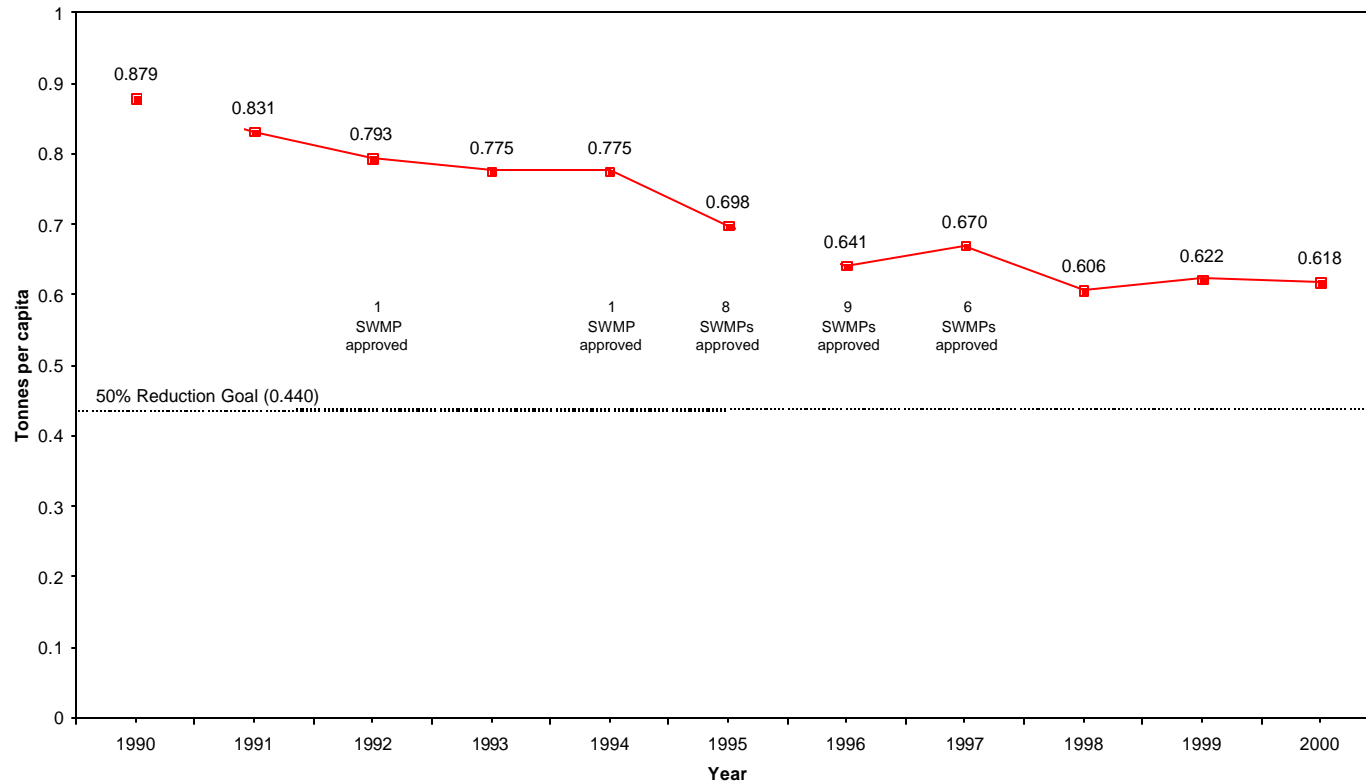
Tonnes Per Capita Disposed



**Source of data:**

1. The numerator of the 1990 baseline per capita MSW disposal rate was established in the 1998 MSW Tracking Report and the denominator revised in this report as the result of changes to the 1990 provincial population estimates by BC STATS. This baseline rate includes demolition, land-clearing and construction refuse.
2. Other data were compiled from previous MSW tracking reports, with per capita disposal rate reduction percentages for 1996-1999 revised using the new 1990 baseline rate.
3. All regional districts provided their own data, except Cariboo, Central Coast and Kitimat-Stikine, which provided no disposal data, and Okanagan-Similkameen, which provided data for only 2 of its 7 landfills. See Section 2.2 for an explanation of how the disposal figures for these regional districts were estimated.
4. 2000 BC population estimates are from BC STATS

3.1.4 British Columbia, Tonnes Per Capita Disposed, 1990 -2000



\*Note: Please see Section 2.1 and the table in Appendix B for an explanation of the disposal rate data for 1990 -1995. The 1996-2000 data is from the tracking reports for those years, as reported in Section 3.1.3 SWMP means Solid Waste Management Plan.

### 3.2 Regional MSW Overview

#### 3.2.1 Regional District MSW Trends

Although the provincial disposal rate reduction fell short of 50%, four regional districts achieved disposal rate reduction in 2000 compared to 1990 of greater than 50%, and four more achieved reductions of 46-47%.

The adjacent chart shows the per capita disposal rates for all regional districts in order of increasing disposal rate. This shows that the per capita disposal rates of 19 regional districts, comprising 38.1% of the provincial population, were lower (better) than the provincial rate.

A summary of per capita disposal rates for all regional districts in 1990 and 1996-2000 and separated into two groups based on population for the purposes of ranking is included in Appendix B.

In any comparison among regional districts it should be recognized that regionally specific circumstances, resources and infrastructure are paramount in determining the capacity of each regional district to province waste diversion programs.

**Table 3: Per Capita Disposal Rates, 2000**

Rank	Regional District	disposal rate (tonne/capita)
1	Powell River	0.251
2	Central Kootenay	0.301
3	Central Coast	0.350
4	Cariboo	0.360
5	Cowichan Valley	0.366
6	Nanaimo	0.406
7	Capital	0.408
8	Columbia Shuswap	0.408
9	Sunshine Coast	0.423
10	Comox-Strathcona	0.463
11	Kitimat-Stikine	0.469
12	Kootenay Boundary	0.474
13	Fraser Valley	0.502
14	Alberni-Clayoquot	0.511
15	Mount Waddington	0.528
16	Skeena-Queen Charlotte	0.541
17	North Okanagan	0.551
18	Thompson-Nicola	0.582
19	Bulkley-Nechako	0.610
20	Central Okanagan	0.643
21	Squamish-Lillooet	0.651
22	Fraser-Fort George	0.711
23	Greater Vancouver	0.713
24	East Kootenay	0.716
25	Peace River	0.764
26	Okanagan-Similkameen	1.057
27	Northern Rockies	1.088
	<b>Province</b>	<b>0.618</b>

### 3.2.1.1 2000 Data

Twenty-three of the 27 regional districts returned MSW disposal data for the year 2000. Two of these regional districts, Central Coast and Okanagan-Similkameen, provided other data. The two regional districts that did not submit data, Cariboo and Kitimat-Stikine, 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.

In 2000, **76%** of the waste disposed was weighed at regional facilities. The remaining **24%** was quantified using conversions of volumes to mass or other estimation techniques. Landfilling accounted for **67%** of the waste disposed while the other **33%** 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 is estimated.

### 3.2.1.2 Waste Disposal Facilities

In 2000, there were **102** landfills operating within BC, compared to 236 in 1988. Of this total, **65%** charge tipping fees, which range from \$2-140 per tonne, and **38%** have weigh scales. Only **18%** operate with no staff present. **Eighty percent** of the landfills accept DLC waste, **40%** have a salvage area open to the public and **36%** 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 2000. **Two** regional districts made significant progress on the implementation of their SWMP, such that its state of implementation status increased. **Seventeen** regional districts have an approved SWMP that has been implemented between 76 and 100%.

The Central Coast and East Kootenay regional districts did not have an approved plan for the whole regional district in 2000.

## 3.2.2 Regional District Data

Please see next page.

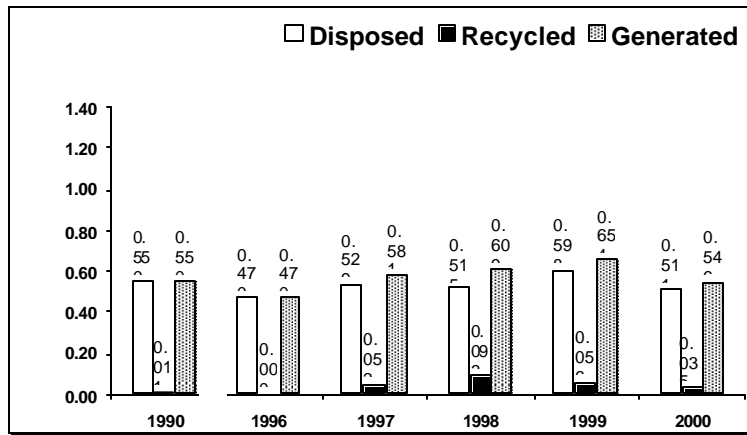
Alberni-Clayoquot Regional District

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

Year	Population	% change from prev yr	Total waste disposed (in tonnes)	% change from prev yr	Tonnes per capita disposed	% change from 1990	Total waste recycled (in tonnes)	% change from prev yr	Tonnes per capita recycled	% change from prev yr	Total waste generated (in tonnes)	% change from prev yr	Tonnes per capita generated	% change from prev yr
1990	30,257		16,641		0.550		332		0.011		16,973		0.550	
1996	30,000		14,097		0.470	-15	0		0.000		14,097		0.470	
1997	28,824	-4	15,254	8	0.529	-4	1,500	-	0.052	-	16,754	19	0.581	24
1998	26,914	-7	13,874	-9	0.515	-6	2,513	68	0.093	79	16,387	-2	0.609	5
1999	34,000	26	20,336	47	0.598	9	1,893	-25	0.056	-40	22,229	36	0.654	7
2000	34,000	0	17,358	-15	0.511	-7	1,202	-36	0.035	-36	18,560	-17	0.546	-17

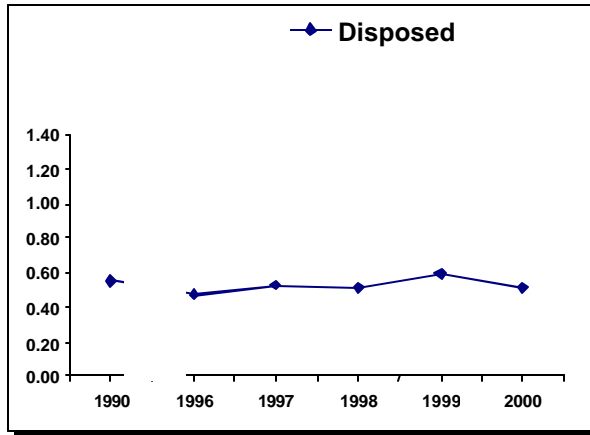
Approved solid waste management Yes SWMP State of 51-75% Date SWMP approved: Feb. 13, 1997

Tonnes Per Capita Recycled and



Data status: Confirmed by Regional District

Tonnes Per Capita



Source of the Data: 1990 Groupina/previous MSW reports  
 1996 Regional District  
 1997 Regional District  
 1998 Regional District  
 1999 Regional District  
 2000 Regional District

Note: 1. 1991-1995 data compiled using different methodology.



**Regional District of Bulkley-Nechako**

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

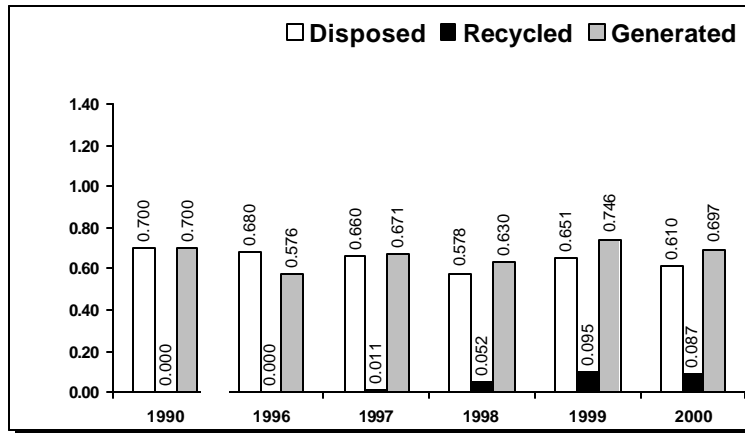
Year	Population	% change from prev yr	Total waste disposed (in tonnes)	% change from prev yr	Tonnes per capita disposed	% change from 1990	Total waste recycled (in tonnes)	% change from prev yr	Tonnes per capita recycled	% change from prev yr	Total waste generated (in tonnes)	% change from prev yr	Tonnes per capita generated	% change from prev yr
1990	37,136		25,995		0.700		0		0.000		25,995		0.700	
1996	43,047		29,272		0.680	-3	1		0.000		29,273		0.576	
1997	41,642	-3	27,493	-6	0.660	-6	451	45000	0.011	46522	27,944	-5	0.671	17
1998	42,899	3	24,789	-10	0.578	-17	2,237	396	0.052	381	27,026	-3	0.630	-6
1999	43,545	2	28,337	14	0.651	-7	4,131	85	0.095	82	32,468	20	0.746	18
2000	44,204	2	26,964	-5	0.610	-13	3,866	-6	0.087	-8	30,830	-5	0.697	-6

Approved solid waste management plan: Yes

SWMP State of implementation: 0-25%

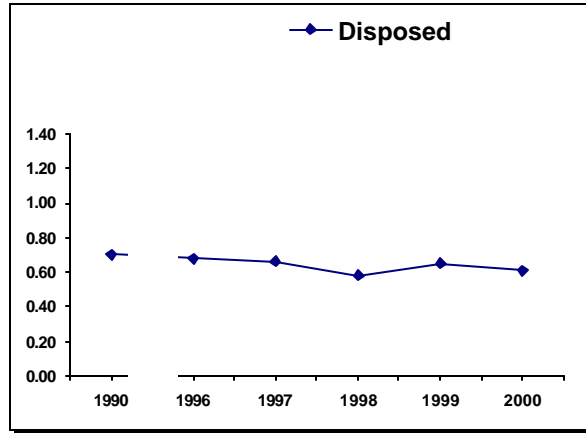
Date SWMP approved: November 1, 1997

Tonnes Per Capita Recycled and Disposed



Data status: Confirmed by Regional District

Tonnes Per Capita Disposed



Source of the Data: 1990 Grouping/Previous MSW Tracking reports  
 1996 Grouping/Previous MSW Tracking reports  
 1997 Regional District  
 1998 Regional District  
 1999 Regional District  
 2000 Regional District

Note: 1. 1991-1995 data compiled using different methodology.

BC Municipal Solid Waste Tracking Report 2000

**Regional District of Bulkley-Nechako**

Disposed Waste Breakdown by Facility Type														
Disposal Facility	Disposal Method (LF/IN/XP/TS)	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)			1999	2000	
Burns Lake	LF	N/A	Y	Y	N	Y	N	N	N	2004	N/A	3,319	3,164	
Ft. Fraser	LF	N/A	Y	Y	N	Y	N	N	N	2003	N/A	260	248	
Fort St. James	LF	N/A	Y	Y	Y	N	N	N	N	2001	N/A	3,546	3,348	
Fraser Lake	LF	N/A	Y	Y	N	Y	N	N	N	2003	N/A	2,145	2,044	
Granisle	LF	N/A	Y	Y	N	Y	N	N	N	2005	N/A	303	289	
Knockholt	LF	N/A	Y	Y	N	Y	N	N	N	2050	748,700	3,468	3,305	
Manson Creek	LF	N/A	N	Y	N	N	N	N	N	2010	N/A	40	31	
Smithers/Telkwa T.S.	XP	N/A	Y	Y	Y	N	Y	N	N	N/A	N/A	8,422	8,028	
Southside	XP	N/A	N	N	N	N	N	N	N	N/A	N/A	1,267	1,212	
Vanderhoof	LF	N/A	Y	Y	N	N	N	N	N	2002	N/A	5,567	5,296	
<b>Total</b>												<b>28,337</b>	<b>26,964</b>	

Recycled Waste Breakdown		
Class	Sub-Class	2000 Total (tonnes)
Glass	Co-mingled	3.0
	White Goods	240.0
Metal	Other	698.0
Organic	Food	
	Yard	
Paper	OCC	40.0
	ONP	
	Fine	
Plastic	Mixed	5.0
	Co-mingled	
DLC	Sorted	
	Wood	2880.0
DLC	Gypsum	
	Concrete	
DLC	Asphalt Shingles	
Other	Specify	
<b>TOTAL</b>		<b>3866.0</b>
<b>TOTAL RECYCLED PER CAPITA (tonnes)</b>		<b>0.087</b>

**Notes, Challenges and Disposal Programs of Significance**

Population derived from Census 1996 figures, and an 1.5 percentage growth each year. Therefore, the population is estimated at 1.5 percent higher than 1999. The yardwaste and OCC collection programs are all public, but municipally run. Data for these programs could not be obtained for this report.

**Capital Regional District**

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

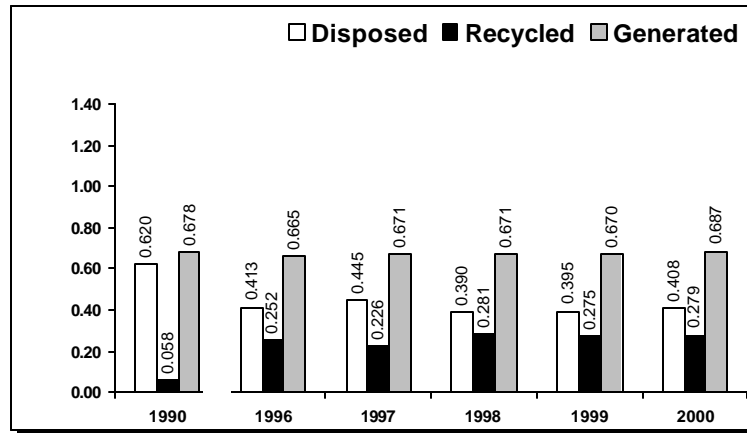
Year	Population	% change from prev yr	Total waste disposed (in tonnes)	% change from prev yr	Tonnes per capita disposed	% change from 1990	Total waste recycled (in tonnes)	% change from prev yr	Tonnes per capita recycled	% change from prev yr	Total waste generated (in tonnes)	% change from prev yr	Tonnes per capita generated	% change from prev yr
1990	291,880		180,966		0.620		16,959		0.058		197,925		0.678	
1996	328,880		135,869		0.413	-33	82,774		0.252		218,643		0.665	
1997	329,135	0	146,442	8	0.445	-28	74,408	-10	0.226	-10	220,850	1	0.671	1
1998	334,871	2	130,604	-11	0.390	-37	94,094	26	0.281	24	224,698	2	0.671	0
1999	339,643	1	134,257	3	0.395	-36	93,341	-1	0.275	-2	227,598	1	0.670	0
2000	334,940	-1	136,654	2	0.408	-34	93,310	0	0.279	1	229,964	1	0.687	2

Approved solid waste management plan: Yes

SWMP State of implementation: 76-100%

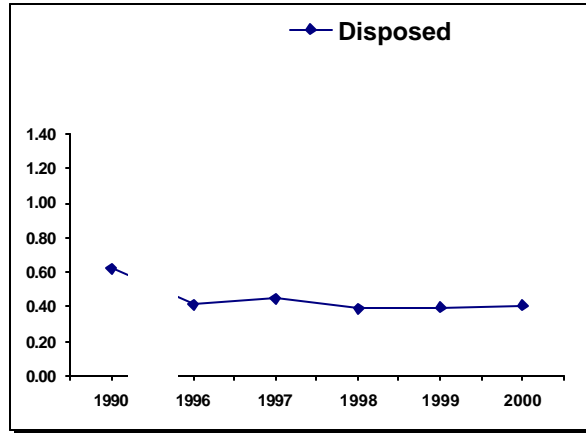
Date SWMP approved: December 22, 1995

**Tonnes Per Capita Recycled and Disposed**



Data status: Confirmed by Regional District

**Tonnes Per Capita Disposed**



Source of the Data: 1990 Grouping/Previous MSW Tracking reports  
 1996 Regional District  
 1997 Regional District  
 1998 Regional District  
 1999 Regional District  
 2000 Regional District

Note: 1. 1991-1995 data compiled using different methodology.



**Cariboo Regional District**

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

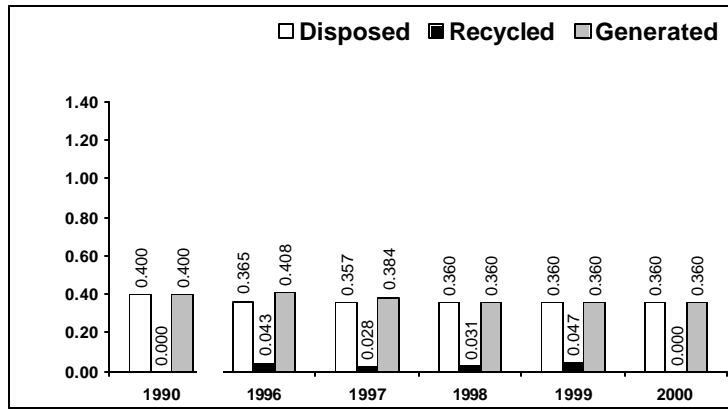
Year	Population	% change from prev yr	Total waste disposed (in tonnes)	% change from prev yr	Tonnes per capita disposed	% change from 1990	Total waste recycled (in tonnes)	% change from prev yr	Tonnes per capita recycled	% change from prev yr	Total waste generated (in tonnes)	% change from prev yr	Tonnes per capita generated	% change from prev yr
1990	58,641		23,456		0.400		0		0.000		23,456		0.400	
1996	69,192		25,261		0.365	-9	2,993		0.043		28,254		0.408	
1997	66,607	-4	23,751	-6	0.357	-11	1,852	-38	0.028	-36	25,603	-9	0.384	-6
1998	73,024	10	24,056	1	0.360	-10	2,232	21	0.031	10	26,288	3	0.360	-6
1999	72,988	0	22,867	-5	0.360	-10	3,397	52	0.047	52	26,264	0	0.360	0
2000	73,549	1	26,466	16	0.360	-10	No Data	-	No Data	-	26,466	1	0.360	0

Approved solid waste management plan: Yes

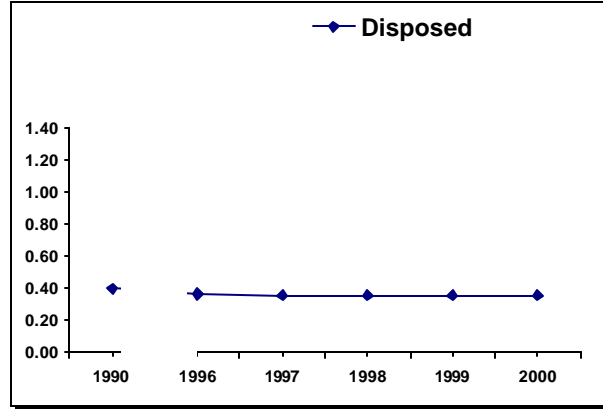
SWMP State of implementation: 76-100%

Date SWMP approved: October 24, 1995

Tonnes Per Capita Recycled and Disposed



Tonnes Per Capita Disposed



Data status: See note on source of 2000 data

Source of the Data: 1990 Grouping/Previous MSW Tracking reports  
 1996 Regional District  
 1997 Regional District  
 1998 Regional District  
 1999 Regional District  
 2000 Estimated Per Capita Disposal Rate

Note: 1. 1991-1995 data compiled using different methodology.

BC Municipal Solid Waste Tracking Report 2000

**Cariboo Regional District**

**Disposed Waste Breakdown by Facility Type**

Disposal Facility	Disposal Method (LF/IN/XP/TS)	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)			1999	2000
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>22,867</b>	<b>26,466</b>

**Recycled Waste Breakdown**

Class	Sub-Class	2000 Total (tonnes)
Glass	Co-mingled	
Metal	White Goods	
	Other	
Organic	Food	
	Yard	
Paper	OCC	
	ONP	
	Fine	
	Mixed	
Plastic	Co-mingled	
	Sorted	
DLC	Wood	
	Gypsum	
	Concrete	
	Asphalt Shingles	
Other	Specify	
<b>TOTAL</b>		No data
<b>TOTAL RECYCLED PER CAPITA (tonnes)</b>		No data

**Notes, Challenges and Disposal Programs of Significance**

Disposed Waste Breakdown by Facility Type from 1999 data.

Central Coast Regional District

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

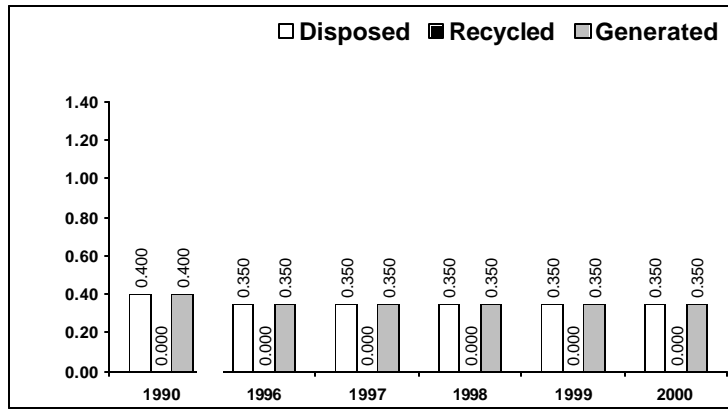
Year	Population	% change from prev yr	Total waste disposed (in tonnes)	% change from prev yr	Tonnes per capita disposed	% change from 1990	Total waste recycled (in tonnes)	% change from prev yr	Tonnes per capita recycled	% change from prev yr	Total waste generated (in tonnes)	% change from prev yr	Tonnes per capita generated	% change from prev yr
1990	3,500		1,400		0.400		0		0.000		1,400		0.400	
1996	4,055		1,419		0.350	-13	No data		No data		1,419		0.350	
1997	4,310	6	1,509	6	0.350	-13	No data	-	No data	-	1,509	6	0.350	0
1998	3,921	-9	1,372	-9	0.350	-13	No data	-	No data	-	1,372	-9	0.350	0
1999	4,320	10	1,512	10	0.350	-13	No data	-	No data	-	1,512	10	0.350	0
2000	4,332	0	1,516	0	0.350	-13	No data	-	No data	-	1,516	0	0.350	0

Approved solid waste management plan: No

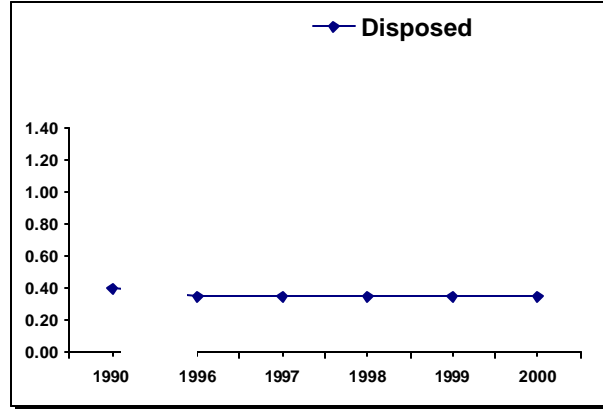
SWMP State of implementation: N/A

Date SWMP approved: N/A

Tonnes Per Capita Recycled and Disposed



Tonnes Per Capita Disposed



Data status: Confirmed by Regional District

Source of the Data: 1990 Grouping/Previous MSW Tracking reports  
 1996 Grouping/Previous MSW Tracking reports  
 1997 Grouping/Previous MSW Tracking reports  
 1998 Grouping/Previous MSW Tracking reports  
 1999 1998 Per Capita Disposal Rate  
 2000 Estimated Per Capita Disposal Rate

Note: 1. 1991-1995 data compiled using different methodology.



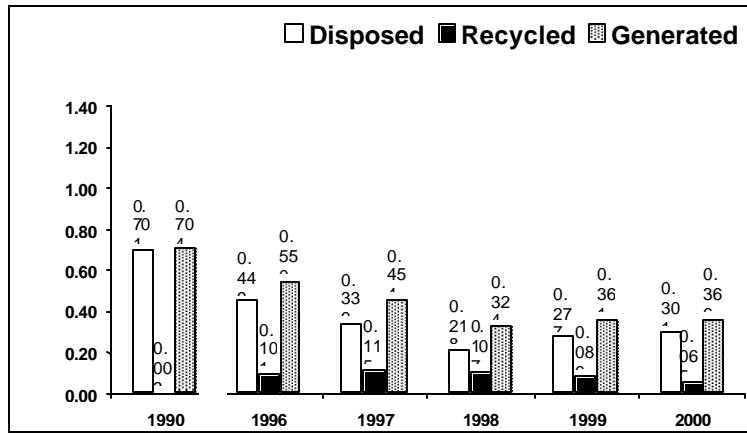
Central Kootenay Regional District

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

Year	Population	% change from prev yr	Total waste disposed (in tonnes)	% change from prev yr	Tonnes per capita disposed	% change from 1990	Total waste recycled (in tonnes)	% change from prev yr	Tonnes per capita recycled	% change from prev yr	Total waste generated (in tonnes)	% change from prev yr	Tonnes per capita generated	% change from prev yr
1990	49,587		34,760		0.701		148		0.003		34,908		0.704	
1996	58,099		26,083		0.449	-36	5,889		0.101		31,972		0.550	
1997	60,725	5	20,591	-21	0.339	-52	6,988	19	0.115	14	27,579	-14	0.454	-17
1998	61,602	1	13,421	-35	0.218	-69	6,566	-6	0.107	-7	19,987	-28	0.324	-29
1999	61,466	0	17,039	27	0.277	-60	5,296	-19	0.086	-19	22,218	11	0.361	11
2000	61,790	1	18,600	9	0.301	-57	4,018	-24	0.065	-25	22,618	2	0.366	1

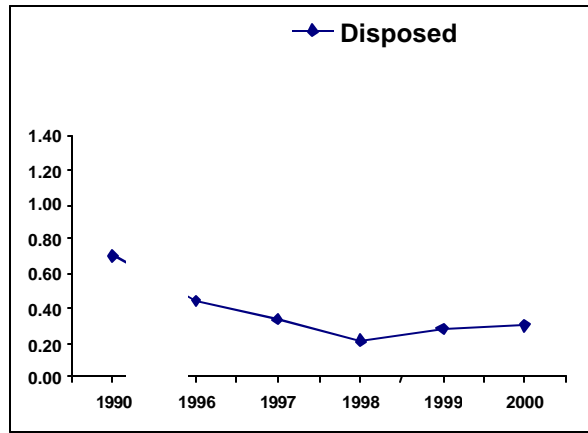
Approved solid waste management Yes SWMP State of 76-100% Date SWMP approved: July 12, 1996

Tonnes Per Capita Recycled and



Data status: Confirmed by Regional District

Tonnes Per Capita



Source of the Data: 1990 Groupina/Previous MSW Tracking Reports  
 1996 Regional District  
 1997 Regional District  
 1998 Regional District  
 1999 Regional District  
 2000 Regional District

Note: 1. 1991-1995 data compiled using different methodology.

BC Municipal Solid Waste Tracking Report 2000

**Central Kootenay Regional District**

**Disposed Waste Breakdown by Facility Type**

Disposal Facility	Disposal Method (LF/IN/XP/TS)	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)			1999	2000
Boswell	LF	\$12/cubic metre	Y	Y	N	N	N	NA	N	2002	NA	60	200
Canex	LF	\$65/tonne	Y	Y	N	Y	Y	NA	N	2050	750,000	7,410	6,500
Creston	LF	\$12/cubic metre	Y	Y	N	N	N	NA	N	2050	350,000	1,274	4,000
Nakusp	LF	\$12/cubic metre	Y	Y	N	Y	N	NA	N	2025	50,000	616	1,200
Ootischenia	LF	\$60/tonne	Y	Y	N	Y	Y	NA	N	2025	280,000	7,500	6,500
Rosebery	LF	\$12/cubic metre	Y	Y	N	N	N	NA	N	2002	NA	179	200
Balfour	TS	\$12/cubic metre	Y	Y	N	NA	N	NA	N	NA	NA		
Burton	TS	\$12/cubic metre	Y	Y	N	NA	N	NA	N	NA	NA		
Crawford Bay	TS	\$12/cubic metre	Y	Y	N	NA	N	NA	N	NA	NA		
Edgewood	TS	\$12/cubic metre	Y	Y	N	NA	N	NA	N	NA	NA		
Kaslo	TS	\$12/cubic metre	Y	Y	N	NA	N	NA	N	NA	NA		
Marblehead	TS	\$12/cubic metre	Y	Y	N	NA	N	NA	N	NA	NA		
Nelson	TS	\$12/cubic metre	Y	Y	N	NA	Y	NA	N	NA	NA		
Slocan	TS	\$12/cubic metre	Y	Y	N	NA	N	NA	N	NA	NA		
Ymir	TS	\$12/cubic metre	Y	Y	N	NA	N	NA	N	NA	NA		
<b>Total</b>												<b>17,039</b>	<b>18,600</b>

**Recycled Waste Breakdown**

Class	Sub-Class	2000 Total (tonnes)
Glass	Co-mingled	153.0
Metal	White Goods	
	Other	700.0
Organic	Food	
	Yard	100.0
Paper	OCC	900.0
	ONP	
	Fine	
	Mixed	1370.0
Plastic	Co-mingled	
	Sorted	45.0
DLC	Wood	750.0
	Gypsum	
	Concrete	
	Other	
Other	Specify	
<b>TOTAL</b>		4018.0
<b>TOTAL RECYCLED PER CAPITA (tonnes)</b>		0.065

**Notes, Challenges and Disposal Programs of Significance**

\*The figures listed do not include materials recycled by the private sector.  
 \*Balfour, Marblehead, Nelson, Ymir, 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.  
 \*Crawford Bay waste is hauled to Creston.

Central Okanagan Regional District

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

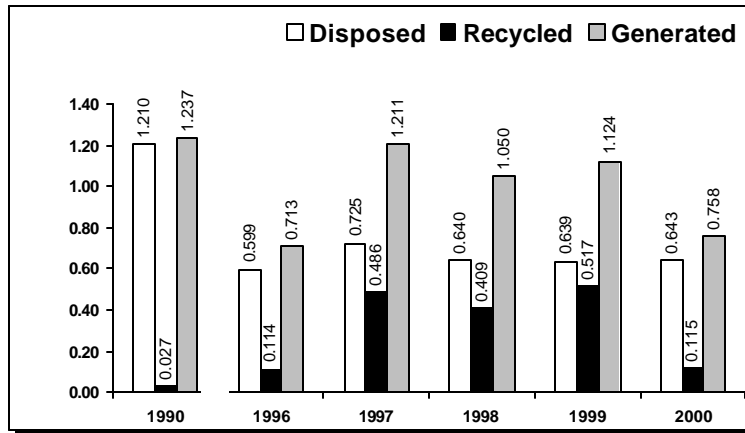
Year	Population	% change from prev yr	Total waste disposed (in tonnes)	% change from prev yr	Tonnes per capita disposed	% change from 1990	Total waste recycled (in tonnes)	% change from prev yr	Tonnes per capita recycled	% change from prev yr	Total waste generated (in tonnes)	% change from prev yr	Tonnes per capita generated	% change from prev yr
1990	103,304		124,998		1.210		2,797		0.027		127,795		1.237	
1996	141,673		84,924		0.599	-50	16,083		0.114		101,007		0.713	
1997	145,213	2	105,259	24	0.725	-40	70,526	339	0.486	328	175,785	74	1.211	70
1998	147,113	1	94,216	-10	0.640	-47	60,222	-15	0.409	-16	154,438	-12	1.050	-13
1999	150,000	2	95,825	2	0.639	-47	77,529	29	0.517	26	168,648	9	1.124	7
2000	152,000	1	97,775	2	0.643	-47	17,445	-77	0.115	-78	115,220	-32	0.758	-33

Approved solid waste management plan: Yes

SWMP State of implementation: 76-100%

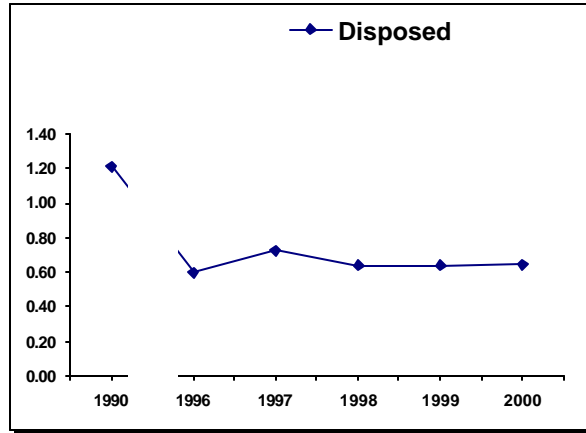
Date SWMP approved: August 1, 1992

Tonnes Per Capita Recycled and Disposed



Data status: Confirmed by Regional District

Tonnes Per Capita Disposed



Source of the Data: 1990 Grouping/Previous MSW Tracking Reports  
 1996 Regional District  
 1997 Regional District  
 1998 Regional District  
 1999 Regional District  
 2000 Regional District

Note: 1. 1991-1995 data compiled using different methodology.



**Columbia Shuswap Regional District**

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

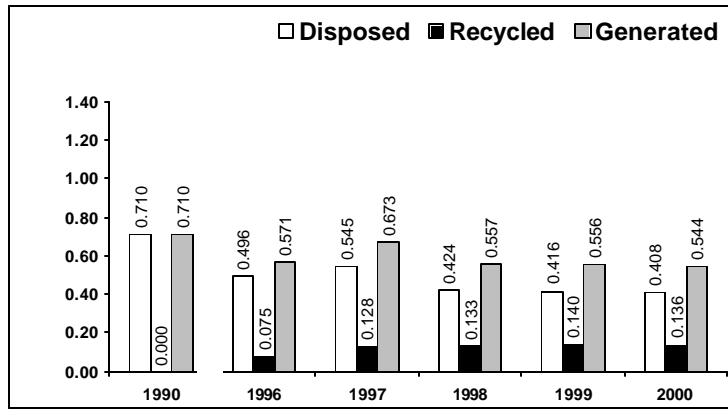
Year	Population	% change from prev yr	Total waste disposed (in tonnes)	% change from prev yr	Tonnes per capita disposed	% change from 1990	Total waste recycled (in tonnes)	% change from prev yr	Tonnes per capita recycled	% change from prev yr	Total waste generated (in tonnes)	% change from prev yr	Tonnes per capita generated	% change from prev yr
1990	40,510		28,762		0.710		15		0.000		28,777		0.710	
1996	48,115		23,852		0.496	-30	3,600		0.075		27,452		0.571	
1997	48,115	0	26,224	10	0.545	-23	6,174	72	0.128	72	32,398	18	0.673	18
1998	52,256	9	22,140	-16	0.424	-40	6,961	13	0.133	4	29,101	-10	0.557	-17
1999	52,256	0	21,746	-2	0.416	-41	7,325	5	0.140	5	29,071	0	0.556	0
2000	52,973	1	21,623	-1	0.408	-43	7,203	-2	0.136	-3	28,826	-1	0.544	-2

Approved solid waste management plan: Yes

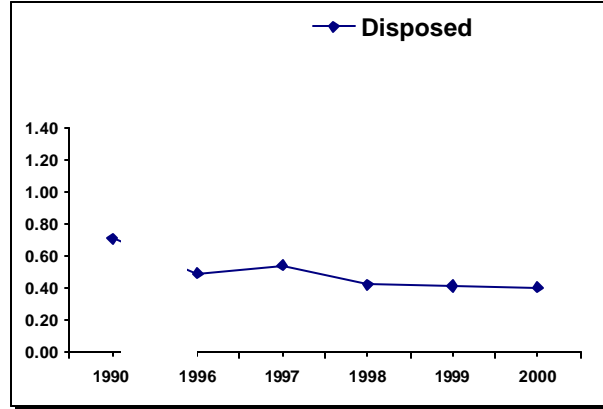
SWMP State of implementation: 76-100%

Date SWMP approved: August 1, 1994

Tonnes Per Capita Recycled and Disposed



Tonnes Per Capita Disposed



Data status: Confirmed by Regional District

Source of the Data: 1990 Grouping/Previous MSW Tracking reports  
 1996 Regional District  
 1997 Regional District  
 1998 Regional District  
 1999 Regional District  
 2000 Regional District

Note: 1. 1991-1995 data compiled using different methodology.



**Comox-Strathcona Regional District**

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

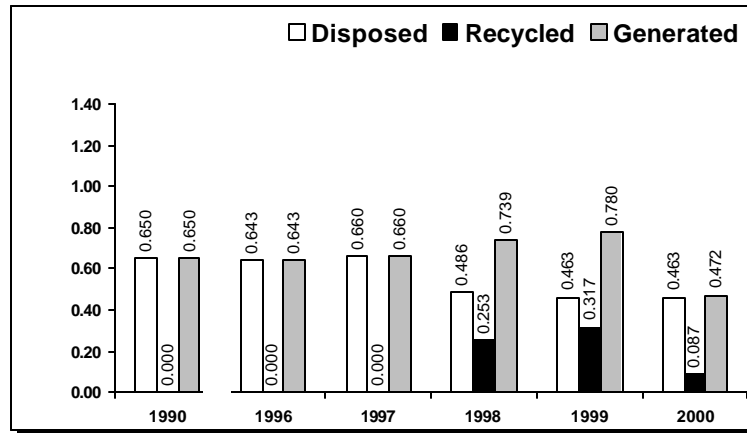
Year	Population	% change from prev yr	Total waste disposed (in tonnes)	% change from prev yr	Tonnes per capita disposed	% change from 1990	Total waste recycled (in tonnes)	% change from prev yr	Tonnes per capita recycled	% change from prev yr	Total waste generated (in tonnes)	% change from prev yr	Tonnes per capita generated	% change from prev yr
1990	82,378		53,546		0.650		0		0.000		53,546		0.650	
1996	97,667		62,779		0.643	-1	No data		No data		62,779		0.643	
1997	103,995	6	68,637	9	0.660	2	No data	-	No data	-	68,637	9	0.660	3
1998	101,085	-3	49,092	-28	0.486	-25	25,591	-	0.253	-	74,683	9	0.739	12
1999	105,321	4	48,735	-1	0.463	-29	33,405	31	0.317	25	82,141	10	0.780	6
2000	105,439	0	40,588	-17	0.463	-29	9,176	-73	0.087	-73	49,765	-39	0.472	-39

Approved solid waste management plan: Yes

SWMP State of implementation: Unknown

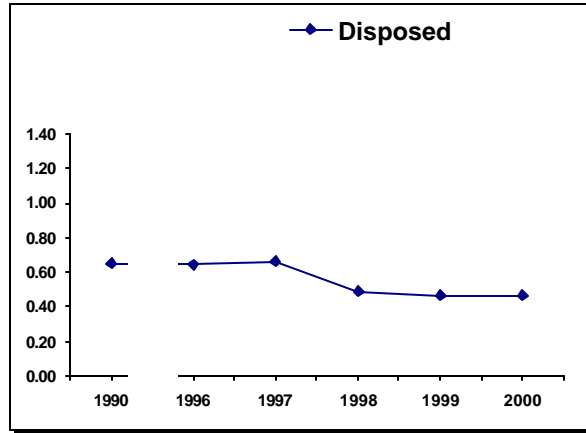
Date SWMP approved: September 1, 1995

Tonnes Per Capita Recycled and Disposed



Data status: Confirmed by Regional District

Tonnes Per Capita Disposed



Source of the Data: 1990 Grouping/Previous MSW Tracking reports  
 1996 Regional District  
 1997 Grouping/Previous MSW Tracking reports  
 1998 Regional District  
 1999 Regional District  
 2000 Regional District

Note: 1. 1991-1995 data compiled using different methodology.



**Cowichan Valley Regional District**

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

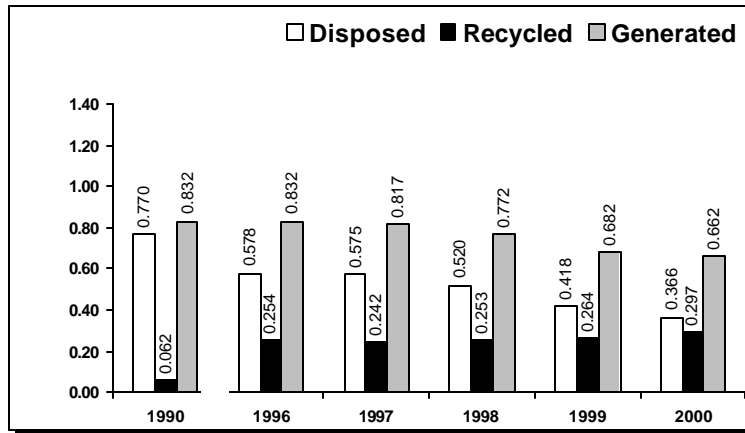
Year	Population	% change from prev yr	Total waste disposed (in tonnes)	% change from prev yr	Tonnes per capita disposed	% change from 1990	Total waste recycled (in tonnes)	% change from prev yr	Tonnes per capita recycled	% change from prev yr	Total waste generated (in tonnes)	% change from prev yr	Tonnes per capita generated	% change from prev yr
1990	59,059		45,475		0.770		3,662		0.062		49,137		0.832	
1996	70,978		41,032		0.578	-25	18,021		0.254		59,053		0.832	
1997	72,691	2	41,820	2	0.575	-25	17,572	-	0.242	-	59,392	1	0.817	-2
1998	73,735	1	38,323	-8	0.520	-33	18,620	-	0.253	-	56,943	-4	0.772	-5
1999	76,386	4	31,911	-17	0.418	-46	20,195	8	0.264	5	52,106	-8	0.682	-12
2000	76,819	1	28,088	-12	0.366	-53	22,786	13	0.297	12	50,874	-2	0.662	-3

Approved solid waste management plan: Yes

SWMP State of implementation: 51-75%

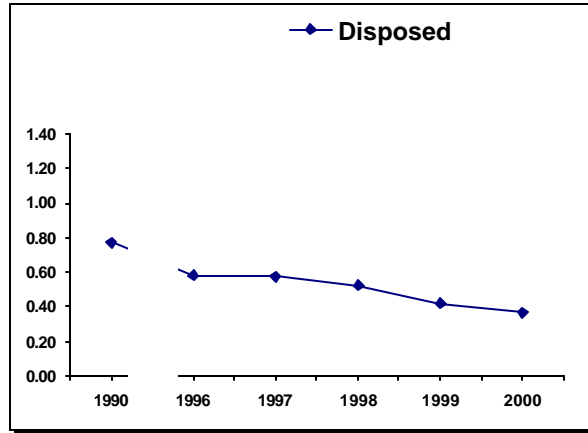
Date SWMP approved: December 22, 1995

Tonnes Per Capita Recycled and Disposed



Data status: Confirmed by Regional District

Tonnes Per Capita Disposed



Source of the Data: 1990 Grouping/Previous MSW Tracking reports  
 1996 Regional District  
 1997 Regional District  
 1998 Regional District  
 1999 Regional District  
 2000 Regional District

Note: 1. 1991-1995 data compiled using different methodology.



**East Kootenay Regional District**

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

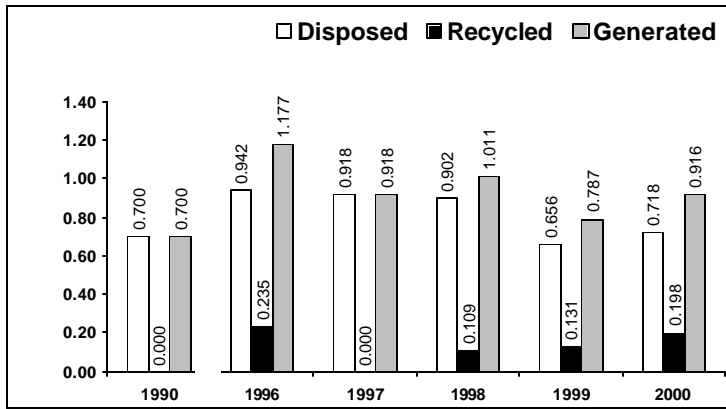
Year	Population	% change from prev yr	Total waste disposed (in tonnes)	% change from prev yr	Tonnes per capita disposed	% change from 1990	Total waste recycled (in tonnes)	% change from prev yr	Tonnes per capita recycled	% change from prev yr	Total waste generated (in tonnes)	% change from prev yr	Tonnes per capita generated	% change from prev yr
1990	48,773		34,141		0.700		0		0.000		34,141		0.700	
1996	58,608		55,209		0.942	35	13,745		0.235		68,954		1.177	
1997	59,557	2	54,675	-1	0.918	31	No data	-	No data	-	54,675	-21	0.918	-22
1998	60,054	1	54,167	-1	0.902	29	6,558	-	0.109	-	60,725	11	1.011	10
1999	61,145	2	40,123	-26	0.656	-6	8,027	22	0.131	20	48,150	-21	0.787	-22
2000	62,240	2	44,677	11	0.718	3	12,347	54	0.198	51	57,024	18	0.916	16

Approved solid waste management plan: No

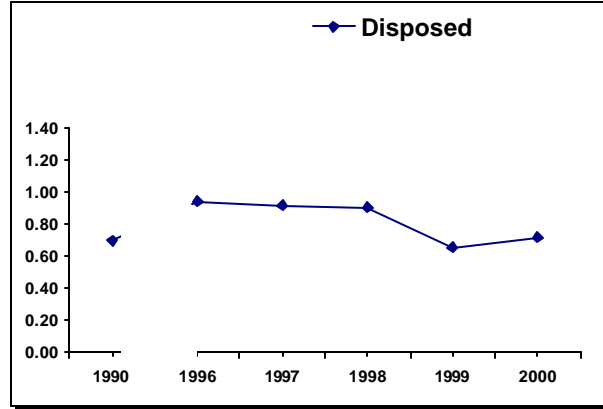
SWMP State of implementation: N/A

Date SWMP approved: N/A

**Tonnes Per Capita Recycled and Disposed**



**Tonnes Per Capita Disposed**



Data status: Confirmed by Regional District

Source of the Data: 1990 Grouping/Previous MSW Tracking reports  
 1996 Regional District  
 1997 Grouping/Previous MSW Tracking reports  
 1998 Regional District  
 1999 Regional District  
 2000 Regional District

Note: 1. 1991-1995 data compiled using different methodology.

BC Municipal Solid Waste Tracking Report 2000

**East Kootenay Regional District**

**Disposed Waste Breakdown by Facility Type**

Disposal Facility	Disposal Method (LF/IN/XP/TS)	Tipping Fees General Refuse (\$/N/NA)	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)			1999	2000
Windermere	LF	Y	Y	Y	Y	N	N	N	N	2005		10000 est.	10,000 (est)
Fernie	XP	Y	Y	Y	Y	N	N	N	N			5350 est.	5,316
Sparwood	LF	N	Y	Y	Y	N	N	N	N	2001		3039 est.	3,164
Elkford	LF	N	Y	Y	Y	N	N	N	N	2001		1126 est.	1,126 (est)
Central Subregion	LF	Y	Y	Y	Y	Y	Y	N	N	2060		20608 est.	25,071
<b>Total</b>												<b>40,123</b>	<b>44,677</b>

Recycled Waste Breakdown		
Class	Sub-Class	2000 Total (tonnes)
Glass	Co-mingled	31.5
Metal	White Goods	454.4
	Other	44.0
Organic	Food	
	Yard	1736.0
Paper	OCC	1585.0
	ONP	533.9
	Fine	22.0
	Mixed	804.7
Plastic	Co-mingled	17.6
	Sorted	
DLC	Wood	1260.3
	Gypsum	
	Concrete	5400.0
	Asphalt Shingles	101.2
Other	See note	356.6
<b>TOTAL</b>		12347.2
<b>TOTAL RECYCLED PER CAPITA (tonnes)</b>		0.198

**Notes, Challenges and Disposal Programs of Significance**

These totals do not include the private sector totals or the amount recycled through stewardship programs. In Section 3, plastic is indicative of milk jugs. DLC Other indicates miscellaneous totals we have for tires, batteries, pallets and propane tanks. Also in Section 3, the OTHER category reflects the total amount of mixed recyclables collected from Fernie and Elkford. The wood waste and concrete totals are based, in part, on estimates from the communities. Again, no private totals are included. The population figures are taken from BC STATS

Fraser-Fort George Regional District

Regional District Area (km<sup>2</sup>): 52000

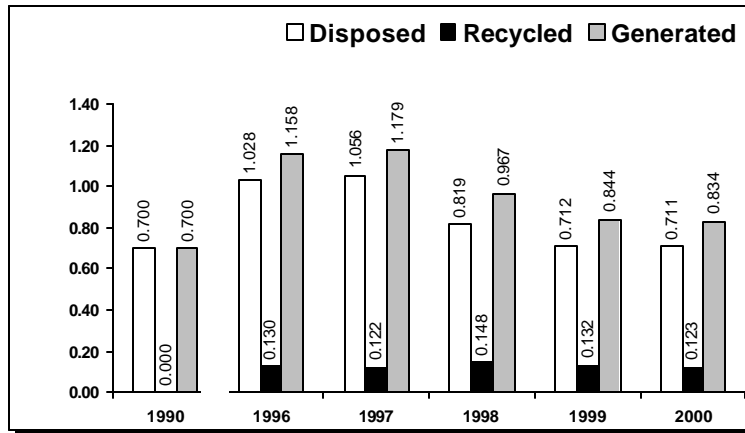
Year	Population	% change from prev yr	Total waste disposed (in tonnes)	% change from prev yr	Tonnes per capita disposed	% change from 1990	Total waste recycled (in tonnes)	% change from prev yr	Tonnes per capita recycled	% change from prev yr	Total waste generated (in tonnes)	% change from prev yr	Tonnes per capita generated	% change from prev yr
1990	85,971		60,180		0.700		16		0.000		60,195		0.700	
1996	98,974		101,782		1.028	47	12,855		0.130		114,637		1.158	
1997	101,349	2	107,044	5	1.056	51	12,414	-3	0.122	-6	119,458	4	1.179	2
1998	103,782	2	85,041	-21	0.819	17	15,336	24	0.148	21	100,377	-16	0.967	-18
1999	106,273	2	75,650	-11	0.712	2	14,020	-9	0.132	-11	89,670	-11	0.844	-13
2000	106,933	1	76,027	0	0.711	2	13,108	-7	0.123	-7	89,135	-1	0.834	-1

Approved solid waste management plan: Yes

SWMP State of implementation: 76-100%

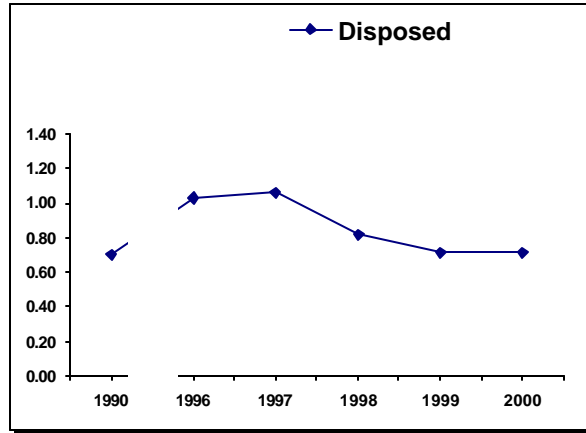
Date SWMP approved: October 16, 1997

Tonnes Per Capita Recycled and Disposed



Data status: Confirmed by Regional District

Tonnes Per Capita Disposed



Source of the Data: 1990 Grouping/Previous MSW Tracking reports  
 1996 Regional District  
 1997 Regional District  
 1998 Regional District  
 1999 Regional District  
 2000 Regional District

Note: 1. 1991-1995 data compiled using different methodology.

BC Municipal Solid Waste Tracking Report 2000

**Fraser-Fort George 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)			1999	2000
Foothills Blvd.	LF	Variable Rate	Y	Y	Y	N	Y	N	N	2040 +	NA	67,717	68,645
Mackenzie	LF	See above	Y	Y	Y	Y	Y	N	N	2003	NA	3,619	3,637
Legrand	LF	See above	N	Y		N	N	N	N	2001	NA	2,321	2,496
Berman	LF	N	N			N	N	N	N	1999	NA	341	37
Mud River	LF	N	N			N	N	N	N	2001	NA	426	500
Hixon	LF	N	N			N	N	N	N	1998	NA	Closed	Closed
Stone Creek	LF	N	N			N	N	N	N	2003	NA	221	260
Bear Lake	LF	N	N			N	N	N	N	1998	NA	Closed	Closed
Dome Creek	LF	N	N			N	N	N	N	2002	NA	68	80
McLeod Lake	LF	N	N			N	N	N	N	2000	NA	94	110
Shelley	LF	N	N			N	N	N	N	1999	NA	673	62
Summit Lake	LF	N	N			N	N	N	N	1998	NA	Closed	Closed
Sinclair Mills	LF	N	N			N	N	N	N	2003	NA	170	200
Willow River	LF	N	N			N	N	N	N	1998	NA	Closed	Closed
<b>Total</b>												<b>75,650</b>	<b>76,027</b>

**Recycled Waste Breakdown**

Class	Sub-Class	2000 Total (tonnes)
Glass	Co-mingled	
Metal	White Goods	100.1
	Other	652.9
Organic	Food	
	Yard	6368.5
Paper	OCC	133.9
	ONP	
	Fine	
Plastic	Mixed	5655.0
	Co-mingled	
	Sorted	13.0
DLC	Wood	26.7
	Gypsum	
	Concrete	
	Asphalt Shingles	
Other	Salvage	157.6
<b>TOTAL</b>		<b>13107.7</b>
<b>TOTAL RECYCLED PER CAPITA (tonnes)</b>		<b>0.123</b>

**Notes, Challenges and Disposal Programs of Significance**

\*Berman Lake Regional Landfill and Shelley Regional landfill were closed for landfilling activities as transfer stations became operational during the month of January 2000. \*Regional District reported 141 tonnes of tires and 1155 tonnes of batteries collected under provincial stewardship programs. These have not been included in Recycling Waste Breakdown and are reported under the provincial recycling figures.

Fraser Valley Regional District

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

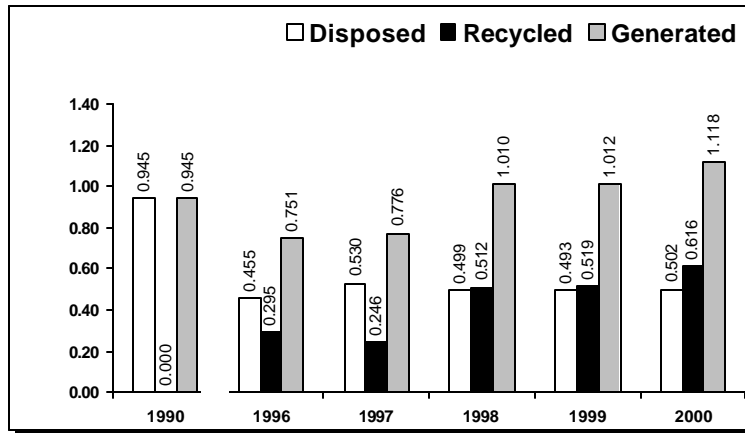
Year	Population	% change from prev yr	Total waste disposed (in tonnes)	% change from prev yr	Tonnes per capita disposed	% change from 1990	Total waste recycled (in tonnes)	% change from prev yr	Tonnes per capita recycled	% change from prev yr	Total waste generated (in tonnes)	% change from prev yr	Tonnes per capita generated	% change from prev yr
1990	209,641		198,111		0.945		0		0.000		198,111		0.945	
1996	222,397		101,273		0.455	-52	65,663		0.295		166,936		0.751	
1997	234,159	5	124,066	23	0.530	-44	57,525	-12	0.246	-17	181,591	9	0.776	3
1998	237,128	1	118,309	-5	0.499	-47	121,304	111	0.512	108	239,613	32	1.010	30
1999	240,022	1	118,365	0	0.493	-48	124,465	3	0.519	1	242,830	1	1.012	0
2000	243,008	1	121,983	3	0.502	-47	149,812	20	0.616	19	271,795	12	1.118	11

Approved solid waste management plan: Yes

SWMP State of implementation: 76-100%

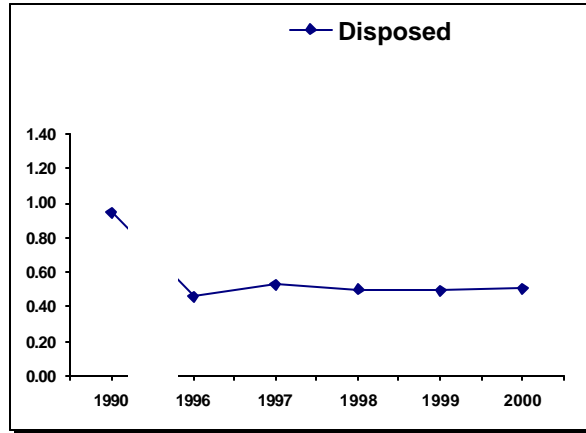
Date SWMP approved: November 14, 1996

Tonnes Per Capita Recycled and Disposed



Data status: Confirmed by Regional District

Tonnes Per Capita Disposed



Source of the Data: 1990 Grouping/Previous MSW Tracking reports  
 1996 Regional District  
 1997 Regional District  
 1998 Regional District  
 1999 Regional District  
 2000 Regional District

Note: 1. 1991-1995 data compiled using different methodology.



**Greater Vancouver Regional District**

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

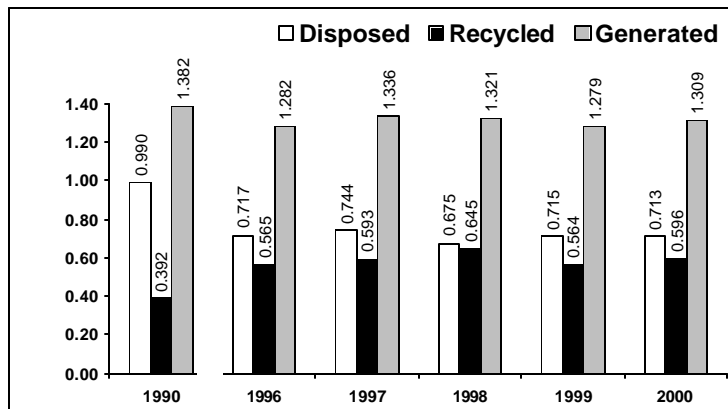
Year	Population	% change from prev yr	Total waste disposed (in tonnes)	% change from prev yr	Tonnes per capita disposed	% change from 1990*	Total waste recycled (in tonnes)	% change from prev yr	Tonnes per capita recycled	% change from prev yr	Total waste generated (in tonnes)	% change from prev yr	Tonnes per capita generated	% change from prev yr
1990	1,610,899		1,594,790		0.990		631,000		0.392		2,225,790		1.382	
1996	1,898,687		1,360,682		0.717	-28	1,072,691		0.565		2,433,373		1.282	
1997	1,934,210	2	1,438,608	6	0.744	-25	1,146,458	7	0.593	5	2,585,066	6	1.336	4
1998	1,978,848	2	1,336,671	-7	0.675	-32	1,276,430	11	0.645	9	2,613,101	1	1.321	-1
1999	1,990,961	1	1,422,779	6	0.715	-28	1,122,717	-12	0.564	-13	2,545,496	-3	1.279	-3
2000	2,011,035	1	1,433,383	1	0.713	-28	1,198,861	7	0.596	6	2,632,244	3	1.309	2

Approved solid waste management plan: Yes

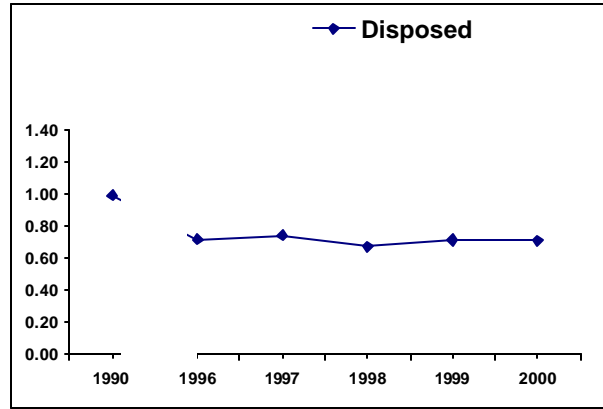
SWMP State of implementation: 76-100%

Date SWMP approved: November 28, 1995

**Tonnes Per Capita Recycled and Disposed**



**Tonnes Per Capita Disposed**



Data status: Confirmed by Regional District

\*GVRD calculates reduction in any one year by comparing waste disposed in that year to waste generated in 1990. Using this method the percent change in 2000 from 1990 is -48.4%.

Source of the Data: 1990

Grouping/Previous MSW Tracking reports

- 1996 Regional District
- 1997 Regional District
- 1998 Regional District
- 1999 Regional District
- 2000 Regional District

Note: 1. 1991-1995 data compiled using different methodology.

BC Municipal Solid Waste Tracking Report 2000

Greater Vancouver Regional District

Disposed Waste Breakdown by Facility Type													
Disposal Facility	Disposal Method (LF/IN/XP/TTS)	Tipping Fees General Refuse (\$/MVA)	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)			1999	2000
Burnaby Incinerator	IN	\$65 / tonne	Y	N	N	NA	Y	NA	NA	NA	250,000	248,783	256,367
Cache Creek Landfill	LF	\$65 / tonne	Y	N	N	NA	Y	Y	N	2008	7.5 million	497,374	476,322
Vancouver Landfill	LF	\$65 / tonne	Y	Y	N	NA	Y	Y	Y	2037	31.5 million	366,633	310,653
Private DLC	LF	various										309,989	390,041
<b>Total</b>												<b>1,422,779</b>	<b>1,433,383</b>

Recycled Waste Breakdown		
Class	Sub-Class	2000 Total (tonnes)
Glass	Co-mingled	17207.0
Metal	White Goods	23968.0
	Other	8539.0
Organic	Food	90770.0
	Yard	124467.0
Paper	OCC	104389.0
	ONP	40289.0
	Fine	99301.0
	Mixed	117763.0
Plastic	Co-mingled	20450.0
	Sorted	
DLC	Wood	49168.0
	Gypsum	53462.0
	Concrete	250591.0
	Asphalt	165139.0
Other	Other	33358.0
<b>TOTAL</b>		<b>1198861.0</b>
<b>TOTAL RECYCLED PER CAPITA (tonnes)</b>		<b>0.596</b>

**Notes, Challenges and Disposal Programs of Significance**

Although waste collected at the Abbotsford transfer station is managed within the GVRD Waste Management Area, 2000 Total Waste Disposed figures do not include Abbotsford as it is included in FVRD figures. The Other category in the Recycled Waste Breakdown includes recyclables that cannot be accounted in the above categories. As in previous years, recycling figures include materials collected at the Abbotsford transfer station.

**Kitimat-Stikine Regional District**

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

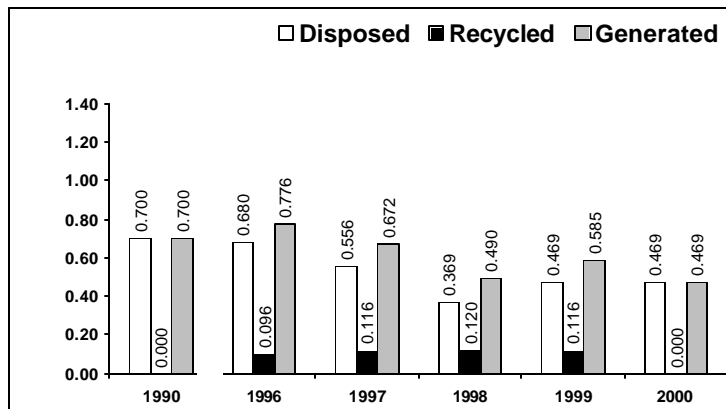
Year	Population	% change from prev yr	Total waste disposed (in tonnes)	% change from prev yr	Tonnes per capita disposed	% change from 1990	Total waste recycled (in tonnes)	% change from prev yr	Tonnes per capita recycled	% change from prev yr	Total waste generated (in tonnes)	% change from prev yr	Tonnes per capita generated	% change from prev yr
1990	39,431		27,602		0.700		0		0.000		27,602		0.700	
1996	43,618		29,660		0.680	-3	4,176		0.096		33,836		0.776	
1997	44,141	1	24,559	-17	0.556	-21	5,101	22	0.116	21	29,660	-12	0.672	-13
1998	44,671	1	16,489	-33	0.369	-47	5,381	5	0.120	4	21,869	-26	0.490	-27
1999	46,449	4	21,800	32	0.469	-33	5,374	0	0.116	-4	27,174	24	0.585	20
2000	46,870	1	21,982	1	0.469	-33	No Data	0	No Data	-	21,982	-19	0.469	-20

Approved solid waste management plan: Yes

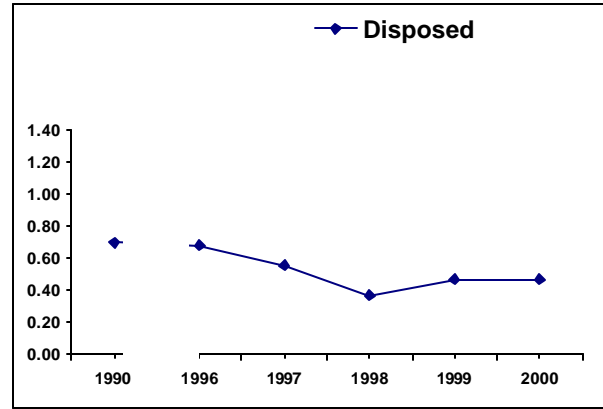
SWMP State of implementation: 26-50%

Date SWMP approved: February 26, 1996

Tonnes Per Capita Recycled and Disposed



Tonnes Per Capita Disposed



Data status: See note on source of 2000 data

Source of the Data: 1990 Grouping/Previous MSW Tracking reports  
 1996 Regional District  
 1997 Regional District  
 1998 Regional District  
 1999 Regional District  
 2000 Estimated Per Capita Disposal Rate

Note: 1. 1991-1995 data compiled using different methodology.

BC Municipal Solid Waste Tracking Report 2000

**Kitimat-Stikine Regional District**

Disposed Waste Breakdown by Facility Type													
Disposal Facility	Disposal Method (LF/IN/XPTS)	Tipping Fees General Refuse (\$/N/NA)	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)			1999	2000
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	LF		N	Y	N	N	N	N	N			219	
Nass	LF		Y	Y		Y	N	N	N			1,015	
<b>Total</b>												<b>21,800</b>	<b>21,982</b>

Recycled Waste Breakdown		
Class	Sub-Class	2000 Total (tonnes)
Glass	Co-mingled	
Metal	White Goods	
	Other	
Organic	Food	
	Yard	
Paper	OCC	
	ONP	
	Fine	
	Mixed	
Plastic	Co-mingled	
	Sorted	
DLC	Wood	
	Gypsum	
	Concrete	
	Asphalt Shingles	
Other	Specify	
<b>TOTAL</b>		No data
<b>TOTAL RECYCLED PER CAPITA (tonnes)</b>		No data

**Notes, Challenges and Disposal Programs of Significance**

Disposal facility data from 1999 report.

**Kootenay Boundary Regional District**

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

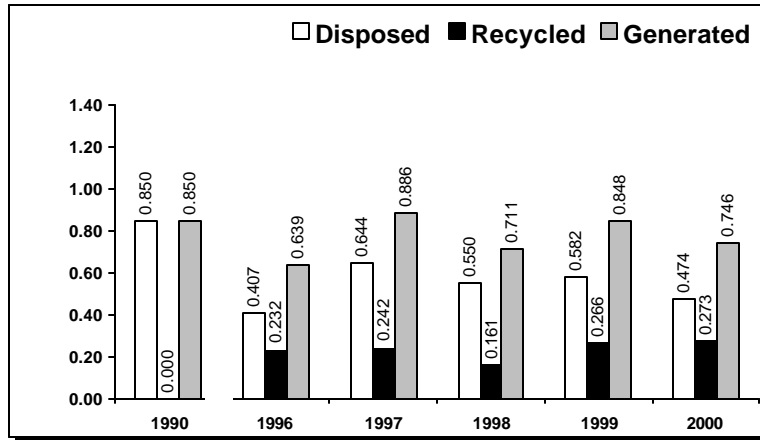
Year	Population	% change from prev yr	Total waste disposed (in tonnes)	% change from prev yr	Tonnes per capita disposed	% change from 1990	Total waste recycled (in tonnes)	% change from prev yr	Tonnes per capita recycled	% change from prev yr	Total waste generated (in tonnes)	% change from prev yr	Tonnes per capita generated	% change from prev yr
1990	30,425		25,861		0.850		0		0.000		25,861		0.850	
1996	32,906		13,409		0.407	-52	7,626		0.232		21,035		0.639	
1997	32,906	0	21,197	58	0.644	-24	7,953	4	0.242	4	29,150	39	0.886	39
1998	34,309	4	18,873	-11	0.550	-35	5,523	-31	0.161	-33	24,396	-16	0.711	-20
1999	34,156	0	19,886	5	0.582	-32	9,073	64	0.266	65	28,959	19	0.848	19
2000	34,065	0	16,134	-19	0.474	-44	9,287	2	0.273	3	25,421	-12	0.746	-12

Approved solid waste management plan: Yes

SWMP State of implementation: 76-100%

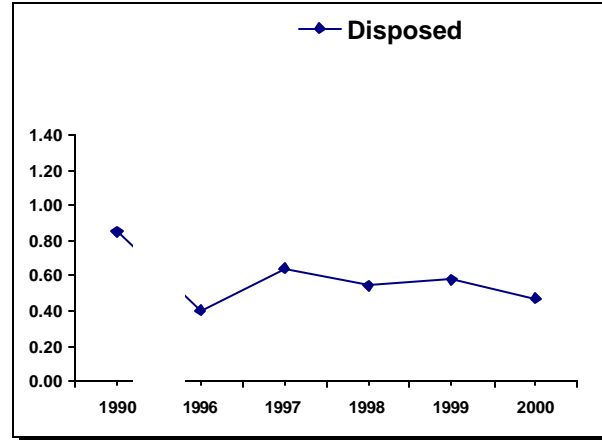
Date SWMP approved: December 22, 1995

**Tonnes Per Capita Recycled and Disposed**



Data status: Confirmed by Regional District

**Tonnes Per Capita Disposed**



Source of the Data: 1990 Grouping/Previous MSW Tracking reports  
 1996 Regional District  
 1997 Regional District  
 1998 Regional District  
 1999 Regional District  
 2000 Regional District

Note: 1. 1991-1995 data compiled using different methodology.

BC Municipal Solid Waste Tracking Report 2000

Kootenay Boundary Regional District

Disposed Waste Breakdown by Facility Type													
Disposal Facility	Disposal Method (LF/IN/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)			1999	2000
McKelvey Creek	LF	\$60/tonne	Y	Y	Y	N	Y	N	N	2060	800,000	13,136	10,274
Christina Lake	LF	\$9/cubic metre	Y	Y	N	N	N	N	N	2002	NA	485	369
Grand Forks	LF	\$60/tonne	Y	Y	Y	N	Y	N	N	2035	167,000	5,065	4,541
Greenwood	LF	\$9/cubic metre	Y	Y	N	N	N	N	N	2054	79,000	600 (EST.)	400 (EST.)
Rock Creek	LF	\$9/cubic metre	Y	Y	N	N	N	N	N	2003	NA	350 (EST.)	300 (EST.)
Beaverdell	LF	N	N	Y	N	N	N	N	N	2001	NA	250 (EST.)	250 (EST.)
Total												19,886	16,134

Recycled Waste Breakdown		
Class	Sub-Class	2000 Total (tonnes)
Glass	Co-mingled	115.0
Metal	White Goods	
	Other	2680.0
Organic	Food	355.0
	Yard	3012.0
Paper	OCC	1096.0
	ONP	
	Fine	
	Mixed	827.0
Plastic	Co-mingled	
	Sorted	24.0
DLC	Wood	1113.0
	Gypsum	
	Concrete	
	Asphalt Shingles	
Other	See note	65.0
<b>TOTAL</b>		9287.0
<b>TOTAL RECYCLED PER CAPITA (tonnes)</b>		0.273

**Notes, Challenges and Disposal Programs of Significance**  
 Food number is an estimate of backyard composter diversion. The mixed paper number includes newspaper. Metal - Other includes white goods. Plastic is No. 2 natural only. Other is diversion through Reuse Centres at our landfills.

Mount Waddington Regional District

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

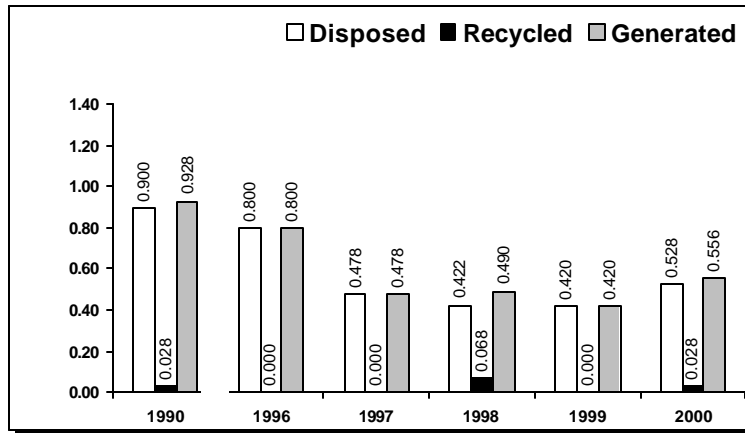
Year	Population	% change from prev yr	Total waste disposed (in tonnes)	% change from prev yr	Tonnes per capita disposed	% change from 1990	Total waste recycled (in tonnes)	% change from prev yr	Tonnes per capita recycled	% change from prev yr	Total waste generated (in tonnes)	% change from prev yr	Tonnes per capita generated	% change from prev yr
1990	14,086		12,677		0.900		400		0.028		13,077		0.928	
1996	13,896		11,117		0.800	-11	No data		No data		11,117		0.800	
1997	15,392	11	7,359	-34	0.478	-47	No data	-	No data	-	7,359	-34	0.478	-40
1998	15,000	-3	6,328	-14	0.422	-53	1,024	-	0.068	-	7,352	0	0.490	3
1999	14,601	-3	6,162	-3	0.420	-53	No data	-	No data	-	6,162	-16	0.420	-14
2000	15,058	3	7,952	29	0.528	-41	415	-	0.028	-	8,368	36	0.556	32

Approved solid waste management plan: Yes

SWMP State of implementation: 76-100%

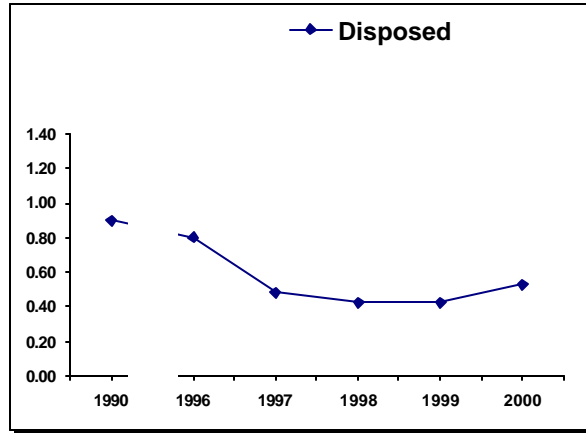
Date SWMP approved: July 22, 1996

Tonnes Per Capita Recycled and Disposed



Data status: Confirmed by Regional District

Tonnes Per Capita Disposed



Source of the Data: 1990 Grouping/Previous MSW Tracking reports  
 1996 Regional District  
 1997 Regional District  
 1998 Regional District  
 1999 1998 Per Capita Disposal Rate  
 2000 Regional District

Note: 1. 1991-1995 data compiled using different methodology.

BC Municipal Solid Waste Tracking Report 2000

Mount Waddington Regional District

Disposed Waste Breakdown by Facility Type													
Disposal Facility	Disposal Method (LF/IN/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)			1999	2000
7 mile	LF	\$	Y	Y	Y	Y	Y			Under study	Under study	6,162	7,952
Total												6,162	7,952

Recycled Waste Breakdown		
Class	Sub-Class	2000 Total (tonnes)
Glass	Co-mingled	
Metal	White Goods	257.7
	Other	
Organic	Food	
	Yard	
	OCC	66.1
Paper	ONP	15.3
	Fine	
	Mixed	29.0
Plastic	Co-mingled	
	Sorted	4.8
	Wood	
DLC	Gypsum	
	Concrete	
	Asphalt Shingles	
Other	Specify	42.6
<b>TOTAL</b>		415.4
<b>TOTAL RECYCLED PER CAPITA (tonnes)</b>		0.028

**Notes, Challenges and Disposal Programs of Significance**

\*Increase in landfill tonnage due to closure of Canfor's landfill in Woss. Refuse from community now disposed of at the 7-Mile landfill.

Nanaimo Regional District

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

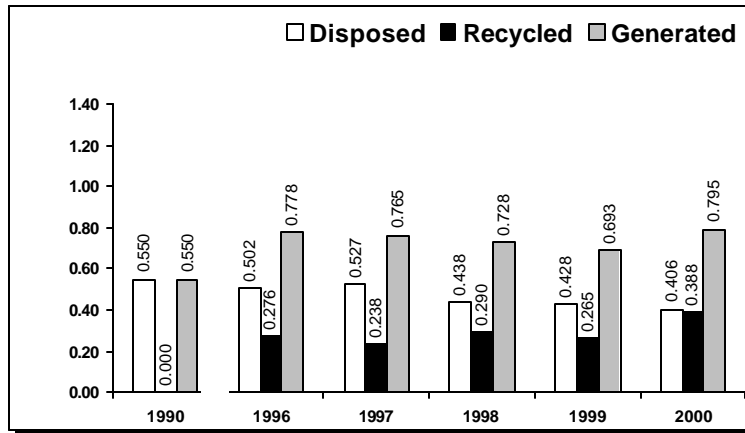
Year	Population	% change from prev yr	Total waste disposed (in tonnes)	% change from prev yr	Tonnes per capita disposed	% change from 1990	Total waste recycled (in tonnes)	% change from prev yr	Tonnes per capita recycled	% change from prev yr	Total waste generated (in tonnes)	% change from prev yr	Tonnes per capita generated	% change from prev yr
1990	91,879		50,533		0.550		0		0.000		50,533		0.550	
1996	125,000		62,788		0.502	-9	34,477		0.276		97,265		0.778	
1997	132,000	6	69,535	11	0.527	-4	31,386	-9	0.238	-14	100,921	4	0.765	-2
1998	132,442	0	58,058	-17	0.438	-20	38,362	22	0.290	22	96,420	-4	0.728	-5
1999	137,637	4	58,885	1	0.428	-22	36,526	-5	0.265	-8	95,411	-1	0.693	-5
2000	137,003	0	55,682	-5	0.406	-26	53,194	46	0.388	46	108,876	14	0.795	15

Approved solid waste management plan: Yes

SWMP State of implementation: 76-100%

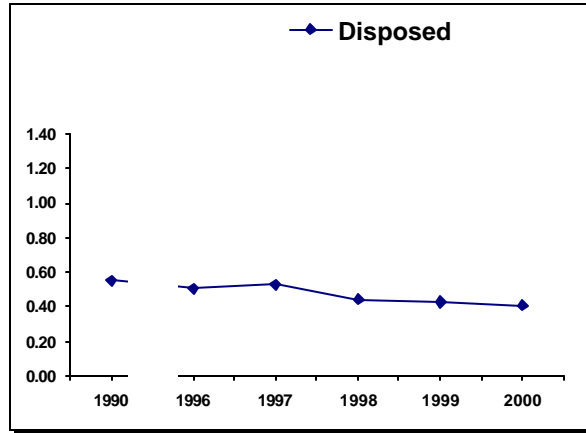
Date SWMP approved: April 9, 1997

Tonnes Per Capita Recycled and Disposed



Data status: Confirmed by Regional District

Tonnes Per Capita Disposed



Source of the Data: 1990 Grouping/Previous MSW Tracking reports  
 1996 Regional District  
 1997 Regional District  
 1998 Regional District  
 1999 Regional District  
 2000 Regional District

Note: 1. 1991-1995 data compiled using different methodology.



North Okanagan Regional District

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

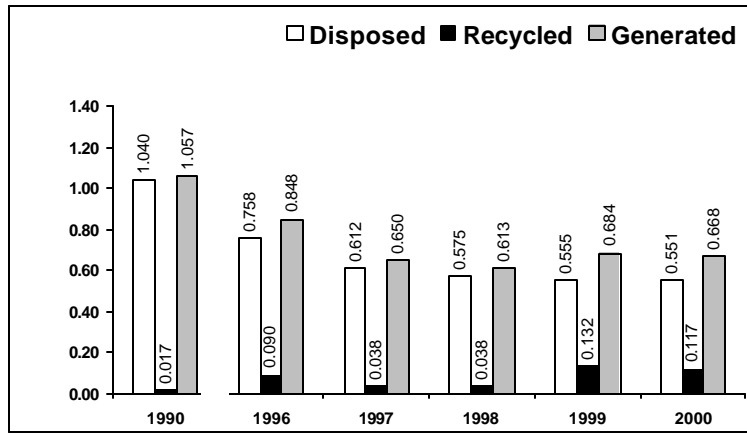
Year	Population	% change from prev yr	Total waste disposed (in tonnes)	% change from prev yr	Tonnes per capita disposed	% change from 1990	Total waste recycled (in tonnes)	% change from prev yr	Tonnes per capita recycled	% change from prev yr	Total waste generated (in tonnes)	% change from prev yr	Tonnes per capita generated	% change from prev yr
1990	57,611		59,915		1.040		954		0.017		60,869		1.057	
1996	73,266		55,541		0.758	-27	6,609		0.090		62,150		0.848	
1997	73,266	0	44,875	-19	0.612	-41	2,750	-58	0.038	-58	47,625	-23	0.650	-23
1998	75,240	3	43,272	-4	0.575	-45	2,844	3	0.038	1	46,116	-3	0.613	-6
1999	77,497	3	43,001	-1	0.555	-47	10,263	261	0.132	250	53,045	15	0.684	12
2000	79,047	2	43,542	1	0.551	-47	9,222	-10	0.117	-12	52,764	-1	0.668	-2

Approved solid waste management plan: Yes

SWMP State of implementation: 76-100%

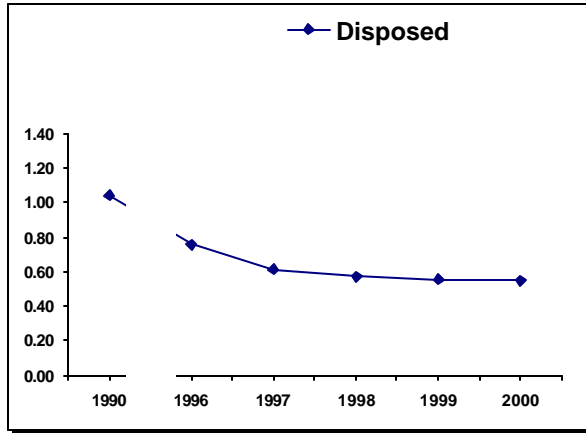
Date SWMP approved: December 22, 1995

Tonnes Per Capita Recycled and Disposed



Data status: Confirmed by Regional District

Tonnes Per Capita Disposed



Source of the Data: 1990 Grouping/Previous MSW Tracking reports  
 1996 Regional District  
 1997 Regional District  
 1998 Regional District  
 1999 Regional District  
 2000 Regional District

BC Municipal Solid Waste Tracking Report 2000

**North Okanagan Regional District**

**Disposed Waste Breakdown by Facility Type**

Disposal Facility	Disposal Method (LF/IN/XP/TS)	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)			1999	2000
Greater Vernon	LF		Y	Y	Y	N	Y	N	N	2017		31,345	33,037
Armstrong / Spallumcheen	LF		Y	Y	Y	N	Y	N	N	2013		9,593	9,073
Kingfisher	LF		Y	Y	Y	N	N	N	N	2002		114	121
Lumby	LF		Y	Y	Y	N	N	N	N	2014		1,780	1,150
Cherryville	LF		Y/N	Y/N	Y	N	N	N	N	2011		168	161
Silver Star Transfer Stn	TS	User Fees & Taxation	Y/N	Y/N	N	N	N	N	N	N/A	8 per day		Transferred to Greater Vernon Landfill
<b>Total</b>												<b>43,001</b>	<b>43,542</b>

**Recycled Waste Breakdown**

Class	Sub-Class	2000 Total (tonnes)
Glass	Co-mingled	207.0
Metal	White Goods	
	Other	744.0
Organic	Food	
	Yard	
Paper	OCC	4156.0
	ONP	1943.0
	Fine	135.0
	Mixed	1965.0
Plastic	Co-mingled	
	Sorted	72.0
DLC	Wood	
	Gypsum	
	Concrete	
	Asphalt Shingles	
Other	Specify	
<b>TOTAL</b>		9222.0
<b>TOTAL RECYCLED PER CAPITA (tonnes)</b>		0.117

**Notes, Challenges and Disposal Programs of Significance**

A major Waste Reduction Education program is soon to be launched. Sorting and marketing in the recycling program was improved. Replacement of central drop off with blue bag collection in Enderby planned for early 2001. Announced proposal call for major plan review.

**Northern Rockies Regional District**

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

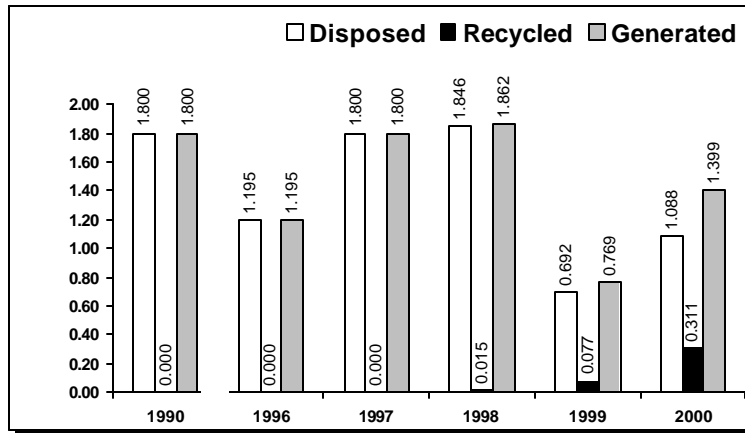
Year	Population	% change from prev yr	Total waste disposed (in tonnes)	% change from prev yr	Tonnes per capita disposed	% change from 1990	Total waste recycled (in tonnes)	% change from prev yr	Tonnes per capita recycled	% change from prev yr	Total waste generated (in tonnes)	% change from prev yr	Tonnes per capita generated	% change from prev yr
1990	4,565		8,217		1.800		0		0.000		8,217		1.800	
1996	5,856		7,000		1.195	-34	0		0.000		7,000		1.195	
1997	6,414	10	11,545	65	1.800	0	0	-	0.000	-	11,545	65	1.800	51
1998	6,500	1	12,000	4	1.846	3	100	-	0.015	-	12,100	5	1.862	3
1999	6,500	0	4,500	-63	0.692	-62	500	400	0.077	400	5,000	-59	0.769	-59
2000	6,434	-1	7,000	56	1.088	-40	2,000	300	0.311	304	9,000	80	1.399	82

Approved solid waste management plan: Yes

SWMP State of implementation: 76-100%

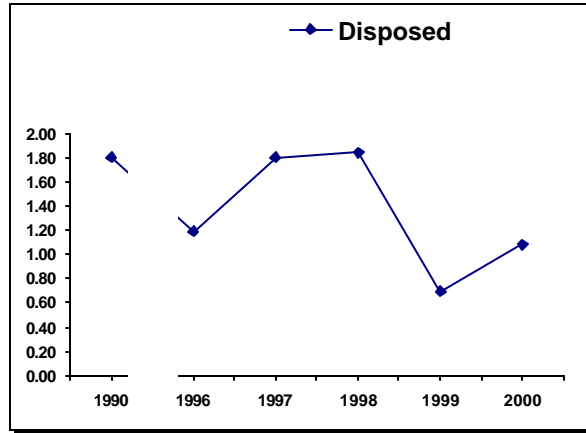
Date SWMP approved: June 17, 1996

**Tonnes Per Capita Recycled and Disposed**



Data status: Confirmed by Regional District

**Tonnes Per Capita Disposed**



Source of the Data: 1990 Grouping/Previous MSW Tracking reports  
 1996 Regional District  
 1997 Grouping/Previous MSW Tracking reports  
 1998 Regional District  
 1999 Regional District  
 2000 Regional District

Note: 1. 1991-1995 data compiled using different methodology.



Okanagan-Similkameen Regional District

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

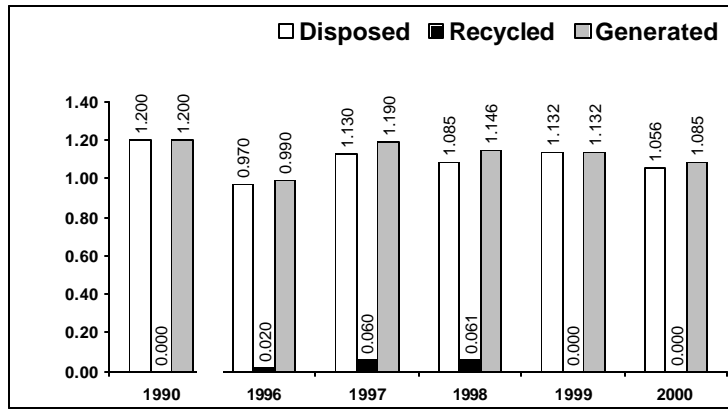
Year	Population	% change from prev yr	Total waste disposed (in tonnes)	% change from prev yr	Tonnes per capita disposed	% change from 1990	Total waste recycled (in tonnes)	% change from prev yr	Tonnes per capita recycled	% change from prev yr	Total waste generated (in tonnes)	% change from prev yr	Tonnes per capita generated	% change from prev yr
1990	66,239		79,487		1.200		0		0.000		79,487		1.200	
1996	75,900		73,623		0.970	-19	1,518		0.020		75,141		0.990	
1997	77,200	2	87,236	18	1.130	-6	4,632	205	0.060	200	91,868	22	1.190	20
1998	78,700	2	85,400	-2	1.085	-10	4,800	4	0.061	2	90,200	-2	1.146	-4
1999	79,100	1	89,574	5	1.132	-6	No data	-	No data	-	89,574	-1	1.132	-1
2000	80,448	2	84,921	-5	1.056	-12	No data	-	No data	-	87,286	-3	1.085	-4

Approved solid waste management plan: Yes

SWMP State of implementation: 51-75%

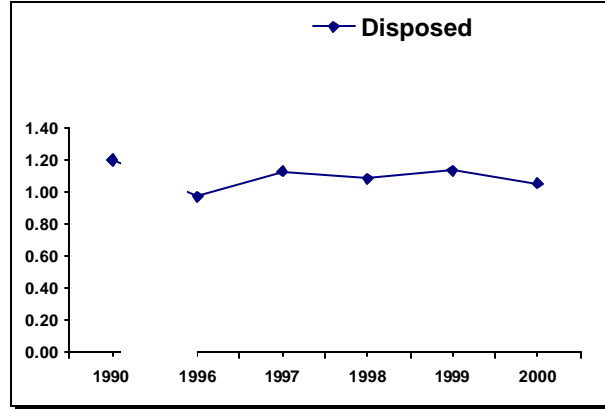
Date SWMP approved: March 29, 1996

Tonnes Per Capita Recycled and Disposed



Data status: See note on source of 2000 data

Tonnes Per Capita Disposed



Source of the Data: 1990 Grouping/Previous MSW Tracking reports  
 1996 Regional District  
 1997 Regional District  
 1998 Regional District  
 1999 Regional District  
 2000 Estimated Per Capita Disposal Rate

Note: 1. 1991-1995 data compiled using different methodology.



Peace River Regional District

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

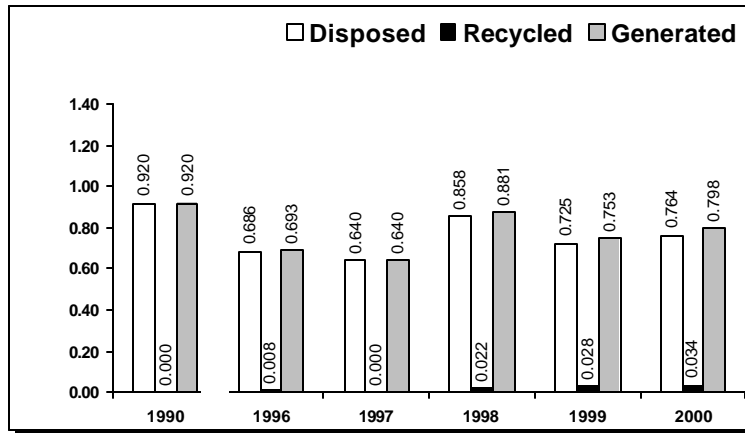
Year	Population	% change from prev yr	Total waste disposed (in tonnes)	% change from prev yr	Tonnes per capita disposed	% change from 1990	Total waste recycled (in tonnes)	% change from prev yr	Tonnes per capita recycled	% change from prev yr	Total waste generated (in tonnes)	% change from prev yr	Tonnes per capita generated	% change from prev yr
1990	50,083		46,076		0.920		0		0.000		46,076		0.920	
1996	55,545		38,090		0.686	-25	425		0.008		38,515		0.693	
1997	59,695	7	38,205	0	0.640	-30	No data	-	No data	-	38,205	-1	0.640	-8
1998	60,000	1	51,500	35	0.858	-7	1,341	-	0.022	-	52,841	38	0.881	38
1999	60,000	0	43,500	-16	0.725	-21	1,689	26	0.028	26	45,189	-14	0.753	-14
2000	57,726	-4	44,100	1	0.764	-17	1,947	15	0.034	20	46,047	2	0.798	6

Approved solid waste management plan: Yes

SWMP State of implementation: 76-100%

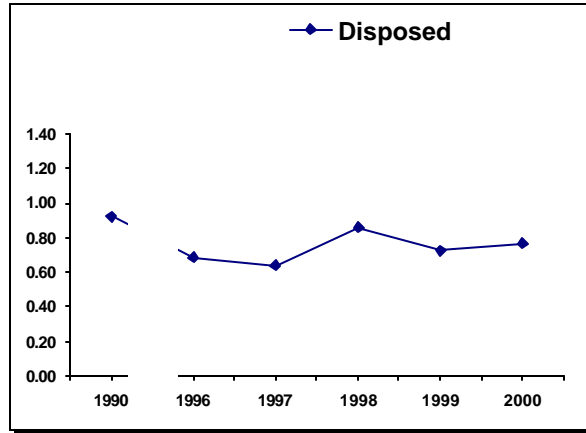
Date SWMP approved: June 25, 1996

Tonnes Per Capita Recycled and Disposed



Data status: Confirmed by Regional District

Tonnes Per Capita Disposed



Source of the Data: 1990 Grouping/Previous MSW Tracking reports  
 1996 Regional District  
 1997 Grouping/Previous MSW Tracking reports  
 1998 Regional District  
 1999 Regional District  
 2000 Regional District

Note: 1. 1991-1995 data compiled using different methodology.

BC Municipal Solid Waste Tracking Report 2000

**Peace River Regional District**

Disposed Waste Breakdown by Facility Type													
Disposal Facility	Disposal Method (LF/N/X/P/TS)	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)			1999	2000
Dawson Creek	LF	\$25/tonne	Y	Y	N	N	Y	N	N	2003	45,000	14,000	15,000
Fort St John	LF	\$25/tonne	Y	Y	N	N	Y	N	N	2012	380,000	22,000	22,000
Chetwynd	LF	\$25/tonne	Y	Y	N	Y	Y	N	N	2015	80,000	4,800	4,800
Bessborough	LF	\$25/tonne	Y	Y	N	Y	N	N	N	2020	20,000	600	600
Rose Prairie	LF	\$25/tonne	Y	Y	N	N	N	N	N	2050	40,000	600	800
Taylor	LF	\$25/tonne	Y	Y	N	N	N	N	N	N/A	6,500	900	900
Cecil Lake	Transfer Bins	\$25/tonne	Y	Y	N	N	N	N	N	N/A	N/A	400	
Mile 62.5	Transfer Bins	\$25/tonne	Y	Y	N	N	N	N	N	N/A	N/A		
Hudson's Hope	TS	\$25/tonne	Y	Y	N	N	N	N	N	N/A	N/A		
Moberly Lake	Transfer Bins	\$25/tonne	Y	Y	N	N	N	N	N	N/A	N/A		
<b>Total</b>												<b>43,500</b>	<b>44,100</b>

Recycled Waste Breakdown		
Class	Sub-Class	2000 Total (tonnes)
Glass	Co-mingled	60.0
Metal	White Goods	
	Other	20.0
Organic	Food	
	Yard	
Paper	OCC	787.0
	ONP	630.0
	Fine	125.0
	Mixed	273.0
Plastic	Co-mingled	30.0
	Sorted	22.0
DLC	Wood	
	Gypsum	
	Concrete	
	Asphalt Shingles	
Other	Specify	
<b>TOTAL</b>		<b>1947.0</b>
<b>TOTAL RECYCLED PER CAPITA (tonnes)</b>		<b>0.034</b>

**Notes, Challenges and Disposal Programs of Significance**

**Powell River Regional District**

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

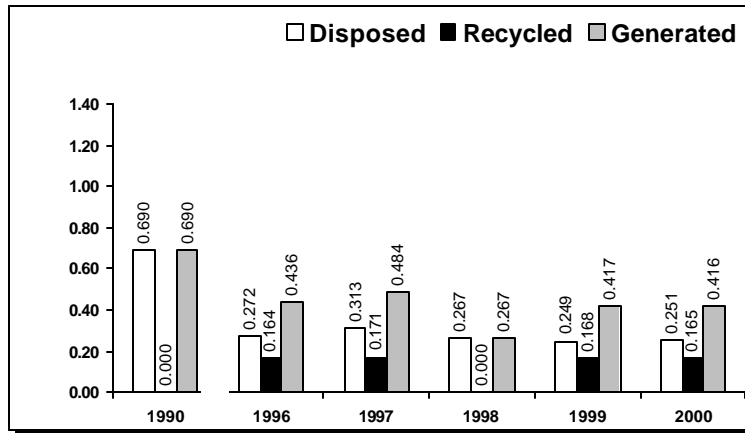
Year	Population	% change from prev yr	Total waste disposed (in tonnes)	% change from prev yr	Tonnes per capita disposed	% change from 1990	Total waste recycled (in tonnes)	% change from prev yr	Tonnes per capita recycled	% change from prev yr	Total waste generated (in tonnes)	% change from prev yr	Tonnes per capita generated	% change from prev yr
1990	18,728		12,922		0.690		0		0.000		12,922		0.690	
1996	20,603		5,610		0.272	-61	3,375		0.164		8,985		0.436	
1997	19,936	-3	6,242	11	0.313	-55	3,413	7	0.171	7	9,655	7	0.484	11
1998	21,124	6	5,645	-10	0.267	-61	No data	-	No data	-	5,645	-42	0.267	-45
1999	20,993	-1	5,229	-7	0.249	-64	3,531	-	0.168	-	8,760	55	0.417	56
2000	21,060	0	5,283	1	0.251	-64	3,482	-1	0.165	-2	8,765	0	0.416	0

Approved solid waste management plan: Yes

SWMP State of implementation: 76-100%

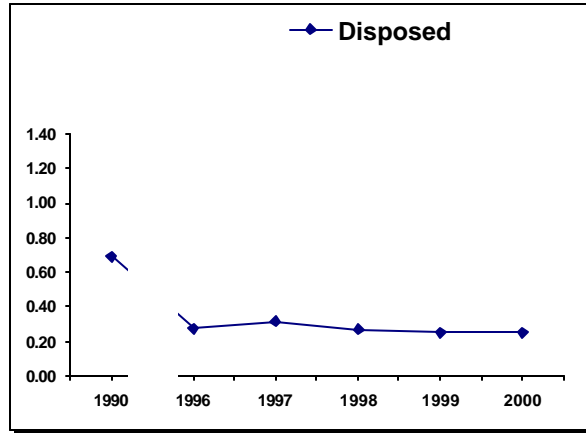
Date SWMP approved: August 22, 1996

Tonnes Per Capita Recycled and Disposed



Data status: Confirmed by Regional District

Tonnes Per Capita Disposed



Source of the Data: 1990 Grouping/Previous MSW Tracking reports  
 1996 Regional District  
 1997 Regional District  
 1998 Regional District  
 1999 Regional District  
 2000 Regional District

Note: 1. 1991-1995 data compiled using different methodology.

BC Municipal Solid Waste Tracking Report 2000

**Powell River Regional District**

Disposed Waste Breakdown by Facility Type													
Disposal Facility	Disposal Method (LF/IN/XP/TS)	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)			1999	2000
Transfer site	XP	\$150/T	Y	N	Y	N	Y	N/A	N/A	N/A	N/A	5,229	5,283
<b>Total</b>												<b>5,229</b>	<b>5,283</b>

Recycled Waste Breakdown		
Class	Sub-Class	2000 Total (tonnes)
Glass	Co-mingled	131.0
Metal	White Goods	-
	Other	689.0
Organic	Food	none
	Yard	1079.0
Paper	OCC	367.0
	ONP	259.0
	Fine	96.0
	Mixed	215.0
Plastic	Co-mingled	75.0
	Sorted	20.0
DLC	Wood	-
	Gypsum	163.0
	Concrete	383.0
	Asphalt Shingles	7.0
Other	Specify	
<b>TOTAL</b>		<b>3484.0</b>
<b>TOTAL RECYCLED PER CAPITA (tonnes)</b>		<b>0.165</b>

**Notes, Challenges and Disposal Programs of Significance**

Private collection accounted for 13.9% of total recycled waste (450 T / 7147.8 T total). Revisions to 1999 data: \* Original report stated 5430 T total waste disposed (exported). New figure is 5229 T. Discrepancy due to weight differences at shipping and receiving. Revised figures are for weights received and paid for at the export facility. \*\* Slight correction to total population figures - less 67 than in original report.

**Skeena-Queen Charlotte Regional District**

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

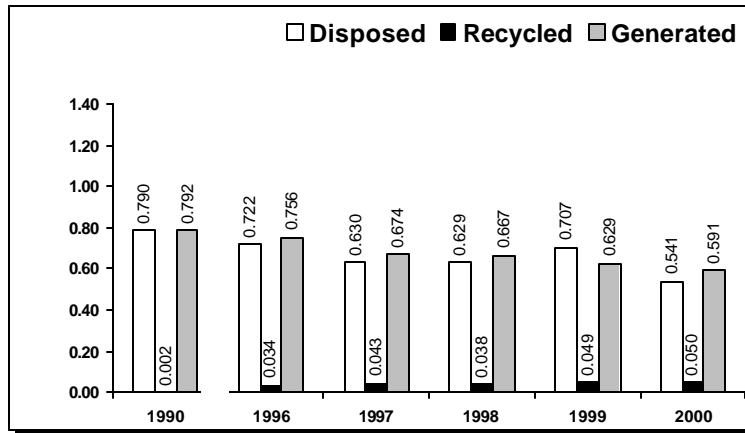
Year	Population	% change from prev yr	Total waste disposed (in tonnes)	% change from prev yr	Tonnes per capita disposed	% change from 1990	Total waste recycled (in tonnes)	% change from prev yr	Tonnes per capita recycled	% change from prev yr	Total waste generated (in tonnes)	% change from prev yr	Tonnes per capita generated	% change from prev yr
1990	22,700		17,933		0.790		36		0.002		17,969		0.792	
1996	23,121		16,685		0.722	-9	784		0.034		17,469		0.756	
1997	25,910	12	16,336	-2	0.630	-20	1,123	43	0.043	26	17,459	0	0.674	-11
1998	24,795	-4	15,606	-4	0.629	-20	936	-17	0.038	-12	16,542	-5	0.667	-1
1999	25,467	3	18,006	15	0.707	-11	1,238	32	0.049	29	19,244	16	0.629	-6
2000	25,514	0	13,800	-23	0.541	-32	1,269	3	0.050	2	15,069	-22	0.591	-6

Approved solid waste management plan: Yes

SWMP State of implementation: 26-50%

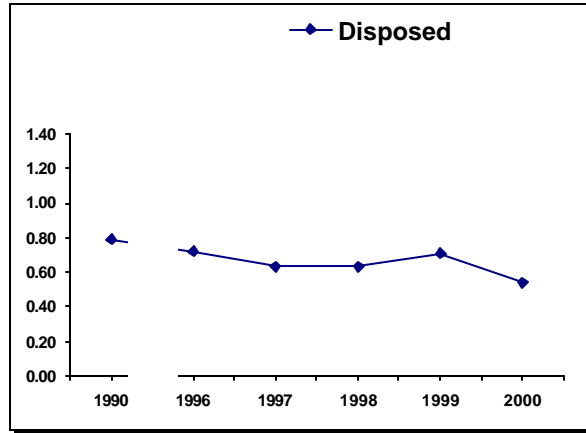
Date SWMP approved: December 22, 1995

**Tonnes Per Capita Recycled and Disposed**



Data status: Confirmed by Regional District

**Tonnes Per Capita Disposed**



Source of the Data: 1990 Grouping/Previous MSW Tracking reports  
 1996 Regional District  
 1997 Regional District  
 1998 Regional District  
 1999 Regional District (2000 revision)  
 2000 Regional District

Note: 1. 1991-1995 data compiled using different methodology.



**Squamish-Lillooet Regional District**

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

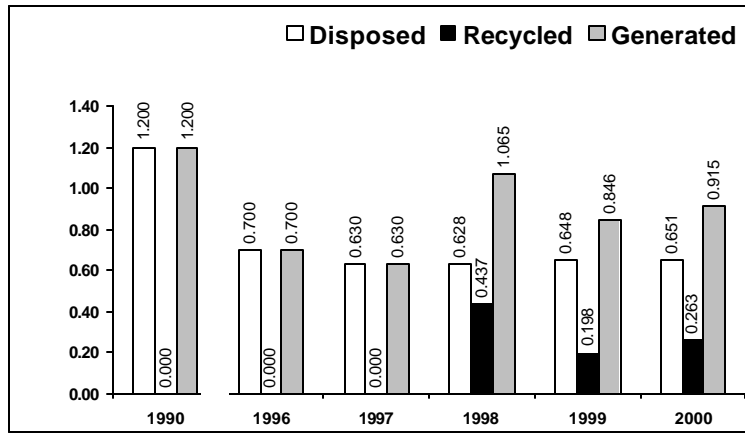
Year	Population	% change from prev yr	Total waste disposed (in tonnes)	% change from prev yr	Tonnes per capita disposed	% change from 1990	Total waste recycled (in tonnes)	% change from prev yr	Tonnes per capita recycled	% change from prev yr	Total waste generated (in tonnes)	% change from prev yr	Tonnes per capita generated	% change from prev yr
1990	32,437		38,924		1.200		0		0.000		38,924		1.200	
1996	40,478		28,335		0.700	-42	No data		No data		28,335		0.700	
1997	41,895	4	26,394	-7	0.630	-48	No data	-	No data	-	26,394	-7	0.630	-10
1998	42,714	2	26,845	2	0.628	-48	18,655	-	0.437	-	45,500	72	1.065	69
1999	45,165	6	29,255	9	0.648	-46	8,960	-52	0.198	-55	38,215	-16	0.846	-21
2000	45,523	1	29,655	1	0.651	-46	11,982	34	0.263	33	41,637	9	0.915	8

Approved solid waste management plan: Yes

SWMP State of implementation: 51-75%

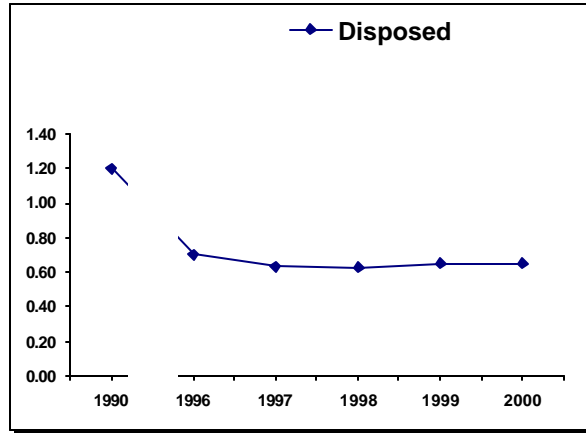
Date SWMP approved: May 8, 1997

Tonnes Per Capita Recycled and Disposed



Data status: Confirmed by Regional District

Tonnes Per Capita Disposed



Source of the Data: 1990 Grouping/Previous MSW Tracking reports  
 1996 Grouping/Previous MSW Tracking reports  
 1997 Grouping/Previous MSW Tracking reports  
 1998 Regional District  
 1999 Regional District  
 2000 Regional District

Note: 1. 1991-1995 data compiled using different methodology.

**Squamish-Lillooet Regional District**

Disposal Facility	Disposal Method (LF/IN/XP/TS)	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)			1999	2000
Squamish	LF	\$80/T	Y	Y	N	N	Y	N	N	2021*	561033**	9,786	9,445
Whistler	LF	\$76/T & \$116 /T	Y	Y	N	Y	Y	N	N	2008	326,217	16,009	18,433
Pemberton and Area	TS											1,239	
Area A	LF											127	
Lillooet	LF	\$65 & \$75/T	Y	Y	N	N	N	N	N	2050+	NA**	1,586	1,778
Area B	TS											180	
Area D	TS											328	
<b>Total</b>												<b>29,255</b>	<b>29,655</b>

Class	Sub-Class	2000 Total (tonnes)
Glass	Co-mingled	488.3
Metal	White Goods	123.4
	Other	1365.6
Organic	Food	
	Yard	35.0
Paper	OCC	2883.5
	ONP	530.2
	Fine	97.8
	Mixed	1856.3
Plastic	Co-mingled	159.9
	Sorted	71.9
DLC	Wood	1754.2
	Gypsum	822.6
	Concrete	
	Asphalt	1793.4
Other	Specify	
<b>TOTAL</b>		11982.1
<b>TOTAL RECYCLED PER CAPITA (tonnes)</b>		0.263

**Notes, Challenges and Disposal Programs of Significance**

SLRD population has been adjusted to account for Whistler filled bed units per season.  
 \*Pending approval.  
 \*\*Dependant on closure date.  
 Waste disposed at Area A and B facilities is accounted for in the tonnage for the Lillooet Landfill. Waste disposed at the Area C and Pemberton facilities is taken to the Whistler Landfill. Garbage from Area D is taken to the Squamish Landfill.

Sunshine Coast Regional District

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

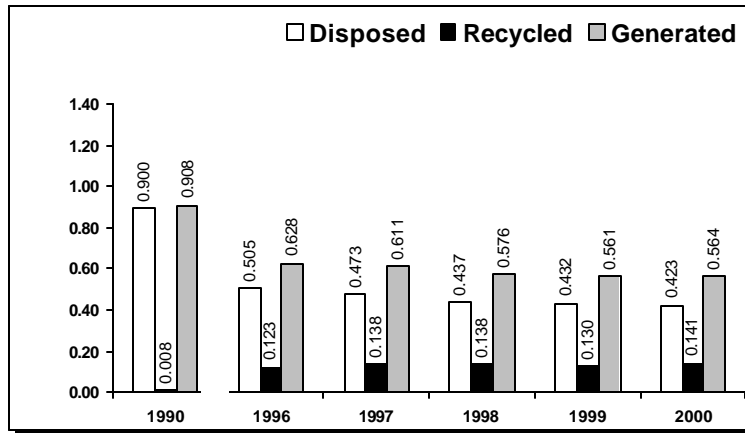
Year	Population	% change from prev yr	Total waste disposed (in tonnes)	% change from prev yr	Tonnes per capita disposed	% change from 1990	Total waste recycled (in tonnes)	% change from prev yr	Tonnes per capita recycled	% change from prev yr	Total waste generated (in tonnes)	% change from prev yr	Tonnes per capita generated	% change from prev yr
1990	19,119		17,207		0.900		162		0.008		17,369		0.908	
1996	25,833		13,054		0.505	-44	3,175		0.123		16,229		0.628	
1997	26,540	3	12,560	-4	0.473	-47	3,658	15	0.138	12	16,218	0	0.611	-3
1998	26,963	2	11,796	-6	0.437	-51	3,729	2	0.138	0	15,525	-4	0.576	-6
1999	27,244	1	11,765	0	0.432	-52	3,531	-5	0.130	-6	15,296	-1	0.561	-2
2000	27,438	1	11,611	-1	0.423	-53	3,877	10	0.141	9	15,488	1	0.564	1

Approved solid waste management plan: Yes

SWMP State of implementation: 51-75%

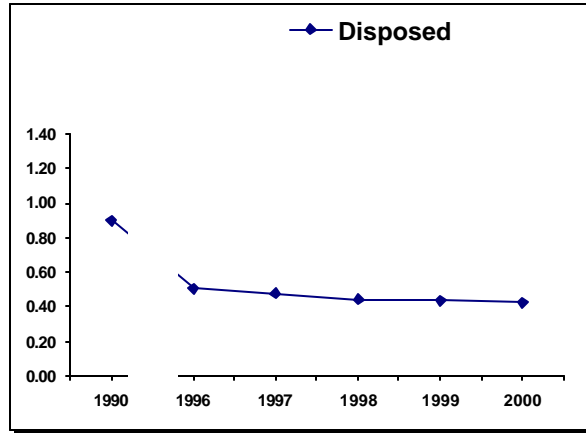
Date SWMP approved: June 14, 1996

Tonnes Per Capita Recycled and Disposed



Data status: Confirmed by Regional District

Tonnes Per Capita Disposed



Source of the Data: 1990 Grouping/Previous MSW Tracking reports  
 1996 Regional District  
 1997 Regional District  
 1998 Regional District  
 1999 Regional District  
 2000 Regional District

Note: 1. 1991-1995 data compiled using different methodology.



**Thompson-Nicola Regional District**

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

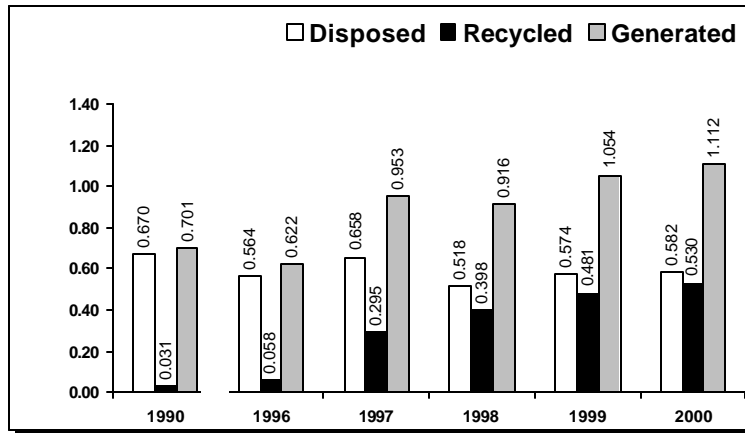
Year	Population	% change from prev yr	Total waste disposed (in tonnes)	% change from prev yr	Tonnes per capita disposed	% change from 1990	Total waste recycled (in tonnes)	% change from prev yr	Tonnes per capita recycled	% change from prev yr	Total waste generated (in tonnes)	% change from prev yr	Tonnes per capita generated	% change from prev yr
1990	104,386		69,939		0.670		3,285		0.031		73,224		0.701	
1996	124,725		70,295		0.564	-16	7,241		0.058		77,536		0.622	
1997	125,681	1	82,694	18	0.658	-2	37,137	413	0.295	409	119,831	55	0.953	53
1998	126,798	1	65,638	-21	0.518	-23	50,454	36	0.398	35	116,092	-3	0.916	-4
1999	128,298	1	73,623	12	0.574	-14	61,662	22	0.481	21	135,284	17	1.054	15
2000	130,192	1	75,747	3	0.582	-13	69,044	12	0.530	10	144,791	7	1.112	5

Approved solid waste management plan: Yes

SWMP State of implementation: 76-100%

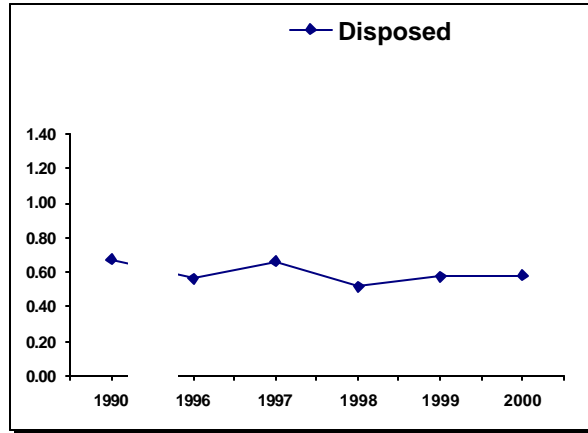
Date SWMP approved: December 21, 1995

Tonnes Per Capita Recycled and Disposed



Data status: Confirmed by Regional District

Tonnes Per Capita Disposed



Source of the Data: 1990 Grouping/Previous MSW Tracking reports  
 1996 Regional District  
 1997 Regional District  
 1998 Regional District  
 1999 Regional District  
 2000 Regional District

Note: 1. 1991-1995 data compiled using different methodology.

BC Municipal Solid Waste Tracking Report 2000

**Thompson-Nicola Regional District**

Disposed Waste Breakdown by Facility Type													
Disposal Facility	Disposal Method (LF/IN/XP/TTS)	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)			1999	2000
Mission Flats	LF	\$33/tonne	Y	Y	Y	N	Y	N	N	2060	2,100,000	41,188	46,564
Barnhartvale	LF	\$3/load	Y	N	Y	Y	N	N	N	2020	90,000	4,399	3,600
Cache Creek	LF		Y	Y	Y	N	N	Y	N	2008	6,500,000	5,314	5,183
Lower Nicola	LF		Y	Y	Y	Y	N	N	N	2030	330,000	3,718	4,597
Chase	LF		Y	Y	Y	Y	N	N	N	2005	50,000	3,408	3,917
Heffley Creek	LF		Y	Y	Y	Y	N	N	N	2020	415,000	4,416	5,190
Barriere	LF		Y	Y	Y	Y	N	N	N	2020	126,000	3,387	2,784
Clearwater	LF		Y	Y	Y	Y	N	N	N	2011	291950	4,070	1,899
Westwold	LF		Y	Y	N	N	N	N	N	2002		1,952	500
Logan Lake	LF		N	Y	N	Y	N	N	N	2000	45,000	1,771	1,513
<b>Total</b>												<b>73,623</b>	<b>75,747</b>

Recycled Waste Breakdown		
Class	Sub-Class	2000 Total (tonnes)
Glass	Co-mingled	31.4
Metal	White Goods	
	Other	2424.6
Organic	Food	307.4
	Yard	8503.5
Paper	OCC	3601.6
	ONP	2936.1
	Fine	569.9
	Mixed	
Plastic	Co-mingled	76.9
	Sorted	
DLC	Wood	7497.7
	Gypsum	25.0
	Concrete	1203.3
	Other	24680.0
Other	Specify	17187.0
<b>TOTAL</b>		<b>69044.4</b>
<b>TOTAL RECYCLED PER CAPITA (tonnes)</b>		<b>0.530</b>

**Notes, Challenges and Disposal Programs of Significance**

\*Other category includes the following items and tonnages: Oil filters=58.75; Primary sludge clarifier=16692.00; Antifreeze=31.17; Misc. sales at Kamloops landfill=88.00; Aluminum signs=0.70; City of Merritt Recycling Depot combined weight=283.87; BC Building Corp. mixed waste=6.07; and Christmas tree clippings=26.80.



**Appendix A:**  
**REGIONAL SURVEY RESPONSES**

**Part A: Regional Survey Response Summary**

**Percentage of BC Population Served by Various Regional Recycling Programs, 1999-2000**

	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										
						Single Family Residential		Multi-family Residential		ICI						
						Private Service	Public Service	Private Service	Public Service	Private Service	Public Service	Waste Reduction Coordinator	Eduction Coordinator	Landfill Manager	Public Service	Private Service
<b>1999</b>	83.1	68.6	32.7	67.8	24.0	18.5	72.0	25.9	58.8	29.2	1.0	28.2	31.4	20.9	4.6	25.0
<b>2000</b>	79.5	61.1	29.3	68.6	55.3	10.0	79.2	26.7	63.1	34.3	0.9	71.7	24.5	39.2	20.5	42.0
	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								
<b>1999</b>	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
<b>2000</b>	1.0	1.0	54.9	76.7	1.0	0.0	39.0	45.3	38.6	65.4	70.6	23.2	79.6	69.5	15.8	30.7

\*Note: Alberni-Clayoquot, Cariboo, Central Coast, Kitimat-Stikine and Northern Rockies Regional Districts did not provide data for this section representing 8% of the provincial total population. The 1999 data does not include Central Coast, Cariboo, Kitimat-Stikine, Skeena-Queen Charlotte and Squamish Lillooet Regional districts representing 5% of the 1999 total provincial population.

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

In order to complete the picture of MSW management in BC, WLAP 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: Alberni-Clayoquot, Cariboo, Central Coast, Kitimat-Stikine, and Northern Rockies . 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 <http://www.bcstats.gov.bc.ca/data/pop/pop/estspop.htm>.

All of the percentages (including those in the above table) were calculated using the total survey population of 3,844,835, which represents 95% of the population of BC. Hereafter, percentages and ‘% of the population’ refer to the survey population, except where otherwise indicated.

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

Approximately 80% of the population is serviced by single-family residential curbside recycling, however 87% 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 (79%) with the 10% that are privately run being more common in rural areas.

The per cent of the population serviced by staffed recycling depots (61%) is just over twice the number using unstaffed depots (29%). The staffed depots are concentrated in the regional districts with higher population densities, however unstaffed depots are located throughout the province. Ten regional districts have both staffed and unstaffed depots.

Multi-family and ICI collection services are available intermittently throughout the province. 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 (65%), although if GVRD is not factored into this calculation the emphasis shifts to the private sector as the value drops to 30% (with the private sector servicing 68%). Furthermore, privately run multi-family collection services exist in more regional districts (10), than do public (8). The private sector is also responsible for 34% of the ICI recycling in the province (available in 14 regional districts), while the public sector is responsible for 1% (available in 3 regional districts).

### **User Pay Strategy**

The majority of the population (80%) 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 70% of the population is required to pay if they wish to dispose of more household waste. Sixteen regional districts representing 41% of the population have implemented user-pay programs other than can/bag limits or collection fees for additional pickup, including variable unit fee structure and backyard burning bans. Sixteen percent of the population is subject to a variable unit fee structure. This occurs across BC regardless of population density.

Thirty-one 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. Thirty-five 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 FVRD) and Cobble Hill (in CVRD) a curbside collection program and a depot for both food and yard waste are in place. These services are available to 14% of the population in FVRD, 6% of the population in CVRD and 1% of the total population. Yard waste services alone, on the other hand, are more readily available, with 55% of the total population having access to curbside services and 77% being able to drop their yard waste off at depots.

In terms of composting facilities, food waste composting is available in Mission and Cobble Hill, while yard waste can be composted in 13 regional districts. Of those 15 regional districts, 13 are operating public facilities and 7 also have private composting services.

Fourteen regional districts have compost demonstration gardens servicing 71% of the population.

In the past, 39% of the population could purchase a backyard composting unit from their regional district; in 2000, this number increased to 65%. 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 23% 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.

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

Twelve regional districts, representing 63% of the population, have multi-material processing facilities. Five of the facilities are operated publicly, while 12 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 72% of the population. Education coordinators can be found in 12 regional districts (25% of the population), while 15 regional districts have landfill managers (39% 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 Peace River Regional District 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.

BC Municipal Solid Waste Tracking Report 2000

**Part B: Regional District Survey Responses**

**Alberni-Clayoquot Regional District** **No Data Returned**

**Bulkley-Nechako Regional District**

Municipality / E.A.	2000 Population	Residential Collection of Recyclables (other than compostables)								User Pay Strategy				
		SF Curbside (Y/N)	Depots Staffed (Y/N/n/a)	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
						SF	MF	ICI						
Fort St. James	5489	N	Y	N	N	N	N	N	N	N	N	N/A	2005	
Vanderhoof	8682	N	N/A	N	N	N	N	N	N	N	N	N/A	2005	
Ft. Fraser	406	N	N/A	N	N	N	N	N	N	N	N	N/A	2005	
Fraser Lake	3351	N	Y	N	N	N	N	N	N	N	N	N/A	2005	
Burns Lake	5187	N	Y	N	N	N	N	N	3	N	N	N/A	2005	
Southside	1986	N	N/A	N	N	N	N	N	N	N	N	N/A	2005	
Granisle	474	N	N/A	N	N	N	N	N	3	N	N	N/A	2005	
Knockholt	5418	N	Y	N	N	N	N	N	5	N	N	N/A	2005	
Smithers/Telkwa	13160	N	Y	N	N	PR	N	N	N	N	N	N/A	2005	
Manson Creek	51	N	N/A	N	N	N	N	N	N	N	N	N/A	N/A	
Municipality /E.A.	2000 Population	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			
Fort St. James	5489	N	N	Yd-PU	N	Y	N	N	23	N	N/A	Y	Y	Y
Vanderhoof	8682	N	N	Yd-PU	N	Y	N	N	17	N	N/A	Y	Y	Y
Ft. Fraser	406	N	N	N	N	N	N	N	25	N	N/A	Y	Y	Y
Fraser Lake	3351	N	N	Yd-PU	N	N	N	N	18	N	N/A	Y	Y	Y
Burns Lake	5187	N	N	Yd-PU	N	N	N	N	17	N	N/A	Y	Y	Y
Southside	1986	N	N	N	N	N	N	N	25	N	N/A	Y	Y	Y
Granisle	474	N	N	N	N	N	N	N	25	N	N/A	Y	Y	Y
Knockholt	5418	N	N	Yd-PU	N	N	N	N	13	N	N/A	Y	Y	Y
Smithers/Telkwa	13160	N	N	Yd-PU	N	Y	N	N	17	N	N/A	Y	Y	Y
Manson Creek	51	N	N	N	N	N	N	N	25	N	N/A	Y	Y	Y
<b>Disposal/ Recycling Measurement Challenges:</b> Only one weigh scale in Regional District, weight across Regional District assumed by population. Recycling not measured at all, in terms of tonnage. All recycling values assumed.								<b>Waste Composition Study:</b> Small scale study completed in 2000. Larger scale planned for 2001						
<b>Landfill Disposal Bans and Tipping Fee structure:</b> Bans: Tires, oil and oil products, special wastes								<b>Wood Waste Diversion:</b> Wood chipping program to start in 2001						
<b>Waste Reduction Goals and Challenges:</b> Cardboard is a major focus, as well as a challenge. Distance and population do not measure up to a logical, inexpensive program. Goal: to chip away at small recycling projects.								<b>Other:</b> Acceptance of appliances containing Ozone Depleting Substances Bylaw - 2001. Construction/demolition bylaw - 2001 includes tipping fees						

BC Municipal Solid Waste Tracking Report 2000

**Capital Regional District**

Municipality / E.A.	2000 Population	Residential Collection of Recyclables (other than compostables)							User Pay Strategy					
		SF Curbside (Y/N)	Depots Staffed (Y/N/n/a)	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
						SF	MF	ICI						
District of Central Saanich	Call CRD Regional Planning Services for Data (250) 360-3160	YES	NO	Private	Private	CRD	Private	Private	N/A	N/A	N/A	Partial	N/A	N/A
City of Colwood		YES	NO	Private	Private	CRD	Private	Private	N/A	N/A	N/A	YES	N/A	N/A
Town of Esquimalt		YES	NO	Private	Private	CRD	Private	Private	1	YES	NO	YES	Jan-91	N/A
District of Highlands		YES	NO	Private	Private	CRD	Private	Private	N/A	N/A	N/A	Partial	N/A	N/A
District of Langford		YES	NO	Private	Private	CRD	Private	Private	N/A	N/A	N/A	Partial	N/A	N/A
District of Metchosin		YES	NO	Private	Private	CRD	Private	Private	N/A	N/A	N/A	Partial	N/A	N/A
District of North Saanich		YES	NO	Private	Private	CRD	Private	Private	N/A	N/A	N/A	Partial	N/A	N/A
District of Oak Bay		YES	NO	Private	Private	CRD	Private	Private	1	YES	NO	YES	Jan-91	N/A
District of Saanich		YES	NO	Private	Private	CRD	Private	Private	1	YES	NO	Partial	Jan-91	N/A
Town of Sidney		YES	NO	Private	Private	CRD	Private	Private	1	YES	NO	Partial	20 Plus Years	N/A
District of Sooke		YES	NO	Private	Private	CRD	Private	Private	N/A	N/A	N/A	Partial	N/A	N/A
City of Victoria		YES	NO	Private	Private	CRD	Private	Private	1	YES	NO	YES	Jan-91	N/A
Town of View Royal		YES	NO	Private	Private	CRD	Private	Private	1	YES	NO	Partial	Jan-00	N/A
Juan de Fuca E.A.		PARTIAL	PARTIAL	Private	Private	CRD	Private	Private	N/A	N/A	N/A	NO	N/A	N/A
Salt Spring Island E.A.		NO	YES	Private	Private	Non-profit group	Private	Private	N/A	N/A	N/A	NO	N/A	N/A
Outer Gulf Islands E.A.		NO	YES	Private	Private	Non-profit group(s)	Private	Private	N/A	N/A	N/A	NO	N/A	N/A

BC Municipal Solid Waste Tracking Report 2000

Capital Regional District cont'd

Municipality /E.A.	2000 Population	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							
District of Central Saanich	Call CRD Regional Planning Services for Data (250) 360-3160	NO	NO	Private	NO	1992 & 93	NO	One Demo Garden to Serve the Whole Region	50% to 75% regional average.	YES	Private	N/A	N/A	N/A
City of Colwood		NO	NO	NO	NO	1992 & 93	NO			NO	N/A	N/A	N/A	N/A
Town of Esquimalt		NO	YES	NO	NO	1992 & 93	NO			NO	N/A	N/A	N/A	N/A
District of Highlands		NO	NO	NO	NO	1992 & 93	NO			NO	N/A	N/A	N/A	N/A
District of Langford		NO	NO	NO	NO	1992 & 93	NO			NO	N/A	N/A	N/A	N/A
District of Metchosin		NO	NO	NO	NO	1992 & 93	NO			NO	N/A	N/A	N/A	N/A
District of North Saanich		NO	NO	NO	NO	1992 & 93	NO			NO	N/A	N/A	N/A	N/A
District of Oak Bay		NO	YES	NO	NO	1992 & 93	NO			NO	N/A	N/A	N/A	N/A
District of Saanich		NO	YES	CRD Facility	NO	1992 & 93	NO			NO	N/A	N/A	N/A	N/A
Town of Sidney		NO	NO	NO	NO	1992 & 93	NO			NO	N/A	N/A	N/A	N/A
District of Sooke		NO	NO	NO	NO	1992 & 93	NO			NO	N/A	N/A	N/A	N/A
City of Victoria		NO	YES	NO	NO	1992 & 93	NO			YES	Private	N/A	N/A	N/A
Town of View Royal		NO	NO	NO	NO	1992 & 93	NO			NO	N/A	N/A	N/A	N/A
Juan de Fuca E.A.		NO	NO	NO	NO	1992 & 93	NO			NO	N/A	N/A	N/A	N/A
Salt Spring Island E.A.		NO	NO	NO	NO	1992 & 93	NO			NO	N/A	N/A	N/A	N/A
Outer Gulf Islands		NO	NO	NO	NO	1992 & 93	NO			NO	N/A	N/A	N/A	N/A

Cariboo Regional District

**No Data Returned**

Central Coast Regional District

**No Data Returned**

BC Municipal Solid Waste Tracking Report 2000

Central Kootenay Regional District

Municipality / E.A.	2000 Pop	Residential Collection of Recyclables (other than compostables)							User Pay Strategy					
		SF Curbside (Y/N)	Depots Staffed (Y/N/n/a)	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
						SF	MF	ICI						
A-Wyndel/E. Shore-Kootenay Lake	2,200	N	N	N	N	N/A	N/A	PR	NA	PR	Y	N	Mar-97	NA
B	5,150	N	N	N	N	N/A	N/A	PR	NA	PR	Y	N	Mar-97	NA
C	1,550	N	N	N	N	N/A	N/A	PR	NA	N/A	Y	N	Mar-97	NA
D	2,550	N	N	N	N	N/A	N/A	N/A	NA	N/A	Y	N	Mar-97	NA
E	3,730	PR	N	PR	PR	PR	PR	PR	NA	PR	Y	N	Mar-97	NA
F	4,050	PR	N	PR	PR	PR	PR	PU/PR	NA	PR	Y	N	Mar-97	NA
G	1,650	N	N	N	N	N/A	N/A	N/A	NA	N/A	Y	N	Mar-97	NA
H - Slocan Valley	4,685	N	N	N	PR	N/A	N/A	PR	NA	PR	Y	N	Mar-97	NA
I	2,635	PR	N	PR	PR	N/A	N/A	PR	NA	PR	Y	N	Mar-97	NA
J-Lower Arrow/Columbia	3,700	PR	N	PR	PR	N/A	N/A	PR	NA	PR	Y	N	Mar-97	NA
K-The Arrow Lakes	2,100	N	N	N	N	N/A	N/A	N/A	NA	N/A	Y	N	Mar-97	NA
Castlegar	7,380	PR	Y/N	PR	PR	PR	PR	PR	2	\$5/6TAG	Y	N	Mar-97	NA
Creston	5,060	N	Y/N	N	PR	PR	PR	PR	2	\$2/TAG	Y	N	Mar-97	NA
Kaslo	1,120	N	N	N	PR	N/A	PR	PR	0	\$2/TAG	Y	N	Mar-97	NA
Nakusp	1,825	N	N	N	PR	N/A	N/A	PR	0	5BAG=\$11.5	Y	N	Mar-97	NA
Nelson	10,070	PR	Y/N	PR	PR	PR	PR	PU	1	\$2/TAG	Y	N	Mar-97	NA
New Denver	610	N	N	N	PR	N/A	N/A	PR	2	\$2/TAG	Y	N	Mar-97	NA
Saimo	1,265	PR	N	PR	PR	N/A	PR	PR	2	\$2/TAG	Y	N	Mar-97	NA
Silverton	255	N	N	N	PR	N/A	N/A	NA	1	\$1/TAG	Y	N	Mar-97	NA
Slocan	355	N	N	N	N	N/A	N/A	N/A	2	\$2/TAG	Y	N	Mar-97	NA

BC Municipal Solid Waste Tracking Report 2000

Central Kootenay Regional District cont'd

Municipality /E.A.	2000 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  look after all areas of 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			
<b>Disposal/ Recycling Measurement Challenges:</b>														
Only one waste disposal site has a scales. All other waste from transfer stations must be estimated. Until all waste disposal sites have scales, a true disposal weight will be unknown.														

BC Municipal Solid Waste Tracking Report 2000

Central Okanagan Regional District

		Residential Collection of Recyclables (other than compostables)							User Pay Strategy					
Municipality / E.A.	2000 Population	SF Curbside (Y/N)	Depots Staffed (Y/N/n/a)	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
						SF	MF	ICI						
City of Kelowna	99406	Y	Y	N	N	PU	PR	PR	N	Y-garbage only	Y-garbage only	Y	1975	N/A
RDCO - Westside	33397	Y	Y	N	N	PU	PR	PR	N	Y-garbage only	Y-garbage only	Y	1994	N/A
RDCO - Electoral Area I	4089	Y	n/a	N	N	PU	PR	PR	N	Y-garbage only	Y-garbage only	Y	2001	N/A
District of Lake Country	10063	Y	n/a	N	N	PU	PR	PR	N	Y-garbage only	Y-garbage only	Y	N/A	N/A
District of Peachland	5018	Y	n/a	Y	Y	PU	PU	PU	N	Y-garbage only	Y-garbage only	Y	unknown	N/A
		Composting Programs and Facilities							Multi-material Processing Facility		Waste Reduction Staff (Y/N)			
Municipality / E.A.	2000 Population	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							
Kelowna	99406	Y-Yd	Y-Yd	Y-PR	N	Y	N	Y	50%	Y	PR	Y	Y	Y
RDCO - Westside	33397	Y-Yd	Y-Yd	Y-PR	N	Y	N	N	50%	N	N/A	Y	Y	Y
RDCO - Area I	4089	Y-Yd	N	N	N	Y	N	N	50%	N	N/A	Y	Y	Y
District of Lake	10063	Y-Yd	N	Y-PR	N	Y	N	N	50%	N	N/A	Y	Y	Y
District of Peachland	5018	Y-Yd	Y-Yd	N	N	Y	N	N	50%	N	N/A	Y	Y	Y
<b>Disposal/ Recycling Measurement Challenges:</b> This year we are only tracking waste and recycling tonnages and efforts by municipal forces. Does not include those of the private/commercial sector.								<b>Wood Waste Diversion:</b> Completed a Wood Residue Survey in 2000.						
<b>Landfill Disposal Bans and Tipping Fee structure:</b> Newspaper and cardboard are banned materials and must be recycled. Loads containing these materials are subject to fines. Asphalt and concrete are banned materials. Higher fees for loads containing these materials. Basic Charges: Minimum \$6 charge for loads up to 250 kg. Loads over 250 kg are charged at \$50 per MT pro-rated. Special fees are charged for mattresses, box springs, tires, propane tanks, white goods and appliances, sod and garden waste over 1/2" in diameter. Yard waste under 1/2" in diameter, including grass, leaves and prunings can be dropped off free-of-charge year-round.														
<b>Waste Reduction Goals and Challenges:</b> Plastics: limited local opportunities to recycle any household plastics other than #2 cloudy plastics (HDPE). ICI: launching a new business recycling program. Aim to have 100 businesses on the program within a year. Multi-family residences: this sector is being handled by private companies. A few local companies are actively pursuing the avenue. The challenge is that some facilities see recycling as too costly. Public: Continue public education, especially in partnership with other environmental educators (City of Kelowna, RDCO Parks, WaterSmart). Also working on enhancing the composting education program based on falling attendance and on research done on targeting various audiences for environmental topics.														

BC Municipal Solid Waste Tracking Report 2000

**Columbia Shuswap Regional District**

		Residential Collection of Recyclables (other than compostables)						User Pay Strategy						
Municipality / E.A.	2000 Population	SF Residential Curbside (Y/N)	Depots Staffed (Y/N/n/a)	MF (Y/N)	ICI (Y/N)	Collection Agency (PU/PR)			Can/Bag Limits (number if applicable)	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
						SF	MF	ICI						
Columbia Shuswap	52973	N	N	N	N									
		Composting Programs and Facilities						Waste Reduction Staff (Y/N)						
Municipality / E.A.	2000 Population	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	52973	N	N			Y	N							
<b>Landfill Disposal Bans and Tipping Fee structure:</b>														
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 in place.														

**Comox-Strathcona Regional District**

		Residential Collection of Recyclables (other than compostables)						User Pay Strategy						
Municipality / E.A.	2000 Population	SF Curbside (Y/N)	Depots Staffed (Y/N/n/a)	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
						SF	MF	ICI						
Courtenay	19803	Y	N	Y		PR	PR		2	Y	N			
<b>Disposal/ Recycling Measurement Challenges:</b>						<b>Waste Reduction Goals and Challenges:</b>								
Problems in getting private sector to give information but we didn't include private sector information this year.						We are looking at taking more plastics in 2002 and at increasing the number of unstaffed drop-off recycling depots. The 5 year recycling collection contract ends in the fall of 2002.								
<b>Landfill Disposal Bans and Tipping Fee structure:</b>														
RDC-S has variable tipping fees in place - with no change from previous years ie \$45 tonne for the following: mixed commercial and residential waste, yard waste, construction and demolition - excluding asbestos, tires no rims max 4/day.														

BC Municipal Solid Waste Tracking Report 2000

**Cowichan Valley Regional District**

Municipality / E.A.	2000 Population	Residential Collection of Recyclables (other than compostables)							User Pay Strategy					
		SF Curbside (Y/N)	Depots Staffed (Y/N/n/a)	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
						SF	MF	ICI						
City of Duncan	4,765	Y	N	N	Y	PU	PU	PU	2 cans/wk	Y	Y	Y	May-99	N/A
District of North	27,610	Y	Y	N	Y	PU	PR	PR	2cans/2wks	Y	Y	Y	Aug-99	N/A
Town of Ladysmith	6,960	Y	N	N	Y	PU	PR	PR	2cans/2wks	Y	Y	Y	Jan-00	N/A
Town of Lake Cowichan	3,085	Y	N	N	Y	PU	PU	PU	2cans/2wks	Y	Y	N	Sep-00	N/A
A Mill Bay/Malahat	3,590	Y	N	N	Y	PU	PR	PR	tickets	Y	Y	N	Aug-99	N/A
B Shawnigan Lake	7,415	Y	N	N	Y	PU	PR	PR	tickets	Y	Y	N	Aug-99	N/A
C Cobble Hill	4,690	N	N	N	Y	PR	PR	PR	tickets	Y	Y	N	N/A	N/A
D Cowichan Bay	2,865	Y	N	N	Y	PU	PR	PR	2cans/2wks	Y	Y	N	Jul-99	N/A
E Cowichan Station /	4,065	Y	N	N	Y	PU	PR	PR	2cans/2wks	Y	Y	N	Jul-99	N/A
F Cowichan Lake	1,895	Y	N	N	Y	PU	PR	PR	2cans/2wks	Y	Y	N	Jul-99	N/A
G Saltair / Gulf Islands	2,545	Y	Y	N	Y	PU	PR	PR	2cans/2wks	Y	Y	N	Jul-99	N/A
H North Oyster / Diamond	2,485	Y	N	N	Y	PU	PR	PR	tickets	Y	Y	N	Jul-99	N/A
I Youbou / Meade Creek	1,445	Y	Y	N	Y	PU	PR	PR	2cans/2wks	Y	Y	N	Aug-99	N/A
Indian Reserves	3,405	N	N	N	Y	PU	PR	PR	unlimited	N	N	N	N/A	N/A
Municipality / E.A.	2000 Population	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			
City of Duncan	4,765	N	Y-YD	Y-PU	N	Y	N	N	1.1	N		Y-CVRD	N	N/A
District of North	27,610	N	N	N	N	Y	N	N	6.5	N		Y-CVRD	Y	N/A
Town of Ladysmith	6,960	N	Y-YD	Y-PU	N	Y	N	N	1.6	N		Y-CVRD	N	N/A
Town of Lake Cowichan	3,085	N	N	N	N	Y	N	N	0.7	N		Y-CVRD	N	N/A
A Mill Bay/Malahat	3,590	N	N	N	N	Y	N	N	0.9	N		Y-CVRD	N	N/A
B Shawnigan Lake	7,415	N	N	N	N	Y	N	N	1.7	N		Y-CVRD	N	N/A
C Cobble Hill	4,690	Y-YD,FD	Y-YD,FD	Y-PR	Y-PR	Y	N	N	1.1	N		Y-CVRD	N	N/A
D Cowichan Bay	2,865	N	N	N	N	Y	N	N	0.7	N		Y-CVRD	N	N/A
E Cowichan Station /	4,065	N	Y-YD	N	N	Y	N	N	1	N		Y-CVRD	N	N/A
F Cowichan Lake	1,895	N	N	N	N	Y	N	N	0.5	N		Y-CVRD	N	N/A
G Saltair / Gulf Islands	2,545	N	Y-YD	N	N	Y	N	N	0.6	N		Y-CVRD	N	N/A
H North Oyster / Diamond	2,485	N	N	N	N	Y	N	N	0.6	N		Y-CVRD	N	N/A
I Youbou / Meade Creek	1,445	N	Y-YD	N	N	Y	N	N	0.3	N		Y-CVRD	N	N/A
Indian Reserves	3,405	N		N	N	Y	N	N	0.8	Y/N	PR	N	N	N/A

BC Municipal Solid Waste Tracking Report 2000

East Kootenay Regional District

Municipality / E.A.	2000 Population	Residential Collection of Recyclables (other than compostables)							User Pay Strategy					
		SF Curbside (Y/N)	Depots Staffed (Y/N/n/a)	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
						SF	MF	ICI						
E.A. - A	1811	N		N	N				N/A	N/A	N	SEASONAL	N/A	N/A
E.A. - B	1840	N		N	N				N/A	N/A	N	SEASONAL	N/A	N/A
E.A. - C	5977	N		N	N				N/A	N/A	N	SEASONAL	N/A	N/A
E.A. - E	1949	N		N	N				N/A	N/A	N	SEASONAL	N/A	N/A
E.A. - F	3398	N		N	N				N/A	N/A	N	SEASONAL	N/A	N/A
E.A. - G	1521	N		N	N				N/A	N/A	N	SEASONAL	N/A	N/A
CRANBROOK	18327	Y	Y	N	N	PR			N/A	N/A	Y	SEASONAL	Aug-00	
KIMBERLEY	6738	Y	Y	N	N	PR			3can/5bag	NO	Y	SEASONAL	Aug-00	
FERNIE	4877	Y		N	N	PU			3 bags	Y (\$1)	Y	SEASONAL	1999	
SPARWOOD	3982	N		N	N				2 bags	Y (\$1)	N	SEASONAL	2001	
ELKFORD	2729	N		N	N				3 bags	NO	N	SEASONAL	2001	
INVERMERE	2687	Y		N	N	PR			3 bags	Y (\$0.50)	Y	SEASONAL	1995	
RADIUM	530	N		N	N				N/A	N/A	Y	SEASONAL	1995	

Municipality /E.A.	2000 Population	Composting Programs and Facilities							Estimated Percent of Population with backyard composters	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)		Y/N	PU/PR	Waste Reduction Coordinator	Education Coordinator	Landfill Manager
		Curbside	Depot	Yd	Fd	In past	On-going							
E.A. - A	1811	N	N	N		Y	Y	N	40	N		N	Y	
E.A. - B	1840	N	N	N		Y	Y	N	40	N		N	Y	
E.A. - C	5977	N	N	Y-PU		Y	Y	N	40	N		N	Y	
E.A. - E	1949	N	N	N		Y	Y	N	40	N		N	Y	
E.A. - F	3398	N	N	N		Y	Y	N	40	N		N	Y	
E.A. - G	1521	N	N	N		Y	Y	N	40	N		N	Y	
CRANBROOK	18327	N	Y-yd	Y-PU		Y	Y	N	20	Y	PU/PR	N	Y	
KIMBERLEY	6738	N	Y-yd	Y-PU		Y	Y	N	20	Y	PR	N	Y	
FERNIE	4877	N	Y-yd	Y-PU		N	N	N	10	Y	PR	N	Y	
SPARWOOD	3982	N	Y-yd	Y-PU		Y	Y	N	20	Y	PR	N	Y	
ELKFORD	2729	N	Y-yd	Y-PU		Y	Y	N	10	N		N	Y	
INVERMERE	2687	N	Y-yd	Y-PU		Y	Y	N	20	Y	PU/PR	N	Y	
RADIUM	530	N	Y-yd	Y-PU		Y	Y	N	20	N		N	Y	

## BC Municipal Solid Waste Tracking Report 2000

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### East Kootenay Regional District Cont'd

<p>It is impossible to get an accurate assessment of the amount of material being recycled because of the private sector totals. The cost of recycling continues to present a challenge as well.</p>	<p>We have previously conducted a waste minimization report in the Elk Valley Subregion and utilize provincial statistics on an ongoing basis.</p>
<p><b>Landfill Disposal Bans and Tipping Fee structure:</b>          In 2000, User Fee Schedules came into effect at the Cranbrook and Kimberley Transfer Stations, and Central Subregion Landfill. User fees have been in effect for over five years at the Windermere Landfill. Under the User Fee Schedule, there is a minimum \$5 fee for loads containing chargeable materials. There is no charge for regular household garbage. 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.</p>	<p><b>Wood Waste Diversion:</b>          We have wood waste piles at our 3 rural transfer station sites with marshalling areas, at the Cranbrook and Kimberley Transfer Stations, Central Subregion Landfill and Windermere Landfill. 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 Landfill and Windermere Landfill site. In addition, we are continuing to look at the feasibility of utilizing a co-generation plant recently completed in our region as an option for dealing with clean wood waste.</p>
<p><b>Waste Reduction Goals and Challenges:</b>          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 our recycling program and waste diversion. She has been doing a range of different public ed activities including advertising, writing columns in community newspapers, doing presentations to community groups and service clubs and working with the schools.</p>	<p><b>Other:</b>          In our area, we have a significant seasonal population that is not accounted for in our population statistics. This presents a problem in terms of evaluating the amount of waste generated per capita as there is a large portion of the population unaccounted for. In addition, 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.</p>

BC Municipal Solid Waste Tracking Report 2000

**Fraser-Fort George Regional District**

Municipality / E.A.	2000 Population	Residential Collection of Recyclables (other than compostables)							User Pay Strategy					
		SF Curbside (Y/N)	Depots Staffed (Y/N/ n/a)	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
						SF	MF	ICI						
Prince George	n/a		N					PR	4	N	Y	N	1995	
Mackenzie	n/a		N					PR	4	N	Y	N	1998	
McBride	n/a		N					PR	4	N	Y	N	1998	
Valemount	n/a		N					PR	4	N	Y	N	1998	
Composting Programs and Facilities											Waste Reduction Staff (Y/N)			
Municipality /E.A.	2000 Population	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				Y-PU		Y		Y		Y	PR			
Mackenzie				Y-PU		Y								
McBride						Y								
Valemount				Y-PU		Y								
<b>Disposal/ Recycling Measurement Challenges:</b> - lack of diversion information data from stewardship programs and provincial tire and battery programs - private recycling programs								<b>Waste Composition Study:</b> - none planned						
<b>Landfill Disposal Bans and Tipping Fee structure:</b> - no change since last year								<b>Wood Waste Diversion:</b> - none planned						
<b>Waste Reduction Goals and Challenges:</b> Challenges include: - lack of provincial funding - transportation distances and associated costs - economies of scale due to low population densities - lack of alternate waste reduction services from private sector														

BC Municipal Solid Waste Tracking Report 2000

Fraser Valley Regional District

		Residential Collection of Recyclables (other than compostables)							User Pay Strategy					
Municipality / E.A.	2000 Population	SF Curbside (Y/N)	Depots Staffed (Y/N/n/a)	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
						SF	MF	ICI						
E.A - A	880	N	N/A	N	N	PR	PR	PR	HD	HD	HD	N		
E.A - B	1,367	Y	N	Y	Y	PR - Contract	PR - Contract	PR - Contract	2	Y	Y	N	1991	
E.A - C	1,710	N	Y	N	N	PR	PR	PR	HD	HD	HD	N		
E.A - D	4,740	N	N/A	N	N	PR	PR	PR	HD	HD	HD	N		
E.A - E		N	N/A	N	N	PR	PR	PR	HD	HD	HD	N		
E.A - F	3,690	N	Y	N	N	PR	PR	PR	HD	HD	HD	N		
E.A - G		N	N/A	N	N	PR	PR	PR	HD	HD	HD	N		
E.A - H	356	N	N/A	N	N	PR	PR	PR	HD	HD	HD	N		
ABBOTSFORD	117,006	Y	Y	Y	N - Private	PU/PR	PU/PR	PR	2	Y	N	Y	1994	
CHILLIWACK	66,853	N	Y - Private	N	N - Private	PR	PR	PR	HD	HD	HD	Y	1993	
DIST. OF MISSION	32,931	Y	Y	N	N - Private	PU	PU	PR	2	Y	Y	Y		
DIST. OF HOPE	6,825	Y	Y	Y	Y	PR - Contract	PR - Contract	PR - Contract	2	Y	Y	Y	1991	
DIST. OF KENT	5,300	N	Y	N	N - Private	PR	PR	PR	HD	HD	HD	Y		
HARRISON HOT SPRINGS	1,350	Y	N - Comm.	N	N - Private	PU	PR	PR	2	Y	N	Y		
		Composting Programs and Facilities							Multi-material Processing Facility		Waste Reduction Staff (Y/N)			
Municipality /E.A.	2000 Population	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/A	N	N	Y	Y		20%	N				Y - Landfill Society
E.A. - B	1,367	Y - Yd	Y - Yd	N	N	Y	Y		20%	N				N/A
E.A. - C	1,710	N	Y - Yd	N	N	Y	Y		20%	N				N/A
E.A. - D	4,740	N	N/A	N	N	Y	Y		20%	N				N/A
E.A. - E		N	N/A	N	N	Y	Y		20%	N				N/A
E.A. - F	3,690	N	Y - Yd	N	N	Y	Y		20%	N				N/A
E.A. - G		N	N/A	N	N	Y	Y		20%	N				N/A
E.A. - H	356	N	N/A	N	N	Y	Y		20%	N				N/A
ABBOTSFORD	117,006	N	Y - Yd	Y - PU	N	Y	Y		37%	Y	PU/PR		Same person	N
CHILLIWACK	66,853	N	Y - Yd	Y - PR	N	Y	N		5 - 10%	Y	PR		Same person	
DIST. OF MISSION	32,931	Y - Yd/Fd	Y - Yd/Fd	Y - PR	Y - PR	Y	N	Y	25%	Y	PU/PR		Same person	Y
DIST. OF HOPE	6,825	Y - Yd	N	Y - PU	N	Y	Y		33%	Y	PR	Y - Dir. Dev.	N - contract	Y - Dir. Dev.
DIST. OF KENT	5,300	N	Y - Yd	N	N	Y	Y		20%	Y	PR	N	N	N/A
HARRISON HOT SPRINGS	1,350	N	N	N	N	Y	Y	see above	50%	N		N	N	N/A

Note: HD refers to hauler dependant limits or prices

## BC Municipal Solid Waste Tracking Report 2000

### Fraser Valley Regional District Con't

<p><b>Disposal/ Recycling Measurement Challenges:</b> 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. <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 Strategy and Toolkit. DLC Sector- Facilities needed to provide alternatives to Native landfills. Tipping fee covered by Electoral Area A by tax requisition. Fees for waste received outside of E.A A based on bag/truck size and/or type of waste (white goods, scrap metal, tires, etc.)</p>	<p><b>Wood Waste Diversion :</b> 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.</p>
<p><b>Waste Reduction Goals and Challenges:</b> <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.</p>	<p><b>Other:</b> 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.</p>
<p><b>Landfill Disposal Bans and Tipping Fee structure :</b> Please see each municipality w/landfills. Chaumox Road Landfill bans: hazardous waste, waste oil, tires, white goods, scrap metal, construction waste w/&gt;15% gypsum.</p>	<p><b>Waste Composition Study:</b> Studies were completed pre-FVRD amalgamation</p>
<p><b>Abbotsford</b></p>	
<p><b>Disposal and Recycling Measurement Challenges:</b> DLC -- 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> <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> (All materials 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 flammable 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> 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> 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>	

## BC Municipal Solid Waste Tracking Report 2000

### Fraser Valley Regional District Cont'd

#### 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> 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> 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>

<p><b>Hope</b></p>	
<p><b>Disposal and Recycling Measurement Challenges:</b> 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> 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> 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> 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> 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> ICI Sector -- 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> Waste statistics/poll planned for residential units in the new year.</p>
<p><b>Landfill Disposal Bans and Tipping Fee Structure:</b> -- \$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> 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> challenges are ICI sector, specifically plastics and mixed paper.</p>	<p><b>Other:</b> Bylaw change or economic incentives required for ICI sector to actively participate in recycling.</p>

BC Municipal Solid Waste Tracking Report 2000

**Greater Vancouver Regional District**

Municipality / E.A.	2000 Population	Residential Collection of Recyclables (other than compostables)							User Pay Strategy					
		SF Curbside (Y/N)	Depots Staffed (Y/N/n/a)	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
						SF	MF	ICI						
Anmore	1306	N		N										
Belcarra	712	N	?	N										
Bowen Island	3167	N	Y	N	Y-Depot									
Burnaby	192389	Y	Y	Y-100%	Y	PU	PU		3	N			Jan. 1, 1997	
Coquitlam	112278	Y	Y/N	Y-100%	N	PU	PU		2	\$2.00/bag			Apr. 1, 1993	
Delta	101433	Y	Y	Y-100%	Y	PU	PU		2	\$15.00/12 tags			1994	
Electoral Area A/UBC	8227	N	N	Y-90%	Y-Schools		PU							
Langley City	24278	Y	N	Y	Y-Depot & schools	PU	PU		2	\$10.00/10 tags			Sep. 9, 1994	
Langley Township	89351	Y	Y	Y-100%	Y-Depot	PU	PU		2	\$1.00/bag			Apr. 1, 1994	
Lions Bay	1498	Y		N		PU			3					
Maple Ridge	63138	Y	Y	Y-100%	Y	PU	PU							
New Westminster	54904	Y	Y	PILOT	Y	PU	PU		2	\$1.50/bag			Jan. 1996	
North Shore*	173205	Y	Y	Y-100%	Y-Depot	PU	PU		2 or 3	\$2.00/bag			Apr. 1, 1998	
Pitt Meadows	14850	Y		Y-90%		PU	PU		1	\$1.50/bag			Aug. 1993	
P. Coquitlam	51423	Y		Y-100%		PU	PU		3					
Port Moody	23819	Y		Y-100%	Y	PU	PU		2	\$1.00/bag			Feb. 1, 1993	
Richmond	165133	Y	Y	Y-100%	Y-Depot	PU	PU		2	\$2.00/bag			Apr. 1, 1996	
Surrey	340094	Y		Y-90.6%		PU	PU		2	\$1.00/bag			Jul. 1, 1998	
Vancouver	565,905	Y	Y	Y-100%	Y-Depot	PU	PU		2	\$7.50/5tags			Feb. 1999	
White Rock	17,371	Y	N	Y-83%	Y	PU	PU		2	\$3.00/tag			May 1, 1989	

BC Municipal Solid Waste Tracking Report 2000

Greater Vancouver Regional District Cont'd

*includes City of West Vancouver, City of North Vancouver and District of North Vancouver		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
		Curbside	Depot	Yd	Fd	In past	On-going							
Anmore	1306													
Belcarra	712													
Bowen Island	3167													
Burnaby	192389	Y-Yd	Y-Yd	Y-PR			Y	Y						
Coquitlam	112278	PR-Yd	Y-Yd	Y-PR			Y			Y	PR	Y		
Delta	101433	Y-Yd	Y-Yd	Y-PU			Y	Y		Y	PR	Y		
Electroal Area A/UBC	8227											Y		
Langley City	24278		Y-Yd	Y-PU										
Langley Township	89351	Y-Yd	Y-Yd	Y-PU			Y	Y						
Lions Bay	1498						Y							
Maple Ridge	63138		Y-Yd	Y-PR			Y	Y		Y	PR			
New Westminster	54904	Y-Yd	Y-Yd	PU/PR										
North Shore	173205	Y-Yd	Y-Yd	Y-PR			Y	2		Y	PR			
Pitt Meadows	14850		Y-Yd	Y-PR			Y							
P. Coquitlam	51423		Y-Yd	PU/PR			Y							
Port Moody	23819	Y-Yd		Y-PU										
Richmond	165133	Y-Yd	Y-Yd	PU/PR			Y	Y				Y		
Surrey	340094	Y-Yd	Y-Yd	Y-PR			Y	2		Y	PR			
Vancouver	565,905	Y-Yd	Y-Yd	Y-PU			Y	Y		Y	PU			Y
White Rock	17,371	Y-Yd					Y	N						

Kitimat-Stikine Regional District

**No data returned**

BC Municipal Solid Waste Tracking Report 2000

**Kootenay Boundary Regional District**

Municipality / E.A.	2000 Population	Residential Collection of Recyclables (other than compostables)							User Pay Strategy					
		SF Curbside (Y/N)	Depots Staffed (Y/N/n/a)	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
						SF	MF	ICI						
RDKB	34,156		N	N	N	N	N	N	NA					
FRUITVALE	2153	Y	N						SEE NOTE	N	N	N	1997	
MONTROSE	1169	N	N						SEE NOTE	N	N	N	1999	
TRAIL	7626	N	Y						2	\$0.75	N	N	1999	
WARFIELD	1800	Y	N/A						2	\$2	N	N		
ROSSLAND	3859	N	N						SEE NOTE	N	N	N	1998	
GRAND FORKS	4320	N	Y						2	\$1	N	Y		
GREENWOOD	761	N	N						SEE NOTE	N	N	N	1996	
MIDWAY	686	N	N						SEE NOTE	N	N	N	1998	
		Composting Programs and Facilities							Waste Reduction Staff (Y/N)					
Municipality /E.A.	2000 Population	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			
RDKB	34,156	N	Y-YD	Y	N	Y	Y	N	20	Y	PU owned	Y	N	Y
				PU owned							PR oper.			
				PR oper										
<b>Disposal/ Recycling Measurement Challenges:</b> Same as last year: Waste disposed at small rural landfills is still estimated. No scales are in place or planned.								<b>Waste Composition Study:</b> No.						
<b>Landfill Disposal Bans and Tipping Fee structure:</b> In addition to the bans already in place (see last year) we will be implementing bans on glass, tin and No. 2 natural and yard and garden material effective September 1, 2001. Tipping fees remain the same as in 1999.								<b>Wood Waste Diversion:</b> Same as last year: 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>Waste Reduction Goals and Challenges:</b> Expect the goal to become Zero Waste before the end of 2001.								<b>Other:</b> Same as last year: 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 marked 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.						

BC Municipal Solid Waste Tracking Report 2000

**Mount Waddington Regional District**

Municipality / E.A.	2000 Population	Residential Collection of Recyclables (other than compostables)							User Pay Strategy						
		SF Curbside (Y/N)	Depots Staffed (Y/N/n/a)	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	
						SF	MF	ICI							
Mount Waddington	15058	N	Y	N		Y	N	PR	N/A	N/A	Y	N	N/A	N/A	
Composting Programs and Facilities											Multi-material Processing Facility		Waste Reduction Staff (Y/N)		
Municipality / E.A.	2000 Population	Food and/or Yard Waste		Composting		Backyard Composter		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								
Mount Waddington	15058	N	Y	N	N	Y	Y	N	Unknown	N		N	N	Y	
<b>Landfill Disposal Bans and Tipping Fee structure:</b> Municipal solid waste disposal is funded by tax requisition. Liquid wastes and hazardous wastes are banned. Tipping fees: Controlled Waste \$20-250/tonne, Recyclable materials not in system \$2-10/each and \$32.50/tonne, Mixed waste \$120/tonne, Apparatus containing CFCs \$15 per unit, Carcasses \$30/tonne.								<b>Wood Waste Diversion:</b> Construction waste including dimensional lumber is diverted to the on-site salvage program for re-use in the community.							
<b>Other:</b> Compost fish waste and septic sludge at 7-Mile Landfill. Paint and Product Care Depots at the 7-Mile operate very successfully															

BC Municipal Solid Waste Tracking Report 2000

**Nanaimo Regional District**

Municipality / E.A.	2000 Population	Residential Collection of Recyclables (other than compostables)								User Pay Strategy				
		SF Curbside (Y/N)	Depots Staffed (Y/N/n/a)	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
						SF	MF	ICI						
Regional District (includes all member municipalities - RDN collection program serves approx. 55,000)	134929	Y	Y	N	N	PU	PR(partial PU)	PR	1	Y	Y	Partial	1990	
City of Parksville (curbside garbage and recyclable collection done by RDN)	10,280	Y	n/a	N	N	PU	PR(partial PU)	PR	1	Y	Y	Y	1990	
Town of Qualicum Beach (curbside recyclables done by RDN garbage done by town)	7,135	Y	n/a	Y	Y	PU	PU	PU	1	Y	Y	Y	1990	
Lantzville Improvement District (curbside recyclables done by RDN garbage done by LID)	2900	Y	n/a	N	N	PU	PR	PR	1	Y	Y	Partial	1990	
		Composting Programs and Facilities							Multi-material Processing Facility		Waste Reduction Staff (Y/N)			
Municipality /E.A.	2000 Population	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							
Regional District	134,929	N	Y-Yd	PR	N		Y (region wide)	Y	58.8% compost, of those 34% use composter distributed by RDN (region wide)	Y	PR	Y	N	Y
City of Parksville	10,280	Y-Yd	Partial Yd	PR	N			Y		N		N	N	N
Town of Qualicum	7,135	Y-Yd	Partial Yd	N	N					N		N	N	N
City of Nanaimo	76,645	N	Y-Yd	N	N			Y		Y	PR	N	N	N

# BC Municipal Solid Waste Tracking Report 2000

## Nanaimo Regional District Cont'd

<p><b>Disposal/ Recycling Measurement Challenges:</b>                  The primary challenge is in receiving accurate recycling data from the private recycling facilities. There is a very competitive industry and most operators are reluctant to give us information that could be used by their competitors. Other challenges include credible measuring protocols for waste reduction activities and standardization throughout the industry on terminology and measurement methods (lets agree on what all of the waste commodities are called and how we measure them). Finally, more clear guidelines on what should be included in our waste diversion calculations, for example, scrap metal handled by the private sector - in or out?)</p>	<p><b>Waste Composition Study:</b>                  We did a tiny little waste comp survey to give us a snapshot on how much plastic by weight is in our curbside garbage stream, results on a separate attached file.</p>
<p><b>Landfill Disposal Bans and Tipping Fee structure:</b>                  Banned materials: metal, paper, cardboard, glass, tires                  Tipping fee structure:                  *\$4.00 &lt;100 kg Solid Waste      *\$4 flat rate &lt; 100kg Controlled Construction/Demolition Waste                  *\$81 to 180/tonne Solid Waste</p>	<p><b>Wood Waste Diversion:</b>                  An RFP process was conducted to implement a private sector DLC facility. The winning proponent has yet to begin work on the facility and it is somewhat doubtful at this time whether the facility will be built at all. We will evaluate the situation and probably initiate another proposal call.</p>
	<p><b>Waste Reduction Goals and Challenges:</b>                  The RDN Board has adopted Zero Waste as our long term strategy. The attached report was used to acquire the Board assent. The details of the Zero Waste plan are being worked out and will likely be described in the next revision to our management plan.</p>

## North Okanagan Regional District

Municipality / E.A.	2000 Population	Residential Collection of Recyclables (other than compostables)							User Pay Strategy					
		SF Residential Curbside (Y/N)	Depots Staffed (Y/N/n/a)	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
RDNO	79047	Y	Y	Y	Y	PU	PU	PR	2	Y	N	Y	1991	
Municipality / E.A.	2000 Population	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
RDNO	79047	N	N	Y-PU	N	Y	N	Y	30	Y	PR	Y	Y	Y
<p><b>Disposal/ Recycling Measurement Challenges:</b>                  It is difficult to obtain accurate private sector tonnages. All major diversion efforts have been surveyed, but it is not possible to track all diversion efforts undertaken by all residents and businesses in the Regional District.</p>		<p><b>Waste Composition Study:</b>                  A major Waste Composition Study was completed in 1998 and a follow up Waste Composition Study was undertaken in 2000.</p>												
<p><b>Landfill Disposal Bans and Tipping Fee structure:</b>                  A recyclable material disposal ban is likely soon to be passed. Banned materials will include all materials accepted in the Curbside Blue Bag Program (paper, cardboard, glass jars, tin, aluminum, #2 HDPE plastic), and metals wet batteries and tires under 25". The tipping fee structure is not variable.</p>		<p><b>Wood Waste Diversion:</b>                  Yard and garden waste and clean experienced lumber is segregated at all landfills and chipped for use at the site. It is, however included in the total reported in Section 1 Total Waste Disposed.</p>												
<p><b>Waste Reduction Goals and Challenges:</b>                  A major goal of the Solid Waste Management Plan for the future is to implement programs to reduce the amount of organic material entering landfills.</p>														

## BC Municipal Solid Waste Tracking Report 2000

### Northern Rockies Regional District

<b>Landfill Disposal Bans and Tipping Fee structure:</b> 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 recent values.	<b>Other:</b> Recycling in NRRD is privatized and collected by Widesky Disposals and the Government Liquor Store. NRRD pays Widesky Disposals to pick up cardboard from 32 public drop-off bins, 14 in Fort Nelson and 18 in the rest of the regional district.
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### Okanagan-Similkameen Regional District

Municipality / E.A.	2000 Population	Residential Collection of Recyclables (other than compostables)							User Pay Strategy					
		SF Residential Curbside (Y/N)	Depots Staffed (Y/N/n/a)	MF (Y/N)	ICI (Y/N)	Collection Agency (PU/PR)			Can/Bag Limits (number if applicable)	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
						SF	MF	ICI						
Penticton	38,500	Y	N	Y	N	PU	PU	PR	2	1.5		Y		
OK Falls	3,500	N	N	N	N	N	N	N	N	N		N		N
Keremeos	4,300	N	N	N	N	N	N	N	N	N		N		N
Oliver	8,800	N	N	N	N	N	N	N	1					
Osoyoos	4,379													
Princeton	2,943													
Summerland	10,830													

Municipality / E.A.	2000 Population	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			
Penticton	38,500	Y-yd	N	Y-yd	N	Y	Y	Y	50	N		Y	N	Y
OK Falls	3,500	N	N	Y-yd	N	N	N	N	25	N	N	Y	N	Y
Keremeos	4,300	N	N	Y-yd	N	N	N	N	25	N	N	12 weeks	N	Y
Oliver	8,800	N	N	Y-yd	N	Y	N	N		N	N	N	N	Y
Osoyoos	4,379													
Princeton	2,943													
Summerland	10,830													

BC Municipal Solid Waste Tracking Report 2000

**Peace River Regional District**

		Residential Collection of Recyclables (other than compostables)							User Pay Strategy					
Municipality / E.A.	2000 Population	SF Curbside (Y/N)	Depots Staffed (Y/N/n/a)	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
						SF	MF	ICI						
Chetwynd	3005	N	Y/N	Y			PR	N	N	N	N			
Dawson Creek	11715	N	Y/N	Y			PR	6	N	N	N			
Fort St. John	16842	N	Y/N	Y			PR	4	N	N	N			
Hudson's Hope	1134	N	N	N				N	N	N	N			
Pouce Coupe	912	N	N	N				3	N	N	N			
Taylor	1258	N	N	N				4	N	N	N			
Tumbler Ridge	2331	N	Y/N	N				3	N	N	N			
B.C.D.E	20529	N	N	N				N	N	N	N			
		Composting Programs and Facilities							Multi-material Processing Facility		Waste Reduction Staff (Y/N)			
Municipality /E.A.	2000 Population	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			
Chetwynd	3005	N	N	N		Y	N	Y	10					
Dawson Creek	11715	N	N	N		Y	Y	Y	10					
Fort St. John	16842	N	N	N		Y	Y	N	15					
Hudson's Hope	1134	N	Yd	Y	PU	Y	Y	N	10					
Pouce Coupe	912	N	N	N		Y	N	N	10					
Taylor	1258	N	N	N		Y	N	N	10					
Tumbler Ridge	2331	N	Yd	Y	PU	Y	N	Y	10					
B.C.D.E	20529	N	N	N		Y	N	N						
PRRD	57726												Y	Y

**Waste Reduction Goals and Challenges:**  
Waste Reduction Education and Promotion Program-information and practical programs for residents, ICI and schools. In North Peace area, population is very transient (approximately 10% turnover annually). Business sector reluctant to recycle, due in part to inadequate recycling infrastructure. Hope to develop composting demonstration centre in 2002. South Peace (Dawson Creek and area)--well established recycling depot which makes recycling promotion much easier.

BC Municipal Solid Waste Tracking Report 2000

**Powell River Regional District**

Municipality / E.A.	2000 Population	Residential Collection of Recyclables (other than compostables)							User Pay Strategy					
		SF Curbside (Y/N)	Depots Staffed (Y/N/n/a)	MF (Y/N)	ICI (Y/N)	Collection Agency (PU/PR)			Can/Bag Limits (number if applicable)	Collection Fees/ Tags for additional pickup (Y/N)	Variable Unit Fee Structure (Y/N)	Backyard Burning Bans in Place (Y/N)	Date User Pay Strategy was Implemented	Date User Pay Strategy is Planned to be Implemented
						SF	MF	ICI						
Powell River	13879	Y	N	Y	Y	Pu	Pu	Pr	N/A	Y	N	Y	1997	N/A
A	1651	N	N	} Optional private collection service					N/A	Y	N	N	1997	N/A
B	1453	N	N						N/A	Y	N	N	1997	N/A
C	2456	N	N						N/A	Y	N	N	1997	N/A
D	1221	N	N						N/A	Y	N	N	1997	N/A
E	400	N	Y						N	N	N/A	N/A	N/A	N
Composting Programs and Facilities														
Municipality /E.A.	2000 Population	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 Staff (Y/N)		
		Curbside	Depot	Yd	Fd	In past	On-going			Y/N	PU/PR	Waste Reduction Coordinator	Education Coordinator	Landfill Manager
Powell River	13879	N	N	N	N	Y	N	N	20%	N		N	N	N
A	1651	N	N	N	N	Y	N	N	35%	N		N	N	N
B	1453	N	N	N	N	Y	N	N	35%	N		N	N	N
C	2456	N	N	N	N	Y	N	N	35%	N		N	N	N
D	1221	N	N	N	N	Y	N	N	35%	N		N	N	N
E	400	N	N	N	N	Y	N	N	35%	N		N	N	N
REGION WIDE	20660	N	Y-Yd	Y	N	Y	N	N	28%	Y	Pr	N	N	N

BC Municipal Solid Waste Tracking Report 2000

**Skeena-Queen Charlotte Regional District**

		Residential Collection of Recyclables (other than compostables)							User Pay Strategy					
Municipality / E.A.	2000 Population	SF Curbside (Y/N)	Depots Staffed (Y/N/n/a)	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
						SF	MF	ICI						
Prince Rupert	16714	N	Y	N	Y	n/a	n/a	PR	n/a	n/a	N	Y	N/A	UNKNOWN
Port Edward	700	N	N	N	Y	N/A	N/A	PR	N/A	N/A	N	N	N/A	UNKNOWN
Sandspit	618	N	N	N	N	N/A	N/A	N/A	2	Y	Y	N	1994	
Queen Charlotte City	1222	N	Y	N	N	N/A	N/A	N/A	2	Y	Y	N	1994	
Skidegate IR	?	N	N	N	N	N/A	N/A	N/A	n/a	n/a	n/a	N	1994	
Tlell	In Rural	N	N	N	N	N/A	N/A	N/A	2	Y	Y	N	1994	
Port Clements	558	N	N	N	N	N/A	N/A	N/A	2	Y	Y	N	1994	
Masset	1293	N	N	N	N	N/A	N/A	N/A	2	Y	Y	N	1994	
Masset IR	?	N	N	N	N	N/A	N/A	N/A	n/a	n/a	n/a	N	1994	
All Rural Areas	1906	N	N	N	N	N/A	N/A	N/A	2	Y	Y	N	1994	

		Composting Programs and Facilities							Multi-material Processing Facility		Waste Reduction Staff (Y/N)			
Municipality /E.A.	2000 Population	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							
Prince Rupert	16714	Y	N	N	N		Y	Y	2%	Y	PU	Y	Y	Y
Port Edward	700	Y	N	N	N		Y		2%	N		Y	Y	N
Sandspit	618	Y	N	N	N		Y		5%	N		Y	Y	N
Queen Charlotte City	1222	Y	N	N	N		Y		5%	Y	PU	Y	Y	N
Skidegate IR	?	Y	N	N	N		Y		5%	N		Y	Y	N
Tlell	In Rural	Y	N	N	N		Y		5%	N		Y	Y	N
Port Clements	558	Y	N	N	N		Y		5%	Y	PU	Y	Y	Y
Masset	1293	Y	N	N	N		Y		5%	N		Y	Y	N
Masset IR	?	Y	N	N	N		Y		5%	N		Y	Y	N
All Rural Areas	1906	Y	N	N	N		Y		5%	N		Y	Y	N

<p><b>Disposal/ Recycling Measurement Challenges:</b> One the mainland everything is weighed in tonnes and on the Islands it is calculated in cubic metres</p>	<p><b>Waste Composition Study:</b> We use provincial present studies from other areas</p>
<p><b>Landfill Disposal Bans and Tipping Fee structure:</b> The Prince Rupert Landfill services the Mainland area which includes Port Edward and Dodge Cove and has a tipping fee of \$71 per tonne. Batteries, White goods, Cardboard, paint and oil are banned from the landfill. The Islands regional landfill located north of Port Clements services all the Queen Charlotte Islands. Tipping fee is variable but for general refuse it is \$10 per cubic meter. Batteries, White goods, paint and oil are banned from the landfill.</p>	<p><b>Wood Waste Diversion:</b> This is presently being studied and options being looked at in Prince Rupert. On the islands we sort as much as possible and burn. Sorted wood waste has a reduced rate of \$6 per cubic metre.</p>
<p><b>Waste Reduction Goals and Challenges:</b> In Prince Rupert and the Mainland we are trying to implement a bag limit. This is not a popular subject and we do not expect this to happen for some time. Until this happens it is hard to move ahead.</p>	

BC Municipal Solid Waste Tracking Report 2000

**Squamish-Lillooet Regional District**

Municipality / E.A.	2000 Population	Residential Collection of Recyclables (other than compostables)							User Pay Strategy					
		SF Residential Curbside (Y/N)	Depots Staffed (Y/N/n/a)	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
						SF	MF	ICI						
Furry Creek (D)	106	N	N	N	Y	PR	PR	PR		N	N			
Brittannia	318	N	n/a	N	Y	PR	PR	PR	2	N	N	Y	Jul-99	
Squamish	15357	N	N	Y	Y	PR	PR	PR	2	Y	N	Y	Jul-99	
Whistler	23194*	N	N	N	N	PR	PR	PR		N	N			
Pemberton	1161	N	N	Y	Y	PR	PR	PR	3	N	N		Jul-99	
Anderson Lake (C)	185	N	n/a	Y	Y	PR	PR	PR	2	N	N		Jan-97	
D'Arcy/Devine (C)	1387	N	Y	N	N	PR	PR	PR		N	N			
Pinecrest/ BlackTusk	332	N	N	N	N	PR	PR	PR		N	N			
Lillooet	2,987	N	Y	Y	Y	PR/PU	PR	PR	4	N	N			2002
Area A														
Area B														
*Adjusted according to filled bed units/season.		Composting Programs and Facilities							Multi-material Processing Facility		Waste Reduction Staff (Y/N)			
Municipality /E.A.	2000 Population	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			
Furry Creek (D)	106	N	N	N	N	N	N	N	0	N	NA	Y	Y	NA
Brittannia	318	N	N	N	N	N	N	N	0	N	NA	Y	Y	NA
Squamish	15357	N	N	N	N	Y	N	Y	10%	Y	PR	Y	Y	Y
Whistler	23194	N	N	N	N	N	N	N	3%	N	NA	Y	Y	Y
Pemberton	1161	N	N	N	N	N	N	N	10%	N	NA	Y	Y	NA
Anderson Lake (C)	185	N	N	N	N	N	N	N	0	N	NA	Y	Y	NA
D'Arcy/Devine (C)	1387	N	N	N	N	N	N	N	0	N	NA	Y	Y	NA
Pinecrest/ BlackTusk	332	N	N	N	N	N	N	N	0	N	NA	Y	Y	NA
Lillooet	2,987	N	N	N	N	Y	N	N	10%	N	NA	Y	Y	Y
<b>Landfill Disposal Bans and Tipping Fee structure:</b>														
Cardboard ban at Resort Municipality of Whistler Landfill														

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Sunshine Coast Regional District

		Residential Collection of Recyclables (other than compostables)							User Pay Strategy						
Municipality / E.A.	2000 Population	SF Curbside (Y/N)	Depots Staffed (Y/N/n/a)	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	
						SF	MF	ICI							
SCRD Areas B,D,E,F	14,874	n	y	n	n	pr	pr	pr	1	y	n	n	1997	n/a	
SCRD Area A	2765	n	y	n	n	pr	pr	pr	1	y	n	n	1997	n/a	
District of Sechelt	6000	n	y	n	n	pr	pr	pr	1	y	n	n	1997	n/a	
Town of Gibsons	3500	n	y	n	n	pr	pr	pr	1	y	n	n	1997	n/a	
Sechelt Indian	300	n	y	n	n	pr	pr	pr	no limit	n	n	n	n/a	unknown	

		Composting Programs and Facilities							Multi-material Processing Facility		Waste Reduction Staff (Y/N)			
Municipality /E.A.	2000 Population	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							
SCRD Areas B,D,E,F	14,874	n	y / yd	y / at landfill	n	y	y	y	25%	n	n/a	y *	y *	y *
SCRD Area A	2765	n	y / yd	y / at landfill	n	y	y	y	25%	n	n/a			
District of Sechelt	6000	n	y / yd	y / at landfill	n	y	y	n	25%	n	n/a			
Town of Gibsons	3500	n	y / yd	y / at landfill	n	y	y	n	25%	n	n/a			
Sechelt Indian Government District	300	n	y / yd	y / at landfill	n	y	y	n	25%	n	n/a			

\* one Solid Waste Management Coordinator fulfills all of these roles for the whole area

<p><b>Disposal/ Recycling Measurement Challenges:</b>                  only able to report on landfill diversion &amp; recycling from contracted depots; no reporting on private sector recycling and waste disposal not directed to our landfills &amp; contracted depots. Also, we all (RD) seem to measure differently--so how is this comparable? Suggest Province hosts workshops with us to develop consistent tracking methodology.</p>	<p><b>Waste Composition Study:</b>                  Did a quick &amp; dirty composition study in 1999 to see what recyclable materials were being delivered to the landfills in both the residential loads &amp; the commercial loads. This consisted of 2 days on-site during which we broke open bags &amp; physically examined the waste. Did not weigh or do "scientific" study--too expensive.</p>
<p><b>Landfill Disposal Bans and Tipping Fee structure:</b>                  no change from last year's information</p>	<p><b>Wood Waste Diversion:</b>                  Have not yet established a variable rate for this. Will be considered for 2002. Want to look at "at source" diversion programs but have not yet done this. Just dealing with at landfill stuff now. In 2001 we initiated a pilot project to separate wood coming to the landfills. Our staff sorted and stacked in separate areas according to type, condition, etc of wood. Public can take any of this away for free. Separation ranged from pallets, dimension lumber, durable goods in need of repair, cedar shakes for kindling, etc. This proved to be very popular with the public &amp; improved diversion of wood from the sites. Final stats for 2001 vs previous years not yet available. The residual that cannot be reused is chipped &amp; used as a portion of our daily cover.</p>
<p><b>Waste Reduction Goals and Challenges:</b>                  We have been trying to implement a residential organics collection program for several years, but have made little progress since there is no composting facility within the regional district and it is too expensive to transport the organics to a facility in another regional district</p>	<p><b>Other:</b>                  We also recycled 48 tonnes of tires. There are 2 paint care depots &amp; 1 special waste depot. These diversion figures are not included here.</p>

BC Municipal Solid Waste Tracking Report 2000

**Thompson-Nicola Regional District**

Municipality / E.A.	2000 Population	Residential Collection of Recyclables (other than compostables)							User Pay Strategy					
		SF Curbside (Y/N)	Depots Staffed (Y/N/n/a)	MF (Y/N)	ICI (Y/N)	Collection Agency (PU/PR)			Can/Bag Limits (number if applicable)	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
						SF	MF	ICI						
Kamloops	82832	N	N	N	Y			PR	3	Y	N	Y		
Ashcroft	1995	N	N	N	Y			PR	3	N	N	Y		
Cache Creek	1114	N	N	N	Y			PR	N	N	N			
Chase	2602	N	N	N	Y			PR	3	Y	N	N		
Clinton	718	N	Y	N	N			PR	N	N	N	N		
Logan Lake	2505	N	Y	N	Y			PR	N	N	N	N		
Lytton	318	N	Y	N	N			PR	N	N	N	Y		
Merritt	8075	N	N	N	Y			PR	2	Y	N	Y		
10 EA's	30033	N	N	N	N				N	N	N	N		
Composting Programs and Facilities														
Municipality / E.A.	2000 Population	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 Staff (Y/N)		
		Curbside	Depot	Yd	Fd	In past	On-going			Y/N	PU/PR	Waste Reduction Coordinator	Education Coordinator	Landfill Manager
Kamloops	82832	N	Y	Y-PU	N	Y	Y	Y	25	N		Part Time	Part Time	Yes
TNRD & member municipalities	47360	N	Y	N	N	Y	Y	Y	25	N		Part Time	Part Time	Yes

**Appendix B:**

**REGIONAL DISTRICT POPULATION AND DISPOSAL STATISTICS**

# BC Municipal Solid Waste Tracking Report 2000

## Regional District Population and Disposal Statistics, 1990-1995

REGIONAL DISTRICT	ANNUAL DISPOSAL (tonnes) POPULATION AND PERCAPITA DISPOSAL RATES (tonne/person/yr)																	
	1990			1991			1992			1993			1994			1995		
	disposal (98 Rpt)	pop (BCSTATS)	disp rate (98 Rpt)	disposal	pop (BCSTATS)	disp rate	disposal	pop (BCSTATS)	disp rate	disposal	pop (BCSTATS)	disp rate	disposal	pop (BCSTATS)	disp rate	disposal	pop (BCSTATS)	disp rate
Alberni-Clayoquot	16,641	31,961	0.550	18,617	32,048	0.581	18,065	31,541	0.573	15,843	32,064	0.494	15,324	31,786	0.482	13,060	32,783	0.398
Bulkley-Nechako	25,995	39,172	0.700	12,790	39,400	0.325	25,885	39,918	0.648	25,491	40,296	0.633	25,800	41,195	0.626	26,250	42,154	0.623
Capital	180,966	301,186	0.620	173,714	307,643	0.565	154,971	313,997	0.494	148,343	319,912	0.464	145,585	324,478	0.449	138,303	328,934	0.420
Cariboo	23,456	62,718	0.400	33,114	62,855	0.527	24,000	62,857	0.382	24,800	64,149	0.387	25,000	65,857	0.380	25,261	67,787	0.373
Central Coast	1,400	3,679	0.400	1,440	3,639	0.396	1,474	3,721	0.396	1,353	3,759	0.360	1,375	3,883	0.354	1,378	3,938	0.349
Central Fraser Valley*	69,340	86,001	0.850	74,396	89,707	0.829	50,000	93,954	0.532	59,344	98,092	0.605	60,000	102,378	0.586	61,000	106,697	0.574
Central Kootenay	34,760	51,456	0.701	36,089	52,342	0.689	40,503	54,293	0.746	28,283	55,685	0.508	30,412	57,697	0.527	31,710	58,928	0.538
Central Okanagan	124,998	108,700	1.210	115,000	114,673	1.003	107,043	122,037	0.877	95,651	128,913	0.742	89,812	133,681	0.672	84,941	137,909	0.616
Columbia Shuswap	28,762	41,943	0.650	25,050	42,741	0.586	40,764	43,404	0.939	31,401	44,810	0.701	32,500	46,839	0.694	29,236	48,520	0.603
Comox-Strathcona	53,546	82,101	0.650	31,101	85,054	0.366	47,534	87,411	0.544	62,158	90,963	0.683	32,188	95,730	0.336	32,189	99,047	0.325
Cowichan Valley	45,475	60,048	0.770	26,755	62,199	0.430	30,915	63,984	0.483	31,913	66,583	0.479	29,902	69,850	0.428	28,976	72,102	0.402
Dewdney-Alouette*	73,300	89,200	0.850	40,000	92,394	0.433	35,421	95,916	0.369	35,729	99,762	0.358	19,504	103,009	0.189	19,013	105,958	0.170
East Kootenay	34,141	54,055	0.700	41,353	53,746	0.769	42,000	54,121	0.776	42,500	54,958	0.773	45,000	55,756	0.807	50,000	57,323	0.872
Fort Nelson-Liard**	9,709	4,915	1.800	4,938	5,192	0.951	5,030	5,346	0.941	5,080	5,436	0.935	5,500	5,550	0.991	6,000	5,853	1.025
Fraser-Cheam*	55,470	68,021	0.480	27,135	70,468	0.385	32,001	73,007	0.438	33,128	76,517	0.433	33,663	80,015	0.421	32,623	82,431	0.396
Fraser-Fort George	60,180	92,607	0.700	63,400	93,301	0.680	40,150	94,106	0.427	68,810	96,470	0.713	68,810	98,402	0.699	88,161	100,751	0.875
Greater Vancouver	1,594,790	1,548,831	0.990	1,550,000	1,585,880	0.977	1,565,418	1,637,064	0.956	1,437,841	1,681,246	0.855	1,637,659	1,732,567	0.945	1,489,763	1,784,656	0.835
Kitimat-Stikine	27,602	42,776	0.700	41,171	43,249	0.952	35,000	43,538	0.804	30,066	43,966	0.684	31,000	44,038	0.704	31,500	44,657	0.705
Kootenay Boundary	25,861	31,577	0.800	24,295	31,974	0.760	24,165	32,413	0.746	24,186	32,978	0.733	21,665	33,560	0.646	22,989	33,906	0.678
Mount Waddington	12,677	14,654	0.900	28,438	14,293	1.990	5,000	14,158	0.353	5,100	14,369	0.355	5,360	14,674	0.365	7,522	14,884	0.505
Nanaimo	50,533	98,278	0.550	55,689	104,296	0.533	56,162	108,327	0.519	61,149	113,627	0.538	58,939	119,636	0.493	59,107	123,408	0.479
North Okanagan	59,915	61,128	1.040	22,982	63,288	0.363	55,297	65,477	0.845	56,314	68,089	0.827	41,979	71,091	0.590	40,678	72,529	0.559
Okanagan-Similkameen	79,487	65,920	1.200	65,871	68,280	0.965	60,982	70,947	0.860	85,883	73,958	1.176	56,736	76,780	0.739	37,768	78,082	0.484
Peace River	46,076	53,958	0.920	31,893	54,844	0.582	39,476	55,028	0.717	42,500	55,777	0.762	46,800	56,698	0.825	57,000	57,741	0.987
Powell River	12,922	19,457	0.690	12,138	19,689	0.616	12,350	19,671	0.628	14,682	19,728	0.744	11,730	20,038	0.585	8,706	20,255	0.430
Skeena-Queen Charlotte	17,933	24,344	0.800	17,500	24,460	0.715	17,363	24,619	0.705	16,825	24,767	0.679	17,836	25,331	0.704	17,817	25,595	0.696
Squamish-Lillooet	38,924	24,652	1.200	40,086	25,067	1.599	21,196	26,292	0.806	38,349	27,496	1.395	56,771	29,233	1.942	30,000	30,771	0.975
Sunshine Coast	17,207	20,492	0.900	31,726	21,334	1.487	20,335	22,219	0.915	14,324	23,297	0.615	16,215	24,306	0.667	11,326	24,989	0.453
Thompson-Nicola	69,939	105,429	0.670	67,058	107,143	0.626	77,554	109,234	0.710	84,752	112,551	0.753	98,696	116,385	0.848	75,333	120,016	0.628
Province sums	2,892,005	3,289,259		2,713,639	3,264,056		2,686,054	3,359,366		2,622,798	3,457,567		2,761,761	3,564,058		2,556,507	3,662,588	
population (reports)		3,063,419			3,282,061			3,371,372			3,530,211			3,326,825			3,649,166	
waste disposed (from rpts)	2,890,516			2,937,636			2,263,886			2,142,468			1,994,605			1,976,454		
disposal rate (reports)			0.944			0.900			0.672			0.607			0.600			0.542
disposal rate (modified)			0.879			0.831			0.800			0.759			0.775			0.698
reduction from .879 (mod d r)						5.4%			9.1%			13.7%			11.9%			20.6%

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**Regional District Per Capita Disposal Rate Summary- 1990, 1996-2000**

REGIONAL DISTRICT	1990*			1996			1997			1998			1999			2000			% reduction from 1990
	pop	disp rate	rank	pop	disp rate	rank	pop	disp rate	rank	pop	disp rate	rank	pop	disp rate	rank	pop	disp rate	rank	
<b>Regional Districts with populations less than or equal to 60,000 in 2000</b>																			
Alberni-Clayoquot	30,257	0.550	2	30,000	0.470	4	28,824	0.529	5	26,914	0.515	7	34,000	0.598	8	34,000	0.511	7	7
Bulkley-Nechako	37,136	0.700	4	43,047	0.680	7	41,642	0.660	12	42,899	0.578	8	43,545	0.651	10	44,204	0.610	10	13
Central Coast	3,500	0.400	1	4,055	0.350	2	4,310	0.350	2	3,921	0.350	2	4,320	0.350	2	4,332	0.350	2	13
Columbia Shuswap	40,510	0.710	7	48,115	0.496	5	48,115	0.545	6	52,256	0.424	5	52,256	0.416	3	52,973	0.408	3	43
East Kootenay	48,773	0.700	5	56,608	0.942	13	59,557	0.918	13	60,054	0.902	12	61,145	0.656	11	62,240	0.716	12	-2
Kitimat-Stikine	39,431	0.700	6	43,618	0.680	8	44,141	0.556	7	44,671	0.369	4	46,449	0.469	6	46,870	0.469	5	33
Kootenay Boundary	30,425	0.850	9	32,906	0.407	3	32,906	0.644	11	34,309	0.550	3	34,156	0.582	7	34,065	0.474	6	44
Mount Waddington	14,086	0.900	10	13,896	0.800	12	15,392	0.478	4	15,000	0.422	4	14,601	0.420	4	15,058	0.528	8	41
Northern Rockies	4,565	1.800	14	5,856	1.195	14	6,414	1.800	14	6,500	1.846	13	6,500	0.692	12	6,434	1.088	14	40
Peace River	50,083	0.920	12	55,545	0.696	9	59,695	0.640	10	60,000	0.858	11	60,000	0.725	14	57,726	0.764	13	17
Powell River	18,728	0.690	3	20,603	0.272	1	19,936	0.313	1	21,124	0.249	1	20,993	0.258	1	21,060	0.251	1	64
Skeena-Queen Charlotte	22,700	0.790	8	23,123	0.722	11	25,910	0.630	8	24,795	0.629	10	25,467	0.707	13	25,514	0.541	9	32
Squamish-Lillooet	32,437	1.200	13	31,548	0.700	10	34,031	0.630	9	42,714	0.620	9	35,911	0.648	9	45,523	0.651	11	46
Sunshine Coast	19,119	0.900	11	24,914	0.505	6	25,911	0.473	3	26,947	0.437	6	27,755	0.432	5	27,438	0.423	4	53
<b>Regional Districts with populations greater than 60,000 in 2000</b>																			
Capital	291,880	0.620	3	328,880	0.413	2	329,135	0.495	3	334,871	0.390	3	339,643	0.395	3	334,940	0.408	5	34
Cariboo	58,641	0.400	1	69,192	0.365	1	66,607	0.357	2	73,024	0.360	1	72,988	0.360	2	73,549	0.360	2	10
Central Kootenay	49,587	0.701	7	58,099	0.449	3	60,725	0.339	1	61,602	0.218	2	61,466	0.277	1	61,790	0.301	1	57
Central Okanagan	103,304	1.210	13	141,673	0.599	8	145,213	0.725	10	147,113	0.640	10	150,000	0.639	10	152,000	0.643	10	47
Comox-Strathcona	82,378	0.650	4	97,667	0.643	9	103,995	0.660	9	101,085	0.486	5	105,321	0.463	6	105,439	0.463	6	29
Cowichan Valley	59,059	0.770	8	70,978	0.578	7	72,691	0.575	6	73,735	0.520	8	76,386	0.418	4	76,819	0.366	3	53
Fraser Valley	209,641	0.945	9	222,397	0.455	4	234,159	0.530	5	237,128	0.499	6	240,022	0.493	7	243,008	0.502	7	47
Fraser-Fort George	85,971	0.700	6	98,974	1.028	13	101,349	1.056	12	103,782	0.819	12	106,273	0.712	11	106,933	0.711	11	-2
Greater Vancouver	1,610,899	0.990	10	1,898,667	0.717	10	1,934,210	0.744	11	1,978,848	0.675	11	1,990,961	0.715	12	2,011,035	0.713	12	28**
Nanaimo	91,879	0.550	2	125,000	0.502	5	132,000	0.527	4	132,442	0.438	4	137,637	0.428	5	137,003	0.406	4	26
North Okanagan	57,611	1.040	11	73,266	0.758	11	73,266	0.612	7	75,240	0.575	9	77,497	0.555	8	79,047	0.551	8	47
Okanagan-Similkameen	66,239	1.200	12	75,990	0.970	12	77,200	1.130	13	78,700	1.085	13	79,100	1.132	13	84,448	1.056	13	10
Thompson-Nicola	104,386	0.670	5	124,725	0.564	6	125,681	0.658	8	126,796	0.518	7	128,298	0.574	9	130,192	0.582	9	13
Province	3,289,259	0.879		3,880,593	0.641		3,958,217	0.670		3,996,030	0.606		4,026,657	0.622		4,062,270	0.618		29.7

NOTES: Provincial and RDEK populations taken from BCSTATS, other regional district populations were supplied by regional districts for tracking reports

\* Regional district disposal rates for 1990 established in the 1998 Tracking Report

\*\* In accordance with its approved plan, GVRD calculates its disposal rate reduction with 1990 waste generation as the baseline, not disposal, which results in a 48% reduction in the per capita disposal rate in 2000

## **Selected Resources**

*Director's Reports: Industry Product Stewardship in British Columbia*

<http://wlapwww.gov.bc.ca/epd/epdpa/ips/index.html>

(click on the name of each program to get the Director's report for that program)

*Guide to the Preparation of Regional Solid Waste Management Plans by Regional Districts*

<http://wlapwww.gov.bc.ca/epd/epdpa/mpp/gprswmp1.html>

*MSW Tracking Reports, 1996-2000*

[http://wlapwww.gov.bc.ca/epd/epdpa/mpp/reduction\\_goals.htm](http://wlapwww.gov.bc.ca/epd/epdpa/mpp/reduction_goals.htm)

*Waste Management Act*

[http://www.qp.gov.bc.ca/statreg/stat/W/96482\\_01.htm](http://www.qp.gov.bc.ca/statreg/stat/W/96482_01.htm)

# **BC Municipal Solid Waste Tracking Report**

## **2000**

**Prepared by:**



April, 2002

## Acknowledgement

The Ministry of Water, Land and Air Protection and the Recycling Council of BC would like to thank the regional district and stewardship agency staff who participated in the completion of this report by supplying data. We greatly appreciate their cooperation and efforts, as without their input this project would not have been 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 2000 municipal solid waste (MSW) tracking data provided by regional districts to the Ministry of Water, Land and Air Protection (WLAP), formerly the Ministry of Environment Lands and Parks. The report also provides a province-wide update on regional waste management initiatives.

In 2000, the provincial disposal rate was **0.618** tonnes per capita. This represents a **29.7%** reduction in the per capita amount of MSW requiring disposal, compared to 1990, and confirms that the province fell short of its MSW reduction goal.

The rate for 2000 is considerably lower than the rate reported in the 1999 Tracking Report. This is the result of a change to the 1990 base disposal rate resulting from a revised 1990 population estimate by BC STATS, not an actual increase in per capita waste disposed. The 2000 disposal rate changed only nominally from 1999 and continues the trend established in 1998, if not earlier. Use of the BC STATS revised population estimate caused the 1990 disposal rate to change from **0.944** to **0.879** tonnes per capita.

Between 1990 and 2000, the total waste disposed per year dropped from 2,890,516 tonnes to 2,509,112 tonnes, a reduction of **13%**. During the same period of time the provincial population increased by **24%**.

Compared to 1999 when the disposal rate was **0.622** tonnes/capita, there was a **0.2%** increase in the total amount of MSW landfilled and incinerated and a **0.9%** increase in the population.

The provincial per capita recycling rate was **0.452** tonnes per capita in 2000, a **1.7%** increase compared to 1999. As in previous years, this figure under-estimates the amount of recycling occurring, as it does not include all the materials recycled by private firms.

Part of the increase in the recycling rate since 1998 is the result of including most of the material recycled by provincial and stewardship programs in the 1999 and 2000 figures. In 2000, 150,533 tonnes of material were recycled through regulated industry stewardship programs as well as provincially run initiatives. This material represents **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.

Nineteen regional districts had per capita disposal rates lower (better) than the provincial rate, and four regional districts achieved per capita disposal rate reductions greater than 50%, compared to their 1990 base rate.

## **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 Water Land and Air Protection (WLAP), formerly the Ministry of Environment Lands, and Parks, 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 (**R**educe, **R**euse, **R**ecycle, **R**ecover and **R**esidual management.)

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 is 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 WLAP on the per capita amount of MSW requiring disposal for the plan area.

In 1990, WLAP 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 WLAP, based on data supplied by the regional districts.

Since 1996, Recycling Council of BC (RCBC) has prepared the tracking reports under contract to WLAP. RCBC is a multi-sectoral, non-profit organization which 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 was 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 expected that each regional district would 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 2000 MSW tracking results as provided by the regional districts to determine if the provincial waste reduction goal has been achieved. This report, like the ones for 1996 and 1999, also provides the results of a questionnaire on regional MSW management initiatives.

### **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.

Conversely, regional districts are often unable to measure all of the waste 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. The data for recycled waste therefore 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 not staffed 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 Disposal and Population Data 1990-2000**

Given the different methodology used in the MSW Tracking Reports for 1990-1995, in terms of what data were collected and how missing data were treated, until now it was not considered appropriate to compare these data with data produced in the 1996 and subsequent reports. In the 1997/98 Report, the 1990 provincial disposal rate was recalculated by estimating disposal rates for regional districts with missing or anomalous data based on the range of values in various reports, comparison with regional districts with similar population density and waste reduction efforts and any updated information received from regional districts.

In an effort to compare the 1991-1995 disposal rate data with the 1996-2000 data to the greatest extent possible, missing or anomalous data in the 1991-1995 reports were estimated using the same methodology used for the 1990 data in the 1997/98 Report. The resulting data points are shown in the chart in section 3.1.4, with breaks between 1990 and 1991 and between 1995 and 1996 to indicate that these two sets of data cannot absolutely be compared. The regional district data sheet is included in Appendix B.

In December 1998, BC STATS revised the provincial and regional district population totals for 1986-1996. The 1990 population figure was changed from 3,063,419 to 3,291,379. While in previous reports the provincial disposal rate reduction was calculated using the 3,063,419 population figure, for the purposes of this report, the revised 1990 population total, minus the Stikine population, is used in calculating the provincial baseline disposal rate. The populations were obtained from the BC STATS website ([www.bcstats.gov.bc.ca/data/pop/EstsPop.htm](http://www.bcstats.gov.bc.ca/data/pop/EstsPop.htm)). The resulting baseline disposal rate of **0.879** tonnes per capita has also been used to recalculate the reductions in the disposal rates for 1996-1999, as shown in section 3.1.3.

## **2.2 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 and 2000 Tracking Reports, calculations for regional districts that did not supply disposal data were based on the assumption that regional waste per capita disposal rates had not changed from the last year with good data. Accordingly, the total waste disposed value for each regional district with missing data was calculated by multiplying its 1998 or 1999 disposal rate by its 2000 population.

## **2.3 Collection of 2000 Data**

The format of the 2000 data collection sheet was not significantly modified from that used previously in the 1999 study. 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 A.

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.'

Several regional districts had developed revised disposal and recycling data for previous years, and submitted that data in response to the invitation to submit any revised data included with the data form. The totals for some years were revised accordingly in the summary chart in section 3.1.3.

### 2.3.1 Disposal Data

Three regional districts did not submit any and one regional district provided only partial disposal data for the 2000 report, with their combined population being 3% of the provincial total. The missing disposal rates for these regional districts were estimated using the method described in Section 2.1. In the case of the regional district that provided data for only some of its landfills, a disposal rate was calculated for the last year with reported data for each missing landfill and that rate was multiplied by the 2000 population for that landfill. Regional district disposal rates calculated using these methods are labelled as 'Estimated Per Capita Disposal Rate.'

### 2.3.2 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.

### 2.3.3 Collection of Provincial Stewardship Program Data

In order to provide a more complete picture of the amount of material recycled in BC, WLAP 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 2000 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 obtain data on amounts of material collected 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.

## 2.4 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 the data on the amount recycled was available, the per capita recycling rate was calculated as follows:

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

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:

$$\text{Total MSW Generated} = \text{MSW Recycled} + \text{MSW Disposed}$$

For the provincial figures, the BC STATS estimate of the 2000 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

The provincial disposal rate in 2000 was **0.618** tonnes per capita, which is a nominal change from 1999 (**0.622**).

As noted in Section 2.1 the 1990 population value used in this report has been increased from the value used in the 1998 and subsequent reports based on revisions to provincial population estimates for 1990 by BC STATS. This changes the 1990 baseline reduction rate from **0.944** used previously to **0.879** tonnes per capita. Consequently, the disposal rate in 2000 represents a **29.7%** reduction compared to 1990 instead of a 34.5% reduction based on **0.944** tonnes per capita. This confirms that the province fell short of the goal set in 1989 of a 50% reduction of the per capita disposal rate, and by an even larger margin than anticipated before the change in the base year population.

The actual percentage reduction is perhaps not as important as the indication, from the chart in Section 3.1.4, that the disposal rate over time curve has essentially been flat since 1998, and possibly longer. The variations shown for previous years, at least to 1996, may not be significant in consideration of the margin for error in calculations based on a combination of weighed, estimated and interpolated data. The curve from 1991 to 1995 may also be closer to flat, at a higher level which may be attributed to the difference in tracking methodology used for the 1991 through 1995 reports.

The reason why the provincial disposal rate reduction has remained stable at about 30% for several years 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, DLC and ICI, components of MSW that contributed large volumes to the amount of waste disposed in BC (see Appendix A).

Comparing 2000 to 1999, there was a **0.2%** increase in the total amount of MSW disposed in landfills and a **0.9%** increase in the population. Table 1 illustrates the percentage of the provincial population that resides in regional districts where the total waste disposed and per capita waste disposed increased, decreased or remained virtually the same.

**Table 1:** Changes in the amount of waste disposed in landfills and per capita disposal rate by regional district from 1999 to 2000

	Increase in Total Waste Disposed	Decrease in Total Waste Disposed	0-1% Change	Increase in Tonnes Per Capita Disposed	Decrease in Tonnes Per Capita Disposed	0-1% Change
Number of Regional Districts	10	8	9	11	12	4
Percentage of BC Population*	29	13	57	27	66	6

\*Does not add to 100 due to rounding

Between 1990 and 2000, the total waste disposed per year dropped from 2,890,516 tonnes to 2,509,112 tonnes, a **13%** reduction. During the same period of time the provincial population increased by **24%**.

The provincial per capita recycling rate was **0.452** tonnes in 2000, a **1.7%** increase compared to 1999.

3.1.2 Provincial Stewardship Data

In 2000, 150,530 tonnes of material were recycled through regulated industry stewardship programs as well as provincially run initiatives. This material accounts for

8.2%, 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 2000

	<b>Stewardship Program</b>	<b>Amount Recovered</b>	<b>Units</b>	<b>Reporting Period</b>
Regulated Industry Stewardship Programs	Beverage Containers-Encorp <sup>1</sup>	26,072	tonnes	Calendar 2000
	Beverage Containers-Brewer's Distributor Ltd.	504,834,516	containers	Apr 00-Mar 01
	Beverage Containers-Liquor Distribution Branch	37,000	tonnes	Apr 00-Mar 01
	Paint	4,000,000	equivalent litre containers	Calendar 2000
	Pharmaceuticals <sup>2</sup>	4490.1	kg	Apr 00-Dec 00
	Residuals	150,000	equivalent litre containers	Calendar 2000
	Lubricating Oil	46,279	tonnes	Apr 00-Mar 01
Provincial Programs	Tires	28,074	tonnes	Apr 00-Mar 01
	Lead-Acid Batteries	13,104	tonnes	Apr 00-Mar 01
	<b>TOTAL</b>	<b>150,533</b>	tonnes	

### 3.1.3 Provincial MSW Data Summary

Please see next page for MSW disposal and recycling data for the province, as the sum of regional district totals. As noted earlier, the totals for 1996-1999 may be slightly different than the totals in the respective reports for those years.

<sup>1</sup> Calculated from data posted <http://www.encorpinc.com/html/encp5100.htm>.

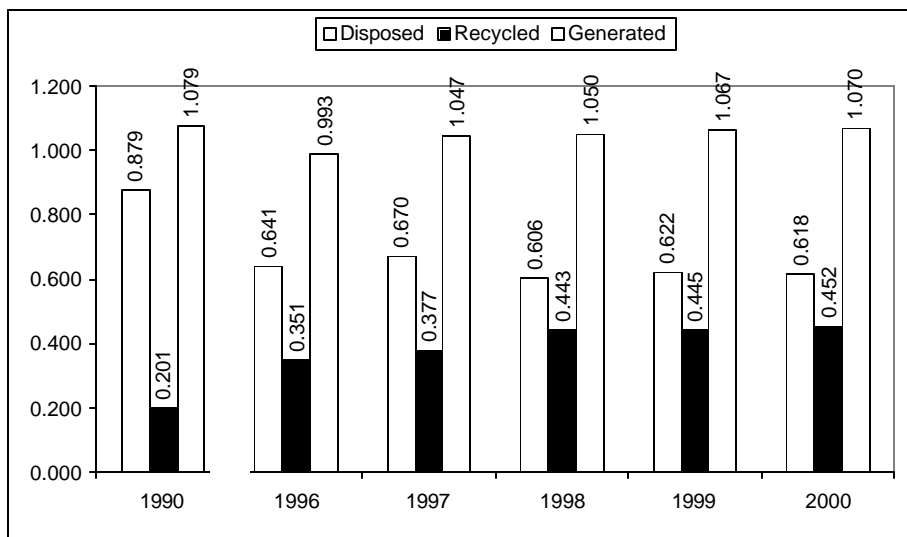
<sup>2</sup> Ron Driedger, Pollution Prevention and Remediation Branch, *Director's Reports :Industry Product Stewardship in British Columbia*, <http://wlapwww.gov.bc.ca/epd/epdpa/ips/index.html> .

British Columbia Municipal Solid Waste Data Summary

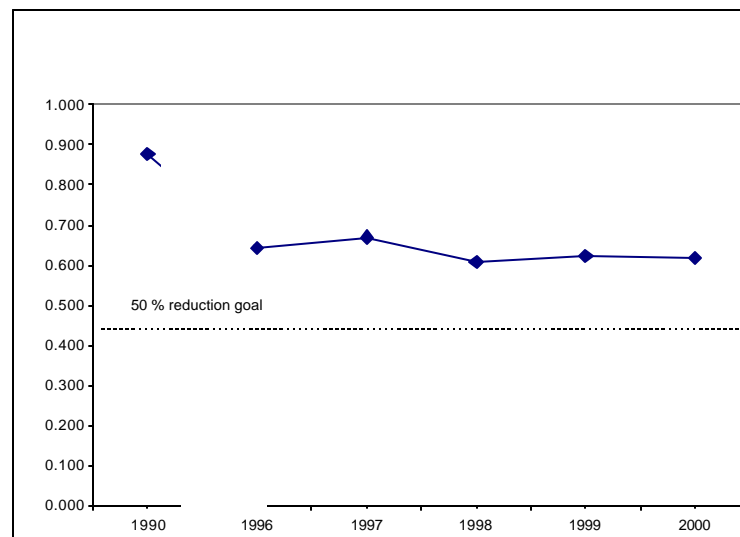
Year	Population	% change from prev yr	Total waste disposed (in tonnes)	% change from prev yr	Tonnes per capita disposed	% change from 1990	Total waste recycled (in tonnes)	% change from prev yr	Tonnes per capita recycled	% change from prev yr	Total waste generated (in tonnes)	% change from prev yr	Tonnes per capita generated	% change from prev yr
1990	3,289,259		2,890,516		0.879		659,764		0.201		3,550,280		1.079	
1996	3,880,593		2,488,741		0.641	-27.0	1,363,721		0.351		3,852,462		0.993	
1997	3,958,217	2.0	2,650,108	6.5	0.670	-23.8	1,493,022	9.5	0.377	7.3	4,143,130	7.5	1.047	5.4
1998	3,996,030	1.0	2,423,524	-8.5	0.606	-31.0	1,771,813	18.7	0.443	17.5	4,195,337	1.3	1.050	0.3
1999	4,026,657	0.8	2,504,667	3.3	0.622	-29.2	1,790,666	1.1	0.445	0.3	4,295,333	2.4	1.067	1.6
2000	4,062,270	0.9	2,509,112	0.2	0.618	-29.7	1,837,381	2.6	0.452	1.7	4,346,492	1.2	1.070	0.3

% reduction in per capita disposal from 1990 rate : **-29.7** in 2000

Tonnes Per Capita Disposed, Recycled and Generated



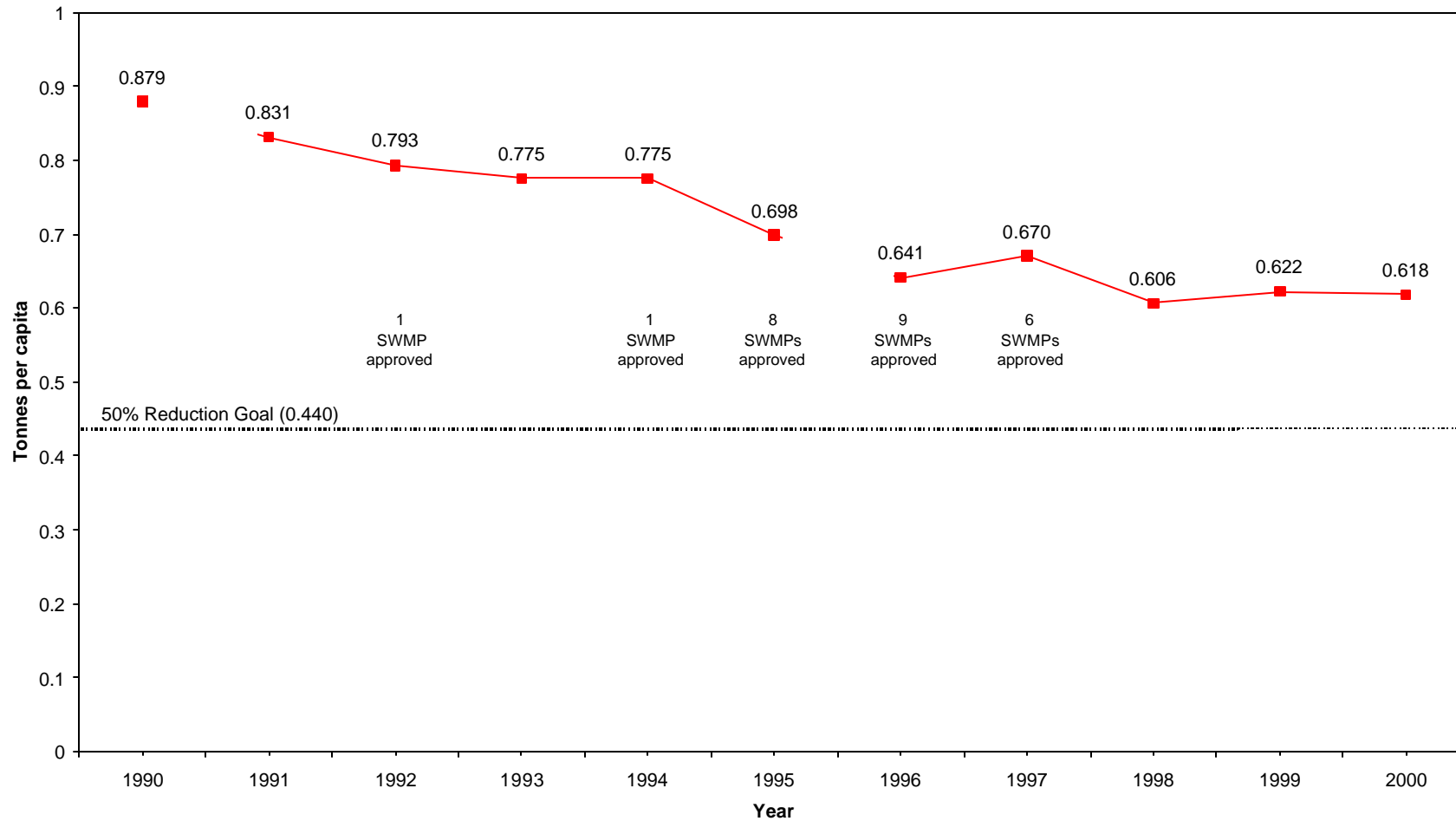
Tonnes Per Capita Disposed



Source of data:

1. The numerator of the 1990 baseline per capita MSW disposal rate was established in the 1998 MSW Tracking Report and the denominator revised in this report as the result of changes to the 1990 provincial population estimates by BC STATS. This baseline rate includes demolition, land-clearing and construction refuse.
2. Other data were compiled from previous MSW tracking reports, with per capita disposal rate reduction percentages for 1996-1999 revised using the new 1990 baseline rate.
3. All regional districts provided their own data, except Cariboo, Central Coast and Kitimat-Stikine, which provided no disposal data, and Okanagan-Similkameen, which provided data for only 2 of its 7 landfills. See Section 2.2 for an explanation of how the disposal figures for these regional districts were estimated.
4. 2000 BC population estimates are from BC STATS

3.1.4 British Columbia, Tonnes Per Capita Disposed, 1990-2000



\*Note: Please see Section 2.1 and the table in Appendix B for an explanation of the disposal rate data for 1990-1995. The 1996-2000 data is from the tracking reports for those years, as reported in Section 3.1.3 SWMP means Solid Waste Management Plan.

### 3.2 Regional MSW Overview

#### 3.2.1 Regional District MSW Trends

Although the provincial disposal rate reduction fell short of 50%, four regional districts achieved disposal rate reduction in 2000 compared to 1990 of greater than 50%, and four more achieved reductions of 46-47%.

The adjacent chart shows the per capita disposal rates for all regional districts in order of increasing disposal rate. This shows that the per capita disposal rates of 19 regional districts, comprising 38.1% of the provincial population, were lower (better) than the provincial rate.

A summary of per capita disposal rates for all regional districts in 1990 and 1996-2000 and separated into two groups based on population for the purposes of ranking is included in Appendix B.

In any comparison among regional districts it should be recognized that regionally specific circumstances, resources and infrastructure are paramount in determining the capacity of each regional district to province waste diversion programs.

**Table 3: Per Capita Disposal Rates, 2000**

Rank	Regional District	disposal rate (tonne/capita)
1	Powell River	0.251
2	Central Kootenay	0.301
3	Central Coast	0.350
4	Cariboo	0.360
5	Cowichan Valley	0.366
6	Nanaimo	0.406
7	Capital	0.408
8	Columbia Shuswap	0.408
9	Sunshine Coast	0.423
10	Comox-Strathcona	0.463
11	Kitimat-Stikine	0.469
12	Kootenay Boundary	0.474
13	Fraser Valley	0.502
14	Alberni-Clayoquot	0.511
15	Mount Waddington	0.528
16	Skeena-Queen Charlotte	0.541
17	North Okanagan	0.551
18	Thompson-Nicola	0.582
19	Bulkley-Nechako	0.610
20	Central Okanagan	0.643
21	Squamish-Lillooet	0.651
22	Fraser-Fort George	0.711
23	Greater Vancouver	0.713
24	East Kootenay	0.716
25	Peace River	0.764
26	Okanagan-Similkameen	1.057
27	Northern Rockies	1.088
<b>Province</b>		<b>0.618</b>

### 3.2.1.1 2000 Data

Twenty-three of the 27 regional districts returned MSW disposal data for the year 2000. Two of these regional districts, Central Coast and Okanagan-Similkameen, provided other data. The two regional districts that did not submit data, Cariboo and Kitimat-Stikine, 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.

In 2000, **76%** of the waste disposed was weighed at regional facilities. The remaining **24%** was quantified using conversions of volumes to mass or other estimation techniques. Landfilling accounted for **67%** of the waste disposed while the other **33%** 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 is estimated.

### 3.2.1.2 Waste Disposal Facilities

In 2000, there were **102** landfills operating within BC, compared to 236 in 1988. Of this total, **65%** charge tipping fees, which range from \$2-140 per tonne, and **38%** have weigh scales. Only **18%** operate with no staff present. **Eighty percent** of the landfills accept DLC waste, **40%** have a salvage area open to the public and **36%** 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 2000. **Two** regional districts made significant progress on the implementation of their SWMP, such that its state of implementation status increased. **Seventeen** regional districts have an approved SWMP that has been implemented between 76 and 100%.

The Central Coast and East Kootenay regional districts did not have an approved plan for the whole regional district in 2000.

## 3.2.2 Regional District Data

Please see next page.

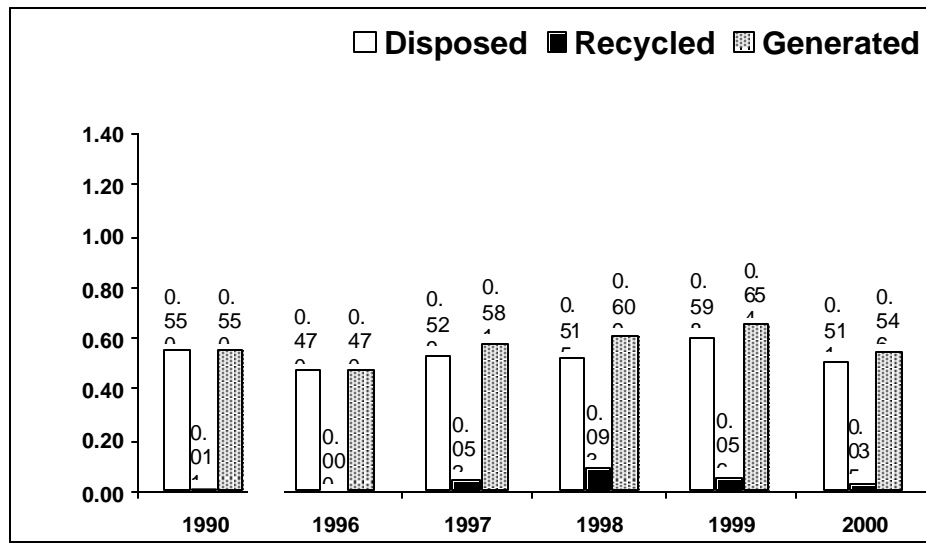
Alberni-Clayoquot Regional District

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

Year	Population	% change from prev yr	Total waste disposed (in tonnes)	% change from prev yr	Tonnes per capita disposed	% change from 1990	Total waste recycled (in tonnes)	% change from prev yr	Tonnes per capita recycled	% change from prev yr	Total waste generated (in tonnes)	% change from prev yr	Tonnes per capita generated	% change from prev yr
1990	30,257		16,641		0.550		332		0.011		16,973		0.550	
1996	30,000		14,097		0.470	-15	0		0.000		14,097		0.470	
1997	28,824	-4	15,254	8	0.529	-4	1,500	-	0.052	-	16,754	19	0.581	24
1998	26,914	-7	13,874	-9	0.515	-6	2,513	68	0.093	79	16,387	-2	0.609	5
1999	34,000	26	20,336	47	0.598	9	1,893	-25	0.056	-40	22,229	36	0.654	7
2000	34,000	0	17,358	-15	0.511	-7	1,202	-36	0.035	-36	18,560	-17	0.546	-17

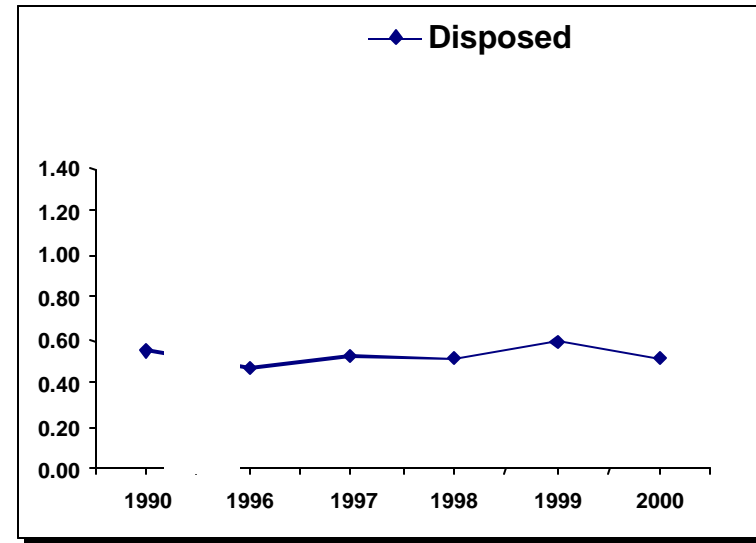
Approved solid waste management Yes SWMP State of 51-75% Date SWMP approved: Feb. 13, 1997

Tonnes Per Capita Recycled and



Data status: Confirmed by Regional District

Tonnes Per Capita



Source of the Data: 1990 Grouping/previous MSW reports  
 1996 Regional District  
 1997 Regional District  
 1998 Regional District  
 1999 Regional District  
 2000 Regional District

Note: 1. 1991-1995 data compiled using different methodology.



Regional District of Bulkley-Nechako

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

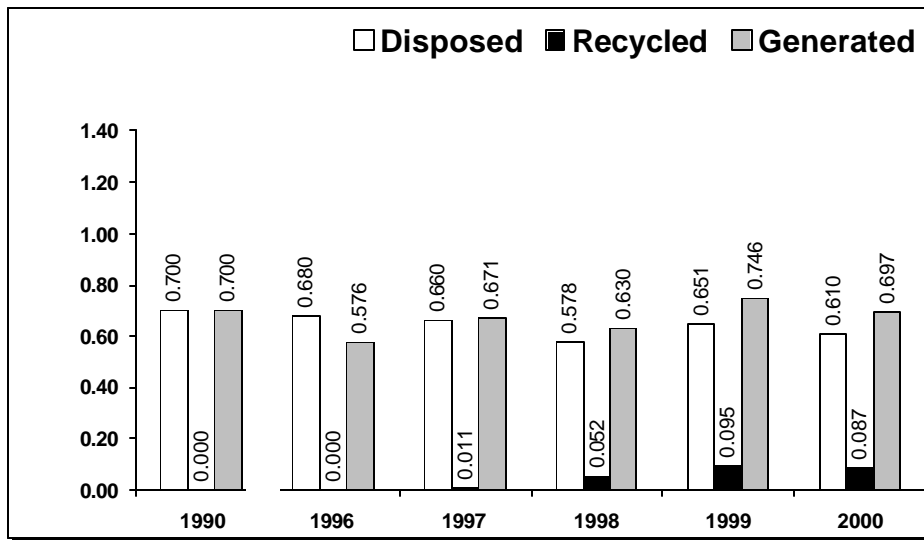
Year	Population	% change from prev yr	Total waste disposed (in tonnes)	% change from prev yr	Tonnes per capita disposed	% change from 1990	Total waste recycled (in tonnes)	% change from prev yr	Tonnes per capita recycled	% change from prev yr	Total waste generated (in tonnes)	% change from prev yr	Tonnes per capita generated	% change from prev yr
1990	37,136		25,995		0.700		0		0.000		25,995		0.700	
1996	43,047		29,272		0.680	-3	1		0.000		29,273		0.576	
1997	41,642	-3	27,493	-6	0.660	-6	451	45000	0.011	46522	27,944	-5	0.671	17
1998	42,899	3	24,789	-10	0.578	-17	2,237	396	0.052	381	27,026	-3	0.630	-6
1999	43,545	2	28,337	14	0.651	-7	4,131	85	0.095	82	32,468	20	0.746	18
2000	44,204	2	26,964	-5	0.610	-13	3,866	-6	0.087	-8	30,830	-5	0.697	-6

Approved solid waste management plan: Yes

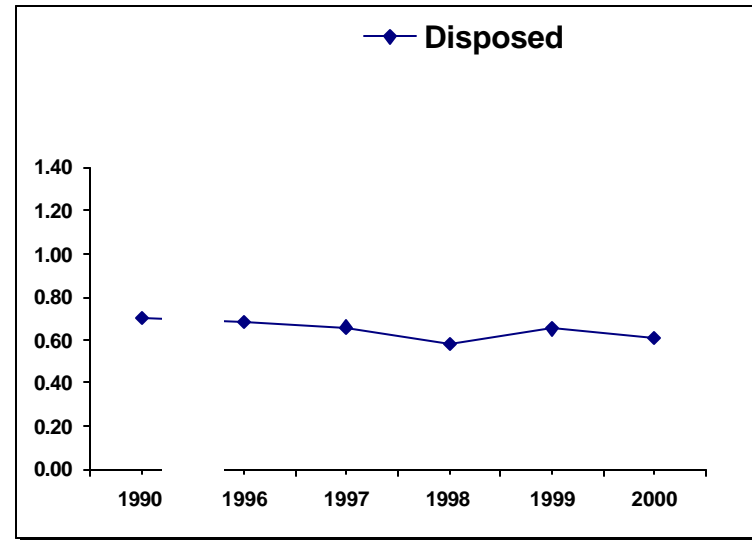
SWMP State of implementation: 0-25%

Date SWMP approved: November 1, 1997

Tonnes Per Capita Recycled and Disposed



Tonnes Per Capita Disposed



Data status: Confirmed by Regional District

Source of the Data: 1990 Grouping/Previous MSW Tracking reports  
 1996 Grouping/Previous MSW Tracking reports  
 1997 Regional District  
 1998 Regional District  
 1999 Regional District  
 2000 Regional District

Note: 1. 1991-1995 data compiled using different methodology.

**Regional District of Bulkley-Nechako**

**Disposed Waste Breakdown by Facility Type**

Disposal Facility	Disposal Method (LF/IN/XP/TS)	Tipping Fees General Refuse (\$/N/NA)	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)			1999	2000
Burns Lake	LF	N/A	Y	Y	N	Y	N	N	N	2004	N/A	3,319	3,164
Ft. Fraser	LF	N/A	Y	Y	N	Y	N	N	N	2003	N/A	260	248
Fort St. James	LF	N/A	Y	Y	Y	N	N	N	N	2001	N/A	3,546	3,348
Fraser Lake	LF	N/A	Y	Y	N	Y	N	N	N	2003	N/A	2,145	2,044
Granisle	LF	N/A	Y	Y	N	Y	N	N	N	2005	N/A	303	289
Knockholt	LF	N/A	Y	Y	N	Y	N	N	N	2050	748,700	3,468	3,305
Manson Creek	LF	N/A	N	Y	N	N	N	N	N	2010	N/A	40	31
Smithers/Telkwa T.S.	XP	N/A	Y	Y	Y	N	Y	N	N	N/A	N/A	8,422	8,028
Southside	XP	N/A	N	N	N	N	N	N	N	N/A	N/A	1,267	1,212
Vanderhoof	LF	N/A	Y	Y	N	N	N	N	N	2002	N/A	5,567	5,296
<b>Total</b>												<b>28,337</b>	<b>26,964</b>

**Recycled Waste Breakdown**

Class	Sub-Class	2000 Total (tonnes)
Glass	Co-mingled	3.0
Metal	White Goods	240.0
	Other	698.0
Organic	Food	
	Yard	
Paper	OCC	40.0
	ONP	
	Fine	
	Mixed	5.0
Plastic	Co-mingled	
	Sorted	
DLC	Wood	2880.0
	Gypsum	
	Concrete	
	Asphalt Shingles	
Other	Specify	
<b>TOTAL</b>		<b>3866.0</b>
<b>TOTAL RECYCLED PER CAPITA (tonnes)</b>		<b>0.087</b>

**Notes, Challenges and Disposal Programs of Significance**

Population devived from Census 1996 figures, and an 1.5 percentage growth each year. Therefore, the population is estimated at 1.5 percent higher them 1999. The yardwaste and OCC collection programs are all public, but municipally run. Data for these programs could not be obtained for this report.

Capital Regional District

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

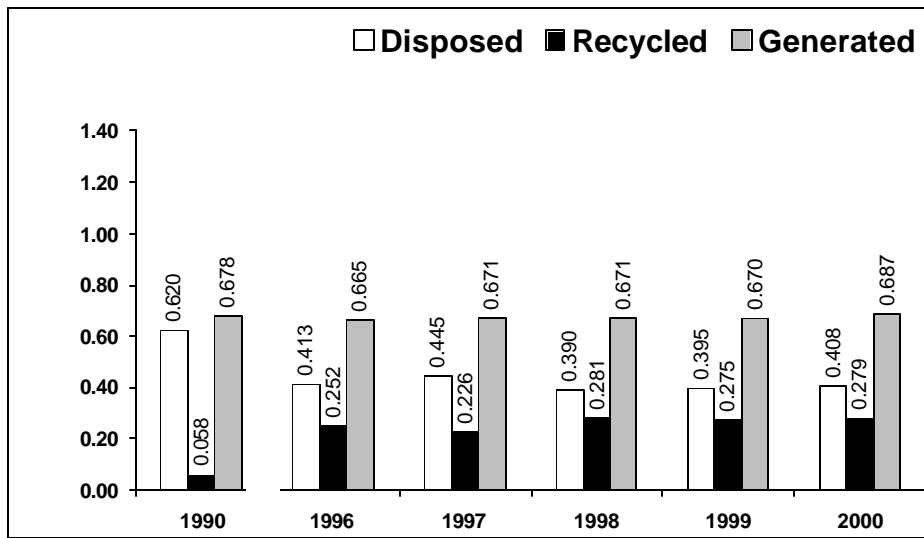
Year	Population	% change from prev yr	Total waste disposed (in tonnes)	% change from prev yr	Tonnes per capita disposed	% change from 1990	Total waste recycled (in tonnes)	% change from prev yr	Tonnes per capita recycled	% change from prev yr	Total waste generated (in tonnes)	% change from prev yr	Tonnes per capita generated	% change from prev yr
1990	291,880		180,966		0.620		16,959		0.058		197,925		0.678	
1996	328,880		135,869		0.413	-33	82,774		0.252		218,643		0.665	
1997	329,135	0	146,442	8	0.445	-28	74,408	-10	0.226	-10	220,850	1	0.671	1
1998	334,871	2	130,604	-11	0.390	-37	94,094	26	0.281	24	224,698	2	0.671	0
1999	339,643	1	134,257	3	0.395	-36	93,341	-1	0.275	-2	227,598	1	0.670	0
2000	334,940	-1	136,654	2	0.408	-34	93,310	0	0.279	1	229,964	1	0.687	2

Approved solid waste management plan: Yes

SWMP State of implementation: 76-100%

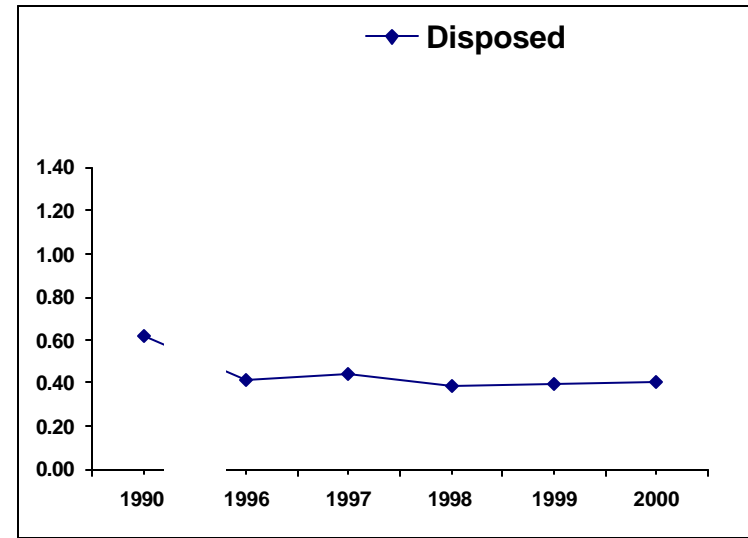
Date SWMP approved: December 22, 1995

Tonnes Per Capita Recycled and Disposed



Data status: Confirmed by Regional District

Tonnes Per Capita Disposed



Source of the Data: 1990 Grouping/Previous MSW Tracking reports  
 1996 Regional District  
 1997 Regional District  
 1998 Regional District  
 1999 Regional District  
 2000 Regional District

Note: 1. 1991-1995 data compiled using different methodology.

**Capital Regional District**

Disposed Waste Breakdown by Facility Type													
Disposal Facility	Disposal Method (LF/IN/XP/TS)	Tipping Fees General Refuse (\$/N/NA)	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)			1999	2000
Hartland Landfill	LF	\$75.00/tonne	Y	Y	Y	N	Y	Y	PARTIAL	2045	6,000,000	134,257	136,654
<b>Total</b>												<b>134,257</b>	<b>136,654</b>

Recycled Waste Breakdown		
Class	Sub-Class	2000 Total (tonnes)
Glass	Co-mingled	819.0
Metal	White Goods	493.0
	Other	1991.0
Organic	Food	
	Yard	3953.0
Paper	OCC	1807.0
	ONP	4416.0
	Fine	
	Mixed	14276.0
Plastic	Co-mingled	106.0
	Sorted	
DLC	Wood	
	Gypsum	318.0
	Concrete	
	Asphalt Shingles	
Other	See Notes	1204.0
<b>TOTAL</b>		<b>29383.0</b>
<b>TOTAL RECYCLED PER CAPITA (tonnes)</b>		<b>0.088</b>

**Notes, Challenges and Disposal Programs of Significance**

NOTE: SECTION 1 - Total Waste Recycled - includes 29,383 tonnes of measured recycling as reported in Section 3 and 63,774 tonnes of estimated as a result of private recycling depots, home composting, effect of landfill bans and other reduction activities. SECTION 3 - Other includes: mixed glass/tin/plastic containers, tires, oil filters, automotive batteries, telephone books and other miscellaneous items. Stewardship items include: tires (89 tonnes) and auto batteries (64 tonnes) and are not included in the Total Waste Recycled figure.

Cariboo Regional District

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

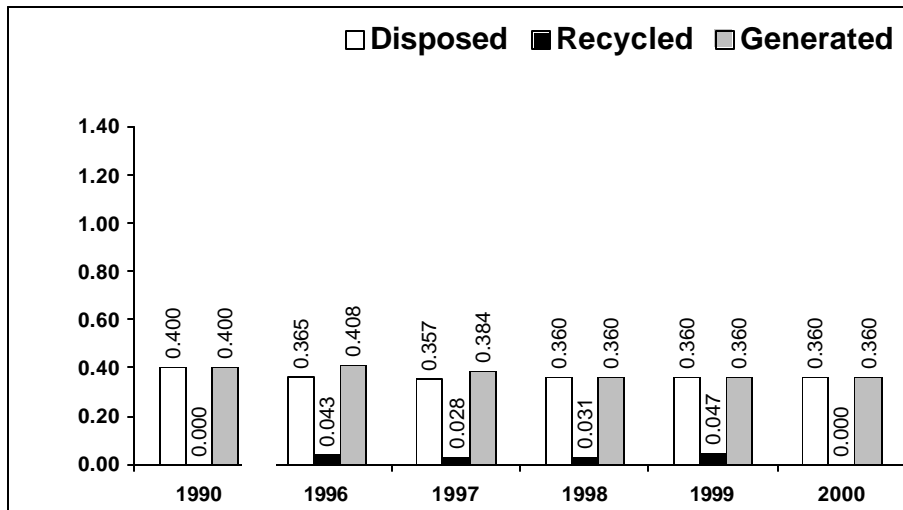
Year	Population	% change from prev yr	Total waste disposed (in tonnes)	% change from prev yr	Tonnes per capita disposed	% change from 1990	Total waste recycled (in tonnes)	% change from prev yr	Tonnes per capita recycled	% change from prev yr	Total waste generated (in tonnes)	% change from prev yr	Tonnes per capita generated	% change from prev yr
1990	58,641		23,456		0.400		0		0.000		23,456		0.400	
1996	69,192		25,261		0.365	-9	2,993		0.043		28,254		0.408	
1997	66,607	-4	23,751	-6	0.357	-11	1,852	-38	0.028	-36	25,603	-9	0.384	-6
1998	73,024	10	24,056	1	0.360	-10	2,232	21	0.031	10	26,288	3	0.360	-6
1999	72,988	0	22,867	-5	0.360	-10	3,397	52	0.047	52	26,264	0	0.360	0
2000	73,549	1	26,466	16	0.360	-10	No Data	-	No Data	-	26,466	1	0.360	0

Approved solid waste management plan: Yes

SWMP State of implementation: 76-100%

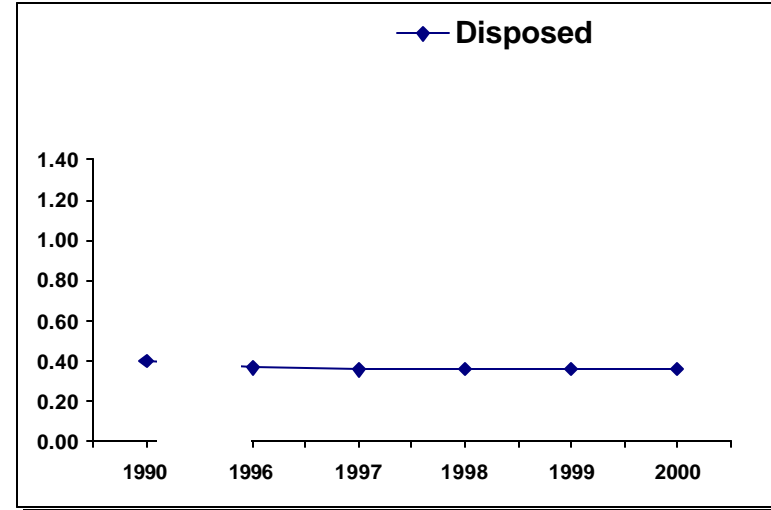
Date SWMP approved: October 24, 1995

Tonnes Per Capita Recycled and Disposed



Data status: See note on source of 2000 data

Tonnes Per Capita Disposed



Source of the Data: 1990

Grouping/Previous MSW Tracking reports

1996

Regional District

1997

Regional District

1998

Regional District

1999

Regional District

2000

Estimated Per Capita Disposal Rate

Note: 1. 1991-1995 data compiled using different methodology.

**Cariboo Regional District**

Disposed Waste Breakdown by Facility Type													
Disposal Facility	Disposal Method (LF/IN/XP/TS)	Tipping Fees General Refuse (\$/N/NA)	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)			1999	2000
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>22,867</b>	<b>26,466</b>

Recycled Waste Breakdown		
Class	Sub-Class	2000 Total (tonnes)
Glass	Co-mingled	
Metal	White Goods	
	Other	
Organic	Food	
	Yard	
Paper	OCC	
	ONP	
	Fine	
	Mixed	
Plastic	Co-mingled	
	Sorted	
DLC	Wood	
	Gypsum	
	Concrete	
	Asphalt Shingles	
Other	Specify	
<b>TOTAL</b>		No data
<b>TOTAL RECYCLED PER CAPITA (tonnes)</b>		No data

**Notes, Challenges and Disposal Programs of Significance**

Disposal Waste Breakdown by Facility Type from 1999 data.

Central Coast Regional District

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

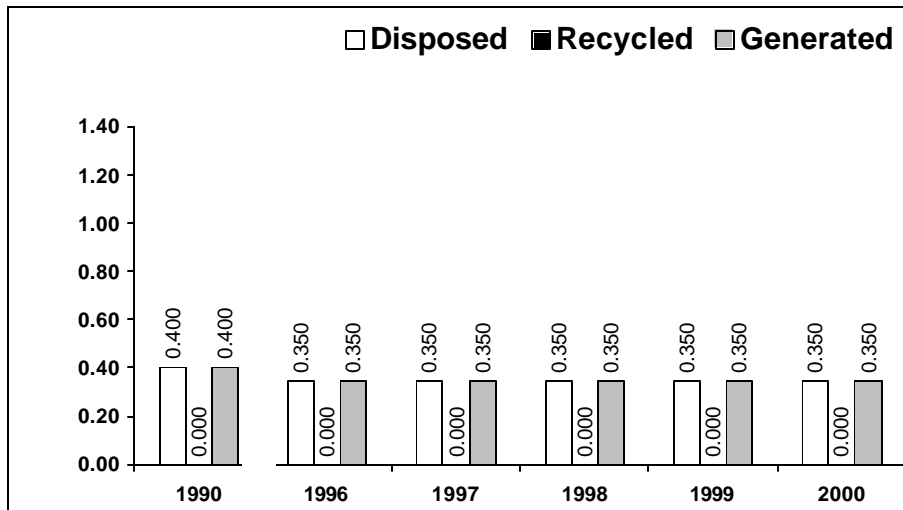
Year	Population	% change from prev yr	Total waste disposed (in tonnes)	% change from prev yr	Tonnes per capita disposed	% change from 1990	Total waste recycled (in tonnes)	% change from prev yr	Tonnes per capita recycled	% change from prev yr	Total waste generated (in tonnes)	% change from prev yr	Tonnes per capita generated	% change from prev yr
1990	3,500		1,400		0.400		0		0.000		1,400		0.400	
1996	4,055		1,419		0.350	-13	No data		No data		1,419		0.350	
1997	4,310	6	1,509	6	0.350	-13	No data	-	No data	-	1,509	6	0.350	0
1998	3,921	-9	1,372	-9	0.350	-13	No data	-	No data	-	1,372	-9	0.350	0
1999	4,320	10	1,512	10	0.350	-13	No data	-	No data	-	1,512	10	0.350	0
2000	4,332	0	1,516	0	0.350	-13	No data	-	No data	-	1,516	0	0.350	0

Approved solid waste management plan: No

SWMP State of implementation: N/A

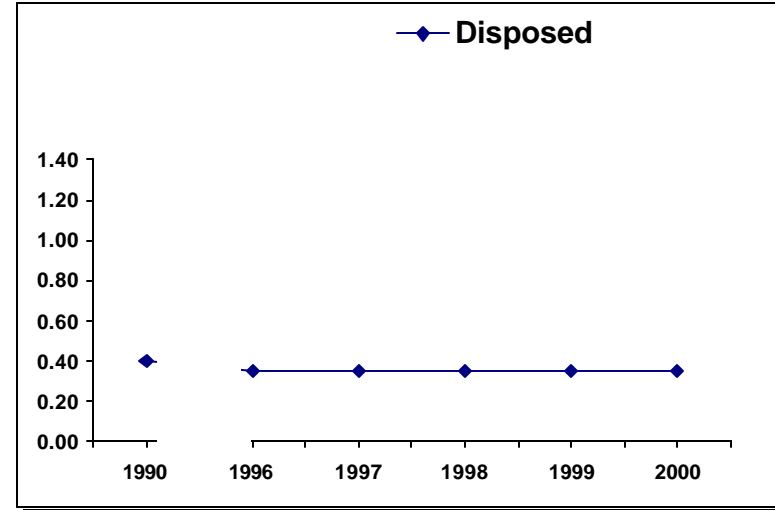
Date SWMP approved: N/A

Tonnes Per Capita Recycled and Disposed



Data status: Confirmed by Regional District

Tonnes Per Capita Disposed



Source of the Data: 1990

Grouping/Previous MSW Tracking reports

1996

Grouping/Previous MSW Tracking reports

1997

Grouping/Previous MSW Tracking reports

1998

Grouping/Previous MSW Tracking reports

1999

1998 Per Capita Disposal Rate

2000

Estimated Per Capita Disposal Rate

Note: 1. 1991-1995 data compiled using different methodology.

**Central Coast Regional District**

**Disposed Waste Breakdown by Facility Type**

Disposal Facility	Disposal Method (LF/IN/XP/TS)	Tipping Fees General Refuse (\$/N/NA)	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)			1999	2000
Thorsen Creek	LF	\$5-100	Y	Y		N	N	N	N	2015		Unknown	Unknown
<b>Total</b>												<b>1,512</b>	<b>1,516</b>

**Recycled Waste Breakdown**

Class	Sub-Class	2000 Total (tonnes)
Glass	Co-mingled	
Metal	White Goods	
	Other	
Organic	Food	
	Yard	
Paper	OCC	
	ONP	
	Fine	
	Mixed	
Plastic	Co-mingled	
	Sorted	
DLC	Wood	
	Gypsum	
	Concrete	
	Asphalt Shingles	
Other	Specify	
<b>TOTAL</b>		No data
<b>TOTAL RECYCLED PER CAPITA (tonnes)</b>		No data

**Notes, Challenges and Disposal Programs of Significance**

Working with local Nuxalk Nation to best devise a cooperative approach to managing solid waste. Progress is slow.

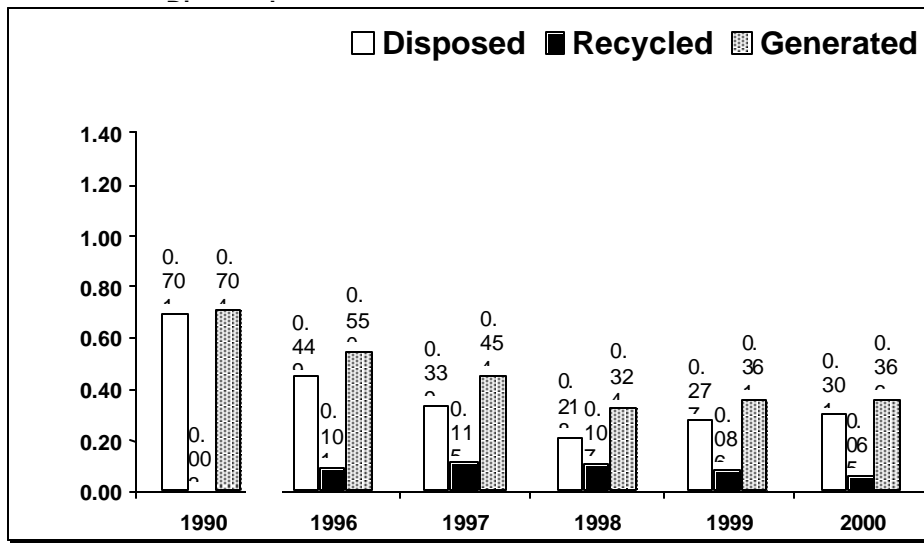
Central Kootenay Regional District

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

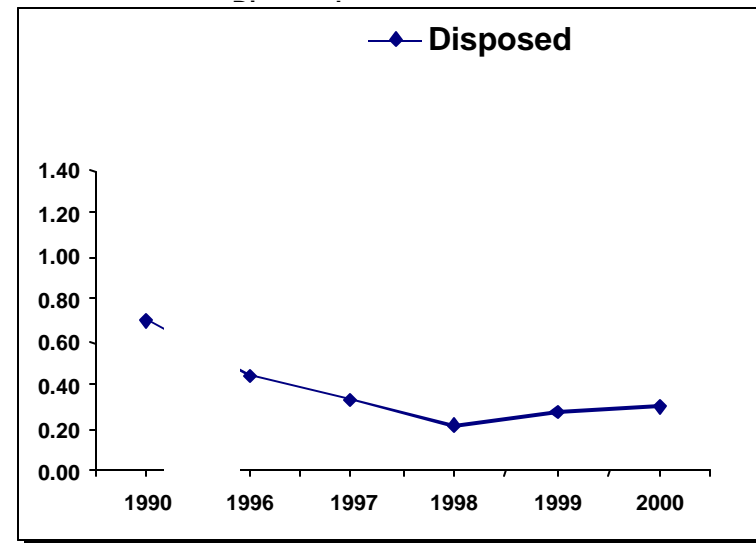
Year	Population	% change from prev yr	Total waste disposed (in tonnes)	% change from prev yr	Tonnes per capita disposed	% change from 1990	Total waste recycled (in tonnes)	% change from prev yr	Tonnes per capita recycled	% change from prev yr	Total waste generated (in tonnes)	% change from prev yr	Tonnes per capita generated	% change from prev yr
1990	49,587		34,760		0.701		148		0.003		34,908		0.704	
1996	58,099		26,083		0.449	-36	5,889		0.101		31,972		0.550	
1997	60,725	5	20,591	-21	0.339	-52	6,988	19	0.115	14	27,579	-14	0.454	-17
1998	61,602	1	13,421	-35	0.218	-69	6,566	-6	0.107	-7	19,987	-28	0.324	-29
1999	61,466	0	17,039	27	0.277	-60	5,296	-19	0.086	-19	22,218	11	0.361	11
2000	61,790	1	18,600	9	0.301	-57	4,018	-24	0.065	-25	22,618	2	0.366	1

Approved solid waste management Yes SWMP State of 76-100% Date SWMP approved: July 12, 1996

Tonnes Per Capita Recycled and



Tonnes Per Capita



Data status: Confirmed by Regional District

Source of the Data: 1990 Grouping/Previous MSW Tracking Reports  
 1996 Regional District  
 1997 Regional District  
 1998 Regional District  
 1999 Regional District  
 2000 Regional District

Note: 1. 1991-1995 data compiled using different methodology.

**Central Kootenay Regional District**

Disposed Waste Breakdown by Facility Type													
Disposal Facility	Disposal Method (LF/IN/XP/TS)	Tipping Fees General Refuse (\$/N/NA)	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)			1999	2000
Boswell	LF	\$12/cubic metre	Y	Y	N	N	N	NA	N	2002	NA	60	200
Canex	LF	\$65/tonne	Y	Y	N	Y	Y	NA	N	2050	750,000	7,410	6,500
Creston	LF	\$12/cubic metre	Y	Y	N	N	N	NA	N	2050	350,000	1,274	4,000
Nakusp	LF	\$12/cubic metre	Y	Y	N	Y	N	NA	N	2025	50,000	616	1,200
Ootischenia	LF	\$60/tonne	Y	Y	N	Y	Y	NA	N	2025	280,000	7,500	6,500
Rosebery	LF	\$12/cubic metre	Y	Y	N	N	N	NA	N	2002	NA	179	200
Balfour	TS	\$12/cubic metre	Y	Y	N	NA	N	NA	N	NA	NA		
Burton	TS	\$12/cubic metre	Y	Y	N	NA	N	NA	N	NA	NA		
Crawford Bay	TS	\$12/cubic metre	Y	Y	N	NA	N	NA	N	NA	NA		
Edgewood	TS	\$12/cubic metre	Y	Y	N	NA	N	NA	N	NA	NA		
Kaslo	TS	\$12/cubic metre	Y		N	NA	N	NA	N	NA	NA		
Marblehead	TS	\$12/cubic metre	Y	Y	N	NA	N	NA	N	NA	NA		
Nelson	TS	\$12/cubic metre	Y	Y	N	NA	Y	NA	N	NA	NA		
Slocan	TS	\$12/cubic metre	Y	Y	N	NA	N	NA	N	NA	NA		
Ymir	TS	\$12/cubic metre	Y	Y	N	NA	N	NA	N	NA	NA		
<b>Total</b>												<b>17,039</b>	<b>18,600</b>

Recycled Waste Breakdown		
Class	Sub-Class	2000 Total (tonnes)
Glass	Co-mingled	153.0
Metal	White Goods	
	Other	700.0
Organic	Food	
	Yard	100.0
Paper	OCC	900.0
	ONP	
	Fine	
	Mixed	1370.0
Plastic	Co-mingled	
	Sorted	45.0
DLC	Wood	750.0
	Gypsum	
	Concrete	
	Other	
Other	Specify	
<b>TOTAL</b>		4018.0
<b>TOTAL RECYCLED PER CAPITA (tonnes)</b>		0.065

**Notes, Challenges and Disposal Programs of Significance**

\*The figures listed do not include materials recycled by the private sector.  
 \*Balfour, Marblehead, Nelson, Ymir, 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.  
 \*Crawford Bay waste is hauled to Creston.

Central Okanagan Regional District

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

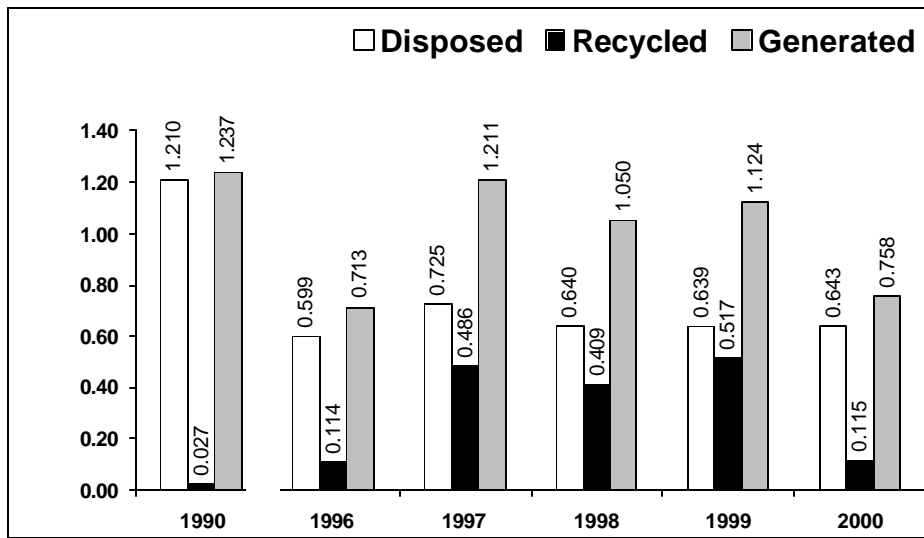
Year	Population	% change from prev yr	Total waste disposed (in tonnes)	% change from prev yr	Tonnes per capita disposed	% change from 1990	Total waste recycled (in tonnes)	% change from prev yr	Tonnes per capita recycled	% change from prev yr	Total waste generated (in tonnes)	% change from prev yr	Tonnes per capita generated	% change from prev yr
1990	103,304		124,998		1.210		2,797		0.027		127,795		1.237	
1996	141,673		84,924		0.599	-50	16,083		0.114		101,007		0.713	
1997	145,213	2	105,259	24	0.725	-40	70,526	339	0.486	328	175,785	74	1.211	70
1998	147,113	1	94,216	-10	0.640	-47	60,222	-15	0.409	-16	154,438	-12	1.050	-13
1999	150,000	2	95,825	2	0.639	-47	77,529	29	0.517	26	168,648	9	1.124	7
2000	152,000	1	97,775	2	0.643	-47	17,445	-77	0.115	-78	115,220	-32	0.758	-33

Approved solid waste management plan: Yes

SWMP State of implementation: 76-100%

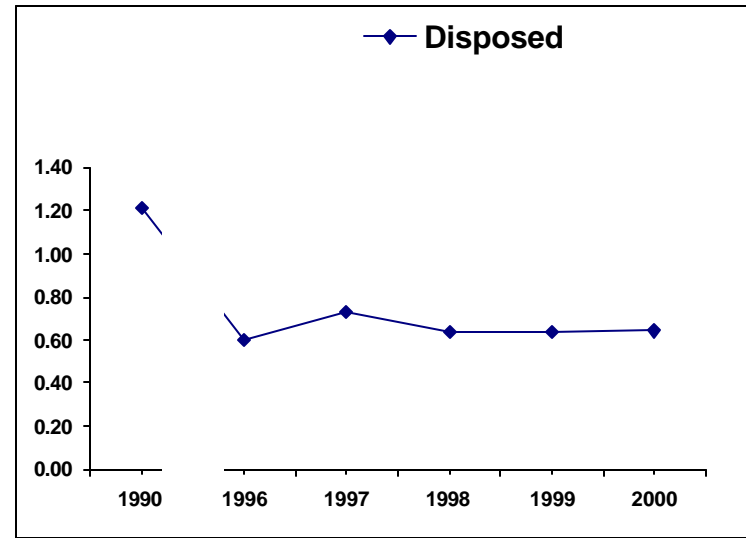
Date SWMP approved: August 1, 1992

Tonnes Per Capita Recycled and Disposed



Data status: Confirmed by Regional District

Tonnes Per Capita Disposed



Source of the Data: 1990 Grouping/Previous MSW Tracking Reports  
 1996 Regional District  
 1997 Regional District  
 1998 Regional District  
 1999 Regional District  
 2000 Regional District

Note: 1. 1991-1995 data compiled using different methodology.

Central Okanagan Regional District

Disposed Waste Breakdown by Facility Type

Disposal Facility	Disposal Method (LF/IN/XP/TS)	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)			1999	2000
Glenmore	LF	\$50/tonne	Y	Y	N	N	Y	N	N	2050	8,500,000	77,687	79,297
Westside	LF	\$50/tonne	Y	Y	N	Y	Y	N	N	2014	899473	18,138	18,478
<b>Total</b>												<b>95,825</b>	<b>97,775</b>

Recycled Waste Breakdown

Class	Sub-Class	2000 Total (tonnes)
Glass	Co-mingled	220.0
Metal	White Goods	N/A
	Other	871.0
Organic	Food	N/A
	Yard	1887.0
Paper	OCC	490.0
	ONP	1655.0
	Fine	N/A
	Mixed	1305.0
Plastic	Co-mingled	N/A
	Sorted	95.0
DLC	Wood	1445.0
	Gypsum	165.0
	Concrete	2335.0
	Compost Material & Brush	6952.0
Other	Mattresses	25.2
<b>TOTAL</b>		17445.2
<b>TOTAL RECYCLED PER CAPITA (tonnes)</b>		0.115

Notes, Challenges and Disposal Programs of Significance

Total Waste Disposed: 2000 buried garbage increased overall, however the residential collection sector decreased by 9% with the implementation of the Blue Bag Curbside program in July 2000. During this same period, the area's population increased by approx. 2000 people. At the end of 2000 the RDCO achieved a waste reduction of 47%, the same as 1999. Total Waste Recycled and Recycled Waste Breakdown: Unlike previous years, 2000 totals ONLY reflect materials collected through RDCO curbside and depot systems (no private recycling included). Metal tonnage includes white goods. Concrete and wood tonnages are tracked only by Glenmore Landfill. The Westside Landfill does not weigh concrete in separately, only part of "construction waste". E.A.s that do not have a composting facility or recycling/yard waste depots available in their community use facilities in nearby E.A.s. The compost demo garden program is also available to all munis and E.A.s. The multi-material processing facility is a private company that holds the public curbside recycling contract and is available to all the municipalities and E.A.s.

Columbia Shuswap Regional District

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

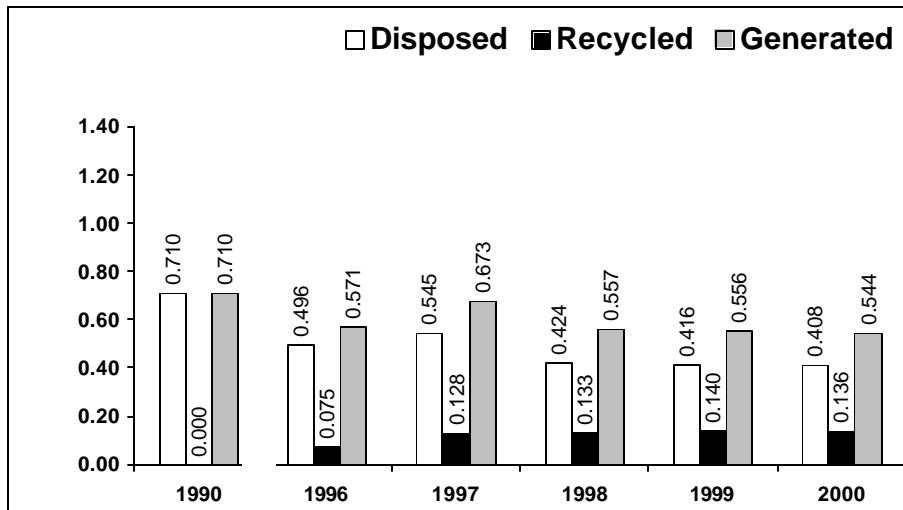
Year	Population	% change from prev yr	Total waste disposed (in tonnes)	% change from prev yr	Tonnes per capita disposed	% change from 1990	Total waste recycled (in tonnes)	% change from prev yr	Tonnes per capita recycled	% change from prev yr	Total waste generated (in tonnes)	% change from prev yr	Tonnes per capita generated	% change from prev yr
1990	40,510		28,762		0.710		15		0.000		28,777		0.710	
1996	48,115		23,852		0.496	-30	3,600		0.075		27,452		0.571	
1997	48,115	0	26,224	10	0.545	-23	6,174	72	0.128	72	32,398	18	0.673	18
1998	52,256	9	22,140	-16	0.424	-40	6,961	13	0.133	4	29,101	-10	0.557	-17
1999	52,256	0	21,746	-2	0.416	-41	7,325	5	0.140	5	29,071	0	0.556	0
2000	52,973	1	21,623	-1	0.408	-43	7,203	-2	0.136	-3	28,826	-1	0.544	-2

Approved solid waste management plan: Yes

SWMP State of implementation: 76-100%

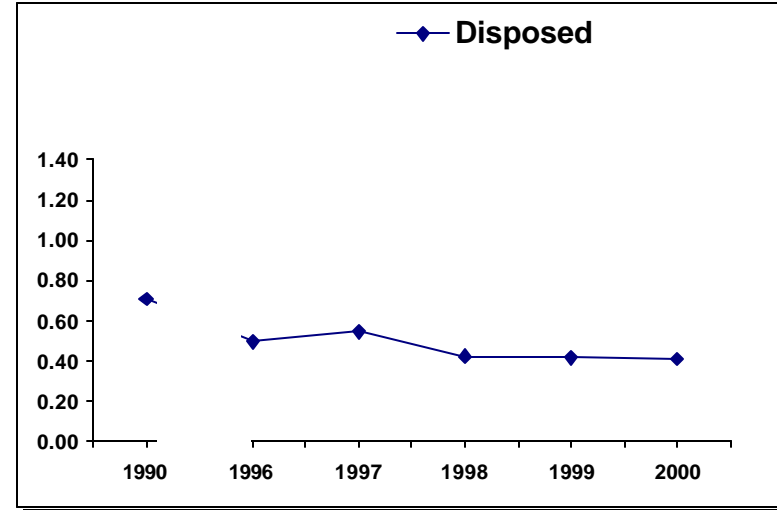
Date SWMP approved: August 1, 1994

Tonnes Per Capita Recycled and Disposed



Data status: Confirmed by Regional District

Tonnes Per Capita Disposed



Source of the Data: 1990

Grouping/Previous MSW Tracking reports

1996

Regional District

1997

Regional District

1998

Regional District

1999

Regional District

2000

Regional District

Note: 1. 1991-1995 data compiled using different methodology.

**Columbia Shuswap Regional District**

**Disposed Waste Breakdown by Facility Type**

Disposal Facility	Disposal Method (L/F/N/X/P/T/S)	Tipping Fees General Refuse (\$/N/NA)	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)			1999	2000
Salmon Arm	LF	\$60/tonne	Y	Y	Y	N	Y	N	N	2080		8,520	8,022
Sicamous	LF	\$60/tonne	Y	Y	Y	Y	Y	N	N	2020		4,573	1,903
Revelstoke	LF	\$60/tonne	Y	Y	Y	Y	Y	N	N	2100		4,151	4,433
Golden	LF	\$60/tonne	Y	Y	Y	Y	Y	N	N	2040		1,867	2,746
Skimikin	LF	\$60/tonne	Y	Y	Y	Y	Y	N	N	2005		2,635	4,519
<b>Total</b>												<b>21,746</b>	<b>21,623</b>

**Recycled Waste Breakdown**

Class	Sub-Class	2000 Total (tonnes)
Glass	Co-mingled	95.0
	White Goods	57.0
Metal	Other	1033.0
	Food	
Organic	Yard	434.0
	OCC	2000.0
Paper	ONP	413.0
	Fine	76.0
	Mixed	6.0
Plastic	Co-mingled	
	Sorted	2.0
DLC	Wood	2407.0
	Gypsum	
	Concrete	
	Other	
Other	Bio Solids	680.0
<b>TOTAL</b>		<b>7203.0</b>
<b>TOTAL RECYCLED PER CAPITA (tonnes)</b>		<b>0.136</b>

**Notes, Challenges and Disposal Programs of Significance**

The decrease in recyclables collected is partially due to a reduction in the amount of yard waste collected possibly because of the increased promotion of home composting by the regional district, especially at the landfill where the tipping fee for compostable waste is \$60/tonne. No new waste diversion programs were introduced in 2000. The decrease in total waste generated is likely due to economic circumstances.

Comox-Strathcona Regional District

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

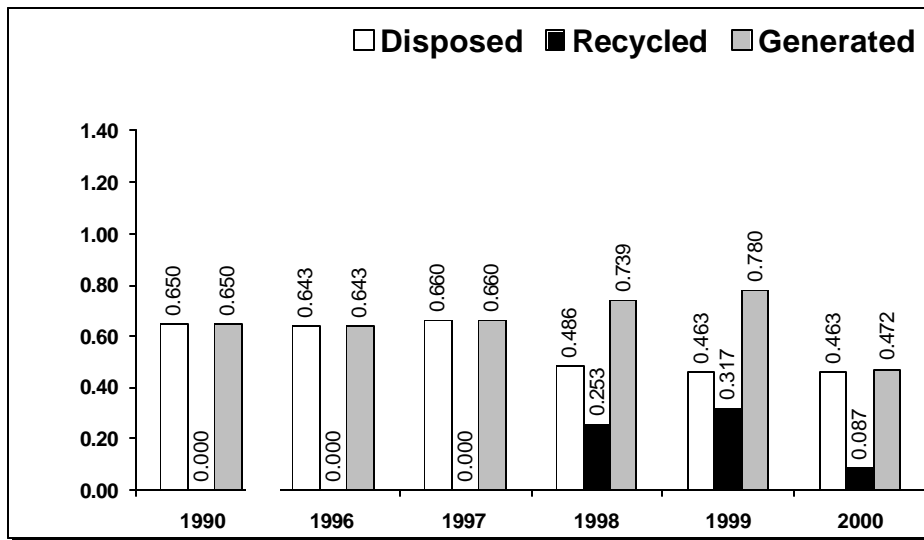
Year	Population	% change from prev yr	Total waste disposed (in tonnes)	% change from prev yr	Tonnes per capita disposed	% change from 1990	Total waste recycled (in tonnes)	% change from prev yr	Tonnes per capita recycled	% change from prev yr	Total waste generated (in tonnes)	% change from prev yr	Tonnes per capita generated	% change from prev yr
1990	82,378		53,546		0.650		0		0.000		53,546		0.650	
1996	97,667		62,779		0.643	-1	No data		No data		62,779		0.643	
1997	103,995	6	68,637	9	0.660	2	No data	-	No data	-	68,637	9	0.660	3
1998	101,085	-3	49,092	-28	0.486	-25	25,591	-	0.253	-	74,683	9	0.739	12
1999	105,321	4	48,735	-1	0.463	-29	33,405	31	0.317	25	82,141	10	0.780	6
2000	105,439	0	40,588	-17	0.463	-29	9,176	-73	0.087	-73	49,765	-39	0.472	-39

Approved solid waste management plan: Yes

SWMP State of implementation: Unknown

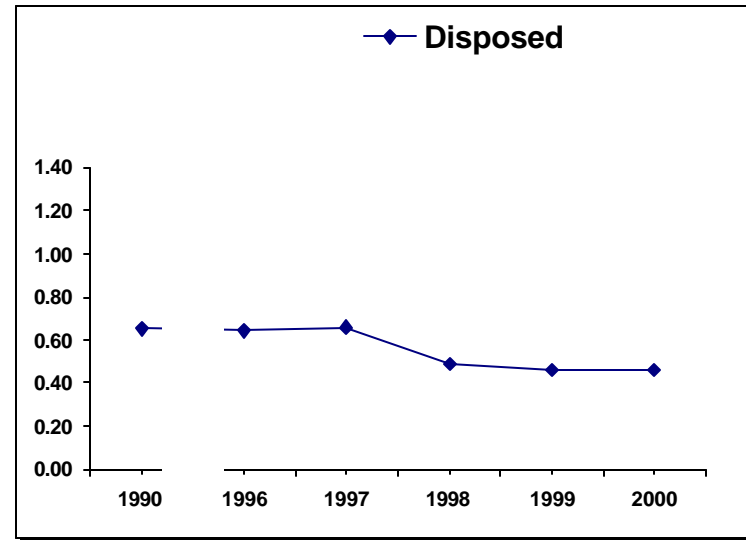
Date SWMP approved: September 1, 1995

Tonnes Per Capita Recycled and Disposed



Data status: Confirmed by Regional District

Tonnes Per Capita Disposed



Source of the Data: 1990 Grouping/Previous MSW Tracking reports  
 1996 Regional District  
 1997 Grouping/Previous MSW Tracking reports  
 1998 Regional District  
 1999 Regional District  
 2000 Regional District

Note: 1. 1991-1995 data compiled using different methodology.



Cowichan Valley Regional District

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

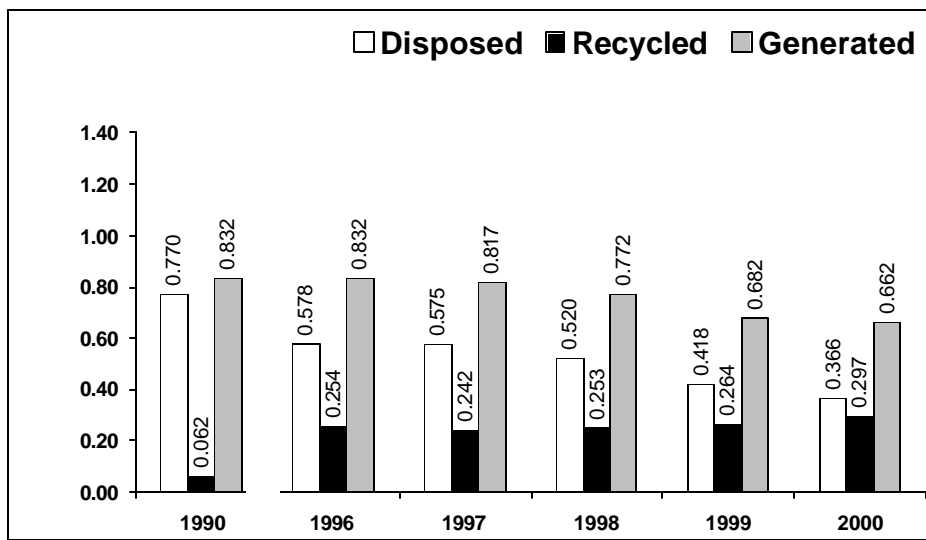
Year	Population	% change from prev yr	Total waste disposed (in tonnes)	% change from prev yr	Tonnes per capita disposed	% change from 1990	Total waste recycled (in tonnes)	% change from prev yr	Tonnes per capita recycled	% change from prev yr	Total waste generated (in tonnes)	% change from prev yr	Tonnes per capita generated	% change from prev yr
1990	59,059		45,475		0.770		3,662		0.062		49,137		0.832	
1996	70,978		41,032		0.578	-25	18,021		0.254		59,053		0.832	
1997	72,691	2	41,820	2	0.575	-25	17,572	-	0.242	-	59,392	1	0.817	-2
1998	73,735	1	38,323	-8	0.520	-33	18,620	-	0.253	-	56,943	-4	0.772	-5
1999	76,386	4	31,911	-17	0.418	-46	20,195	8	0.264	5	52,106	-8	0.682	-12
2000	76,819	1	28,088	-12	0.366	-53	22,786	13	0.297	12	50,874	-2	0.662	-3

Approved solid waste management plan: Yes

SWMP State of implementation: 51-75%

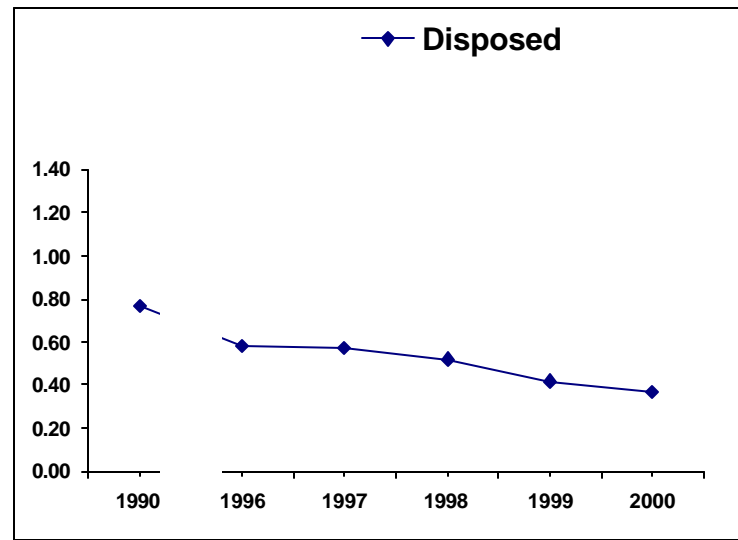
Date SWMP approved: December 22, 1995

Tonnes Per Capita Recycled and Disposed



Data status: Confirmed by Regional District

Tonnes Per Capita Disposed



Source of the Data: 1990 Grouping/Previous MSW Tracking reports  
 1996 Regional District  
 1997 Regional District  
 1998 Regional District  
 1999 Regional District  
 2000 Regional District

Note: 1. 1991-1995 data compiled using different methodology.



East Kootenay Regional District

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

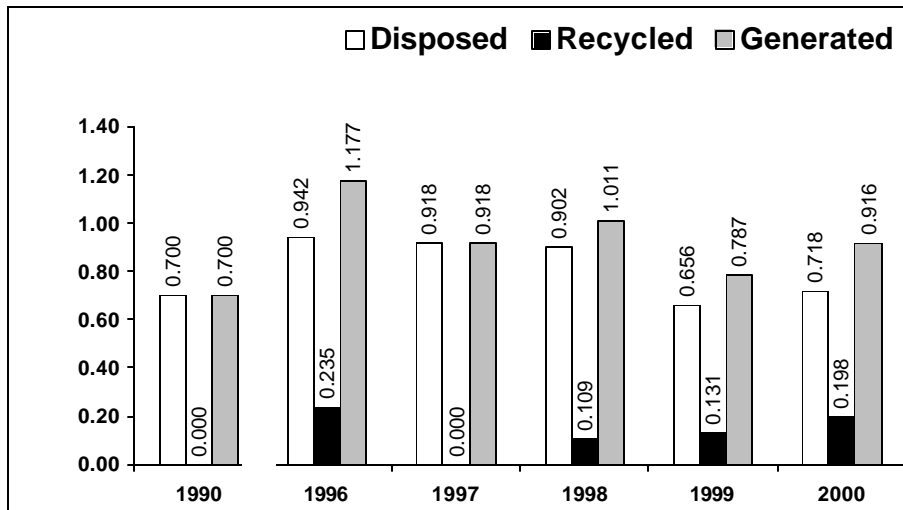
Year	Population	% change from prev yr	Total waste disposed (in tonnes)	% change from prev yr	Tonnes per capita disposed	% change from 1990	Total waste recycled (in tonnes)	% change from prev yr	Tonnes per capita recycled	% change from prev yr	Total waste generated (in tonnes)	% change from prev yr	Tonnes per capita generated	% change from prev yr
1990	48,773		34,141		0.700		0		0.000		34,141		0.700	
1996	58,608		55,209		0.942	35	13,745		0.235		68,954		1.177	
1997	59,557	2	54,675	-1	0.918	31	No data	-	No data	-	54,675	-21	0.918	-22
1998	60,054	1	54,167	-1	0.902	29	6,558	-	0.109	-	60,725	11	1.011	10
1999	61,145	2	40,123	-26	0.656	-6	8,027	22	0.131	20	48,150	-21	0.787	-22
2000	62,240	2	44,677	11	0.718	3	12,347	54	0.198	51	57,024	18	0.916	16

Approved solid waste management plan: No

SWMP State of implementation: N/A

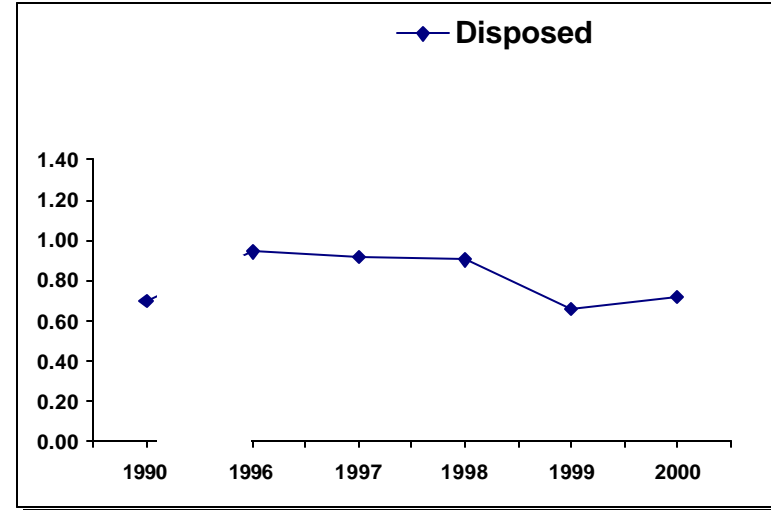
Date SWMP approved: N/A

Tonnes Per Capita Recycled and Disposed



Data status: Confirmed by Regional District

Tonnes Per Capita Disposed



Source of the Data: 1990

Grouping/Previous MSW Tracking reports

1996

Regional District

1997

Grouping/Previous MSW Tracking reports

1998

Regional District

1999

Regional District

2000

Regional District

Note: 1. 1991-1995 data compiled using different methodology.



Fraser-Fort George Regional District

Regional District Area (km<sup>2</sup>): 52000

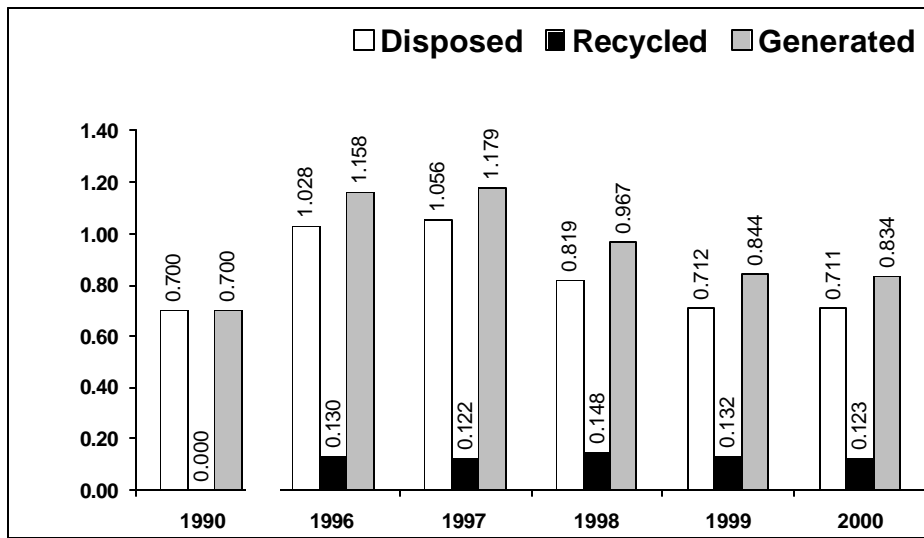
Year	Population	% change from prev yr	Total waste disposed (in tonnes)	% change from prev yr	Tonnes per capita disposed	% change from 1990	Total waste recycled (in tonnes)	% change from prev yr	Tonnes per capita recycled	% change from prev yr	Total waste generated (in tonnes)	% change from prev yr	Tonnes per capita generated	% change from prev yr
1990	85,971		60,180		0.700		16		0.000		60,195		0.700	
1996	98,974		101,782		1.028	47	12,855		0.130		114,637		1.158	
1997	101,349	2	107,044	5	1.056	51	12,414	-3	0.122	-6	119,458	4	1.179	2
1998	103,782	2	85,041	-21	0.819	17	15,336	24	0.148	21	100,377	-16	0.967	-18
1999	106,273	2	75,650	-11	0.712	2	14,020	-9	0.132	-11	89,670	-11	0.844	-13
2000	106,933	1	76,027	0	0.711	2	13,108	-7	0.123	-7	89,135	-1	0.834	-1

Approved solid waste management plan: Yes

SWMP State of implementation: 76-100%

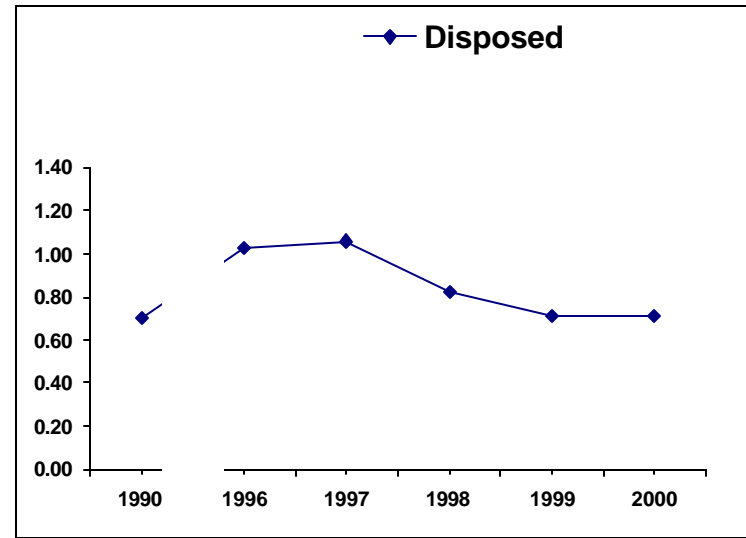
Date SWMP approved: October 16, 1997

Tonnes Per Capita Recycled and Disposed



Data status: Confirmed by Regional District

Tonnes Per Capita Disposed



Source of the Data: 1990 Grouping/Previous MSW Tracking reports  
 1996 Regional District  
 1997 Regional District  
 1998 Regional District  
 1999 Regional District  
 2000 Regional District

Note: 1. 1991-1995 data compiled using different methodology.

**Fraser-Fort George Regional District**

**Disposed Waste Breakdown by Facility Type**

Disposal Facility	Disposal Method (LF/IN/XP/TS)	Tipping Fees General Refuse (\$/N/NA)	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)			1999	2000
Foothills Blvd.	LF	Variable Rate	Y	Y	Y	N	Y	N	N	2040 +	NA	67,717	68,645
Mackenzie	LF	See above	Y	Y	Y	Y	Y	N	N	2003	NA	3,619	3,637
Legrand	LF	See above	N	Y		N	N	N	N	2001	NA	2,321	2,496
Berman	LF	N	N			N	N	N	N	1999	NA	341	37
Mud River	LF	N	N			N	N	N	N	2001	NA	426	500
Hixon	LF	N	N			N	N	N	N	1998	NA	Closed	Closed
Stone Creek	LF	N	N			N	N	N	N	2003	NA	221	260
Bear Lake	LF	N	N			N	N	N	N	1998	NA	Closed	Closed
Dome Creek	LF	N	N			N	N	N	N	2002	NA	68	80
McLeod Lake	LF	N	N			N	N	N	N	2000	NA	94	110
Shelley	LF	N	N			N	N	N	N	1999	NA	673	62
Summit Lake	LF	N	N			N	N	N	N	1998	NA	Closed	Closed
Sinclair Mills	LF	N	N			N	N	N	N	2003	NA	170	200
Willow River	LF	N	N			N	N	N	N	1998	NA	Closed	Closed
<b>Total</b>												<b>75,650</b>	<b>76,027</b>

**Recycled Waste Breakdown**

Class	Sub-Class	2000 Total (tonnes)
<b>Glass</b>	Co-mingled	
<b>Metal</b>	White Goods	100.1
	Other	652.9
<b>Organic</b>	Food	
	Yard	6368.5
<b>Paper</b>	OCC	133.9
	ONP	
	Fine	
	Mixed	5655.0
<b>Plastic</b>	Co-mingled	
	Sorted	13.0
<b>DLC</b>	Wood	26.7
	Gypsum	
	Concrete	
	Asphalt Shingles	
<b>Other</b>	Salvage	157.6
<b>TOTAL</b>		<b>13107.7</b>
<b>TOTAL RECYCLED PER CAPITA (tonnes)</b>		<b>0.123</b>

**Notes, Challenges and Disposal Programs of Significance**

\*Berman Lake Regional Landfill and Shelley Regional landfill were closed for landfilling activities as transfer stations became operational during the month of January 2000 \*Regional District reported 141 tonnes of tires and 1155 tonnes of batteries collected under provincial stewardship programs. These have not been included in Recycling Waste Breakdown and are reported under the provincial recycling figures.

Fraser Valley Regional District

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

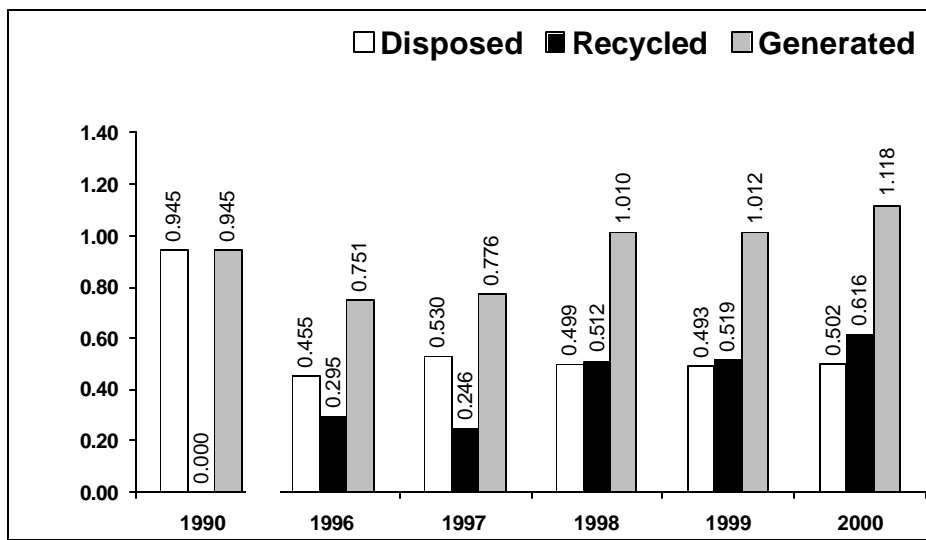
Year	Population	% change from prev yr	Total waste disposed (in tonnes)	% change from prev yr	Tonnes per capita disposed	% change from 1990	Total waste recycled (in tonnes)	% change from prev yr	Tonnes per capita recycled	% change from prev yr	Total waste generated (in tonnes)	% change from prev yr	Tonnes per capita generated	% change from prev yr
1990	209,641		198,111		0.945		0		0.000		198,111		0.945	
1996	222,397		101,273		0.455	-52	65,663		0.295		166,936		0.751	
1997	234,159	5	124,066	23	0.530	-44	57,525	-12	0.246	-17	181,591	9	0.776	3
1998	237,128	1	118,309	-5	0.499	-47	121,304	111	0.512	108	239,613	32	1.010	30
1999	240,022	1	118,365	0	0.493	-48	124,465	3	0.519	1	242,830	1	1.012	0
2000	243,008	1	121,983	3	0.502	-47	149,812	20	0.616	19	271,795	12	1.118	11

Approved solid waste management plan: Yes

SWMP State of implementation: 76-100%

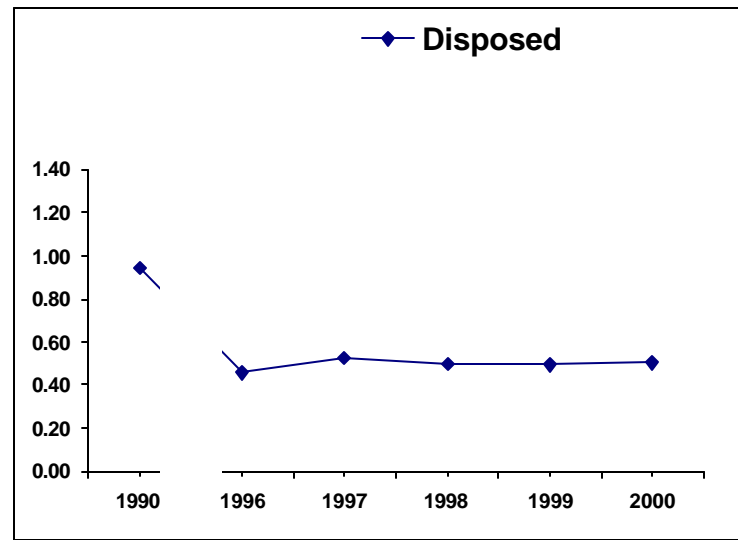
Date SWMP approved: November 14, 1996

Tonnes Per Capita Recycled and Disposed



Data status: Confirmed by Regional District

Tonnes Per Capita Disposed



Source of the Data: 1990 Grouping/Previous MSW Tracking reports  
 1996 Regional District  
 1997 Regional District  
 1998 Regional District  
 1999 Regional District  
 2000 Regional District

Note: 1. 1991-1995 data compiled using different methodology.



Greater Vancouver Regional District

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

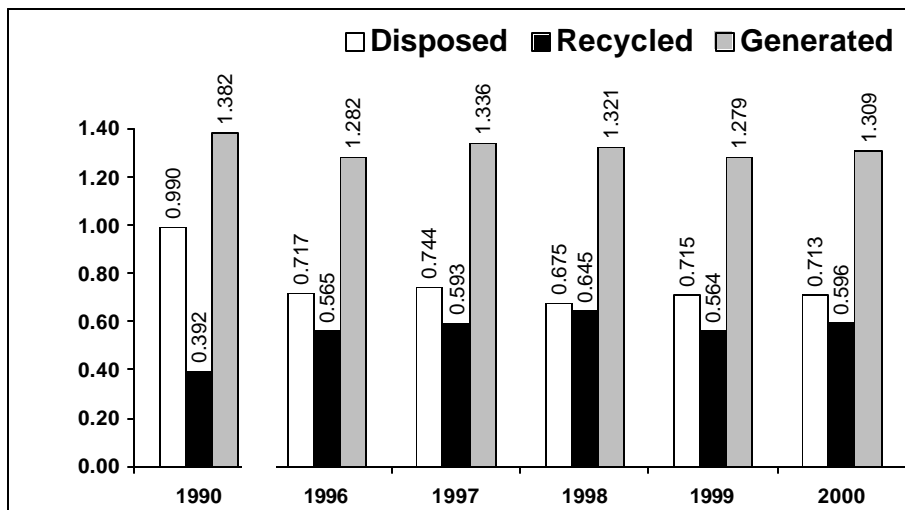
Year	Population	% change from prev yr	Total waste disposed (in tonnes)	% change from prev yr	Tonnes per capita disposed	% change from 1990*	Total waste recycled (in tonnes)	% change from prev yr	Tonnes per capita recycled	% change from prev yr	Total waste generated (in tonnes)	% change from prev yr	Tonnes per capita generated	% change from prev yr
1990	1,610,899		1,594,790		0.990		631,000		0.392		2,225,790		1.382	
1996	1,898,687		1,360,682		0.717	-28	1,072,691		0.565		2,433,373		1.282	
1997	1,934,210	2	1,438,608	6	0.744	-25	1,146,458	7	0.593	5	2,585,066	6	1.336	4
1998	1,978,848	2	1,336,671	-7	0.675	-32	1,276,430	11	0.645	9	2,613,101	1	1.321	-1
1999	1,990,961	1	1,422,779	6	0.715	-28	1,122,717	-12	0.564	-13	2,545,496	-3	1.279	-3
2000	2,011,035	1	1,433,383	1	0.713	-28	1,198,861	7	0.596	6	2,632,244	3	1.309	2

Approved solid waste management plan: Yes

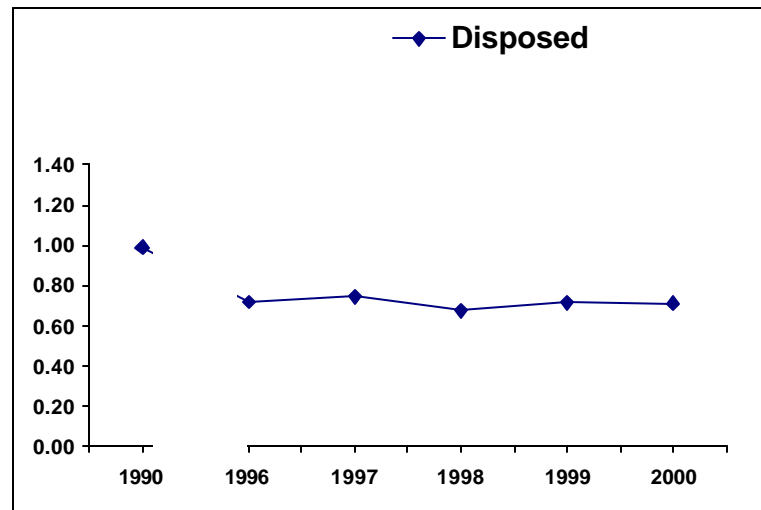
SWMP State of implementation: 76-100%

Date SWMP approved: November 28, 1995

Tonnes Per Capita Recycled and Disposed



Tonnes Per Capita Disposed



**Data status:** Confirmed by Regional District  
 \*GVRD calculates reduction in any one year by comparing waste disposed in that year to waste generated in 1990. Using this method the percent change in 2000 from 1990 is -48.4%.

**Source of the Data:** 1990 Grouping/Previous MSW Tracking reports  
 1996 Regional District  
 1997 Regional District  
 1998 Regional District  
 1999 Regional District  
 2000 Regional District

**Note:** 1. 1991-1995 data compiled using different methodology.



Kitimat-Stikine Regional District

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

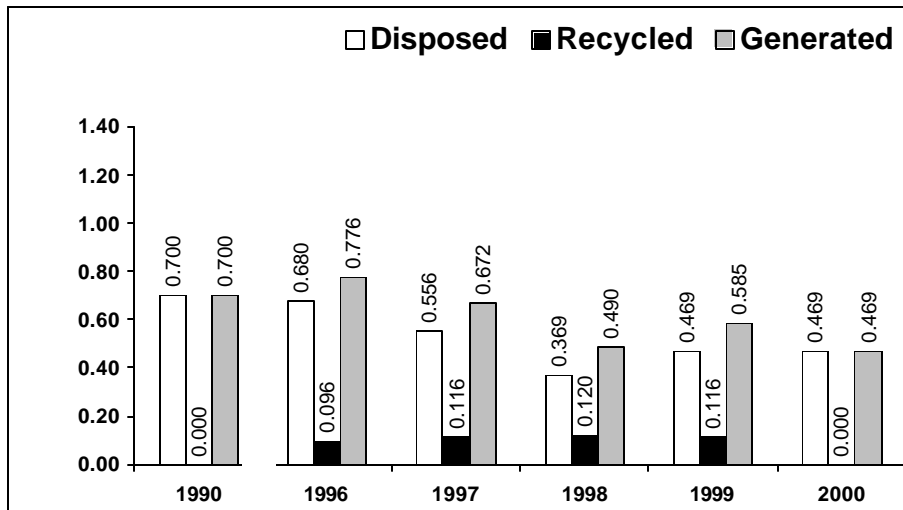
Year	Population	% change from prev yr	Total waste disposed (in tonnes)	% change from prev yr	Tonnes per capita disposed	% change from 1990	Total waste recycled (in tonnes)	% change from prev yr	Tonnes per capita recycled	% change from prev yr	Total waste generated (in tonnes)	% change from prev yr	Tonnes per capita generated	% change from prev yr
1990	39,431		27,602		0.700		0		0.000		27,602		0.700	
1996	43,618		29,660		0.680	-3	4,176		0.096		33,836		0.776	
1997	44,141	1	24,559	-17	0.556	-21	5,101	22	0.116	21	29,660	-12	0.672	-13
1998	44,671	1	16,489	-33	0.369	-47	5,381	5	0.120	4	21,869	-26	0.490	-27
1999	46,449	4	21,800	32	0.469	-33	5,374	0	0.116	-4	27,174	24	0.585	20
2000	46,870	1	21,982	1	0.469	-33	No Data	0	No Data	-	21,982	-19	0.469	-20

Approved solid waste management plan: Yes

SWMP State of implementation: 26-50%

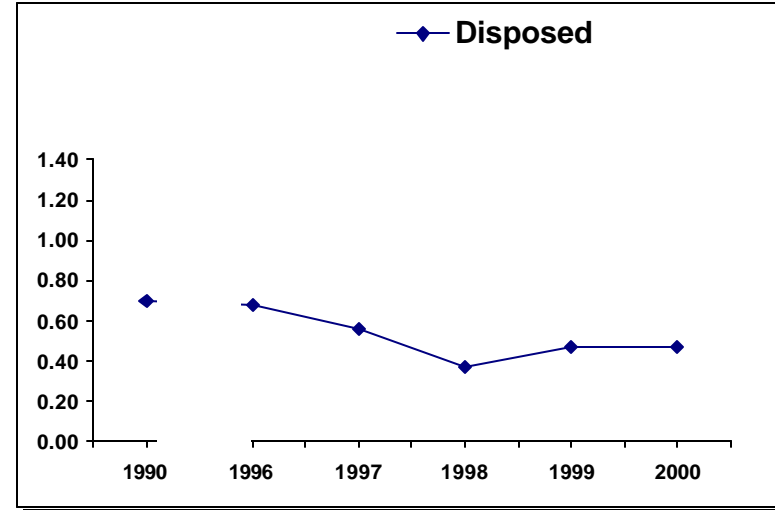
Date SWMP approved: February 26, 1996

Tonnes Per Capita Recycled and Disposed



Data status: See note on source of 2000 data

Tonnes Per Capita Disposed



Source of the Data: 1990

Grouping/Previous MSW Tracking reports

1996

Regional District

1997

Regional District

1998

Regional District

1999

Regional District

2000

Estimated Per Capita Disposal Rate

Note: 1. 1991-1995 data compiled using different methodology.

**Kitimat-Stikine Regional District**

**Disposed Waste Breakdown by Facility Type**

Disposal Facility	Disposal Method (L/F/N/X/P/T/S)	Tipping Fees General Refuse (\$/N/NA)	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)			1999	2000
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	LF		N	Y	N	N	N	N	N			219	
Nass	LF		Y	Y		Y	N	N	N			1,015	
<b>Total</b>												<b>21,800</b>	<b>21,982</b>

**Recycled Waste Breakdown**

Class	Sub-Class	2000 Total (tonnes)
Glass	Co-mingled	
Metal	White Goods	
	Other	
Organic	Food	
	Yard	
Paper	OCC	
	ONP	
	Fine	
	Mixed	
Plastic	Co-mingled	
	Sorted	
DLC	Wood	
	Gypsum	
	Concrete	
	Asphalt Shingles	
Other	Specify	
<b>TOTAL</b>		No data
<b>TOTAL RECYCLED PER CAPITA (tonnes)</b>		No data

**Notes, Challenges and Disposal Programs of Significance**

Disposal facility data from 1999 report.

Kootenay Boundary Regional District

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

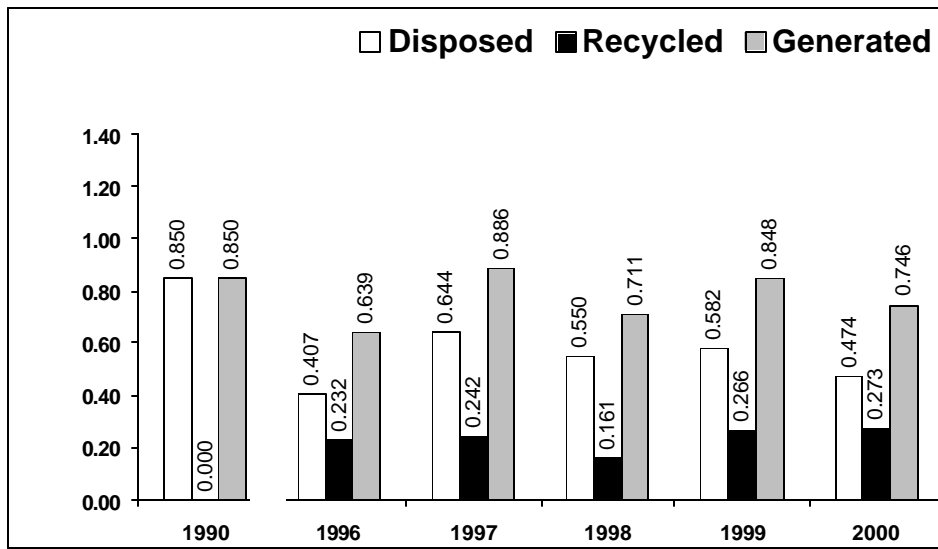
Year	Population	% change from prev yr	Total waste disposed (in tonnes)	% change from prev yr	Tonnes per capita disposed	% change from 1990	Total waste recycled (in tonnes)	% change from prev yr	Tonnes per capita recycled	% change from prev yr	Total waste generated (in tonnes)	% change from prev yr	Tonnes per capita generated	% change from prev yr
1990	30,425		25,861		0.850		0		0.000		25,861		0.850	
1996	32,906		13,409		0.407	-52	7,626		0.232		21,035		0.639	
1997	32,906	0	21,197	58	0.644	-24	7,953	4	0.242	4	29,150	39	0.886	39
1998	34,309	4	18,873	-11	0.550	-35	5,523	-31	0.161	-33	24,396	-16	0.711	-20
1999	34,156	0	19,886	5	0.582	-32	9,073	64	0.266	65	28,959	19	0.848	19
2000	34,065	0	16,134	-19	0.474	-44	9,287	2	0.273	3	25,421	-12	0.746	-12

Approved solid waste management plan: Yes

SWMP State of implementation: 76-100%

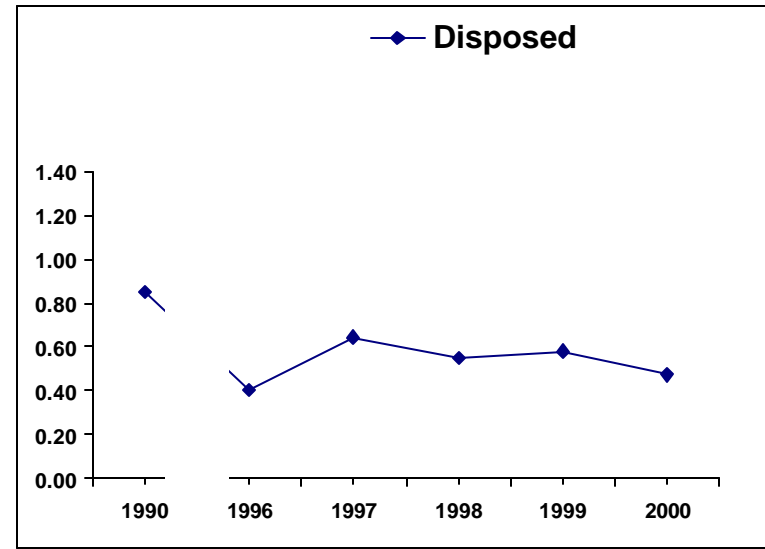
Date SWMP approved: December 22, 1995

Tonnes Per Capita Recycled and Disposed



Data status: Confirmed by Regional District

Tonnes Per Capita Disposed



Source of the Data: 1990 Grouping/Previous MSW Tracking reports

1996 Regional District

1997 Regional District

1998 Regional District

1999 Regional District

2000 Regional District

Note: 1. 1991-1995 data compiled using different methodology.

**Kootenay Boundary Regional District**

**Disposed Waste Breakdown by Facility Type**

Disposal Facility	Disposal Method (LF/IN/XP/TS)	Tipping Fees General Refuse (\$/N/NA)	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)			1999	2000
McKelvey Creek	LF	\$60/tonne	Y	Y	Y	N	Y	N	N	2060	800,000	13,136	10,274
Christina Lake	LF	\$9/cubic metre	Y	Y	N	N	N	N	N	2002	NA	485	369
Grand Forks	LF	\$60/tonne	Y	Y	Y	N	Y	N	N	2035	167,000	5,065	4,541
Greenwood	LF	\$9/cubic metre	Y	Y	N	N	N	N	N	2054	79,000	600 (EST.)	400 (EST.)
Rock Creek	LF	\$9/cubic metre	Y	Y	N	N	N	N	N	2003	NA	350 (EST.)	300 (EST.)
Beaverdell	LF	N	N	Y	N	N	N	N	N	2001	NA	250 (EST.)	250 (EST.)
<b>Total</b>												<b>19,886</b>	<b>16,134</b>

**Recycled Waste Breakdown**

Class	Sub-Class	2000 Total (tonnes)
Glass	Co-mingled	115.0
Metal	White Goods	
	Other	2680.0
Organic	Food	355.0
	Yard	3012.0
Paper	OCC	1096.0
	ONP	
	Fine	
	Mixed	827.0
Plastic	Co-mingled	
	Sorted	24.0
DLC	Wood	1113.0
	Gypsum	
	Concrete	
	Asphalt Shingles	
Other	See note	65.0
<b>TOTAL</b>		<b>9287.0</b>
<b>TOTAL RECYCLED PER CAPITA (tonnes)</b>		<b>0.273</b>

**Notes, Challenges and Disposal Programs of Significance**

Food number is an estimate of backyard composter diversion. The mixed paper number includes newspaper. Metal - Other includes white goods. Plastic is No. 2 natural only. Other is diversion through Reuse Centres at our landfills.

Mount Waddington Regional District

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

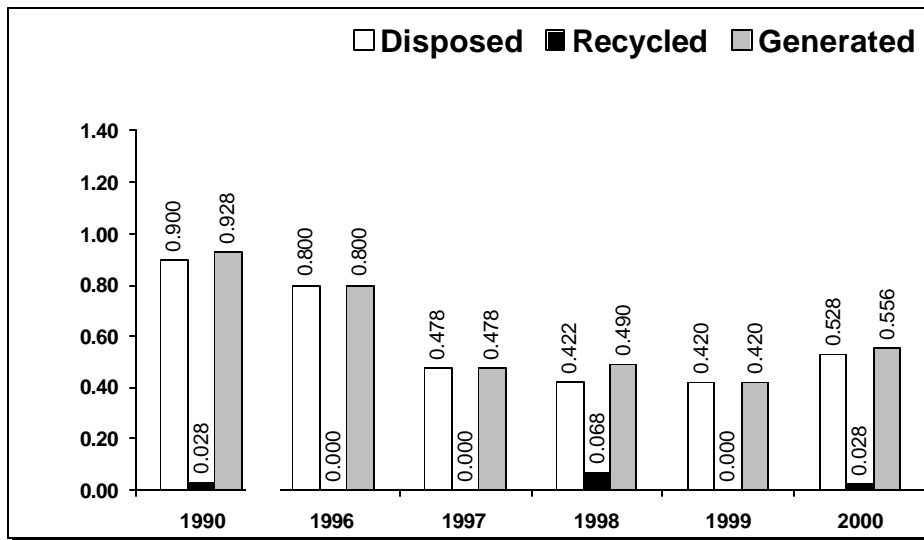
Year	Population	% change from prev yr	Total waste disposed (in tonnes)	% change from prev yr	Tonnes per capita disposed	% change from 1990	Total waste recycled (in tonnes)	% change from prev yr	Tonnes per capita recycled	% change from prev yr	Total waste generated (in tonnes)	% change from prev yr	Tonnes per capita generated	% change from prev yr
1990	14,086		12,677		0.900		400		0.028		13,077		0.928	
1996	13,896		11,117		0.800	-11	No data		No data		11,117		0.800	
1997	15,392	11	7,359	-34	0.478	-47	No data	-	No data	-	7,359	-34	0.478	-40
1998	15,000	-3	6,328	-14	0.422	-53	1,024	-	0.068	-	7,352	0	0.490	3
1999	14,601	-3	6,162	-3	0.420	-53	No data	-	No data	-	6,162	-16	0.420	-14
2000	15,058	3	7,952	29	0.528	-41	415	-	0.028	-	8,368	36	0.556	32

Approved solid waste management plan: Yes

SWMP State of implementation: 76-100%

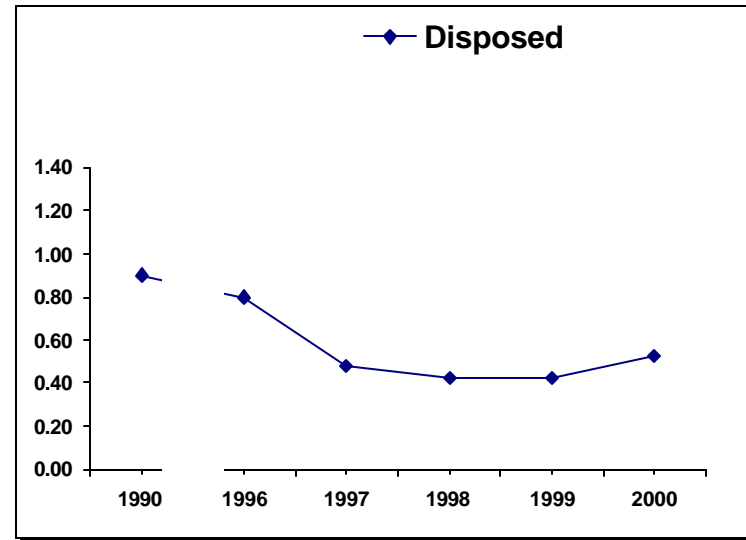
Date SWMP approved: July 22, 1996

Tonnes Per Capita Recycled and Disposed



Data status: Confirmed by Regional District

Tonnes Per Capita Disposed



Source of the Data: 1990 Grouping/Previous MSW Tracking reports  
 1996 Regional District  
 1997 Regional District  
 1998 Regional District  
 1999 1998 Per Capita Disposal Rate  
 2000 Regional District

Note: 1. 1991-1995 data compiled using different methodology.

**Mount Waddington Regional District**

Disposed Waste Breakdown by Facility Type													
Disposal Facility	Disposal Method (LF/IN/XP/TS)	Tipping Fees General Refuse (\$/N/NA)	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)			1999	2000
7 mile	LF	\$	Y	Y	Y	Y	Y			Under study	Under study	6,162	7,952
<b>Total</b>												<b>6,162</b>	<b>7,952</b>

Recycled Waste Breakdown		
Class	Sub-Class	2000 Total (tonnes)
Glass	Co-mingled	
Metal	White Goods	257.7
	Other	
Organic	Food	
	Yard	
Paper	OCC	66.1
	ONP	15.3
	Fine	
Plastic	Mixed	29.0
	Co-mingled	
	Sorted	4.8
DLC	Wood	
	Gypsum	
	Concrete	
	Asphalt Shingles	
Other	Specify	42.6
<b>TOTAL</b>		415.4
<b>TOTAL RECYCLED PER CAPITA (tonnes)</b>		0.028

**Notes, Challenges and Disposal Programs of Significance**

\*Increase in landfill tonnage due to closure of Canfor's landfill in Woss. Refuse from community now disposed of at the 7-Mile landfill.

Nanaimo Regional District

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

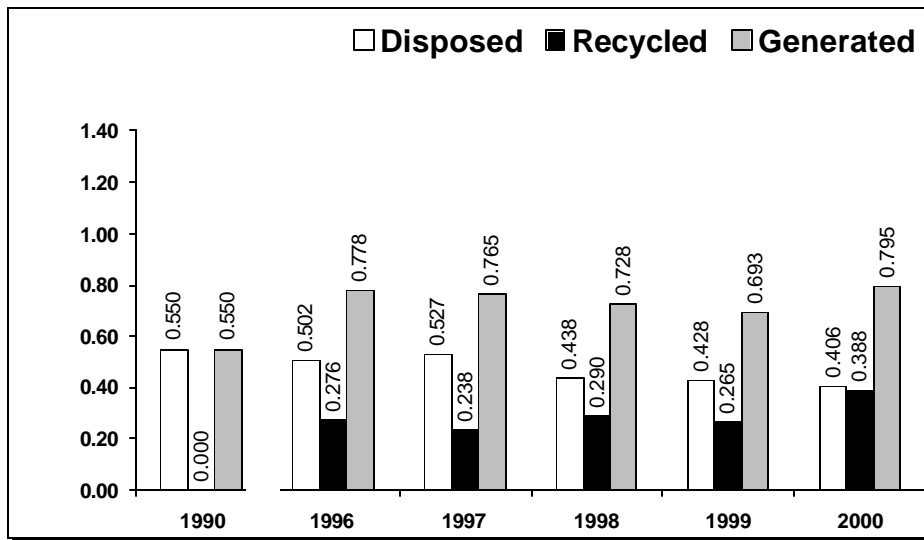
Year	Population	% change from prev yr	Total waste disposed (in tonnes)	% change from prev yr	Tonnes per capita disposed	% change from 1990	Total waste recycled (in tonnes)	% change from prev yr	Tonnes per capita recycled	% change from prev yr	Total waste generated (in tonnes)	% change from prev yr	Tonnes per capita generated	% change from prev yr
1990	91,879		50,533		0.550		0		0.000		50,533		0.550	
1996	125,000		62,788		0.502	-9	34,477		0.276		97,265		0.778	
1997	132,000	6	69,535	11	0.527	-4	31,386	-9	0.238	-14	100,921	4	0.765	-2
1998	132,442	0	58,058	-17	0.438	-20	38,362	22	0.290	22	96,420	-4	0.728	-5
1999	137,637	4	58,885	1	0.428	-22	36,526	-5	0.265	-8	95,411	-1	0.693	-5
2000	137,003	0	55,682	-5	0.406	-26	53,194	46	0.388	46	108,876	14	0.795	15

Approved solid waste management plan: Yes

SWMP State of implementation: 76-100%

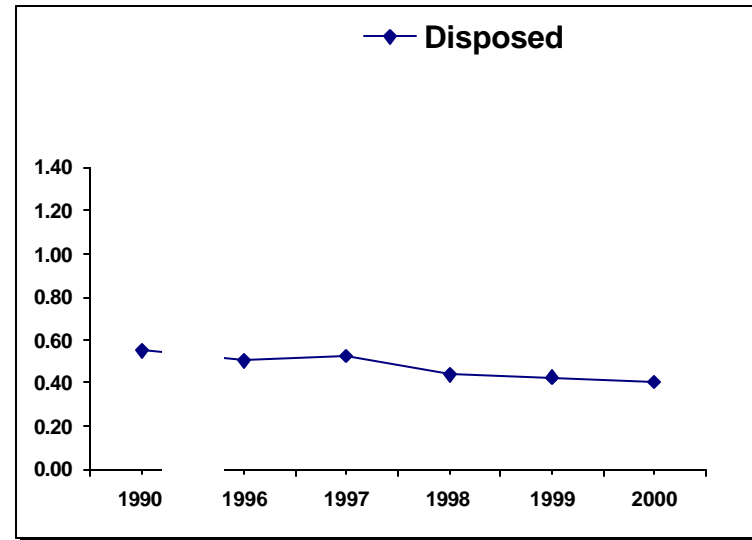
Date SWMP approved: April 9, 1997

Tonnes Per Capita Recycled and Disposed



Data status: Confirmed by Regional District

Tonnes Per Capita Disposed



Source of the Data: 1990 Grouping/Previous MSW Tracking reports  
 1996 Regional District  
 1997 Regional District  
 1998 Regional District  
 1999 Regional District  
 2000 Regional District

Note: 1. 1991-1995 data compiled using different methodology.

**Nanaimo Regional District**

**Disposed Waste Breakdown by Facility Type**

Disposal Facility	Disposal Method (LF/IN/XP/TS)	Tipping Fees General Refuse (\$/N/NA)	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)			1999	2000
Regional Landfill	LF	\$90/tonne	Y	Y	N	N	Y	Y	Y	2005	n/a	58,885	42,443
Transfer Station	XP	\$90/tonne	Y	Y	N	N	Y	n/a	n/a	n/a	n/a		13,239
<b>Total</b>												<b>58,885</b>	<b>55,682</b>

**Recycled Waste Breakdown**

Class	Sub-Class	2000 Total (tonnes)
<b>Glass</b>	Co-mingled	
<b>Metal</b>	White Goods	
	Other	
<b>Organic</b>	Food	6483.0
	Yard	
<b>Paper</b>	OCC	
	ONP	
	Fine	
	Mixed	
<b>Plastic</b>	Co-mingled	
	Sorted	
<b>DLC</b>	Wood	
	Gypsum	
	Concrete	
	Asphalt Shingles	
<b>Other</b>	Co-mingled Recyclables	46711.0
<b>TOTAL</b>		53194.0
<b>TOTAL RECYCLED PER CAPITA (tonnes)</b>		0.388

**Notes, Challenges and Disposal Programs of Significance**

Recycling data includes material moved through private sector facilities. The private sector recycling is significant in the region and the manner in which they provide data to the RDN does not allow for an accurate and detailed breakdown of the types of materials. It is for this reason that the Recycled Waste Breakdown could not be completed. The recycling breakdown by sector is as follows: Public - 13,458 tonnes, Private - 30,054 tonnes, Individual (backyard composting) - 6,483 tonnes.

North Okanagan Regional District

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

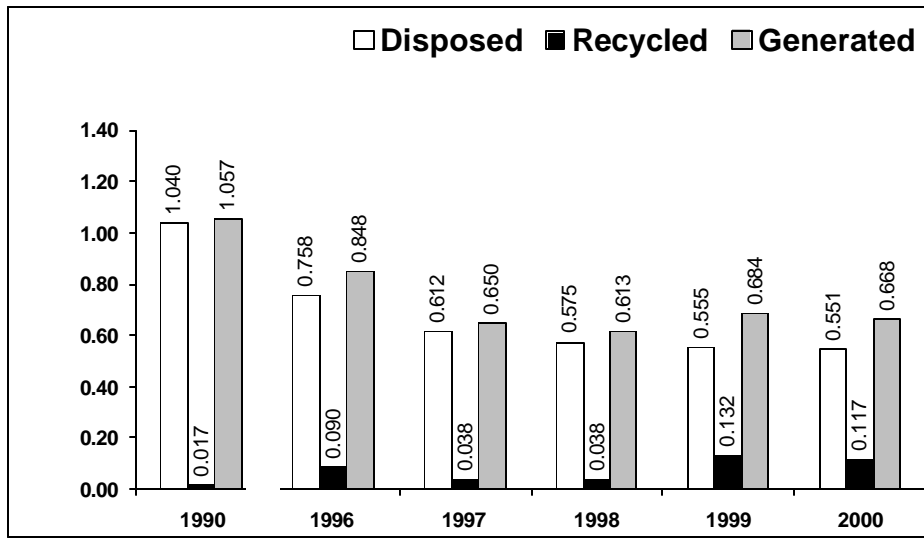
Year	Population	% change from prev yr	Total waste disposed (in tonnes)	% change from prev yr	Tonnes per capita disposed	% change from 1990	Total waste recycled (in tonnes)	% change from prev yr	Tonnes per capita recycled	% change from prev yr	Total waste generated (in tonnes)	% change from prev yr	Tonnes per capita generated	% change from prev yr
1990	57,611		59,915		1.040		954		0.017		60,869		1.057	
1996	73,266		55,541		0.758	-27	6,609		0.090		62,150		0.848	
1997	73,266	0	44,875	-19	0.612	-41	2,750	-58	0.038	-58	47,625	-23	0.650	-23
1998	75,240	3	43,272	-4	0.575	-45	2,844	3	0.038	1	46,116	-3	0.613	-6
1999	77,497	3	43,001	-1	0.555	-47	10,263	261	0.132	250	53,045	15	0.684	12
2000	79,047	2	43,542	1	0.551	-47	9,222	-10	0.117	-12	52,764	-1	0.668	-2

Approved solid waste management plan: Yes

SWMP State of implementation: 76-100%

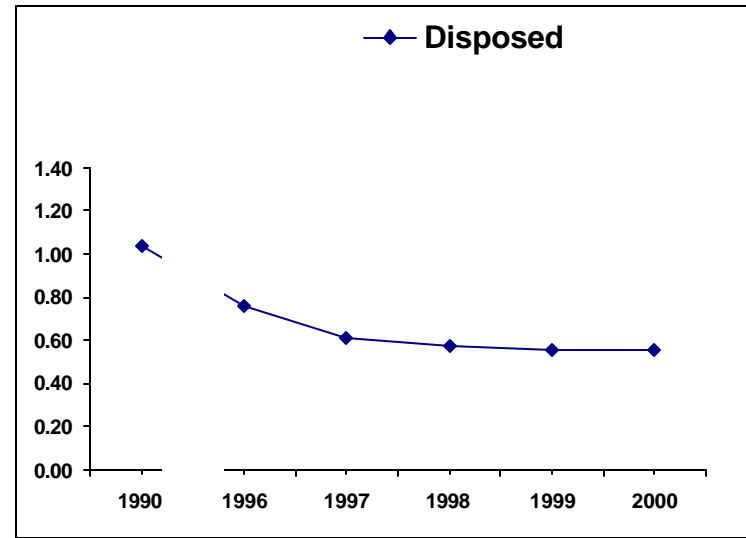
Date SWMP approved: December 22, 1995

Tonnes Per Capita Recycled and Disposed



Data status: Confirmed by Regional District

Tonnes Per Capita Disposed



Source of the Data: 1990 Grouping/Previous MSW Tracking reports  
 1996 Regional District  
 1997 Regional District  
 1998 Regional District  
 1999 Regional District  
 2000 Regional District



Northern Rockies Regional District

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

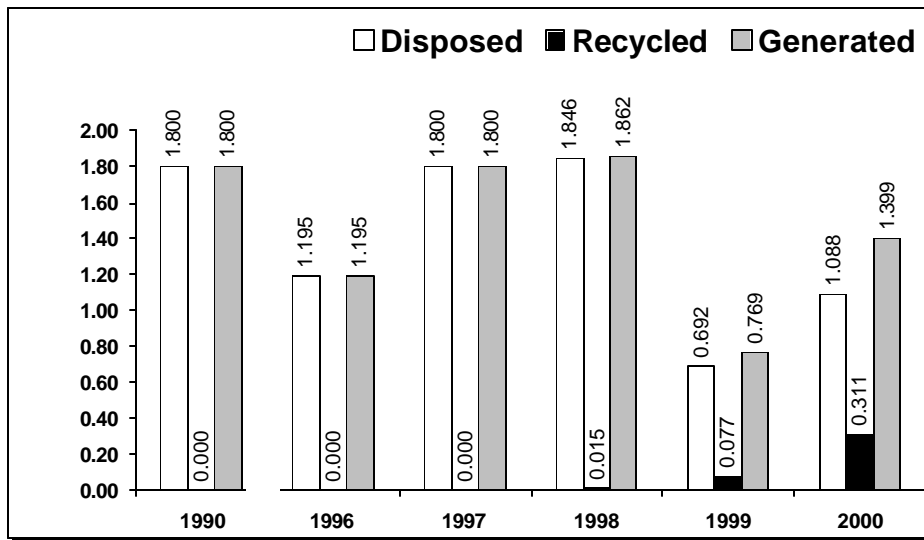
Year	Population	% change from prev yr	Total waste disposed (in tonnes)	% change from prev yr	Tonnes per capita disposed	% change from 1990	Total waste recycled (in tonnes)	% change from prev yr	Tonnes per capita recycled	% change from prev yr	Total waste generated (in tonnes)	% change from prev yr	Tonnes per capita generated	% change from prev yr
1990	4,565		8,217		1.800		0		0.000		8,217		1.800	
1996	5,856		7,000		1.195	-34	0		0.000		7,000		1.195	
1997	6,414	10	11,545	65	1.800	0	0	-	0.000	-	11,545	65	1.800	51
1998	6,500	1	12,000	4	1.846	3	100	-	0.015	-	12,100	5	1.862	3
1999	6,500	0	4,500	-63	0.692	-62	500	400	0.077	400	5,000	-59	0.769	-59
2000	6,434	-1	7,000	56	1.088	-40	2,000	300	0.311	304	9,000	80	1.399	82

Approved solid waste management plan: Yes

SWMP State of implementation: 76-100%

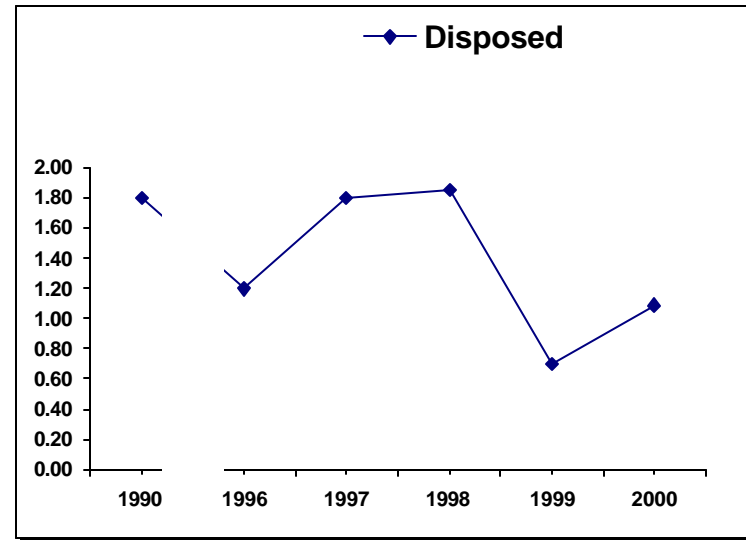
Date SWMP approved: June 17, 1996

Tonnes Per Capita Recycled and Disposed



Data status: Confirmed by Regional District

Tonnes Per Capita Disposed



Source of the Data: 1990 Grouping/Previous MSW Tracking reports  
 1996 Regional District  
 1997 Grouping/Previous MSW Tracking reports  
 1998 Regional District  
 1999 Regional District  
 2000 Regional District

Note: 1. 1991-1995 data compiled using different methodology.

**Northern Rockies Regional District**

**Disposed Waste Breakdown by Facility Type**

Disposal Facility	Disposal Method (LF/IN/XP/TS)	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)			1999	2000
NRRD	LF	\$	Y	Y	N	Y	Y	N	N/A	2001	N/A	4,500	7,000
<b>Total</b>												<b>4,500</b>	<b>7,000</b>

**Recycled Waste Breakdown**

Class	Sub-Class	2000 Total (tonnes)
Glass	Co-mingled	
Metal	White Goods	
	Other	1500.0
Organic	Food	
	Yard	
Paper	OCC	
	ONP	
	Fine	
	Mixed	500.0
Plastic	Co-mingled	
	Sorted	
DLC	Wood	
	Gypsum	
	Concrete	
	Asphalt Shingles	
Other	Specify	
<b>TOTAL</b>		2000.0
<b>TOTAL RECYCLED PER CAPITA (tonnes)</b>		0.311

**Notes, Challenges and Disposal Programs of Significance**

\* We will begin a landfill capping and closure process this fall. The site will be compacted to final grade and then 1 metre of clay on all areas topped with 100 mm of topsoil/compost with superseed. This process will take 5 years at 100k per year. We also have strategic water monitoring wells that will be read and analyzed for the next 25 years. 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 recent values.

Okanagan-Similkameen Regional District

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

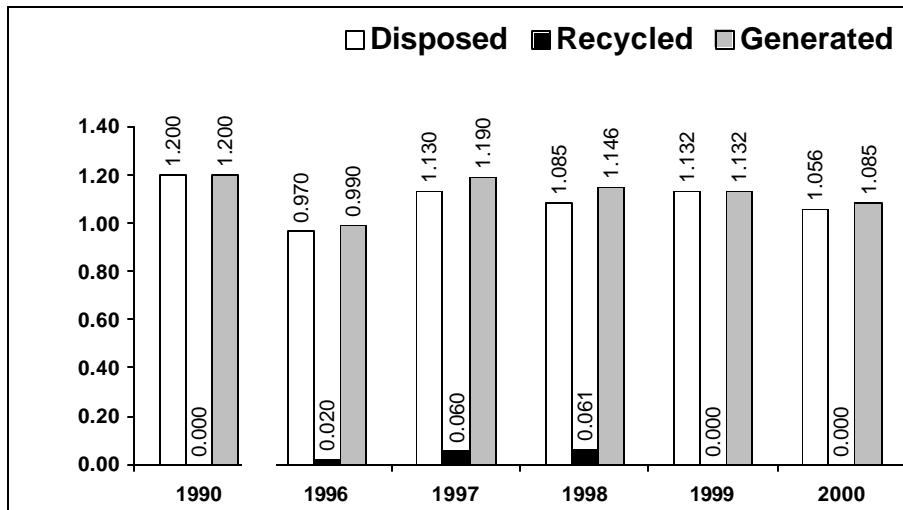
Year	Population	% change from prev yr	Total waste disposed (in tonnes)	% change from prev yr	Tonnes per capita disposed	% change from 1990	Total waste recycled (in tonnes)	% change from prev yr	Tonnes per capita recycled	% change from prev yr	Total waste generated (in tonnes)	% change from prev yr	Tonnes per capita generated	% change from prev yr
1990	66,239		79,487		1.200		0		0.000		79,487		1.200	
1996	75,900		73,623		0.970	-19	1,518		0.020		75,141		0.990	
1997	77,200	2	87,236	18	1.130	-6	4,632	205	0.060	200	91,868	22	1.190	20
1998	78,700	2	85,400	-2	1.085	-10	4,800	4	0.061	2	90,200	-2	1.146	-4
1999	79,100	1	89,574	5	1.132	-6	No data	-	No data	-	89,574	-1	1.132	-1
2000	80,448	2	84,921	-5	1.056	-12	No data	-	No data	-	87,286	-3	1.085	-4

Approved solid waste management plan: Yes

SWMP State of implementation: 51-75%

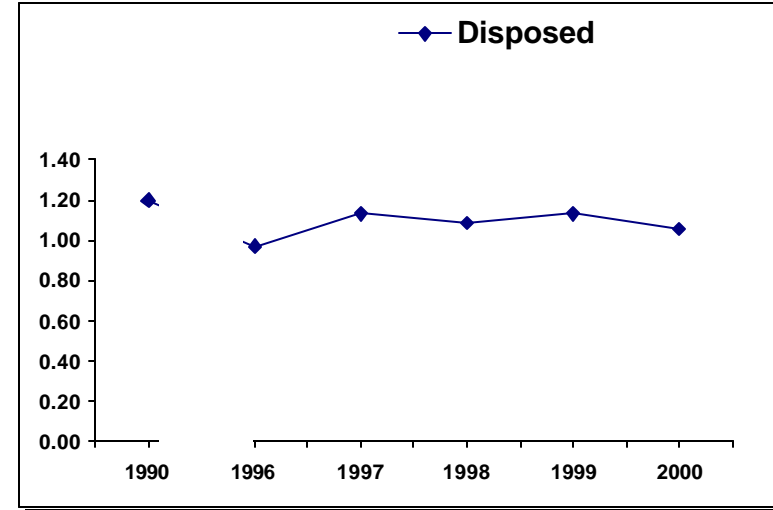
Date SWMP approved: March 29, 1996

Tonnes Per Capita Recycled and Disposed



Data status: See note on source of 2000 data

Tonnes Per Capita Disposed



Source of the Data: 1990

Grouping/Previous MSW Tracking reports

1996

Regional District

1997

Regional District

1998

Regional District

1999

Regional District

2000

Estimated Per Capita Disposal Rate

Note: 1. 1991-1995 data compiled using different methodology.

**Okanagan-Similkameen Regional District**

**Disposed Waste Breakdown by Facility Type**

Disposal Facility	Disposal Method (L/F/N/X/P/T/S)	Tipping Fees General Refuse (\$/N/NA)	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)			1999	2000
Keremeos	LF	based on \$30	Y	Y	N	N	N	N	N	2002		4,200	4,175
Campbell Mountain	LF	\$43	Y	Y	N	Y	Y	N	N	2050		37,130	32,386
Summerland	LF	\$30	Y	Y	Y	N	Y	N	N			31,600	31,560
Oliver	LF	\$45	Y	Y	N	N	Y	N	N	2040		5,457	5,700
Osoyoos	LF	\$45/tonne	Y	Y	N	N	Y	N	N	2020		3,987	3,975
Okanagan Falls	LF	based on \$30	Y	Y	N	N	N	N	N	2035		3,600	3,550
Princeton	LF	N/A	Y	Y	N	N	N	N	N	2050		3,600	3,575
<b>Total</b>												<b>89,574</b>	<b>84,921</b>

**Recycled Waste Breakdown**

Class	Sub-Class	2000 Total (tonnes)
Glass	Co-mingled	
	White Goods	
Metal	Other	
	Food	
Organic	Yard	
	OCC	
Paper	ONP	
	Fine	
	Mixed	
Plastic	Co-mingled	
	Sorted	
DLC	Wood	
	Gypsum	
	Concrete	
	Asphalt Shingles	
Other	Specify	
<b>TOTAL</b>		No Data
<b>TOTAL RECYCLED PER CAPITA (tonnes)</b>		No Data

**Notes, Challenges and Disposal Programs of Significance**

Disposal data for Keremeos, Summerland, Okanagan Falls, Osoyoos and Princeton landfills was unavailable at the time of publication. A breakdown of recycled waste was also not available. The missing data were estimated by calculating a disposal rate for 1999 and 2000 based on the last reported disposal value and population for each landfill, which was 1998 for Keremeos, Summerland, Okanagan Falls and Princeton, and 1999 for Osoyoos, and multiplying that rate by the 2000 population for each landfill to get the disposal figure of 2000 for each landfill.

Peace River Regional District

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

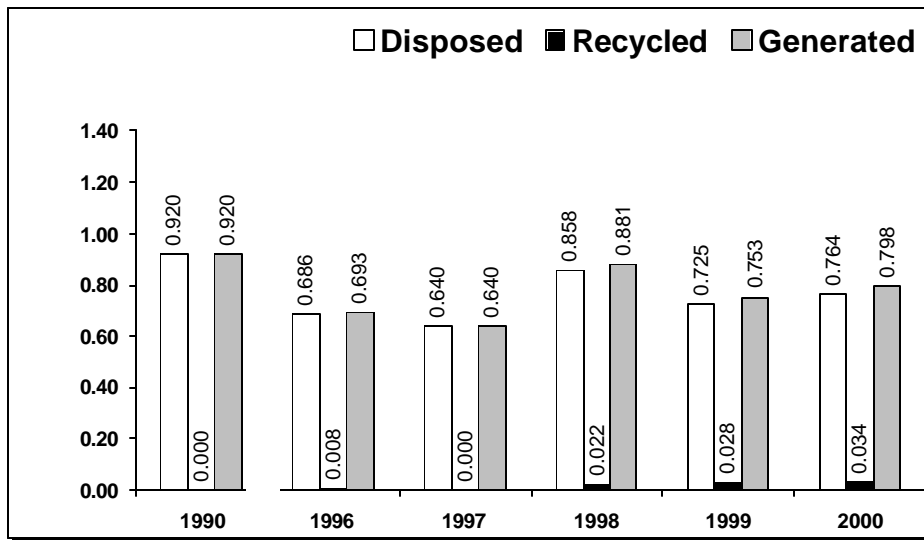
Year	Population	% change from prev yr	Total waste disposed (in tonnes)	% change from prev yr	Tonnes per capita disposed	% change from 1990	Total waste recycled (in tonnes)	% change from prev yr	Tonnes per capita recycled	% change from prev yr	Total waste generated (in tonnes)	% change from prev yr	Tonnes per capita generated	% change from prev yr
1990	50,083		46,076		0.920		0		0.000		46,076		0.920	
1996	55,545		38,090		0.686	-25	425		0.008		38,515		0.693	
1997	59,695	7	38,205	0	0.640	-30	No data	-	No data	-	38,205	-1	0.640	-8
1998	60,000	1	51,500	35	0.858	-7	1,341	-	0.022	-	52,841	38	0.881	38
1999	60,000	0	43,500	-16	0.725	-21	1,689	26	0.028	26	45,189	-14	0.753	-14
2000	57,726	-4	44,100	1	0.764	-17	1,947	15	0.034	20	46,047	2	0.798	6

Approved solid waste management plan: Yes

SWMP State of implementation: 76-100%

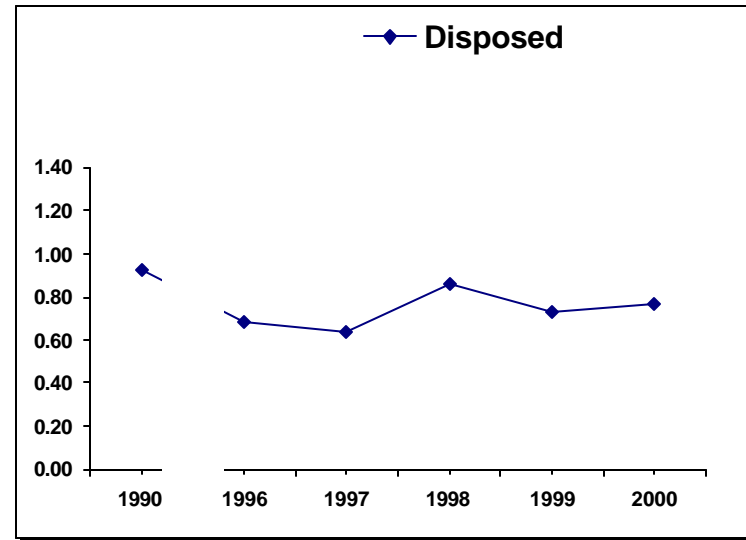
Date SWMP approved: June 25, 1996

Tonnes Per Capita Recycled and Disposed



Data status: Confirmed by Regional District

Tonnes Per Capita Disposed



Source of the Data: 1990 Grouping/Previous MSW Tracking reports  
 1996 Regional District  
 1997 Grouping/Previous MSW Tracking reports  
 1998 Regional District  
 1999 Regional District  
 2000 Regional District

Note: 1. 1991-1995 data compiled using different methodology.

**Peace River Regional District**

Disposed Waste Breakdown by Facility Type													
Disposal Facility	Disposal Method (L/F/N/XP/TS)	Tipping Fees General Refuse (\$/N/NA)	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)			1999	2000
Dawson Creek	LF	\$25/tonne	Y	Y	N	N	Y	N	N	2003	45,000	14,000	15,000
Fort St John	LF	\$25/tonne	Y	Y	N	N	Y	N	N	2012	380,000	22,000	22,000
Chetwynd	LF	\$25/tonne	Y	Y	N	Y	Y	N	N	2015	80,000	4,800	4,800
Bessborough	LF	\$25/tonne	Y	Y	N	Y	N	N	N	2020	20,000	600	600
Rose Prairie	LF	\$25/tonne	Y	Y	N	N	N	N	N	2050	40,000	600	800
Taylor	LF	\$25/tonne	Y	Y	N	N	N	N	N	N/A	6,500	900	900
Cecil Lake	Transfer Bins	\$25/tonne	Y	Y	N	N	N	N	N	N/A	N/A	400	
Mile 62.5	Transfer Bins	\$25/tonne	Y	Y	N	N	N	N	N	N/A	N/A		
Hudson's Hope	TS	\$25/tonne	Y	Y	N	N	N	N	N	N/A	N/A		
Moberly Lake	Transfer Bins	\$25/tonne	Y	Y	N	N	N	N	N	N/A	N/A		
<b>Total</b>												<b>43,500</b>	<b>44,100</b>

Recycled Waste Breakdown		
Class	Sub-Class	2000 Total (tonnes)
Glass	Co-mingled	60.0
Metal	White Goods	
	Other	20.0
Organic	Food	
	Yard	
Paper	OCC	787.0
	ONP	630.0
	Fine	125.0
	Mixed	273.0
Plastic	Co-mingled	30.0
	Sorted	22.0
DLC	Wood	
	Gypsum	
	Concrete	
	Asphalt Shingles	
Other	Specify	
<b>TOTAL</b>		1947.0
<b>TOTAL RECYCLED PER CAPITA (tonnes)</b>		0.034

Notes, Challenges and Disposal Programs of Significance

Powell River Regional District

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

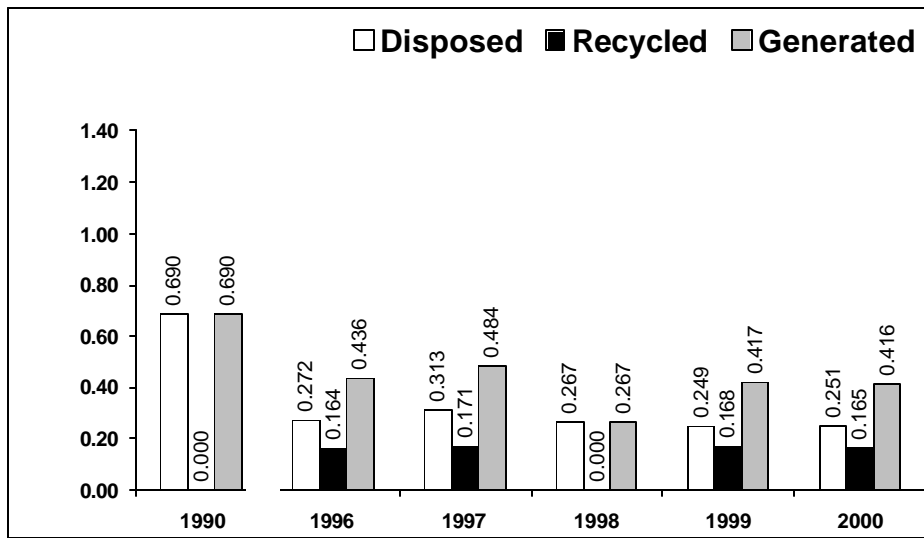
Year	Population	% change from prev yr	Total waste disposed (in tonnes)	% change from prev yr	Tonnes per capita disposed	% change from 1990	Total waste recycled (in tonnes)	% change from prev yr	Tonnes per capita recycled	% change from prev yr	Total waste generated (in tonnes)	% change from prev yr	Tonnes per capita generated	% change from prev yr
1990	18,728		12,922		0.690		0		0.000		12,922		0.690	
1996	20,603		5,610		0.272	-61	3,375		0.164		8,985		0.436	
1997	19,936	-3	6,242	11	0.313	-55	3,413	7	0.171	7	9,655	7	0.484	11
1998	21,124	6	5,645	-10	0.267	-61	No data	-	No data	-	5,645	-42	0.267	-45
1999	20,993	-1	5,229	-7	0.249	-64	3,531	-	0.168	-	8,760	55	0.417	56
2000	21,060	0	5,283	1	0.251	-64	3,482	-1	0.165	-2	8,765	0	0.416	0

Approved solid waste management plan: Yes

SWMP State of implementation: 76-100%

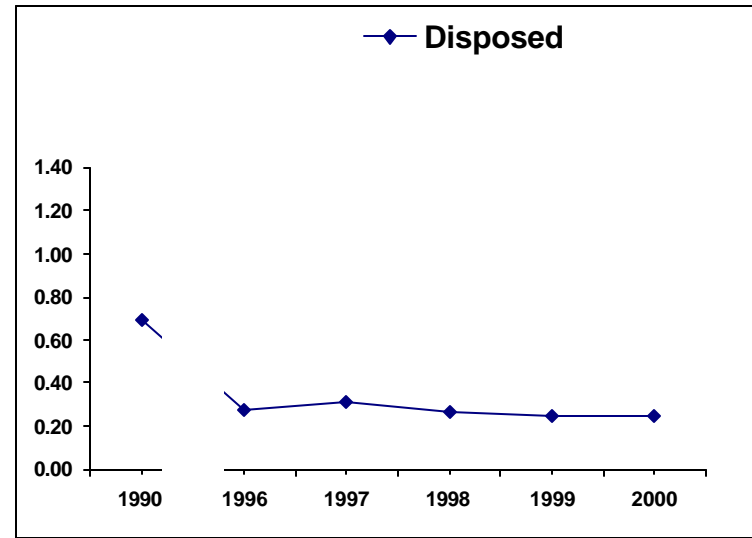
Date SWMP approved: August 22, 1996

Tonnes Per Capita Recycled and Disposed



Data status: Confirmed by Regional District

Tonnes Per Capita Disposed



Source of the Data: 1990 Grouping/Previous MSW Tracking reports  
 1996 Regional District  
 1997 Regional District  
 1998 Regional District  
 1999 Regional District  
 2000 Regional District

Note: 1. 1991-1995 data compiled using different methodology.

**Powell River Regional District**

Disposed Waste Breakdown by Facility Type													
Disposal Facility	Disposal Method (LF/IN/XP/TS)	Tipping Fees General Refuse (\$/N/NA)	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)			1999	2000
Transfer site	XP	\$150/T	Y	N	Y	N	Y	N/A	N/A	N/A	N/A	5,229	5,283
<b>Total</b>												<b>5,229</b>	<b>5,283</b>

Recycled Waste Breakdown		
Class	Sub-Class	2000 Total (tonnes)
Glass	Co-mingled	131.0
Metal	White Goods	~
	Other	689.0
Organic	Food	none
	Yard	1079.0
Paper	OCC	367.0
	ONP	259.0
	Fine	96.0
	Mixed	215.0
Plastic	Co-mingled	75.0
	Sorted	20.0
DLC	Wood	~
	Gypsum	163.0
	Concrete	383.0
	Asphalt Shingles	7.0
Other	Specify	
<b>TOTAL</b>		<b>3484.0</b>
<b>TOTAL RECYCLED PER CAPITA (tonnes)</b>		<b>0.165</b>

**Notes, Challenges and Disposal Programs of Significance**

Private collection accounted for 13.9% of total recycled waste (450 T / 7147.8 T total). Revisions to 1999 data: \* Original report stated 5430 T total waste disposed (exported). New figure is 5229 T. Discrepancy due to weight differences at shipping and receiving. Revised figures are for weights received and paid for at the export facility. \*\* Slight correction to total population figures - less 67 than in original report.

Skeena-Queen Charlotte Regional District

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

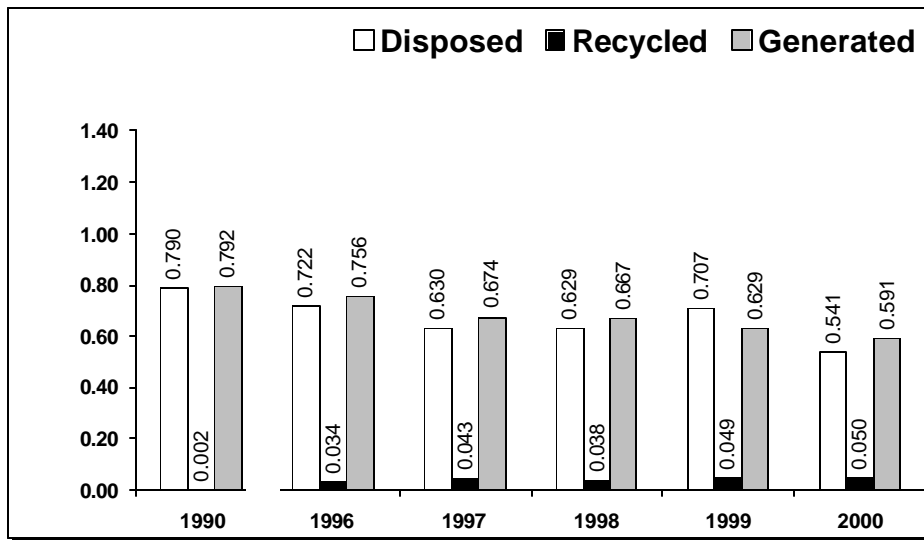
Year	Population	% change from prev yr	Total waste disposed (in tonnes)	% change from prev yr	Tonnes per capita disposed	% change from 1990	Total waste recycled (in tonnes)	% change from prev yr	Tonnes per capita recycled	% change from prev yr	Total waste generated (in tonnes)	% change from prev yr	Tonnes per capita generated	% change from prev yr
1990	22,700		17,933		0.790		36		0.002		17,969		0.792	
1996	23,121		16,685		0.722	-9	784		0.034		17,469		0.756	
1997	25,910	12	16,336	-2	0.630	-20	1,123	43	0.043	26	17,459	0	0.674	-11
1998	24,795	-4	15,606	-4	0.629	-20	936	-17	0.038	-12	16,542	-5	0.667	-1
1999	25,467	3	18,006	15	0.707	-11	1,238	32	0.049	29	19,244	16	0.629	-6
2000	25,514	0	13,800	-23	0.541	-32	1,269	3	0.050	2	15,069	-22	0.591	-6

Approved solid waste management plan: Yes

SWMP State of implementation: 26-50%

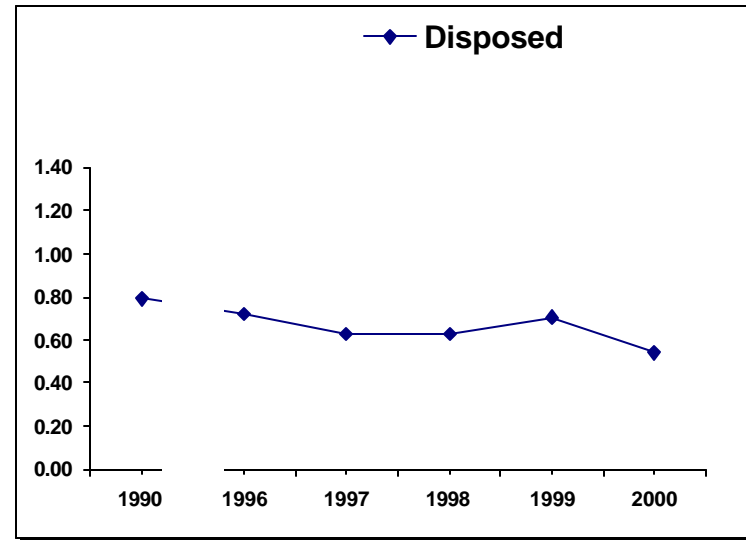
Date SWMP approved: December 22, 1995

Tonnes Per Capita Recycled and Disposed



Data status: Confirmed by Regional District

Tonnes Per Capita Disposed



Source of the Data: 1990 Grouping/Previous MSW Tracking reports  
 1996 Regional District  
 1997 Regional District  
 1998 Regional District  
 1999 Regional District (2000 revision)  
 2000 Regional District

Note: 1. 1991-1995 data compiled using different methodology.



Squamish-Lillooet Regional District

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

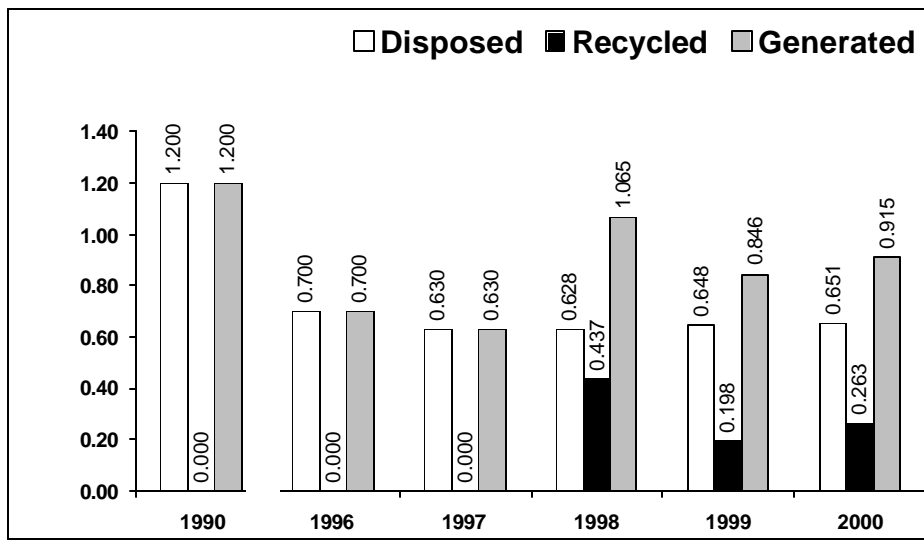
Year	Population	% change from prev yr	Total waste disposed (in tonnes)	% change from prev yr	Tonnes per capita disposed	% change from 1990	Total waste recycled (in tonnes)	% change from prev yr	Tonnes per capita recycled	% change from prev yr	Total waste generated (in tonnes)	% change from prev yr	Tonnes per capita generated	% change from prev yr
1990	32,437		38,924		1.200		0		0.000		38,924		1.200	
1996	40,478		28,335		0.700	-42	No data		No data		28,335		0.700	
1997	41,895	4	26,394	-7	0.630	-48	No data	-	No data	-	26,394	-7	0.630	-10
1998	42,714	2	26,845	2	0.628	-48	18,655	-	0.437	-	45,500	72	1.065	69
1999	45,165	6	29,255	9	0.648	-46	8,960	-52	0.198	-55	38,215	-16	0.846	-21
2000	45,523	1	29,655	1	0.651	-46	11,982	34	0.263	33	41,637	9	0.915	8

Approved solid waste management plan: Yes

SWMP State of implementation: 51-75%

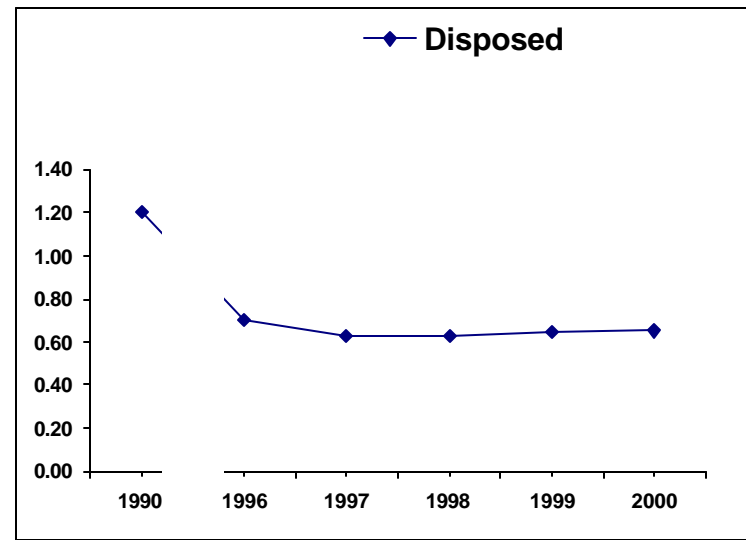
Date SWMP approved: May 8, 1997

Tonnes Per Capita Recycled and Disposed



Data status: Confirmed by Regional District

Tonnes Per Capita Disposed



Source of the Data: 1990 Grouping/Previous MSW Tracking reports  
 1996 Grouping/Previous MSW Tracking reports  
 1997 Grouping/Previous MSW Tracking reports  
 1998 Regional District  
 1999 Regional District  
 2000 Regional District

Note: 1. 1991-1995 data compiled using different methodology.

**Squamish-Lillooet Regional District**

Disposed Waste Breakdown by Facility Type													
Disposal Facility	Disposal Method (LF/IN/XP/TS)	Tipping Fees General Refuse (\$/N/NA)	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)			1999	2000
Squamish	LF	\$80/T	Y	Y	N	N	Y	N	N	2021*	561033**	9,786	9,445
Whistler	LF	\$76/T & \$116 /T	Y	Y	N	Y	Y	N	N	2008	326,217	16,009	18,433
Pemberton and Area	TS											1,239	
Area A	LF											127	
Lillooet	LF	\$65 & \$75/T	Y	Y	N	N	N	N	N	2050+	NA**	1,586	1,778
Area B	TS											180	
Area D	TS											328	
<b>Total</b>												<b>29,255</b>	<b>29,655</b>

Recycled Waste Breakdown		
Class	Sub-Class	2000 Total (tonnes)
Glass	Co-mingled	488.3
Metal	White Goods	123.4
	Other	1365.6
Organic	Food	
	Yard	35.0
Paper	OCC	2883.5
	ONP	530.2
	Fine	97.8
	Mixed	1856.3
Plastic	Co-mingled	159.9
	Sorted	71.9
DLC	Wood	1754.2
	Gypsum	822.6
	Concrete	
	Asphalt	1793.4
Other	Specify	
<b>TOTAL</b>		11982.1
<b>TOTAL RECYCLED PER CAPITA (tonnes)</b>		0.263

**Notes, Challenges and Disposal Programs of Significance**

SLRD population has been adjusted to account for Whistler filled bed units per season.  
 \*Pending approval.  
 \*\*Dependant on closure date.  
 Waste disposed at Area A and B facilities is accounted for in the tonnage for the Lillooet Landfill. Waste disposed at the Area C and Pemberton facilities is taken to the Whistler Landfill. Garbage from Area D is taken to the Squamish Landfill.

Sunshine Coast Regional District

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

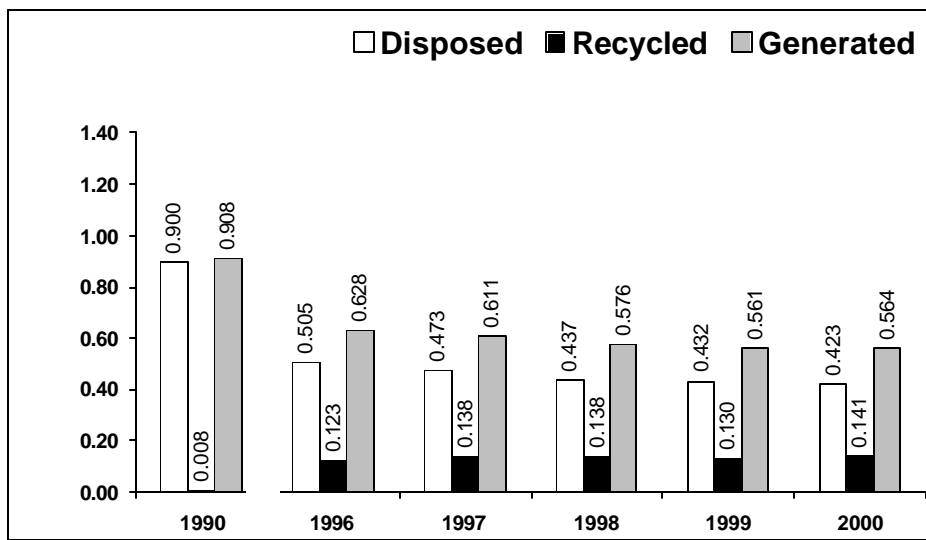
Year	Population	% change from prev yr	Total waste disposed (in tonnes)	% change from prev yr	Tonnes per capita disposed	% change from 1990	Total waste recycled (in tonnes)	% change from prev yr	Tonnes per capita recycled	% change from prev yr	Total waste generated (in tonnes)	% change from prev yr	Tonnes per capita generated	% change from prev yr
1990	19,119		17,207		0.900		162		0.008		17,369		0.908	
1996	25,833		13,054		0.505	-44	3,175		0.123		16,229		0.628	
1997	26,540	3	12,560	-4	0.473	-47	3,658	15	0.138	12	16,218	0	0.611	-3
1998	26,963	2	11,796	-6	0.437	-51	3,729	2	0.138	0	15,525	-4	0.576	-6
1999	27,244	1	11,765	0	0.432	-52	3,531	-5	0.130	-6	15,296	-1	0.561	-2
2000	27,438	1	11,611	-1	0.423	-53	3,877	10	0.141	9	15,488	1	0.564	1

Approved solid waste management plan: Yes

SWMP State of implementation: 51-75%

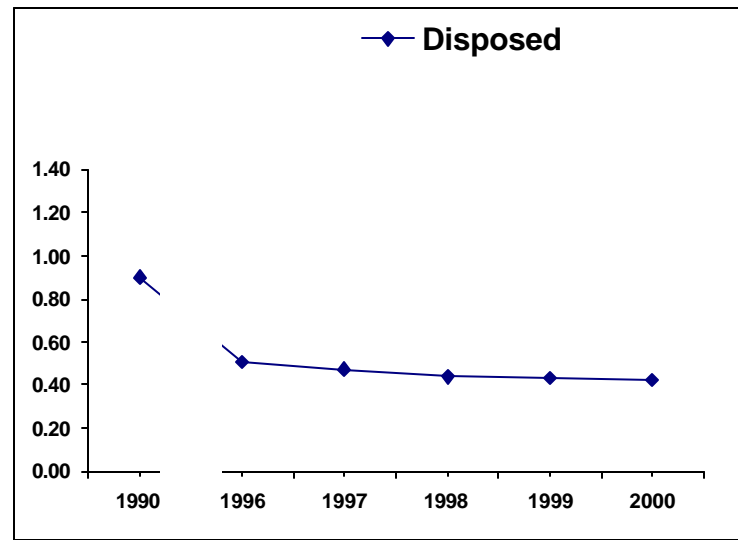
Date SWMP approved: June 14, 1996

Tonnes Per Capita Recycled and Disposed



Data status: Confirmed by Regional District

Tonnes Per Capita Disposed



Source of the Data: 1990 Grouping/Previous MSW Tracking reports  
 1996 Regional District  
 1997 Regional District  
 1998 Regional District  
 1999 Regional District  
 2000 Regional District

Note: 1. 1991-1995 data compiled using different methodology.



Thompson-Nicola Regional District

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

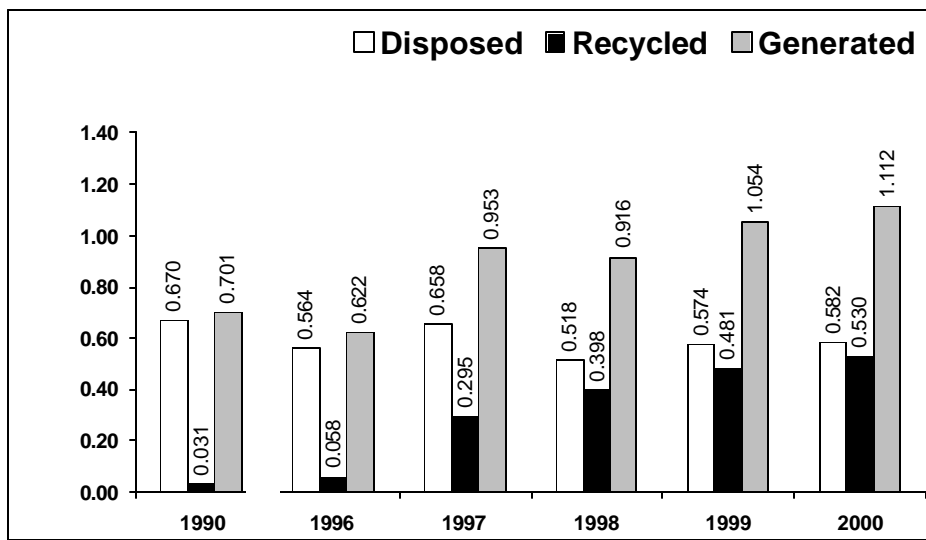
Year	Population	% change from prev yr	Total waste disposed (in tonnes)	% change from prev yr	Tonnes per capita disposed	% change from 1990	Total waste recycled (in tonnes)	% change from prev yr	Tonnes per capita recycled	% change from prev yr	Total waste generated (in tonnes)	% change from prev yr	Tonnes per capita generated	% change from prev yr
1990	104,386		69,939		0.670		3,285		0.031		73,224		0.701	
1996	124,725		70,295		0.564	-16	7,241		0.058		77,536		0.622	
1997	125,681	1	82,694	18	0.658	-2	37,137	413	0.295	409	119,831	55	0.953	53
1998	126,798	1	65,638	-21	0.518	-23	50,454	36	0.398	35	116,092	-3	0.916	-4
1999	128,298	1	73,623	12	0.574	-14	61,662	22	0.481	21	135,284	17	1.054	15
2000	130,192	1	75,747	3	0.582	-13	69,044	12	0.530	10	144,791	7	1.112	5

Approved solid waste management plan: Yes

SWMP State of implementation: 76-100%

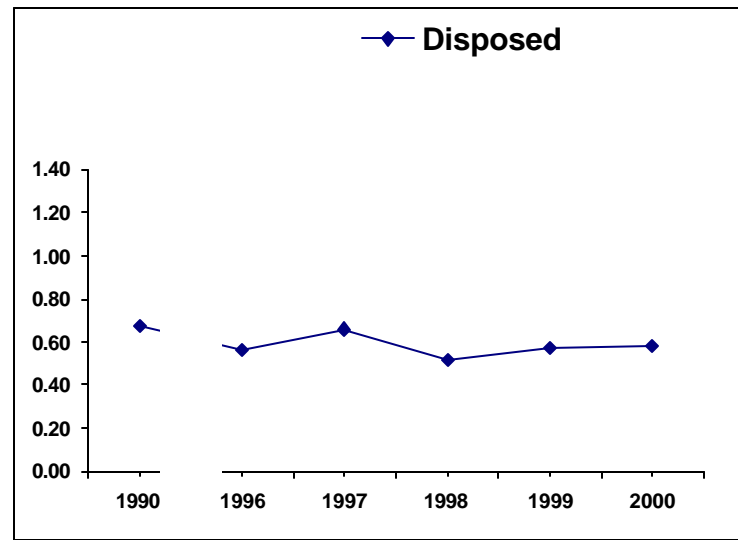
Date SWMP approved: December 21, 1995

Tonnes Per Capita Recycled and Disposed



Data status: Confirmed by Regional District

Tonnes Per Capita Disposed



Source of the Data: 1990 Grouping/Previous MSW Tracking reports  
 1996 Regional District  
 1997 Regional District  
 1998 Regional District  
 1999 Regional District  
 2000 Regional District

Note: 1. 1991-1995 data compiled using different methodology.





**Appendix A:**  
**REGIONAL SURVEY RESPONSES**

**Part A: Regional Survey Response Summary**

**Percentage of BC Population Serviced by Various Regional Recycling Programs, 1999-2000**

	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										
						Single Family Residential		Multi-family Residential		ICI						
						Private Service	Public Service	Private Service	Public Service	Private Service	Public Service	Waste Reduction Coordinator	Education Coordinator	Landfill Manager	Public Service	Private Service
<b>1999</b>	83.1	68.6	32.7	67.8	24.0	18.5	72.0	25.9	58.8	29.2	1.0	28.2	31.4	20.9	4.6	25.0
<b>2000</b>	79.5	61.1	29.3	68.6	55.3	10.0	79.2	26.7	63.1	34.3	0.9	71.7	24.5	39.2	20.5	42.0
	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								
<b>1999</b>	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
<b>2000</b>	1.0	1.0	54.9	76.7	1.0	0.0	39.0	45.3	38.6	65.4	70.6	23.2	79.6	69.5	15.8	30.7

\*Note: Alberni-Clayoquot, Cariboo, Central Coast, Kitimat-Stikine and Northern Rockies Regional Districts did not provide data for this section representing 8% of the provincial total population. The 1999 data does not include Central Coast, Cariboo, Kitimat-Stikine, Skeena-Queen Charlotte and Squamish Lillooet Regional districts representing 5% of the 1999 total provincial population.

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

In order to complete the picture of MSW management in BC, WLAP 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: Alberni-Clayoquot, Cariboo, Central Coast, Kitimat-Stikine, and Northern Rockies . 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 <http://www.bcstats.gov.bc.ca/data/pop/pop/estspop.htm>.

All of the percentages (including those in the above table) were calculated using the total survey population of 3,844,835, which represents 95% of the population of BC. Hereafter, percentages and ‘% of the population’ refer to the survey population, except where otherwise indicated.

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

Approximately 80% of the population is serviced by single-family residential curbside recycling, however 87% 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 (79%) with the 10% that are privately run being more common in rural areas.

The per cent of the population serviced by staffed recycling depots (61%) is just over twice the number using unstaffed depots (29%). The staffed depots are concentrated in the regional districts with higher population densities, however unstaffed depots are located throughout the province. Ten regional districts have both staffed and unstaffed depots.

Multi-family and ICI collection services are available intermittently throughout the province. 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 (65%), although if GVRD is not factored into this calculation the emphasis shifts to the private sector as the value drops to 30% (with the private sector servicing 68%). Furthermore, privately run multi-family collection services exist in more regional districts (10), than do public (8). The private sector is also responsible for 34% of the ICI recycling in the province (available in 14 regional districts), while the public sector is responsible for 1% (available in 3 regional districts).

### **User Pay Strategy**

The majority of the population (80%) 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 70% of the population is required to pay if they wish to dispose of more household waste. Sixteen regional districts representing 41% of the population have implemented user-pay programs other than can/bag limits or collection fees for additional pickup, including variable unit fee structure and backyard burning bans. Sixteen percent of the population is subject to a variable unit fee structure. This occurs across BC regardless of population density.

Thirty-one 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. Thirty-five 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 FVRD) and Cobble Hill (in CVRD) a curbside collection program and a depot for both food and yard waste are in place. These services are available to 14% of the population in FVRD, 6% of the population in CVRD and 1% of the total population. Yard waste services alone, on the other hand, are more readily available, with 55% of the total population having access to curbside services and 77% being able to drop their yard waste off at depots.

In terms of composting facilities, food waste composting is available in Mission and Cobble Hill, while yard waste can be composted in 13 regional districts. Of those 15 regional districts, 13 are operating public facilities and 7 also have private composting services.

Fourteen regional districts have compost demonstration gardens servicing 71% of the population.

In the past, 39% of the population could purchase a backyard composting unit from their regional district; in 2000, this number increased to 65%. 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 23% 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.

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

Twelve regional districts, representing 63% of the population, have multi-material processing facilities. Five of the facilities are operated publicly, while 12 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 72% of the population. Education coordinators can be found in 12 regional districts (25% of the population), while 15 regional districts have landfill managers (39% 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 Peace River Regional District 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** **No Data Returned**

**Bulkley-Nechako Regional District**

Municipality / E.A.	2000 Population	Residential Collection of Recyclables (other than compostables)							User Pay Strategy					
		SF Curbside (Y/N)	Depots Staffed (Y/N/n/a)	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
						SF	MF	ICI						
Fort St. James	5489	N	Y	N	N	N	N	N	N	N	N	N/A	2005	
Vanderhoof	8682	N	N/A	N	N	N	N	N	N	N	N	N/A	2005	
Ft. Fraser	406	N	N/A	N	N	N	N	N	N	N	N	N/A	2005	
Fraser Lake	3351	N	Y	N	N	N	N	N	N	N	N	N/A	2005	
Burns Lake	5187	N	Y	N	N	N	N	3	N	N	N	N/A	2005	
Southside	1986	N	N/A	N	N	N	N	N	N	N	N	N/A	2005	
Granisle	474	N	N/A	N	N	N	N	3	N	N	N	N/A	2005	
Knockholt	5418	N	Y	N	N	N	N	5	N	N	N	N/A	2005	
Smithers/Telkwa	13160	N	Y	N	N	PR	N	N	N	N	N	N/A	2005	
Manson Creek	51	N	N/A	N	N	N	N	N	N	N	N	N/A	N/A	

Municipality /E.A.	2000 Population	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							
Fort St. James	5489	N	N	Yd-PU	N	Y	N	N	23	N	N/A	Y	Y	Y
Vanderhoof	8682	N	N	Yd-PU	N	Y	N	N	17	N	N/A	Y	Y	Y
Ft. Fraser	406	N	N	N	N	N	N	N	25	N	N/A	Y	Y	Y
Fraser Lake	3351	N	N	Yd-PU	N	N	N	N	18	N	N/A	Y	Y	Y
Burns Lake	5187	N	N	Yd-PU	N	N	N	N	17	N	N/A	Y	Y	Y
Southside	1986	N	N	N	N	N	N	N	25	N	N/A	Y	Y	Y
Granisle	474	N	N	N	N	N	N	N	25	N	N/A	Y	Y	Y
Knockholt	5418	N	N	Yd-PU	N	N	N	N	13	N	N/A	Y	Y	Y
Smithers/Telkwa	13160	N	N	Yd-PU	N	Y	N	N	17	N	N/A	Y	Y	Y
Manson Creek	51	N	N	N	N	N	N	N	25	N	N/A	Y	Y	Y

<b>Disposal/ Recycling Measurement Challenges:</b> Only one weigh scale in Regional District, weight across Regional District assumed by population. Recycling not measured at all, in terms of tonnage. All recycling values assumed.	<b>Waste Composition Study:</b> Small scale study completed in 2000. Larger scale planned for 2001
<b>Landfill Disposal Bans and Tipping Fee structure:</b> Bans: Tires, oil and oil products, special wastes	<b>Wood Waste Diversion:</b> Wood chipping program to start in 2001
<b>Waste Reduction Goals and Challenges:</b> Cardboard is a major focus, as well as a challenge. Distance and population do not measure up to a logical, inexpensive program. Goal: to chip away at small recycling projects.	<b>Other:</b> Acceptance of appliances containing Ozone Depleting Substances Bylaw - 2001. Construction/demolition bylaw - 2001 includes tipping fees

**Capital Regional District**

Municipality / E.A.	2000 Population	Residential Collection of Recyclables (other than compostables)							User Pay Strategy					
		SF Curbside (Y/N)	Depots Staffed (Y/N/n/a)	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
						SF	MF	ICI						
District of Central Saanich	Call CRD Regional Planning Services for Data (250) 360-3160	YES	NO	Private	Private	CRD	Private	Private	N/A	N/A	N/A	Partial	N/A	N/A
City of Colwood		YES	NO	Private	Private	CRD	Private	Private	N/A	N/A	N/A	YES	N/A	N/A
Town of Esquimalt		YES	NO	Private	Private	CRD	Private	Private	1	YES	NO	YES	Jan-91	N/A
District of Highlands		YES	NO	Private	Private	CRD	Private	Private	N/A	N/A	N/A	Partial	N/A	N/A
District of Langford		YES	NO	Private	Private	CRD	Private	Private	N/A	N/A	N/A	Partial	N/A	N/A
District of Metchosin		YES	NO	Private	Private	CRD	Private	Private	N/A	N/A	N/A	Partial	N/A	N/A
District of North Saanich		YES	NO	Private	Private	CRD	Private	Private	N/A	N/A	N/A	Partial	N/A	N/A
District of Oak Bay		YES	NO	Private	Private	CRD	Private	Private	1	YES	NO	YES	Jan-91	N/A
District of Saanich		YES	NO	Private	Private	CRD	Private	Private	1	YES	NO	Partial	Jan-91	N/A
Town of Sidney		YES	NO	Private	Private	CRD	Private	Private	1	YES	NO	Partial	20 Plus Years	N/A
District of Sooke		YES	NO	Private	Private	CRD	Private	Private	N/A	N/A	N/A	Partial	N/A	N/A
City of Victoria		YES	NO	Private	Private	CRD	Private	Private	1	YES	NO	YES	Jan-91	N/A
Town of View Royal		YES	NO	Private	Private	CRD	Private	Private	1	YES	NO	Partial	Jan-00	N/A
Juan de Fuca E.A.		PARTIAL	PARTIAL	Private	Private	CRD	Private	Private	N/A	N/A	N/A	NO	N/A	N/A
Salt Spring Island E.A.		NO	YES	Private	Private	Non-profit group	Private	Private	N/A	N/A	N/A	NO	N/A	N/A
Outer Gulf Islands E.A.		NO	YES	Private	Private	Non-profit group(s)	Private	Private	N/A	N/A	N/A	NO	N/A	N/A

BC Municipal Solid Waste Tracking Report 2000

Capital Regional District cont'd

Municipality /E.A.	2000 Population	Composting Programs and Facilities							Compost Demo Garden (Y/N)	Estimated Percent of Population with backyard composters	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)		Y/N			PU/PR	Waste Reduction Coordinator	Education Coordinator	Landfill Manager	
		Curbside	Depot	Yd	Fd	In past	On-going								
District of Central Saanich	Call CRD Regional Planning Services for Data (250) 360 3160	NO	NO	Private	NO	1992 & 93	NO	One Demo Garden to Serve the Whole Region	50% to 75% regional average.	YES	Private	N/A	N/A	N/A	
City of Colwood		NO	NO	NO	NO	1992 & 93	NO			NO	N/A	N/A	N/A	N/A	
Town of Esquimalt		NO	YES	NO	NO	1992 & 93	NO			NO	N/A	N/A	N/A	N/A	
District of Highlands		NO	NO	NO	NO	1992 & 93	NO			NO	N/A	N/A	N/A	N/A	
District of Langford		NO	NO	NO	NO	1992 & 93	NO			NO	N/A	N/A	N/A	N/A	
District of Metchosin		NO	NO	NO	NO	1992 & 93	NO			NO	N/A	N/A	N/A	N/A	
District of North Saanich		NO	NO	NO	NO	1992 & 93	NO			NO	N/A	N/A	N/A	N/A	
District of Oak Bay		NO	YES	NO	NO	1992 & 93	NO			NO	N/A	N/A	N/A	N/A	
District of Saanich		NO	YES	CRD Facility	NO	1992 & 93	NO			NO	N/A	N/A	N/A	N/A	
Town of Sidney		NO	NO	NO	NO	1992 & 93	NO			NO	N/A	N/A	N/A	N/A	
District of Sooke		NO	NO	NO	NO	1992 & 93	NO			NO	N/A	N/A	N/A	N/A	
City of Victoria		NO	YES	NO	NO	1992 & 93	NO			YES	Private	N/A	N/A	N/A	
Town of View Royal		NO	NO	NO	NO	1992 & 93	NO			NO	N/A	N/A	N/A	N/A	
Juan de Fuca E.A.		NO	NO	NO	NO	1992 & 93	NO			NO	N/A	N/A	N/A	N/A	
Salt Spring Island E.A.		NO	NO	NO	NO	1992 & 93	NO			NO	N/A	N/A	N/A	N/A	
Outer Gulf Islands		NO	NO	NO	NO	1992 & 93	NO			NO	N/A	N/A	N/A	N/A	

Cariboo Regional District

**No Data Returned**

Central Coast Regional District

**No Data Returned**

Central Kootenay Regional District

Municipality / E.A.	2000 Pop	Residential Collection of Recyclables (other than compostables)							User Pay Strategy					
		SF Curbside (Y/N)	Depots Staffed (Y/N/n/a)	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
						SF	MF	ICI						
A-Wyndel/E. Shore-Kootenay Lake	2,200	N	N	N	N	N/A	N/A	PR	NA	PR	Y	N	Mar-97	NA
B	5,150	N	N	N	N	N/A	N/A	PR	NA	PR	Y	N	Mar-97	NA
C	1,550	N	N	N	N	N/A	N/A	PR	NA	N/A	Y	N	Mar-97	NA
D	2,550	N	N	N	N	N/A	N/A	N/A	NA	N/A	Y	N	Mar-97	NA
E	3,730	PR	N	PR	PR	PR	PR	PR	NA	PR	Y	N	Mar-97	NA
F	4,050	PR	N	PR	PR	PR	PR	PU/PR	NA	PR	Y	N	Mar-97	NA
G	1,650	N	N	N	N	N/A	N/A	N/A	NA	N/A	Y	N	Mar-97	NA
H - Slocan Valley	4,685	N	N	N	PR	N/A	N/A	PR	NA	PR	Y	N	Mar-97	NA
I	2,635	PR	N	PR	PR	N/A	N/A	PR	NA	PR	Y	N	Mar-97	NA
J-Lower Arrow/Columbia	3,700	PR	N	PR	PR	N/A	N/A	PR	NA	PR	Y	N	Mar-97	NA
K-The Arrow Lakes	2,100	N	N	N	N	N/A	N/A	N/A	NA	N/A	Y	N	Mar-97	NA
Castlegar	7,380	PR	Y/N	PR	PR	PR	PR	PR	2	\$5/6TAG	Y	N	Mar-97	NA
Creston	5,060	N	Y/N	N	PR	PR	PR	PR	2	\$2/TAG	Y	N	Mar-97	NA
Kaslo	1,120	N	N	N	PR	N/A	PR	PR	0	\$2/TAG	Y	N	Mar-97	NA
Nakusp	1,825	N	N	N	PR	N/A	N/A	PR	0	5BAG=\$11.5	Y	N	Mar-97	NA
Nelson	10,070	PR	Y/N	PR	PR	PR	PR	PU	1	\$2/TAG	Y	N	Mar-97	NA
New Denver	610	N	N	N	PR	N/A	N/A	PR	2	\$2/TAG	Y	N	Mar-97	NA
Salmo	1,265	PR	N	PR	PR	N/A	PR	PR	2	\$2/TAG	Y	N	Mar-97	NA
Silverton	255	N	N	N	PR	N/A	N/A	NA	1	\$1/TAG	Y	N	Mar-97	NA
Slocan	355	N	N	N	N	N/A	N/A	N/A	2	\$2/TAG	Y	N	Mar-97	NA

BC Municipal Solid Waste Tracking Report 2000

Central Kootenay Regional District cont'd

Municipality /E.A.	2000 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-Wynndel/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  look after all areas of 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			

**Disposal/ Recycling Measurement Challenges:**  
 Only one waste disposal site has a scales. All other waste from transfer stations must be estimated. Until all waste disposal sites have scales, a true disposal weight will be unknown.

Central Okanagan Regional District

Municipality / E.A.	2000 Population	Residential Collection of Recyclables (other than compostables)								User Pay Strategy				
		SF Curbside (Y/N)	Depots Staffed (Y/N/n/a)	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
						SF	MF	ICI						
City of Kelowna	99406	Y	Y	N	N	PU	PR	PR	N	Y-garbage only	Y-garbage only	Y	1975	N/A
RDCO - Westside	33397	Y	Y	N	N	PU	PR	PR	N	Y-garbage only	Y-garbage only	Y	1994	N/A
RDCO - Electoral Area I	4089	Y	n/a	N	N	PU	PR	PR	N	Y-garbage only	Y-garbage only	Y	2001	N/A
District of Lake Country	10063	Y	n/a	N	N	PU	PR	PR	N	Y-garbage only	Y-garbage only	Y	N/A	N/A
District of Peachland	5018	Y	n/a	Y	Y	PU	PU	PU	N	Y-garbage only	Y-garbage only	Y	unknown	N/A
		Composting Programs and Facilities								Multi-material Processing Facility		Waste Reduction Staff (Y/N)		
Municipality / E.A.	2000 Population	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							
Kelowna	99406	Y-Yd	Y-Yd	Y-PR	N	Y	N	Y	50%	Y	PR	Y	Y	Y
RDCO - Westside	33397	Y-Yd	Y-Yd	Y-PR	N	Y	N	N	50%	N	N/A	Y	Y	Y
RDCO - Area I	4089	Y-Yd	N	N	N	Y	N	N	50%	N	N/A	Y	Y	Y
District of Lake	10063	Y-Yd	N	Y-PR	N	Y	N	N	50%	N	N/A	Y	Y	Y
District of Peachland	5018	Y-Yd	Y-Yd	N	N	Y	N	N	50%	N	N/A	Y	Y	Y
<b>Disposal/ Recycling Measurement Challenges:</b> This year we are only tracking waste and recycling tonnages and efforts by municipal forces. Does not include those of the private/commercial sector.								<b>Wood Waste Diversion:</b> Completed a Wood Residue Survey in 2000.						
<b>Landfill Disposal Bans and Tipping Fee structure:</b> Newspaper and cardboard are banned materials and must be recycled. Loads containing these materials are subject to fines. Asphalt and concrete are banned materials. Higher fees for loads containing these materials. Basic Charges: Minimum \$6 charge for loads up to 250 kg. Loads over 250 kg are charged at \$50 per MT pro-rated. Special fees are charged for mattresses, box springs, tires, propane tanks, white goods and appliances, sod and garden waste over 1/2" in diameter. Yard waste under 1/2" in diameter, including grass, leaves and prunings can be dropped off free-of-charge year-round.														
<b>Waste Reduction Goals and Challenges:</b> Plastics: limited local opportunities to recycle any household plastics other than #2 cloudy plastics (HDPE). ICI: launching a new business recycling program. Aim to have 100 businesses on the program within a year. Multi-family residences: this sector is being handled by private companies. A few local companies are actively pursuing the avenue. The challenge is that some facilities see recycling as too costly. Public: Continue public education, especially in partnership with other environmental educators (City of Kelowna, RDCO Parks, WaterSmart). Also working on enhancing the composting education program based on falling attendance and on research done on targeting various audiences for environmental topics.														

**Columbia Shuswap Regional District**

		Residential Collection of Recyclables (other than compostables)							User Pay Strategy					
Municipality / E.A.	2000 Population	SF Residential Curbside (Y/N)	Depots Staffed (Y/N/n/a)	MF (Y/N)	ICI (Y/N)	Collection Agency (PU/PR)			Can/Bag Limits (number if applicable)	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
						SF	MF	ICI						
Columbia Shuswap	52973	N	N	N	N									
		Composting Programs and Facilities							Multi-material Processing Facility			Waste Reduction Staff (Y/N)		
Municipality /E.A.	2000 Population	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							
Columbia Shuswap	52973	N	N			Y	N							
<b>Landfill Disposal Bans and Tipping Fee structure:</b>														
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 in place.														

**Comox-Strathcona Regional District**

		Residential Collection of Recyclables (other than compostables)							User Pay Strategy					
Municipality / E.A.	2000 Population	SF Curbside (Y/N)	Depots Staffed (Y/N/n/a)	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
						SF	MF	ICI						
Courtenay	19803	Y	N	Y		PR	PR		2	Y	N			
<b>Disposal/ Recycling Measurement Challenges:</b>								<b>Waste Reduction Goals and Challenges:</b>						
Problems in getting private sector to give information but we didn't include private sector information this year.								We are looking at taking more plastics in 2002 and at increasing the number of unstaffed drop-off recycling depots. The 5 year recycling collection contract ends in the fall of 2002.						
<b>Landfill Disposal Bans and Tipping Fee structure:</b>														
RDC-S has variable tipping fees in place - with no change from previous years ie \$45 tonne for the following: mixed commercial and residential waste, yard waste, construction and demolition - excluding asbestos, tires no rims max 4/day.														

**Cowichan Valley Regional District**

Municipality / E.A.	2000 Population	Residential Collection of Recyclables (other than compostables)								User Pay Strategy				
		SF Curbside (Y/N)	Depots Staffed (Y/N/n/a)	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
						SF	MF	ICI						
City of Duncan	4,765	Y	N	N	Y	PU	PU	PU	2 cans/wk	Y	Y	Y	May-99	N/A
District of North	27,610	Y	Y	N	Y	PU	PR	PR	2cans/2wks	Y	Y	Y	Aug-99	N/A
Town of Ladysmith	6,960	Y	N	N	Y	PU	PR	PR	2cans/2wks	Y	Y	Y	Jan-00	N/A
Town of Lake Cowichan	3,085	Y	N	N	Y	PU	PU	PU	2cans/2wks	Y	Y	N	Sep-00	N/A
A Mill Bay/Malahat	3,590	Y	N	N	Y	PU	PR	PR	tickets	Y	Y	N	Aug-99	N/A
B Shawnigan Lake	7,415	Y	N	N	Y	PU	PR	PR	tickets	Y	Y	N	Aug-99	N/A
C Cobble Hill	4,690	N	N	N	Y	PR	PR	PR	tickets	Y	Y	N	N/A	N/A
D Cowichan Bay	2,865	Y	N	N	Y	PU	PR	PR	2cans/2wks	Y	Y	N	Jul-99	N/A
E Cowichan Station /	4,065	Y	N	N	Y	PU	PR	PR	2cans/2wks	Y	Y	N	Jul-99	N/A
F Cowichan Lake	1,895	Y	N	N	Y	PU	PR	PR	2cans/2wks	Y	Y	N	Jul-99	N/A
G Saltair / Gulf Islands	2,545	Y	Y	N	Y	PU	PR	PR	2cans/2wks	Y	Y	N	Jul-99	N/A
H North Oyster / Diamond	2,485	Y	N	N	Y	PU	PR	PR	tickets	Y	Y	N	Jul-99	N/A
I Youbou / Meade Creek	1,445	Y	Y	N	Y	PU	PR	PR	2cans/2wks	Y	Y	N	Aug-99	N/A
Indian Reserves	3,405	N	N	N	Y	PU	PR	PR	unlimited	N	N	N	N/A	N/A

Municipality /E.A.	2000 Population	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							
City of Duncan	4,765	N	Y-YD	Y-PU	N	Y	N	N	1.1	N		Y-CVRD	N	N/A
District of North	27,610	N	N	N	N	Y	N	N	6.5	N		Y-CVRD	Y	N/A
Town of Ladysmith	6,960	N	Y-YD	Y-PU	N	Y	N	N	1.6	N		Y-CVRD	N	N/A
Town of Lake Cowichan	3,085	N	N	N	N	Y	N	N	0.7	N		Y-CVRD	N	N/A
A Mill Bay/Malahat	3,590	N	N	N	N	Y	N	N	0.9	N		Y-CVRD	N	N/A
B Shawnigan Lake	7,415	N	N	N	N	Y	N	N	1.7	N		Y-CVRD	N	N/A
C Cobble Hill	4,690	Y-YD,FD	Y-YD,FD	Y-PR	Y-PR	Y	N	N	1.1	N		Y-CVRD	N	N/A
D Cowichan Bay	2,865	N	N	N	N	Y	N	N	0.7	N		Y-CVRD	N	N/A
E Cowichan Station /	4,065	N	Y-YD	N	N	Y	N	N	1	N		Y-CVRD	N	N/A
F Cowichan Lake	1,895	N	N	N	N	Y	N	N	0.5	N		Y-CVRD	N	N/A
G Saltair / Gulf Islands	2,545	N	Y-YD	N	N	Y	N	N	0.6	N		Y-CVRD	N	N/A
H North Oyster / Diamond	2,485	N	N	N	N	Y	N	N	0.6	N		Y-CVRD	N	N/A
I Youbou / Meade Creek	1,445	N	Y-YD	N	N	Y	N	N	0.3	N		Y-CVRD	N	N/A
Indian Reserves	3,405	N		N	N	Y	N	N	0.8	Y/N	PR	N	N	N/A

East Kootenay Regional District

Municipality / E.A.	2000 Population	Residential Collection of Recyclables (other than compostables)							User Pay Strategy					
		SF Curbside (Y/N)	Depots Staffed (Y/N/n/a)	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
						SF	MF	ICI						
E.A. - A	1811	N		N	N				N/A	N/A	N	SEASONAL	N/A	N/A
E.A. - B	1840	N		N	N				N/A	N/A	N	SEASONAL	N/A	N/A
E.A. - C	5977	N		N	N				N/A	N/A	N	SEASONAL	N/A	N/A
E.A. - E	1949	N		N	N				N/A	N/A	N	SEASONAL	N/A	N/A
E.A. - F	3398	N		N	N				N/A	N/A	N	SEASONAL	N/A	N/A
E.A. - G	1521	N		N	N				N/A	N/A	N	SEASONAL	N/A	N/A
CRANBROOK	18327	Y	Y	N	N	PR			N/A	N/A	Y	SEASONAL	Aug-00	
KIMBERLEY	6738	Y	Y	N	N	PR			3can/5bag	NO	Y	SEASONAL	Aug-00	
FERNIE	4877	Y		N	N	PU			3 bags	Y (\$1)	Y	SEASONAL	1999	
SPARWOOD	3982	N		N	N				2 bags	Y (\$1)	N	SEASONAL	2001	
ELKFORD	2729	N		N	N				3 bags	NO	N	SEASONAL	2001	
INVERMERE	2687	Y		N	N	PR			3 bags	Y (\$0.50)	Y	SEASONAL	1995	
RADIUM	530	N		N	N				N/A	N/A	Y	SEASONAL	1995	
Municipality /E.A.	2000 Population	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							
E.A. - A	1811	N	N	N		Y	Y	N	40	N		N	Y	
E.A. - B	1840	N	N	N		Y	Y	N	40	N		N	Y	
E.A. - C	5977	N	N	Y-PU		Y	Y	N	40	N		N	Y	
E.A. - E	1949	N	N	N		Y	Y	N	40	N		N	Y	
E.A. - F	3398	N	N	N		Y	Y	N	40	N		N	Y	
E.A. - G	1521	N	N	N		Y	Y	N	40	N		N	Y	
CRANBROOK	18327	N	Y-yd	Y-PU		Y	Y	N	20	Y	PU/PR	N	Y	
KIMBERLEY	6738	N	Y-yd	Y-PU		Y	Y	N	20	Y	PR	N	Y	
FERNIE	4877	N	Y-yd	Y-PU		N	N	N	10	Y	PR	N	Y	
SPARWOOD	3982	N	Y-yd	Y-PU		Y	Y	N	20	Y	PR	N	Y	
ELKFORD	2729	N	Y-yd	Y-PU		Y	Y	N	10	N		N	Y	
INVERMERE	2687	N	Y-yd	Y-PU		Y	Y	N	20	Y	PU/PR	N	Y	
RADIUM	530	N	Y-yd	Y-PU		Y	Y	N	20	N		N	Y	

East Kootenay Regional District Cont'd

<p>It is impossible to get an accurate assessment of the amount of material being recycled because of the private sector totals. The cost of recycling continues to present a challenge as well.</p>	<p>We have previously conducted a waste minimization report in the Elk Valley Subregion and utilize provincial statistics on an ongoing basis.</p>
<p><b>Landfill Disposal Bans and Tipping Fee structure:</b>                  In 2000, User Fee Schedules came into effect at the Cranbrook and Kimberley Transfer Stations, and Central Subregion Landfill. User fees have been in effect for over five years at the Windermere Landfill. Under the User Fee Schedule, there is a minimum \$5 fee for loads containing chargeable materials. There is no charge for regular household garbage. 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.</p>	<p><b>Wood Waste Diversion:</b>                  We have wood waste piles at our 3 rural transfer station sites with marshalling areas, at the Cranbrook and Kimberley Transfer Stations, Central Subregion Landfill and Windermere Landfill. 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 Landfill and Windermere Landfill site. In addition, we are continuing to look at the feasibility of utilizing a co-generation plant recently completed in our region as an option for dealing with clean wood waste.</p>
<p><b>Waste Reduction Goals and Challenges:</b>                  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 our recycling program and waste diversion. She has been doing a range of different public ed activities including advertising, writing columns in community newspapers, doing presentations to community groups and service clubs and working with the schools.</p>	<p><b>Other:</b>                  In our area, we have a significant seasonal population that is not accounted for in our population statistics. This presents a problem in terms of evaluating the amount of waste generated per capita as there is a large portion of the population unaccounted for. In addition, 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.</p>

Fraser-Fort George Regional District

		Residential Collection of Recyclables (other than compostables)							User Pay Strategy					
Municipality / E.A.	2000 Population	SF Curbside (Y/N)	Depots Staffed (Y/N/ n/a)	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
						SF	MF	ICI						
Prince George	n/a		N					PR	4	N	Y	N	1995	
Mackenzie	n/a		N					PR	4	N	Y	N	1998	
McBride	n/a		N					PR	4	N	Y	N	1998	
Valemount	n/a		N					PR	4	N	Y	N	1998	
		Composting Programs and Facilities							Multi-material Processing Facility			Waste Reduction Staff (Y/N)		
Municipality /E.A.	2000 Population	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							
Prince George				Y-PU		Y		Y		Y	PR			
Mackenzie				Y-PU		Y								
McBride						Y								
Valemount				Y-PU		Y								
<b>Disposal/ Recycling Measurement Challenges:</b> - lack of diversion information data from stewardship programs and provincial tire and battery programs - private recycling programs								<b>Waste Composition Study:</b> - none planned						
<b>Landfill Disposal Bans and Tipping Fee structure:</b> - no change since last year								<b>Wood Waste Diversion:</b> - none planned						
<b>Waste Reduction Goals and Challenges:</b> Challenges include: - lack of provincial funding - transportation distances and associated costs - economies of scale due to low population densities - lack of alternate waste reduction services from private sector														

BC Municipal Solid Waste Tracking Report 2000

Fraser Valley Regional District

Municipality / E.A.	2000 Population	Residential Collection of Recyclables (other than compostables)							User Pay Strategy					
		SF Curbside (Y/N)	Depots Staffed (Y/N/n/a)	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
						SF	MF	ICI						
E.A - A	880	N	N/A	N	N	PR	PR	PR	HD	HD	HD	N		Note: HD refers to hauler dependant limits or prices
E.A - B	1,367	Y	N	Y	Y	PR - Contract	PR - Contract	PR - Contract	2	Y	Y	N	1991	
E.A - C	1,710	N	Y	N	N	PR	PR	PR	HD	HD	HD	N		
E.A - D	4,740	N	N/A	N	N	PR	PR	PR	HD	HD	HD	N		
E.A - E		N	N/A	N	N	PR	PR	PR	HD	HD	HD	N		
E.A - F	3,690	N	Y	N	N	PR	PR	PR	HD	HD	HD	N		
E.A - G		N	N/A	N	N	PR	PR	PR	HD	HD	HD	N		
E.A - H		356	N	N/A	N	N	PR	PR	PR	HD	HD	HD	N	
ABBOTSFORD	117,006	Y	Y	Y	N - Private	PU/PR	PU/PR	PR	2	Y	N	Y	1994	
CHILLIWACK	66,853	N	Y - Private	N	N - Private	PR	PR	PR	HD	HD	HD	Y	1993	
DIST. OF MISSION	32,931	Y	Y	N	N - Private	PU	PU	PR	2	Y	Y	Y		
DIST. OF HOPE	6,825	Y	Y	Y	Y	PR - Contract	PR - Contract	PR - Contract	2	Y	Y	Y	1991	
DIST. OF KENT	5,300	N	Y	N	N - Private	PR	PR	PR	HD	HD	HD	Y		
HARRISON HOT SPRINGS	1,350	Y	N - Comm.	N	N - Private	PU	PR	PR	2	Y	N	Y		

Municipality / E.A.	2000 Population	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			
E.A. - A	880	N	N/A	N	N	Y	Y	In progress in 2000 for entire FVRD	20%	N		One full-time staff person at the Regional District	Y - Landfill Society	
E.A. - B	1,367	Y - Yd	Y - Yd	N	N	Y	Y		20%	N			N/A	
E.A. - C	1,710	N	Y - Yd	N	N	Y	Y		20%	N			N/A	
E.A. - D	4,740	N	N/A	N	N	Y	Y		20%	N			N/A	
E.A. - E		N	N/A	N	N	Y	Y		20%	N			N/A	
E.A. - F	3,690	N	Y - Yd	N	N	Y	Y		20%	N			N/A	
E.A. - G		N	N/A	N	N	Y	Y		20%	N			N/A	
E.A. - H		356	N	N/A	N	N	Y		Y	20%	N			N/A
ABBOTSFORD	117,006	N	Y - Yd	Y - PU	N	Y	Y	37%	Y	PU/PR	Same person	N		
CHILLIWACK	66,853	N	Y - Yd	Y - PR	N	Y	N	5 - 10%	Y	PR	Same person			
DIST. OF MISSION	32,931	Y - Yd/Fd	Y - Yd/Fd	Y - PR	Y - PR	Y	N	Y	25%	Y	PU/PR	Same person	Y	
DIST. OF HOPE	6,825	Y - Yd	N	Y-PU	N	Y	Y	see above	33%	Y	PR	Y - Dir. Dev.	N - contract	Y - Dir. Dev.
DIST. OF KENT	5,300	N	Y-Yd	N	N	Y	Y		20%	Y	PR	N	N	N/A
HARRISON HOT SPRINGS	1,350	N	N	N	N	Y	Y		50%	N		N	N	N/A

Fraser Valley Regional District Con't

<p><b>Disposal/ Recycling Measurement Challenges:</b>                  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. <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 Strategy and Toolkit. DLC Sector- Facilities needed to provide alternatives to Native landfills. Tipping fee covered by Electoral Area A by tax requisition. Fees for waste received outside of E.A A based on bag/truck size and/or type of waste (white goods, scrap metal, tires, etc.)</p>	<p><b>Wood Waste Diversion:</b>                  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.</p>
<p><b>Waste Reduction Goals and Challenges:</b>  <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.</p>	<p><b>Other:</b>                  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.</p>
<p><b>Landfill Disposal Bans and Tipping Fee structure:</b>                  Please see each municipality w/landfills. Chaumox Road Landfill bans: hazardous waste, waste oil, tires, white goods, scrap metal, construction waste w/&gt;15% gypsum.</p>	<p><b>Waste Composition Study:</b>                  Studies were completed pre-FVRD amalgamation</p>
<p><b>Abbotsford</b></p>	
<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>  <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>                  (All materials 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 flammable 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>                  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>                  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>	

# BC Municipal Solid Waste Tracking Report 2000

## Fraser Valley Regional District Cont'd

### 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> 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> 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>

### Hope

<p><b>Disposal and Recycling Measurement Challenges:</b> 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> 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> 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> 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> 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>	

### Mission

<p><b>Disposal/Recycling Measurement Challenges:</b> ICI Sector -- 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> Waste statistics/poll planned for residential units in the new year.</p>
<p><b>Landfill Disposal Bans and Tipping Fee Structure:</b> 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> 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> Major challenges are ICI sector, specifically plastics and mixed paper.</p>	<p><b>Other:</b> Bylaw change or economic incentives required for ICI sector to actively participate in recycling.</p>

BC Municipal Solid Waste Tracking Report 2000

Greater Vancouver Regional District

Municipality / E.A.	2000 Population	Residential Collection of Recyclables (other than compostables)							User Pay Strategy					
		SF Curbside (Y/N)	Depots Staffed (Y/N/n/a)	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
						SF	MF	ICI						
Anmore	1306	N		N										
Belcarra	712	N	?	N										
Bowen Island	3167	N	Y	N	Y-Depot									
Burnaby	192389	Y	Y	Y-100%	Y	PU	PU		3	N			Jan. 1, 1997	
Coquitlam	112278	Y	Y/N	Y-100%	N	PU	PU		2	\$2.00/bag			Apr. 1, 1993	
Delta	101433	Y	Y	Y-100%	Y	PU	PU		2	\$15.00/12 tags			1994	
Electoral Area A/UBC	8227	N	N	Y-90%	Y-Schools		PU							
Langley City	24278	Y	N	Y	Y-Depot & schools	PU	PU		2	\$10.00/10 tags			Sep. 9, 1994	
Langley Township	89351	Y	Y	Y-100%	Y-Depot	PU	PU		2	\$1.00/bag			Apr. 1, 1994	
Lions Bay	1498	Y		N		PU			3					
Maple Ridge	63138	Y	Y	Y-100%	Y	PU	PU							
New Westminster	54904	Y	Y	PILOT	Y	PU	PU		2	\$1.50/bag			Jan. 1996	
North Shore*	173205	Y	Y	Y-100%	Y-Depot	PU	PU		2 or 3	\$2.00/bag			Apr. 1, 1998	
Pitt Meadows	14850	Y		Y-90%		PU	PU		1	\$1.50/bag			Aug. 1993	
P. Coquitlam	51423	Y		Y-100%		PU	PU		3					
Port Moody	23819	Y		Y-100%	Y	PU	PU		2	\$1.00/bag			Feb. 1, 1993	
Richmond	165133	Y	Y	Y-100%	Y-Depot	PU	PU		2	\$2.00/bag			Apr. 1, 1996	
Surrey	340094	Y		Y-90.6%		PU	PU		2	\$1.00/bag			Jul. 1, 1998	
Vancouver	565,905	Y	Y	Y-100%	Y-Depot	PU	PU		2	\$7.50/5tags			Feb. 1999	
White Rock	17,371	Y	N	Y-83%	Y	PU	PU		2	\$3.00/tag			May 1, 1989	

BC Municipal Solid Waste Tracking Report 2000

Greater Vancouver Regional District Cont'd

*includes City of West Vancouver, City of North Vancouver and District of North Vancouver		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			Waste Reduction Coordinator	Education Coordinator	Landfill Manager
		Curbside	Depot	Yd	Fd	In past	On-going			Y/N	PU/PR			
Anmore	1306													
Belcarra	712													
Bowen Island	3167													
Burnaby	192389	Y-Yd	Y-Yd	Y-PR			Y	Y						
Coquitlam	112278	PR-Yd	Y-Yd	Y-PR			Y		Y	PR	Y			
Delta	101433	Y-Yd	Y-Yd	Y-PU			Y	Y	Y	PR	Y			
Electroal Area A/UBC	8227										Y			
Langley City	24278		Y-Yd	Y-PU										
Langley Township	89351	Y-Yd	Y-Yd	Y-PU			Y	Y						
Lions Bay	1498						Y							
Maple Ridge	63138		Y-Yd	Y-PR			Y	Y	Y	PR				
New Westminster	54904	Y-Yd	Y-Yd	PU/PR										
North Shore	173205	Y-Yd	Y-Yd	Y-PR			Y	2	Y	PR				
Pitt Meadows	14850		Y-Yd	Y-PR			Y							
P. Coquitlam	51423		Y-Yd	PU/PR			Y							
Port Moody	23819	Y-Yd		Y-PU										
Richmond	165133	Y-Yd	Y-Yd	PU/PR			Y	Y			Y			
Surrey	340094	Y-Yd	Y-Yd	Y-PR			Y	2	Y	PR				
Vancouver	565,905	Y-Yd	Y-Yd	Y-PU			Y	Y	Y	PU			Y	
White Rock	17,371	Y-Yd					Y	N						

Kitimat-Stikine Regional District

No data returned

**Kootenay Boundary Regional District**

		Residential Collection of Recyclables (other than compostables)							User Pay Strategy					
Municipality / E.A.	2000 Population	SF Curbside (Y/N)	Depots Staffed (Y/N/n/a)	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
						SF	MF	ICI						
RDKB	34,156		N	N	N	N	N	N	NA					
FRUITVALE	2153	Y	N						SEE NOTE	N	N	N	1997	
MONTROSE	1169	N	N						SEE NOTE	N	N	N	1999	
TRAIL	7626	N	Y						2	\$0.75	N	N	1999	
WARFIELD	1800	Y	N/A						2	\$2	N	N		
ROSSLAND	3859	N	N						SEE NOTE	N	N	N	1998	
GRAND FORKS	4320	N	Y						2	\$1	N	Y		
GREENWOOD	761	N	N						SEE NOTE	N	N	N	1996	
MIDWAY	686	N	N						SEE NOTE	N	N	N	1998	
		Composting Programs and Facilities							Multi-material Processing Facility		Waste Reduction Staff (Y/N)			
Municipality /E.A.	2000 Population	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							
RDKB	34,156	N	Y-YD	Y	N	Y	Y	N	20	Y	PU owned	Y	N	Y
				PU owned							PR oper.			
				PR oper.										
<b>Disposal/ Recycling Measurement Challenges:</b> Same as last year: Waste disposed at small rural landfills is still estimated. No scales are in place or planned.								<b>Waste Composition Study:</b> No.						
<b>Landfill Disposal Bans and Tipping Fee structure:</b> In addition to the bans already in place (see last year) we will be implementing bans on glass, tin and No. 2 natural and yard and garden material effective September 1, 2001. Tipping fees remain the same as in 1999.								<b>Wood Waste Diversion:</b> Same as last year: 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>Waste Reduction Goals and Challenges:</b> Expect the goal to become Zero Waste before the end of 2001.								<b>Other:</b> Same as last year: 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 marked 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.						

**Mount Waddington Regional District**

		Residential Collection of Recyclables (other than compostables)							User Pay Strategy					
Municipality / E.A.	2000 Population	SF Curbside (Y/N)	Depots Staffed (Y/N/n/a)	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
						SF	MF	ICI						
Mount Waddington	15058	N	Y	N		Y	N	PR	N/A	N/A	Y	N	N/A	N/A
		Composting Programs and Facilities								Multi-material Processing Facility		Waste Reduction Staff (Y/N)		
Municipality /E.A.	2000 Population	Food and/or Yard Waste		Composting		Backyard Composter		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							
Mount Waddington	15058	N	Y	N	N	Y	Y	N	Unknown	N		N	N	Y
<b>Landfill Disposal Bans and Tipping Fee structure:</b> Municipal solid waste disposal is funded by tax requisition. Liquid wastes and hazardous wastes are banned. Tipping fees: Controlled Waste \$20-250/tonne, Recyclable materials not in system \$2-10/each and \$32.50/tonne, Mixed waste \$120/tonne, Apparatus containing CFCs \$15 per unit, Carcasses \$30/tonne.								<b>Wood Waste Diversion:</b> Construction waste including dimensional lumber is diverted to the on-site salvage program for re-use in the community.						
<b>Other:</b> Compost fish waste and septic sludge at 7-Mile Landfill. Paint and Product Care Depots at the 7-Mile operate very successfully														

Nanaimo Regional District

Municipality / E.A.	2000 Population	Residential Collection of Recyclables (other than compostables)							User Pay Strategy					
		SF Curbside (Y/N)	Depots Staffed (Y/N/n/a)	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
						SF	MF	ICI						
Regional District (includes all member municipalities - RDN collection program serves approx. 55,000)	134929	Y	Y	N	N	PU	PR(partial PU)	PR	1	Y	Y	Partial	1990	
City of Parksville (curbside garbage and recyclable collection done by RDN)	10,280	Y	n/a	N	N	PU	PR(partial PU)	PR	1	Y	Y	Y	1990	
Town of Qualicum Beach (curbside recyclables done by RDN garbage done by town)	7,135	Y	n/a	Y	Y	PU	PU	PU	1	Y	Y	Y	1990	
Lantzville Improvement District (curbside recyclables done by RDN garbage done by LID)	2900	Y	n/a	N	N	PU	PR	PR	1	Y	Y	Partial	1990	
		Composting Programs and Facilities							Multi-material Processing Facility		Waste Reduction Staff (Y/N)			
Municipality /E.A.	2000 Population	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							
Regional District	134,929	N	Y-Yd	PR	N		Y (region wide)	Y	58.8% compost, of those 34% use composter distributed by RDN (region wide)	Y	PR	Y	N	Y
City of Parksville	10,280	Y-Yd	Partial Yd	PR	N			Y		N		N	N	N
Town of Qualicum	7,135	Y-Yd	Partial Yd	N	N					N		N	N	N
City of Nanaimo	76,645	N	Y-Yd	N	N			Y		Y	PR	N	N	N

# BC Municipal Solid Waste Tracking Report 2000

## Nanaimo Regional District Cont'd

<p><b>Disposal/ Recycling Measurement Challenges:</b> The primary challenge is in receiving accurate recycling data from the private recycling facilities. There is a very competitive industry and most operators are reluctant to give us information that could be used by their competitors. Other challenges include credible measuring protocols for waste reduction activities and standardization throughout the industry on terminology and measurement methods (lets agree on what all of the waste commodities are called and how we measure them). Finally, more clear guidelines on what should be included in our waste diversion calculations, for example, scrap metal handled by the private sector - in or out?)</p>	<p><b>Waste Composition Study:</b> We did a tiny little waste comp survey to gives us a snapshot on how much plastic by weight is in our curbside garbage stream, results on a separate attached file.</p>
<p><b>Landfill Disposal Bans and Tipping Fee structure:</b> Banned materials: metal, paper, cardboard, glass, tires Tipping fee structure: *\$4.00 &lt;100 kg Solid Waste                      *\$4 flat rate &lt; 100kg Controlled Construction/Demolition Waste *\$81 to 180/tonne Solid Waste</p>	<p><b>Wood Waste Diversion:</b> An RFP process was conducted to implement a private sector DLC facility. The winning proponent has yet to begin work on the facility and it is somewhat doubtful at this time whether the facility will be built at all. We will evaluate the situation and probably initiate another proposal call.</p> <p><b>Waste Reduction Goals and Challenges:</b> The RDN Board has adopted Zero Waste as our long term strategy. The attached report was used to acquire the Board assent. The details of the Zero Waste plan are being worked out and will likely be described in the next revision to our management plan.</p>

## North Okanagan Regional District

		Residential Collection of Recyclables (other than compostables)							User Pay Strategy						
Municipality / E.A.	2000 Population	SF Residential Curbside (Y/N)	Depots Staffed (Y/N/n/a)	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	
		SF	MF	ICI											
RDNO	79047	Y	Y	Y	Y	PU	PU	PR	2	Y	N	Y	1991		
		Composting Programs and Facilities							Multi-material Processing Facility			Waste Reduction Staff (Y/N)			
Municipality /E.A.	2000 Population	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								
RDNO	79047	N	N	Y-PU	N	Y	N	Y	30	Y	PR	Y	Y	Y	
<b>Disposal/ Recycling Measurement Challenges:</b> It is difficult to obtain accurate private sector tonnages. All major diversion efforts have been surveyed, but it is not possible to track all diversion efforts undertaken by all residents and businesses in the Regional District.								<b>Waste Composition Study:</b> A major Waste Composition Study was completed in 1998 and a follow up Waste Composition Study was undertaken in 2000.							
<b>Landfill Disposal Bans and Tipping Fee structure:</b> A recyclable material disposal ban is likely soon to be passed. Banned materials will include all materials accepted in the Curbside Blue Bag Program (paper, cardboard, glass jars, tin, aluminum, #2 HDPE plastic), and metals wet batteries and tires under 25". The tipping fee structure is not variable.								<b>Wood Waste Diversion:</b> Yard and garden waste and clean experienced lumber is segregated at all landfills and chipped for use at the site. It is, however included in the total reported in Section 1 Total Waste Disposed.							
<b>Waste Reduction Goals and Challenges:</b> A major goal of the Solid Waste Management Plan for the future is to implement programs to reduce the amount of organic material entering landfills.															

**Northern Rockies Regional District**

<p><b>Landfill Disposal Bans and Tipping Fee structure:</b>                  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 recent values.</p>	<p><b>Other:</b>                  Recycling in NRRD is privatized and collected by Widesky Disposals and the Government Liquor Store. NRRD pays Widesky Disposals to pick up cardboard from 32 public drop-off bins, 14 in Fort Nelson and 18 in the rest of the regional district.</p>
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**Okanagan-Similkameen Regional District**

Municipality / E.A.	2000 Population	Residential Collection of Recyclables (other than compostables)								User Pay Strategy				
		SF Residential Curbside (Y/N)	Depots Staffed (Y/N/n/a)	MF (Y/N)	ICI (Y/N)	Collection Agency (PU/PR)			Can/Bag Limits (number if applicable)	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
						SF	MF	ICI						
Penticton	38,500	Y	N	Y	N	PU	PU	PR	2	1.5		Y		
OK Falls	3,500	N	N	N	N	N	N	N	N	N		N	N	N
Keremeos	4,300	N	N	N	N	N	N	N	N	N		N	N	N
Oliver	8,800	N	N	N	N	N	N	N	1					
Osoyoos	4,379													
Princeton	2,943													
Summerland	10,830													

Municipality /E.A.	2000 Population	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							
Penticton	38,500	Y-yd	N	Y-yd	N	Y	Y	Y	50	N		Y	N	Y
OK Falls	3,500	N	N	Y-yd	N	N	N	N	25	N	N	Y	N	Y
Keremeos	4,300	N	N	Y-yd	N	N	N	N	25	N	N	12 weeks	N	Y
Oliver	8,800	N	N	Y-yd	N	Y	N	N		N	N	N	N	Y
Osoyoos	4,379													
Princeton	2,943													
Summerland	10,830													

Peace River Regional District

		Residential Collection of Recyclables (other than compostables)							User Pay Strategy					
Municipality / E.A.	2000 Population	SF Curbside (Y/N)	Depots Staffed (Y/N/n/a)	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
						SF	MF	ICI						
Chetwynd	3005	N	Y/N	Y			PR	N	N	N	N			
Dawson Creek	11715	N	Y/N	Y			PR	6	N	N	N			
Fort St. John	16842	N	Y/N	Y			PR	4	N	N	N			
Hudson's Hope	1134	N	N	N				N	N	N	N			
Pouce Coupe	912	N	N	N				3	N	N	N			
Taylor	1258	N	N	N				4	N	N	N			
Tumbler Ridge	2331	N	Y/N	N				3	N	N	N			
B,C,D,E	20529	N	N	N				N	N	N	N			

		Composting Programs and Facilities							Multi-material Processing Facility		Waste Reduction Staff (Y/N)			
Municipality /E.A.	2000 Population	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	3005	N	N	N		Y	N	Y	10					
Dawson Creek	11715	N	N	N		Y	Y	Y	10					
Fort St. John	16842	N	N	N		Y	Y	N	15					
Hudson's Hope	1134	N	Yd	Y	PU	Y	Y	N	10					
Pouce Coupe	912	N	N	N		Y	N	N	10					
Taylor	1258	N	N	N		Y	N	N	10					
Tumbler Ridge	2331	N	Yd	Y	PU	Y	N	Y	10					
B,C,D,E	20529	N	N	N		Y	N	N						
PRRD	57726												Y	Y

**Waste Reduction Goals and Challenges:**  
Waste Reduction Education and Promotion Program-information and practical programs for residents, ICI and schools. In North Peace area, population is very transient (approximately 10% turnover annually). Business sector reluctant to recycle, due in part to inadequate recycling infrastructure. Hope to develop composting demonstration centre in 2002. South Peace (Dawson Creek and area)--well established recycling depot which makes recycling promotion much easier.

**Powell River Regional District**

Municipality / E.A.	2000 Population	Residential Collection of Recyclables (other than compostables)							User Pay Strategy					
		SF Curbside (Y/N)	Depots Staffed (Y/N/n/a)	MF (Y/N)	ICI (Y/N)	Collection Agency (PU/PR)			Can/Bag Limits (number if applicable)	Collection Fees/ Tags for additional pickup (Y/N)	Variable Unit Fee Structure (Y/N)	Backyard Burning Bans in Place (Y/N)	Date User Pay Strategy was Implemented	Date User Pay Strategy is Planned to be Implemented
						SF	MF	ICI						
Powell River	13879	Y	N	Y	Y	Pu	Pu	Pr	N/A	Y	N	Y	1997	N/A
A	1651	N	N	} Optional private collection service					N/A	Y	N	N	1997	N/A
B	1453	N	N						N/A	Y	N	N	1997	N/A
C	2456	N	N						N/A	Y	N	N	1997	N/A
D	1221	N	N						N/A	Y	N	N	1997	N/A
E	400	N	Y						N	N	N/A	N/A	N/A	N
		Composting Programs and Facilities								Waste Reduction Staff (Y/N)				
Municipality /E.A.	2000 Population	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			
Powell River	13879	N	N	N	N	Y	N	N	20%	N		N	N	N
A	1651	N	N	N	N	Y	N	N	35%	N		N	N	N
B	1453	N	N	N	N	Y	N	N	35%	N		N	N	N
C	2456	N	N	N	N	Y	N	N	35%	N		N	N	N
D	1221	N	N	N	N	Y	N	N	35%	N		N	N	N
E	400	N	N	N	N	Y	N	N	35%	N		N	N	N
REGION WIDE	20660	N	Y-Yd	Y	N	Y	N	N	28%	Y	Pr	N	N	N

Skeena-Queen Charlotte Regional District

		Residential Collection of Recyclables (other than compostables)								User Pay Strategy				
Municipality / E.A.	2000 Population	SF Curbside (Y/N)	Depots Staffed (Y/N/n/a)	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
						SF	MF	ICI						
Prince Rupert	16714	N	Y	N	Y	n/a	n/a	PR	n/a	n/a	N	Y	N/A	UNKNOWN
Port Edward	700	N	N	N	Y	N/A	N/A	PR	N/A	N/A	N	N	N/A	UNKNOWN
Sandspit	618	N	N	N	N	N/A	N/A	N/A	2	Y	Y	N	1994	
Queen Charlotte City	1222	N	Y	N	N	N/A	N/A	N/A	2	Y	Y	N	1994	
Skidegate IR	?	N	N	N	N	N/A	N/A	N/A	n/a	n/a	n/a	N	1994	
Tlell	In Rural	N	N	N	N	N/A	N/A	N/A	2	Y	Y	N	1994	
Port Clements	558	N	N	N	N	N/A	N/A	N/A	2	Y	Y	N	1994	
Masset	1293	N	N	N	N	N/A	N/A	N/A	2	Y	Y	N	1994	
Masset	?	N	N	N	N	N/A	N/A	N/A	n/a	n/a	n/a	N	1994	
All Rural Areas	1906	N	N	N	N	N/A	N/A	N/A	2	Y	Y	N	1994	
		Composting Programs and Facilities								Multi-material Processing Facility		Waste Reduction Staff (Y/N)		
Municipality /E.A.	2000 Population	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							
Prince Rupert	16714	Y	N	N	N		Y	Y	2%	Y	PU	Y	Y	Y
Port Edward	700	Y	N	N	N		Y		2%	N		Y	Y	N
Sandspit	618	Y	N	N	N		Y		5%	N		Y	Y	N
Queen Charlotte City	1222	Y	N	N	N		Y		5%	Y	PU	Y	Y	N
Skidegate IR	?	Y	N	N	N		Y		5%	N		Y	Y	N
Tlell	In Rural	Y	N	N	N		Y		5%	N		Y	Y	N
Port Clements	558	Y	N	N	N		Y		5%	Y	PU	Y	Y	Y
Masset	1293	Y	N	N	N		Y		5%	N		Y	Y	N
Masset IR	?	Y	N	N	N		Y		5%	N		Y	Y	N
All Rural Areas	1906	Y	N	N	N		Y		5%	N		Y	Y	N
<b>Disposal/ Recycling Measurement Challenges:</b> One the mainland everything is weighed in tonnes and on the Islands it is calculated in cubic metres								<b>Waste Composition Study:</b> We use provincial present studies from other areas						
<b>Landfill Disposal Bans and Tipping Fee structure:</b> The Prince Rupert Landfill services the Mainland area which includes Port Edward and Dodge Cove and has a tipping fee of \$71 per tonne. Batteries, White goods, Cardboard , paint and oil are banned from the landfill. The Islands regional landfill located north of Port Clements services all the Queen Charlotte Islands. Tipping fee is variable but for general refuse it is \$10 per cubic meter. Batteries, White goods, paint and oil are banned from the landfill.								<b>Wood Waste Diversion:</b> This is presently being studied and options being looked at in Prince Rupert. On the islands we sort as much as possible and burn. Sorted wood waste has a reduced rate of \$6 per cubic metre.						
<b>Waste Reduction Goals and Challenges:</b> In Prince Rupert and the Mainland we are trying to implement a bag limit. This is not a popular subject and we do not expect this to happen for some time. Until this happens it is hard to move ahead.														

Squamish-Lillooet Regional District

Municipality / E.A.	2000 Population	Residential Collection of Recyclables (other than compostables)								User Pay Strategy				
		SF Residential Curbside (Y/N)	Depots Staffed (Y/N/n/a)	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
						SF	MF	ICI						
Furry Creek (D)	106	N	N	N	Y	PR	PR	PR		N	N			
Brittania	318	N	n/a	N	Y	PR	PR	PR	2	N	N	Y	Jul-99	
Squamish	15357	N	N	Y	Y	PR	PR	PR	2	Y	N	Y	Jul-99	
Whistler	23194*	N	N	N	N	PR	PR	PR		N	N			
Pemberton	1161	N	N	Y	Y	PR	PR	PR	3	N	N		Jul-99	
Anderson Lake (C)	185	N	n/a	Y	Y	PR	PR	PR	2	N	N		Jan-97	
D'Arcy/Devine (C)	1387	N	Y	N	N	PR	PR	PR		N	N			
Pinecrest/ BlackTusk	332	N	N	N	N	PR	PR	PR		N	N			
Lillooet	2,987	N	Y	Y	Y	PR/PU	PR	PR	4	N	N			2002
Area A														
Area B														

Municipality /E.A.	2000 Population	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							
Furry Creek (D)	106	N	N	N	N	N	N	N	0	N	NA	Y	Y	NA
Brittania	318	N	N	N	N	N	N	N	0	N	NA	Y	Y	NA
Squamish	15357	N	N	N	N	Y	N	Y	10%	Y	PR	Y	Y	Y
Whistler	23194	N	N	N	N	N	N	N	3%	N	NA	Y	Y	Y
Pemberton	1161	N	N	N	N	N	N	N	10%	N	NA	Y	Y	NA
Anderson Lake (C)	185	N	N	N	N	N	N	N	0	N	NA	Y	Y	NA
D'Arcy/Devine (C)	1387	N	N	N	N	N	N	N	0	N	NA	Y	Y	NA
Pinecrest/ BlackTusk	332	N	N	N	N	N	N	N	0	N	NA	Y	Y	NA
Lillooet	2,987	N	N	N	N	Y	N	N	10%	N	NA	Y	Y	Y

**Landfill Disposal Bans and Tipping Fee structure:**  
 Cardboard ban at Resort Municipality of Whistler Landfill

Sunshine Coast Regional District

Municipality / E.A.	2000 Population	Residential Collection of Recyclables (other than compostables)							User Pay Strategy					
		SF Curbside (Y/N)	Depots Staffed (Y/N/n/a)	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
						SF	MF	ICI						
SCRD Areas B,D,E,F	14,874	n	y	n	n	pr	pr	pr	1	y	n	n	1997	n/a
SCRD Area A	2765	n	y	n	n	pr	pr	pr	1	y	n	n	1997	n/a
District of Sechelt	6000	n	y	n	n	pr	pr	pr	1	y	n	n	1997	n/a
Town of Gibsons	3500	n	y	n	n	pr	pr	pr	1	y	n	n	1997	n/a
Sechelt Indian	300	n	y	n	n	pr	pr	pr	no limit	n	n	n	n/a	unknown

Municipality /E.A.	2000 Population	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			
SCRD Areas B,D,E,F	14,874	n	y / yd	y / at landfill	n	y	y	y	25%	n	n/a	y *	y *	y *
SCRD Area A	2765	n	y / yd	y / at landfill	n	y	y	y	25%	n	n/a			
District of Sechelt	6000	n	y / yd	y / at landfill	n	y	y	n	25%	n	n/a			
Town of Gibsons	3500	n	y / yd	y / at landfill	n	y	y	n	25%	n	n/a			
Sechelt Indian Government District	300	n	y / yd	y / at landfill	n	y	y	n	25%	n	n/a			

\* one Solid Waste Management Coordinator fulfills all of these roles for the whole area

<p><b>Disposal/ Recycling Measurement Challenges:</b> only able to report on landfill diversion &amp; recycling from contracted depots; no reporting on private sector recycling and waste disposal not directed to our landfills &amp; contracted depots. Also, we all (RD) seem to measure differently--so how is this comparable? Suggest Province hosts workshops with us to develop consistent tracking methodology.</p>	<p><b>Waste Composition Study:</b> Did a quick &amp; dirty composition study in 1999 to see what recyclable materials were being delivered to the landfills in both the residential loads &amp; the commercial loads. This consisted of 2 days on-site during which we broke open bags &amp; physically examined the waste. Did not weigh or do "scientific" study--too expensive.</p>
<p><b>Landfill Disposal Bans and Tipping Fee structure:</b> no change from last year's information</p>	<p><b>Wood Waste Diversion:</b> Have not yet established a variable rate for this. Will be considered for 2002. Want to look at "at source" diversion programs but have not yet done this. Just dealing with at landfill stuff now. In 2001 we initiated a pilot project to separate wood coming to the landfills. Our staff sorted and stacked in separate areas according to type, condition, etc of wood. Public can take any of this away for free. Separation ranged from pallets, dimension lumber, durable goods in need of repair, cedar shakes for kindling, etc. This proved to be very popular with the public &amp; improved diversion of wood from the sites. Final stats for 2001 vs previous years not yet available. The residual that cannot be reused is chipped &amp; used as a portion of our daily cover.</p>
<p><b>Waste Reduction Goals and Challenges:</b> We have been trying to implement a residential organics collection program for several years, but have made little progress since there is no composting facility within the regional district and it is too expensive to transport the organics to a facility in another regional district</p>	<p><b>Other:</b> We also recycled 48 tonnes of tires. There are 2 paint care depots &amp; 1 special waste depot. These diversion figures are not included here.</p>

**Thompson-Nicola Regional District**

Municipality / E.A.	2000 Population	Residential Collection of Recyclables (other than compostables)							User Pay Strategy					
		SF Curbside (Y/N)	Depots Staffed (Y/N/n/a)	MF (Y/N)	ICI (Y/N)	Collection Agency (PU/PR)			Can/Bag Limits (number if applicable)	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
						SF	MF	ICI						
Kamloops	82832	N	N	N	Y			PR	3	Y	N	Y		
Ashcroft	1995	N	N	N	Y			PR	3	N	N	Y		
Cache Creek	1114	N	N	N	Y			PR	N	N	N	N		
Chase	2602	N	N	N	Y			PR	3	Y	N	N		
Clinton	718	N	Y	N	N			PR	N	N	N	N		
Logan Lake	2505	N	Y	N	Y			PR	N	N	N	N		
Lytton	318	N	Y	N	N			PR	N	N	N	Y		
Merritt	8075	N	N	N	Y			PR	2	Y	N	Y		
10 EA's	30033	N	N	N	N				N	N	N	N		

Municipality /E.A.	2000 Population	Composting Programs and Facilities							Estimated Percent of Population with backyard composters	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)		Y/N	PU/PR	Waste Reduction Coordinator	Education Coordinator	Landfill Manager
		Curbside	Depot	Yd	Fd	In past	On-going							
Kamloops	82832	N	Y	Y-PU	N	Y	Y	Y	25	N		Part Time	Part Time	Yes
TNRD & member municipalities	47360	N	Y	N	N	Y	Y	Y	25	N		Part Time	Part Time	Yes

**Appendix B:**

**REGIONAL DISTRICT POPULATION AND DISPOSAL STATISTICS**

# BC Municipal Solid Waste Tracking Report 2000

## Regional District Population and Disposal Statistics, 1990-1995

REGIONAL DISTRICT	ANNUAL DISPOSAL (tonnes) POPULATION AND PERCAPITA DISPOSAL RATES (tonne/person/yr)																	
	1990			1991			1992			1993			1994			1995		
	disposal (98 Rpt)	pop (BCSTATS)	disp rate (98 Rpt)	disposal	pop (BCSTATS)	disp rate	disposal	pop (BCSTATS)	disp rate	disposal	pop (BCSTATS)	disp rate	disposal	pop (BCSTATS)	disp rate	disposal	pop (BCSTATS)	disp rate
Alberni-Clayoquot	16,641	31,961	0.550	18,617	32,048	0.581	18,065	31,541	0.573	15,843	32,064	0.494	15,324	31,786	0.482	13,060	32,783	0.398
Bulkley-Nechako	25,995	39,172	0.700	12,790	39,400	0.325	25,885	39,918	0.648	25,491	40,296	0.633	25,800	41,195	0.626	26,250	42,154	0.623
Capital	180,966	301,186	0.620	173,714	307,643	0.565	154,971	313,997	0.494	148,343	319,912	0.464	145,585	324,478	0.449	138,303	328,934	0.420
Cariboo	23,456	62,718	0.400	33,114	62,855	0.527	24,000	62,857	0.382	24,800	64,149	0.387	25,000	65,857	0.380	25,261	67,787	0.373
Central Coast	1,400	3,679	0.400	1,440	3,639	0.396	1,474	3,721	0.396	1,353	3,759	0.360	1,375	3,883	0.354	1,375	3,938	0.349
Central Fraser Valley*	69,340	86,001	0.850	74,396	89,707	0.829	50,000	93,954	0.532	59,344	98,092	0.605	60,000	102,378	0.586	61,000	106,697	0.572
Central Kootenay	34,760	51,456	0.701	36,089	52,342	0.689	40,503	54,293	0.746	28,283	55,685	0.508	30,412	57,697	0.527	31,710	58,928	0.538
Central Okanagan	124,998	108,700	1.210	115,000	114,673	1.003	107,043	122,037	0.877	95,651	128,913	0.742	89,812	133,681	0.672	84,941	137,909	0.616
Columbia Shuswap	28,762	41,943	0.650	25,050	42,741	0.586	40,764	43,404	0.939	31,401	44,810	0.701	32,500	46,839	0.694	29,236	48,520	0.603
Comox-Strathcona	53,546	82,101	0.650	31,101	85,054	0.366	47,534	87,411	0.544	62,158	90,963	0.683	32,188	95,730	0.336	32,189	99,047	0.325
Cowichan Valley	45,475	60,048	0.770	26,755	62,199	0.430	30,915	63,984	0.483	31,913	66,583	0.479	29,902	69,850	0.428	28,976	72,102	0.402
Dewdney-Alouette*	73,300	89,200	0.850	40,000	92,394	0.433	35,421	95,916	0.369	35,729	99,762	0.358	19,504	103,009	0.189	18,013	105,958	0.170
East Kootenay	34,141	54,055	0.700	41,353	53,746	0.769	42,000	54,121	0.776	42,500	54,958	0.773	45,000	55,756	0.807	50,000	57,323	0.872
Fort Nelson-Liard**	9,709	4,915	1.800	4,938	5,192	0.951	5,030	5,346	0.941	5,080	5,436	0.935	5,500	5,550	0.991	6,000	5,853	1.025
Fraser-Cheam*	55,470	68,021	0.480	27,135	70,468	0.385	32,001	73,007	0.438	33,128	76,517	0.433	33,663	80,015	0.421	32,623	82,431	0.396
Fraser-Fort George	60,180	92,607	0.700	63,400	93,301	0.680	40,150	94,106	0.427	68,810	96,470	0.713	68,810	98,402	0.699	88,161	100,751	0.875
Greater Vancouver	1,594,790	1,548,831	0.990	1,550,000	1,585,880	0.977	1,565,418	1,637,064	0.956	1,437,841	1,681,246	0.855	1,637,659	1,732,567	0.945	1,489,763	1,784,656	0.835
Kitimat-Stikine	27,602	42,776	0.700	41,171	43,249	0.952	35,000	43,538	0.804	30,066	43,966	0.684	31,000	44,038	0.704	31,500	44,657	0.705
Kootenay Boundary	25,861	31,577	0.800	24,295	31,974	0.760	24,165	32,413	0.746	24,186	32,978	0.733	21,665	33,560	0.646	22,989	33,906	0.678
Mount Waddington	12,677	14,654	0.900	28,438	14,293	1.990	5,000	14,158	0.353	5,100	14,369	0.355	5,360	14,674	0.365	7,522	14,884	0.505
Nanaimo	50,533	98,278	0.550	55,589	104,296	0.533	56,162	108,327	0.518	61,149	113,627	0.538	58,939	119,636	0.493	59,107	123,408	0.479
North Okanagan	59,915	61,128	1.040	22,982	63,288	0.363	55,297	65,477	0.845	56,314	68,089	0.827	41,979	71,091	0.590	40,578	72,529	0.559
Okanagan-Similkameen	79,487	65,920	1.200	65,871	68,280	0.965	60,982	70,947	0.860	86,883	73,858	1.176	56,736	76,780	0.739	37,768	78,082	0.484
Peace River	46,076	53,958	0.920	31,893	54,844	0.582	39,476	55,028	0.717	42,500	55,777	0.762	46,800	56,698	0.825	57,000	57,741	0.987
Powell River	12,922	19,457	0.690	12,138	19,689	0.616	12,350	19,671	0.628	14,682	19,728	0.744	11,730	20,038	0.585	8,706	20,255	0.430
Skeena-Queen Charlotte	17,933	24,344	0.800	17,500	24,460	0.715	17,363	24,619	0.705	16,825	24,767	0.679	17,836	25,331	0.704	17,817	25,595	0.696
Squamish-Lillooet	38,924	24,652	1.200	40,086	25,067	1.599	21,196	26,292	0.806	38,349	27,496	1.395	56,771	29,233	1.942	30,000	30,771	0.975
Sunshine Coast	17,207	20,492	0.900	31,726	21,334	1.487	20,335	22,219	0.915	14,324	23,297	0.615	16,215	24,306	0.667	11,326	24,989	0.453
Thompson-Nicola	69,939	105,429	0.670	67,058	107,148	0.626	77,554	109,234	0.710	84,752	112,551	0.753	98,696	116,385	0.848	75,333	120,016	0.628
Province sums	2,892,005	3,289,258		2,713,639	3,264,056		2,686,054	3,359,366		2,622,798	3,457,567		2,761,761	3,564,058		2,556,507	3,662,588	
population ( reports)		3,063,419			3,282,061			3,371,372			3,530,211			3,326,825			3,649,166	
waste disposed (from rpts)	2,890,516			2,937,636			2,263,886			2,142,468			1,994,605			1,976,454		
disposal rate (reports)			0.944			0.900		0.672			0.607			0.600			0.542	
disposal rate (modified)			0.879			0.831		0.800			0.759			0.775			0.698	
reduction from .879 (mod d r)						5.4%		9.1%			13.7%			11.9%			20.6%	
Source:																		
MSW Tracking Reports, with missing/anomalous data inserted using 1998 report methodology, and identified as																		
and 1990 disposal values as established in the 1998 Report, based on range of values in various reports, consistency with other RDs in group, and any info received from the RD based on later analysis																		
Population figures obtained from BC Stats Municipal and Regional District Population Estimates, December 1998, at <a href="http://www.bcstats.gov.bc.ca/data/pop/pop/EstsPop.htm">http://www.bcstats.gov.bc.ca/data/pop/pop/EstsPop.htm</a>																		
Notes:																		
* became part of Fraser Valley Regional District after its creation in late 1995; the disposed amount for each in 1990 were determined by apportioning the total disposed calculated FVRD for 1990 on the basis of population ratios																		
** Now named Northern Rockies Regional District.																		
1992 reported rate for KITS was low because some larger disposal sites did not report, and 1993 rate includes DLC																		
1991, 1992 and 1993 data for MTWAD is suspect; 93 data includes DLC																		
92 data for GVRD and 93 data for COSC, GVRD,KITS, MTWAD, NANMO, OKSM, includes DLC disposed																		
93 data for PEACR included large amount of waste from oil industry and a wafer board plant (presumably NOT (entirely) MSW																		
93 data for SKQC, SCLI, SUNCO reflected more complete recording and tourist activity in SCLI for 93 increases effective pop by 36%																		
94 data did not include DLC (specifically), except for GVRD; its rate w/o DLC was .610, w/DLC .873																		
CORD data since 1992 is weighed																		
FFFG data for 1994 includes weighed amount from largest landfill																		
No weigh scales in POWRV																		
94 data for SCLI only includes Whistler and Squamish + 1.4 million tourists																		
95 data for COSC differs from 94 data ONLY in the amount of tires and batteries recycled!																		
95 data for GVRD includes the populations and presumably wastes from Abbotsford, Maple Ridge and Pitt Meadows																		
all data for SK-QC taken from 99/11/17 fax from Don Wilson, and estimate for 1990 based on same data																		

Regional District Per Capita Disposal Rate Summary- 1990, 1996-2000

REGIONAL DISTRICT	1990*			1996			1997			1998			1999			2000			% reduction from 1990
	pop	disp rate	rank	pop	disp rate	rank	pop	disp rate	rank	pop	disp rate	rank	pop	disp rate	rank	pop	disp rate	rank	
<b>Regional Districts with populations less than or equal to 60,000 in 2000</b>																			
Alberni-Clayoquot	30,257	0.550	2	30,000	0.470	4	28,824	0.529	5	26,914	0.515	7	34,000	0.598	8	34,000	0.511	7	7
Bulkley-Nechako	37,136	0.700	4	43,047	0.680	7	41,642	0.660	12	42,899	0.578	8	43,545	0.651	10	44,204	0.610	10	13
Central Coast	3,500	0.400	1	4,055	0.350	2	4,310	0.350	2	3,921	0.350	2	4,320	0.350	2	4,332	0.350	2	13
Columbia Shuswap	40,510	0.710	7	48,115	0.496	5	48,115	0.545	6	52,256	0.424	5	52,256	0.416	3	52,973	0.408	3	43
East Kootenay	48,773	0.700	5	56,608	0.942	13	59,557	0.918	13	60,054	0.902	12	61,145	0.656	11	62,240	0.716	12	-2
Kitimat-Stikine	39,431	0.700	6	43,618	0.680	8	44,141	0.556	7	44,671	0.369	4	46,449	0.469	6	46,870	0.469	5	33
Kootenay Boundary	30,425	0.850	9	32,906	0.407	3	32,906	0.644	11	34,309	0.550	3	34,156	0.582	7	34,065	0.474	6	44
Mount Waddington	14,086	0.900	10	13,896	0.800	12	15,392	0.478	4	15,000	0.422	4	14,601	0.420	4	15,058	0.528	8	41
Northern Rockies	4,565	1.800	14	5,856	1.195	14	6,414	1.800	14	6,500	1.846	13	6,500	0.692	12	6,434	1.088	14	40
Peace River	50,083	0.920	12	55,545	0.696	9	59,695	0.640	10	60,000	0.858	11	60,000	0.725	14	57,726	0.764	13	17
Powell River	18,728	0.690	3	20,603	0.272	1	19,936	0.313	1	21,124	0.249	1	20,993	0.258	1	21,060	0.251	1	64
Skeena-Queen Charlotte	22,700	0.790	8	23,123	0.722	11	25,910	0.630	8	24,795	0.629	10	25,467	0.707	13	25,514	0.541	9	32
Squamish-Lillooet	32,437	1.200	13	31,548	0.700	10	34,031	0.630	9	42,714	0.620	9	35,911	0.648	9	45,523	0.651	11	46
Sunshine Coast	19,119	0.900	11	24,914	0.505	6	25,911	0.473	3	26,947	0.437	6	27,755	0.432	5	27,438	0.423	4	53
<b>Regional Districts with populations greater than 60,000 in 2000</b>																			
Capital	291,880	0.620	3	328,880	0.413	2	329,135	0.495	3	334,871	0.390	3	339,643	0.395	3	334,940	0.408	5	34
Cariboo	58,641	0.400	1	69,192	0.365	1	66,607	0.357	2	73,024	0.360	1	72,988	0.360	2	73,549	0.360	2	10
Central Kootenay	49,587	0.701	7	58,099	0.449	3	60,725	0.339	1	61,602	0.218	2	61,466	0.277	1	61,790	0.301	1	57
Central Okanagan	103,304	1.210	13	141,673	0.599	8	145,213	0.725	10	147,113	0.640	10	150,000	0.639	10	152,000	0.643	10	47
Comox-Strathcona	82,378	0.650	4	97,667	0.643	9	103,995	0.660	9	101,085	0.486	5	105,321	0.463	6	105,439	0.463	6	29
Cowichan Valley	59,059	0.770	8	70,978	0.578	7	72,691	0.575	6	73,735	0.520	8	76,386	0.418	4	76,819	0.366	3	53
Fraser Valley	209,641	0.945	9	222,397	0.455	4	234,159	0.530	5	237,128	0.499	6	240,022	0.493	7	243,008	0.502	7	47
Fraser-Fort George	85,971	0.700	6	98,974	1.028	13	101,349	1.056	12	103,782	0.819	12	106,273	0.712	11	106,933	0.711	11	-2
Greater Vancouver	1,610,899	0.990	10	1,898,667	0.717	10	1,934,210	0.744	11	1,978,848	0.675	11	1,990,961	0.715	12	2,011,035	0.713	12	28**
Nanaimo	91,879	0.550	2	125,000	0.502	5	132,000	0.527	4	132,442	0.438	4	137,637	0.428	5	137,003	0.406	4	26
North Okanagan	57,611	1.040	11	73,266	0.758	11	73,266	0.612	7	75,240	0.575	9	77,497	0.555	8	79,047	0.551	8	47
Okanagan-Similkameen	66,239	1.200	12	75,990	0.970	12	77,200	1.130	13	78,700	1.085	13	79,100	1.132	13	84,448	1.056	13	10
Thompson-Nicola	104,386	0.670	5	124,725	0.564	6	125,681	0.658	8	126,796	0.518	7	128,298	0.574	9	130,192	0.582	9	13
Province	3,289,259	0.879		3,880,593	0.641		3,958,217	0.670		3,996,030	0.606		4,026,657	0.622		4,062,270	0.618		29.7

NOTES: Provincial and RDEK populations taken from BCSTATS, other regional district populations were supplied by regional districts for tracking reports

\* Regional district disposal rates for 1990 established in the 1998 Tracking Report

\*\* In accordance with its approved plan, GVRD calculates its disposal rate reduction with 1990 waste generation as the baseline, not disposal, which results in a 48% reduction in the per capita disposal rate in 2000

## **Selected Resources**

*Director's Reports: Industry Product Stewardship in British Columbia*

<http://wlapwww.gov.bc.ca/epd/epdpa/ips/index.html>

(click on the name of each program to get the Director's report for that program)

*Guide to the Preparation of Regional Solid Waste Management Plans by Regional Districts*

<http://wlapwww.gov.bc.ca/epd/epdpa/mpp/gprswmp1.html>

*MSW Tracking Reports, 1996-2000*

[http://wlapwww.gov.bc.ca/epd/epdpa/mpp/reduction\\_goals.htm](http://wlapwww.gov.bc.ca/epd/epdpa/mpp/reduction_goals.htm)

*Waste Management Act*

[http://www.qp.gov.bc.ca/statreg/stat/W/96482\\_01.htm](http://www.qp.gov.bc.ca/statreg/stat/W/96482_01.htm)