

COWICHAN VALLEY REGIONAL DISTRICT



Recreation Facility Use Analysis 2022

April 14th 2022



Table of Contents

Contents

1	Introduction	1
2	Context for the Study	2
	Methodology	2
	Accuracy of the Data	4
3	Results of the Data Collection	5
	Frank Jameson Community Centre	7
	Cowichan Lake Sports Arena	9
	Fuller Lake Arena	11
	Kerry Park Recreation Centre	13
	Cowichan Community Centre	15
	Cowichan Sportsplex	17
	Cowichan Performing Arts Centre	19
	Shawnigan Lake Community Centre	20
4	Summary	22

Appendices

A	Details of Methodology	26
	Drop-in Visits	26
	Program Registration Database	28
	Group Rental Uses	28
	Schedule for drop-in survey	28
	User Group Survey	29
B	Details of All Facility Use Data	33

Introduction

In the fall of 2021, the Cowichan Valley Regional District retained RC Strategies to undertake an analysis of geographic residences of uses of nine regionally significant public recreation facilities that are supported by CVRD taxpayers. The intent of the project is to consider allocating tax support for regionally significant recreation facilities on the basis of residency of uses. The CVRD wants to consider aligning the proportion of uses coming from each funding area with the amount of tax subsidy sourced from that same area. Such a shift in funding policy would require a referendum which the CVRD intends to consider for the fall of 2022.

RC Strategies and its predecessors had completed two previous similar analysis of facility uses in the CVRD. One was completed in 2011 and one in 2018 (using 2017 data). In this current analysis the goal is to determine geographic residency of uses of regionally significant recreation facilities and then average that distribution with the distribution of the 2017 analysis so that any differences between the two would be moderated. The intent is to continue to average future such analyses such that periodic shifts in use in any single year is mitigated over time. That would result in a reduction of extreme shifts from one such analysis to the next.

In this report, details of the methodology are provided, along with a summary of the outcomes. More details are provided in the appendix. A separate spreadsheet with all the user data from this analysis is available for further use as required.

Context for the Study

Before outlining the results of the study, it is important to clarify the context within which the data was collected. This includes how the information was collected and the resulting level of accuracy of the collected information.

Methodology

The goal of the project is the collection of a statistically valid analysis of uses (i.e. not users) from the following sixteen jurisdictions:

- CVRD Electoral areas A, B, C, D, E, F, G*, H, I
- Town of Lake Cowichan
- Town of Ladysmith
- City of Duncan
- Municipality of North Cowichan
- First Nations within the CVRD
- Outside the Cowichan region

** For Electoral Area G (Saltair / Gulf Islands), the CVRD Board has requested that Saltair uses be identified separately from Gulf Islands uses in this study.*

The nine regionally significant recreation facilities include:

- Shawnigan Lake Community Centre;
- Kerry Park Recreation Centre;
- Cowichan Community Centre;
- Cowichan Performing Arts Centre (physically located inside the Cowichan Community Centre);
- Cowichan Aquatic Centre;
- Cowichan Sportsplex;
- Cowichan Lake Sports Arena;
- Fuller Lake Arena;
- Frank Jameson Community Centre.

Typically, a recreation facility has three modes of use; namely:

- **Drop-in uses** – where a patron makes a decision on a use-by-use basis to use the facility, and often pays a user fee to use a facility during a public use session;
- **Program uses** – where a user typically pre-commits, through a registration process, to a series of uses, usually involving some form of instruction, and then attends for most or all of those programmed uses;
- **Rental uses** – where a group or individual rents a space or a portion of a space and then controls the uses and users of that rented space for the period of the rental.

Based on the three modes of use, three types of data were collected using three separate techniques. The consultants gathered data from each of the nine facilities, but some modes of use were so minimal in some facilities that collection wasn't warranted. Also, drop-in usage was collected in three forms. In cases where drop-in use was primarily by pre-registration and/or pre-paid membership, such use was collected from computer files that recorded the use. In cases where drop-in use was not recorded elsewhere, survey crews physically approached and surveyed users as they left or entered the facility. **Figure One** depicts the sources of all data gathered by facility.

Figure One

Data Collected by Facility and Mode of Use

Facility	Drop-in			Program	School Use	Rental
	Surveyed	Pre-registered	Membership			
Shawnigan Lake Community Centre		✓	✓	✓	✓	✓
Kerry Park Recreation Centre		✓	✓	✓	✓	✓
Cowichan Community Centre	✓	✓	✓	✓	✓	✓
Cowichan Performing Arts Centre		✓				
Cowichan Aquatic Centre	✓	✓	✓	✓	✓	✓
Cowichan Sportsplex	✓				✓	✓
Cowichan Lake Sports Arena	✓	✓		✓	✓	✓
Fuller Lake Arena	✓	✓	✓	✓	✓	✓
Frank Jameson Community Centre	✓	✓	✓	✓	✓	✓

All of the data that was gathered is summarized in tables in Appendix B of this report. The final step in the process was to delete all addresses that were on First Nations reserve lands or outside of the CVRD, leaving only residents in potential tax paying jurisdictions. These tables are also in Appendix B along with that net data expressed as a percentage in each jurisdiction.

Accuracy of the Data

This report includes, in percentage terms, a statistically reliable breakdown of uses of the regionally significant recreation facilities listed above by area of residency. This is achieved by combining data from differing sources with different levels of reliability.

In most cases, the data is 100% complete and reliable. This includes:

- Program visits, where the Perfect Mind software accurately records addresses of all program registrants for programs in each facility;
- Pre-registered drop-in uses, where the same software is used to record addresses before one can register for a drop-in use;
- Drop-in uses paid for through prepurchase of a membership – where the purchase of a membership is required to provide an accurate address of the member, and each use is then recorded by a scanner.

In addition to the 100% reliable data sources, some data comes from other sources with less than 100% accuracy. These include:

- A survey of facility user groups that rent space at the facilities – 70 of the largest user groups (65% of all groups surveyed representing about 90% of total rental uses) submitted the addresses of their members which are assumed to be 100% accurate;
- An exit survey of drop-in uses conducted over a five-month period with sample sizes sufficiently large to render +/- 6% accuracy nineteen times out of twenty overall for the drop-in uses not recorded in pre-registration or membership files (details in the appendix);
- Public school use of facilities – where the school district provided addresses for each school catchment area and school use of each facility was assumed to be proportionately used by all students, rendering a very high level of accuracy, but the confidence level cannot be easily calculated.

When the data sources are combined a net level of accuracy can be implied. In this case, as the vast majority of the information is 100% accurate, and it is combined with a minority of data which is accurate to at least +/- 6% accuracy, the consultants have concluded the total accuracy is at least (or better than) a combined confidence level of +/- 2% accuracy, nineteen times out of 20. That means that if the analysis were to be repeated 20 times using the same methodology over the same study period, in 95% of those repetitions, the result would be within 2% of the first result. This is better than industry standard levels of confidence in the accuracy of survey data, and would be very difficult to improve upon, regardless of methodology.

It is also worth noting that a higher proportion of all uses has been analyzed this year than in the last two analyses. In 2017 a total of 579,826 visits were recorded which represented all uses for a full 12 months. It is clear that in this more recent study, overall uses are significantly lower than in 2017 due to the reduced capacities and reduced willingness to use facilities associated with the pandemic. However, in this current study a total of 294,295 visits were recorded over five months of a year. So, over only five months of reduced use, this current study was able to record more than half the total of a much larger user base over an entire year in 2017. This increased proportion total use was made possible because of the drop-in pre-registration required during the pandemic and because of the software's capture of membership drop-in uses. Also, in this current study, the consultants were able to capture the added dimension of school use. In summary, while the 2017 analysis resulted in accuracy of +/- 3%, nineteen times out of 20, this current study has results which are at or better than +/-2% nineteen times out of 20.

However, because of the pandemic and the timeframe of the study (during only the winter months of 2021-2022), there were some limitations in evaluating the use of two of the regionally significant facilities; namely the Cowichan Sportsplex and the Cowichan Performing Arts Centre. These limitations are referred to in their respective sections.

Results of the Data Collection

Use of each of the nine facilities is reviewed independently below.

Cowichan Aquatic Centre

The Cowichan Aquatic Centre raw data, representing unique visits during the study period, is used to start the analysis and is summarized in **Figure Two**. The first row represents the actual number of drop-in visits recorded by the survey teams in the sample survey conducted during the winter of 2021-2022 coupled with the computer records of pre-registered visits and membership card scans. The second row represents the number of times a resident of each jurisdiction attended a program based at the aquatic centre according to computer registration records. The third row represents the number of members of all groups, including school groups, that rented space at the facility and their residential jurisdictions according to a survey of those rental groups. The three rows show the residency of a total of 69,352 visits during the five-month study period, which is about 25% more data than was collected in the 2017 full year study, which analyzed 55,071 visits.

Figure Two

Summary of Raw Usage Data at Cowichan Aquatic Centre

Category of Use	Electoral Area A	Electoral Area B	Electoral Area C	Electoral Area D	City of Duncan	Electoral Area E	Electoral Area F	Electoral Area G Islands	Electoral Area G Saltair	Electoral Area H	Electoral Area I	Town of Lake Cowichan	Town of Ladysmith	Municipality of North Cowichan	Total
Drop-in Uses	1523	2082	2005	4026	5189	3434	254	29	159	107	310	1233	354	23494	44,199
Program Uses	433	986	515	546	422	528	64	0	40	9	60	122	101	4429	8,255
Group Rental Uses	2527	1789	1294	1986	941	1192	126	0	0	0	62	186	493	6302	16,898

In order to use the raw data in **Figure Two**, it is first turned into percentages. That is done in **Figure Three**.

However, the raw percentages in **Figure Three** are not usable as is because the first row represents only a sample of drop-in uses, not all drop-in uses. The second row represents all program registration uses, and the third row represents all rental uses. To properly determine how these percentages relate to total uses of the facility, they are multiplied by the proportion of use that each category of use makes up of the total annual facility uses.

Figure Three

Raw Usage Data for Cowichan Aquatic Centre Expressed in Percentage Terms

Category of Use	Electoral Area A	Electoral Area B	Electoral Area C	Electoral Area D	City of Duncan	Electoral Area E	Electoral Area F	Electoral Area G Islands	Electoral Area G Saltair	Electoral Area H	Electoral Area I	Town of Lake Cowichan	Town of Ladysmith	Municipality of North Cowichan	Total
Drop-in Uses	3.4	4.7	4.5	9.1	11.7	7.8	0.6	0.1	0.4	0.2	0.7	2.8	0.8	53.2	100.0
Program Uses	5.2	11.9	6.2	6.6	5.1	6.4	0.8	0.0	0.5	0.1	0.7	1.5	1.2	53.8	100.0
Group Rental Uses	15.0	10.6	7.7	11.7	5.6	7.1	0.7	0.0	0.0	0.0	0.4	1.1	2.9	37.2	100.0

In this case, the percentage breakdowns for the first row are multiplied by .6 to indicate that public drop-in uses make up 60% of total facility uses. The second row percentages are multiplied by .1 to reflect the fact that program uses represent another 10% of total facility uses. The third row percentages are multiplied by .3 to reflect the fact that group rentals constitute the final 30% of all facility uses. The resultant proportions represent the correct “weight” of each row, and therefore, can then be added to equal 100% of uses that are derived from each of the areas of residency within the CVRD. **Figure Four** shows that final analysis and it can be used as a basis for determining the residency of facility uses.

Figure Four

Proportion of All Cowichan Aquatic Centre Uses from Each Jurisdiction

Category of Use	Electoral Area A	Electoral Area B	Electoral Area C	Electoral Area D	City of Duncan	Electoral Area E	Electoral Area F	Electoral Area G Islands	Electoral Area G Saltair	Electoral Area H	Electoral Area I	Town of Lake Cowichan	Town of Ladysmith	Municipality of North Cowichan	Total
Drop-in Uses	2.0	2.8	2.7	5.5	7.0	4.7	0.4	0.1	0.2	0.1	0.4	1.7	0.5	31.9	60.0
Program Uses	0.5	1.2	0.6	0.7	0.5	0.6	0.1	0.0	0.1	0.0	0.1	0.2	0.1	5.3	10.0
Group Rental Uses	4.4	3.2	2.3	3.5	1.7	2.1	0.2	0.0	0.0	0.0	0.1	0.3	0.9	11.3	30.0
Total of All Uses in 2022	6.9	7.2	5.6	9.7	9.2	7.4	0.7	0.1	0.3	0.1	0.6	2.2	1.5	48.5	100.0
Total in 2017	3.9	12.0	7.3	3.7	8.4	7.7	0.7	0.2		1.0	0.4	2.3	0.6	51.8	100.0
Average of 2017 and 2022	5.40	9.60	6.45	6.70	8.80	7.55	0.70	0.08	0.22	0.55	0.50	2.25	1.05	50.15	100.0

Figure Four also shows the total of all uses from the 2017 analysis and averages the two in the final row. It shows that there is some difference in the proportionate use between the two years and three shifts in proportions that exceed the +/- 3% margin of sampling error. These are shaded in green. However, averaging the two sets of data from 2017 and 2022 moderates all shifts such that no single shift from 2017 to the averaged final proportion varies by more than 3%. It is also worth noting that because Electoral Area G was not divided into two subsets in 2017, the total use for 2017 for all Electoral Area G uses was apportioned between Saltair and the Islands in the same ratio as in 2022.

Frank Jameson Community Centre

The Frank Jameson Community Centre raw data, representing unique visits, is used to start the analysis and is summarized in **Figure Five**. The first row represents the actual number of drop-in visits recorded by the survey teams in the sample survey conducted during the winter of 2021-2022, coupled with the computer records of pre-registered visits and membership card scans. The second row represents the number of times a resident of each jurisdiction attended a program based at the Community Centre according to computer registration records. The third row represents the number of uses by members of all groups, including school groups, that rented space at the facility and their residential jurisdictions according to a survey of those rental groups. The three rows show the residency of a total of 37,407 visits during the study period, which is a about 10% more data than was collected in the 2017 study, which analyzed 34,275 visits.

Figure Five

Summary of Raw Usage Data at Frank Jameson Community Centre

Category of Use	Electoral Area A	Electoral Area B	Electoral Area C	Electoral Area D	City of Duncan	Electoral Area E	Electoral Area F	Electoral Area G Islands	Electoral Area G Saltair	Electoral Area H	Electoral Area I	Town of Lake Cowichan	Town of Ladysmith	Municipality of North Cowichan	Total
Drop-in Uses	0	26	0	3	76	32	4	1	1419	2208	12	3	12093	1744	17,621
Program Uses	144	142	25	26	65	44	14	0	981	1333	0	18	8070	2358	13,220
Group Rental Uses	32	137	96	48	137	112	162	0	505	697	0	16	3260	1364	6,566

In order to use the raw data in **Figure Five** it must first be turned into percentages. That is done in **Figure Six**.

Figure Six

Raw Usage Data for Frank Jameson Community Centre in Percentage Terms

Category of Use	Electoral Area A	Electoral Area B	Electoral Area C	Electoral Area D	City of Duncan	Electoral Area E	Electoral Area F	Electoral Area G Islands	Electoral Area G Saltair	Electoral Area H	Electoral Area I	Town of Lake Cowichan	Town of Ladysmith	Municipality of North Cowichan	Total
Drop-in Uses	0.0	0.2	0.0	0.0	0.4	0.2	0.0	0.0	8.1	12.5	0.1	0.0	68.6	9.9	100.0
Program Uses	1.1	1.1	0.2	0.2	0.5	0.3	0.1	0.0	7.4	10.1	0.0	0.1	61.1	17.8	100.0
Group Rental Uses	0.5	2.1	1.5	0.7	2.1	1.7	2.5	0.0	7.7	10.6	0.0	0.2	49.6	20.8	100.0

However, the raw percentages in **Figure Six** are not usable as the first row represents only a sample of drop-in uses, the second row represents all program registration uses, and the third row represents a sample of all rental group member uses. To properly determine how these percentages relate to total uses of the facility, they are multiplied by the proportion of use that each category of use makes up of the total facility uses during the study period.

In this case, the percentage breakdowns for the first row are multiplied by .55 to indicate that public drop-in uses make up 55% of total facility uses according to facility staff. The second row percentages are multiplied by .3 to indicate that program uses represent another 30% of total facility uses. The third row percentages are multiplied by .15 to represent the fact that group rentals constitute 15% of all facility uses according to staff at the facility. The resultant proportions represent the correct “weight” of each row, and therefore, can then be added to equal 100% of uses that are derived from each of the areas of residency. **Figure Seven** shows that final analysis. Only **Figure Seven** can be used as a basis for determining the residency of uses of this facility.

Figure Seven

Proportion of All Frank Jameson Community Centre Uses from Each Jurisdiction

Category of Use	Electoral Area A	Electoral Area B	Electoral Area C	Electoral Area D	City of Duncan	Electoral Area E	Electoral Area F	Electoral Area G Islands	Electoral Area G Saltair	Electoral Area H	Electoral Area I	Town of Lake Cowichan	Town of Ladysmith	Municipality of North Cowichan	Total
Drop-in Uses	0.0	.11	0.0	0.0	0.2	0.1	0.0	0.0	4.5	6.9	0.1	0.0	37.7	5.4	55.0
Program Uses	0.3	0.3	0.1	0.1	0.2	0.1	0.0	0.0	2.2	3.0	0.0	0.0	18.3	5.4	30.0
Group Rental Uses	0.1	0.3	0.2	0.1	0.3	0.3	0.4	0.0	1.2	1.6	0.0	0.0	7.4	3.1	15.0
Total of All Uses in 2022	0.4	0.7	0.3	0.2	0.7	0.5	0.4	0.0	7.9	11.5	0.1	0.0	63.4	13.9	100.0
Total in 2017	0.3	1.0	0.2	1.1	0.3	0.6	0.3	6.0		11.6	0.2	1.3	63.6	13.5	100.0
Average of 2017 and 2022	0.35	0.85	0.25	0.65	0.50	0.55	0.35	0.00	6.95	11.55	0.15	0.65	63.50	13.70	100.0

Figure Seven also shows the total of all uses from the 2017 analysis and averages the two. It shows that there is very little difference in the proportionate use between the two years. In fact, there are no jurisdictions that have shifted more than 2 percentage points. Also, it is worth noting that because Electoral Area G was not divided into two subsets in 2017, the total use for 2017 was apportioned between Saltair and the Islands in the same ratio as in 2022 before calculating the averages.

Cowichan Lake Sports Arena

The Cowichan Lake Arena raw data, representing unique visits, is used to start the analysis and is summarized in **Figure Eight**. The first row represents the actual number of drop-in visits recorded by the survey teams in the sample survey conducted during the winter of 2021-2022 coupled with the computer records of pre-registered visits and membership card scans. The second row represents the number of times a resident of each jurisdiction attended a program based at the arena according to computer registration records. The third row represents the use by the members of all groups that rented space at the arena and their residential jurisdictions according to a survey of those rental groups. Cowichan Lake Recreation has three minor hockey associations using its arena in addition to other group rentals.

The three rows collectively show the residency of a total of 14,143 visits during the study period, which is about half the data that was collected in the 2017 study which analyzed 27,509 visits.

Figure Eight

Summary of Raw Usage Data for Cowichan Lake Sports Arena

Category of Use	Electoral Area A	Electoral Area B	Electoral Area C	Electoral Area D	City of Duncan	Electoral Area E	Electoral Area F	Electoral Area G Islands	Electoral Area G Saltair	Electoral Area H	Electoral Area I	Town of Lake Cowichan	Town of Ladysmith	Municipality of North Cowichan	Total
Drop-in Uses	4	40	10	12	12	17	226	0	1	0	327	676	20	107	1,452
Program Uses	0	45	2	26	34	16	427	0	6	0	833	1465	121	0	2,975
Group Rental Uses	259	188	98	23	60	390	1230	0	48	36	1185	3884	1049	1266	9,716

In order to use the raw data in **Figure Eight**, it is first turned into percentages. That is done in **Figure Nine**.

Figure Nine

Raw Usage Data for Cowichan Lake Sports Arena in Percentage Terms

Category of Use	Electoral Area A	Electoral Area B	Electoral Area C	Electoral Area D	City of Duncan	Electoral Area E	Electoral Area F	Electoral Area G Islands	Electoral Area G Saltair	Electoral Area H	Electoral Area I	Town of Lake Cowichan	Town of Ladysmith	Municipality of North Cowichan	Total
Drop-in Uses	0.3	2.8	0.7	0.8	0.8	1.1	15.6	0.0	0.1	0.0	22.5	46.5	1.4	7.4	100.0
Program Uses	0.0	1.5	0.1	0.9	1.1	0.5	14.4	0.0	0.2	0.0	28.0	49.2	4.1	0.0	100.0
Group Rental Uses	2.7	1.9	1.0	0.2	0.6	4.0	12.7	0.0	0.5	0.4	12.2	40.0	10.8	13.0	100.0

However, the raw percentages in **Figure Nine** are not usable as the first row represents only a sample of drop-in uses, the second row represents all program registration uses, and the third row represents a sample of all rental group member uses. To properly determine how these percentages relate to total uses of the facility, they are multiplied by the proportion of use that each category of use makes up of the total facility uses during the study period.

In this case, the percentage breakdowns for the first row are multiplied by .16 to indicate that public drop-in uses make up 16% of total facility uses. The second row percentages are multiplied by .1 to indicate that program uses represent another 10% of total facility uses. The third row percentages are multiplied by .74 to represent the fact that group rentals constitute 74% of all annual facility uses according to staff at the facility. The resultant proportions represent the correct “weight” of each row, and therefore, can then be added to equal 100% of uses that are derived from each of the areas of residency. **Figure Ten** shows that final analysis. Only **Figure Ten** can be used as a basis for determining the residency of uses of this facility.

Figure Ten

Proportion of All Cowichan Lake Sports Arena Uses from Each Jurisdiction

Category of Use	Electoral Area A	Electoral Area B	Electoral Area C	Electoral Area D	City of Duncan	Electoral Area E	Electoral Area F	Electoral Area G Islands	Electoral Area G Saltair	Electoral Area H	Electoral Area I	Town of Lake Cowichan	Town of Ladysmith	Municipality of North Cowichan	Total
Drop-in Uses	0.1	0.5	0.1	0.1	0.1	0.2	2.5	0.0	0.0	0.0	3.6	7.4	0.2	1.2	16.0
Program Uses	0.0	0.2	0.0	0.1	0.1	0.1	1.4	0.0	0.0	0.0	2.8	4.9	0.4	0.0	10.0
Group Rental Uses	2.0	1.4	0.7	0.2	0.4	3.0	9.4	0.0	0.4	0.3	9.0	29.6	8.0	9.6	74.0
Total of All Uses in 2022	2.1	2.1	0.8	0.4	0.6	3.3	13.3	0.0	0.4	0.3	15.4	41.9	8.6	10.8	100.0
Total in 2017	4.1	4.2	3.8	0.7	6.6	3.5	5.0	0.7		0.2	12.8	19.2	2.4	36.8	100.0
Average of 2017 and 2022	3.10	3.15	2.30	0.55	3.60	3.40	9.15	0.00	0.55	0.25	14.10	33.55	5.50	23.80	100.00

Figure Ten also shows the total of all uses from the 2017 analysis and averages the two in the final row. It shows that there is some significant difference in the proportionate use between the two years. The most significant shifts in residency of uses are shaded in green. In fact, the shifts are quite dramatic, so that even when the two data sets are averaged, there is a significant shift from the 2017 data. It is also worth noting that because Electoral Area G was not divided into two subsets in 2017, the total use for 2017 for all Electoral Area G uses was apportioned between Saltair and the Islands in the same ratio as in 2022.

Fuller Lake Arena

The Fuller Lake Arena raw data, representing unique visits during the study period, is used to start the analysis of use. It is summarized in **Figure Eleven**. The first row represents the actual number of drop-in visits recorded by the survey teams in the sample survey conducted during the winter of 2021-2022 coupled with the computer records of pre-registered visits and membership card scans. The second row represents the number of times a resident of each jurisdiction attended a program based at the arena according to computer registration records. The third row represents the number of member uses of all groups, including school groups, that rented space at the facility and their residential jurisdictions according to a survey of those rental groups. The three rows show the residency of a total of 26,800 visits during the study period, which is slightly less than the visits collected in the 2017 study which analyzed 31,088 visits.

Figure Eleven

Summary of Raw Usage Data for Fuller Lake Arena

Category of Use	Electoral Area A	Electoral Area B	Electoral Area C	Electoral Area D	City of Duncan	Electoral Area E	Electoral Area F	Electoral Area G Islands	Electoral Area G Saltair	Electoral Area H	Electoral Area I	Town of Lake Cowichan	Town of Ladysmith	Municipality of North Cowichan	Total
Drop-in Uses	25	0	0	5	64	139	3	1	218	2	50	8	177	1322	2,014
Program Uses	15	7	5	54	49	0	4	0	80	50	0	0	365	619	1,248
Group Rental Uses	390	155	61	260	741	1935	285	0	947	443	56	211	7310	10786	23,580

In order to use the raw data in **Figure Eleven**, it is first turned into percentages. That is done in **Figure Twelve**.

Figure Twelve

Raw Usage Data for Fuller Lake Arena in Percentage Terms

Category of Use	Electoral Area A	Electoral Area B	Electoral Area C	Electoral Area D	City of Duncan	Electoral Area E	Electoral Area F	Electoral Area G Islands	Electoral Area G Saltair	Electoral Area H	Electoral Area I	Town of Lake Cowichan	Town of Ladysmith	Municipality of North Cowichan	Total
Drop-in Uses	1.2	0.0	0.0	0.2	3.2	6.9	0.2	0.1	10.8	0.1	2.5	0.4	8.8	65.6	100.0
Program Uses	1.2	0.6	0.4	4.3	3.9	0.0	0.3	0.0	6.4	4.0	0.0	0.0	29.2	49.7	100.0
Group Rental Uses	1.7	0.7	0.3	1.1	3.1	8.2	1.2	0.0	4.0	1.9	0.2	0.9	31.0	45.7	100.0

However, the raw percentages in **Figure Twelve** are not usable as the first row represents only a sample of drop-in uses, the second row represents all program registration uses, and the third row represents a sample of all rental group member uses. To properly determine how these percentages relate to total uses of the facility, they are multiplied by the proportion of use that each category of use makes up of the total facility uses during the study period.

In this case, the percentage breakdowns for the first row are multiplied by .15 to indicate that public drop-in uses make up 15% of total facility uses. The second row percentages are multiplied by .05 to indicate that program uses represent another 5% of total facility uses. The third row percentages are multiplied by .8 to represent the fact that group rentals constitute 80% of all annual facility uses according to staff at the facility. The resultant proportions represent the correct “weight” of each row, and therefore, can then be added to equal 100% of uses that are derived from each of the areas of residency. **Figure Thirteen** shows that final analysis. Only **Figure Thirteen** can be used as a basis for determining the residency of uses of this facility.

Figure Thirteen

Proportion of All Fuller Lake Arena Uses from Each Jurisdiction

Category of Use	Electoral Area A	Electoral Area B	Electoral Area C	Electoral Area D	City of Duncan	Electoral Area E	Electoral Area F	Electoral Area G Islands	Electoral Area G Saltair	Electoral Area H	Electoral Area I	Town of Lake Cowichan	Town of Ladysmith	Municipality of North Cowichan	Total
Drop-in Uses	0.2	0.0	0.0	0.0	0.5	1.0	0.0	0.0	1.6	0.0	0.4	0.1	1.3	9.9	15.0
Program Uses	0.1	0.0	0.0	0.2	0.2	0.0	0.0	0.0	0.3	0.2	0.0	0.0	1.5	2.5	5.0
Group Rental Uses	1.4	0.5	0.2	0.9	2.5	6.6	1.0	0.0	3.2	1.5	0.2	0.7	24.8	36.5	80.0
Total of All Uses in 2022	1.7	0.5	0.2	1.1	3.2	7.6	1.0	0.0	5.1	1.7	0.6	0.8	27.6	48.9	100.0
Total in 2017	0.2	1.0	0.5	2.1	2.3	9.6	1.3	3.9		1.0	0.3	2.5	19.2	56.1	100.0
Average of 2017 and 2022	0.95	0.75	0.35	1.60	2.75	8.60	1.15	0.00	4.50	1.35	0.45	1.65	23.40	52.50	100.00

Figure Thirteen also shows the total of all uses from the 2017 analysis and averages the two. It shows that there is some difference in the proportionate use between the two years. The two most significant shifts in residency of uses (i.e. differences greater than +/- 3%) are shaded in green. It is also worth noting that because Electoral Area G was not divided into two subsets in 2017, the total use for 2017 for all Electoral Area G uses was apportioned between Saltair and the Islands in the same ratio as in 2022.

Kerry Park Recreation Centre

The Kerry Park Recreation Centre raw data, representing unique visits during the study period, is used to start the analysis and is summarized in **Figure Fourteen**. The first row represents the actual number of drop-in visits recorded by the survey teams in the sample survey conducted during the winter of 2021-2022 coupled with the computer records of pre-registered visits and membership card scans. The second row represents the number of times a resident of each jurisdiction attended a program based at the recreation centre according to computer registration records. The third row represents the number of member uses of all groups, including school groups, that rented space at the facility and their residential jurisdictions according to a survey of those rental groups. The three rows show the residency of a total of 58,381 visits during the study period, which is somewhat less use than was collected in the 2017 study, which analyzed 74,013 visits.

Figure Fourteen

Summary of Raw Usage Data for Kerry Park Recreation Centre

Category of Use	Electoral Area A	Electoral Area B	Electoral Area C	Electoral Area D	City of Duncan	Electoral Area E	Electoral Area F	Electoral Area G Islands	Electoral Area G Saltair	Electoral Area H	Electoral Area I	Town of Lake Cowichan	Town of Ladysmith	Municipality of North Cowichan	Total
Drop-in Uses	1940	2637	188	579	16	283	16	0	3	0	0	12	4	561	6,239
Program Uses	2598	4346	2019	981	179	231	5	0	22	14	0	15	111	781	11,302
Group Rental Uses	6803	16518	7311	3951	633	1585	141	0	0	0	10	4	94	3790	40,840

In order to use the raw data in **Figure Fourteen**, it is first turned into percentages. That is done in **Figure Fifteen**.

Figure Fifteen

Raw Usage Data for Kerry Park Recreation Centre in Percentage Terms

Category of Use	Electoral Area A	Electoral Area B	Electoral Area C	Electoral Area D	City of Duncan	Electoral Area E	Electoral Area F	Electoral Area G Islands	Electoral Area G Saltair	Electoral Area H	Electoral Area I	Town of Lake Cowichan	Town of Ladysmith	Municipality of North Cowichan	Total
Drop-in Uses	31.1	42.3	3.0	9.3	0.3	4.5	0.3	0.0	0.0	0.0	0.0	0.2	0.0	9.0	100.0
Program Uses	23.0	38.5	17.9	8.7	1.6	2.0	0.0	0.0	0.2	0.1	0.0	0.1	1.0	6.9	100.0
Group Rental Uses	16.7	40.4	17.9	9.7	1.6	3.9	0.3	0.0	0.0	0.0	0.0	0.0	0.2	9.3	100.0

However, the raw percentages in **Figure Fifteen** are not usable as the first row represents only a sample of drop-in uses, the second row represents all program registration uses, and the third row represents a sample of all rental group member uses. To properly determine how these percentages relate to total uses of the facility, they are multiplied by the proportion of use that each category of use makes up of the total facility uses during the study period.

In this case, the percentage breakdowns for the first row are multiplied by .13 to indicate that public drop-in uses make up 13% of total facility uses. The second row percentages are multiplied by .19 to indicate that program uses represent another 19% of total facility uses. The third row percentages are multiplied by .68 to represent the fact that group rentals constitute 68% of all annual facility uses according to staff at the facility. The resultant proportions represent the correct “weight” of each row, and therefore, can then be added to equal 100% of uses that are derived from each of the areas of residency. **Figure Sixteen** shows that final analysis. Only **Figure Sixteen** can be used as a basis for determining the residency of uses of this facility.

Figure Sixteen

Proportion of All Kerry Park Recreation Centre Uses from Each Jurisdiction

Category of Use	Electoral Area A	Electoral Area B	Electoral Area C	Electoral Area D	City of Duncan	Electoral Area E	Electoral Area F	Electoral Area G Islands	Electoral Area G Saltair	Electoral Area H	Electoral Area I	Town of Lake Cowichan	Town of Ladysmith	Municipality of North Cowichan	Total
Drop-in Uses	4.0	5.5	0.4	1.2	0.0	0.6	0.1	0.0	0.0	0.0	0.0	0.0	0.0	1.2	13.0
Program Uses	4.3	7.3	3.4	1.6	0.3	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	19.0
Group Rental Uses	11.4	27.5	12.2	6.6	1.1	2.6	0.2	0.0	0.0	0.0	0.0	0.0	0.1	6.3	68.0
Total of All Uses in 2022	19.7	40.3	16.0	9.4	1.4	3.6	0.3	0.0	0.0	0.0	0.0	0.0	0.1	9.2	100.0
Total in 2017	19.2	34.7	15.4	9.9	2.0	2.9	0.2	0.0		0.1	0.2	0.1	0.3	15.0	100.0
Average of 2017 and 2022	19.45	37.50	15.70	9.65	1.70	3.25	0.25	0.00	0.00	0.05	0.10	0.05	0.20	12.10	100.00

Figure Sixteen also shows the total of all uses from the 2017 analysis and averages the two in the final row. It shows that there is some difference in the proportionate use between the two years. The two most significant shifts in residency of uses are shaded in green. However, when the two years are averaged, the differences in both cases does not exceed 3% from 2017. It is also worth noting that because Electoral Area G was not divided into two subsets in 2017, the total use for 2017 for all Electoral Area G uses was apportioned between Saltair and the Islands in the same ratio as in 2022.

Cowichan Community Centre

The Cowichan Centre raw data, representing unique visits during the study period, is used to start the analysis and is summarized in **Figure Seventeen**. The first row represents the actual number of drop-in visits recorded by the survey teams in the sample survey conducted during the winter of 2021-2022 coupled with the computer records of pre-registered visits and membership card scans. The second row represents the number of times a resident of each jurisdiction attended a program based at the Community Centre according to computer registration records. The third row represents the number of member uses of all groups, including school groups, that rented space at the facility and their residential jurisdictions according to a survey of those rental groups. The three rows show the residency of a total of 50,227 visits during the study period, which is about a quarter of the uses collected in the 2017 study that analyzed 137,663 visits.

Figure Seventeen

Summary of Raw Usage Data for Cowichan Community Centre

Category of Use	Electoral Area A	Electoral Area B	Electoral Area C	Electoral Area D	City of Duncan	Electoral Area E	Electoral Area F	Electoral Area G Islands	Electoral Area G Saltair	Electoral Area H	Electoral Area I	Town of Lake Cowichan	Town of Ladysmith	Municipality of North Cowichan	Total
Drop-in Uses	159	211	194	193	327	359	26	0	17	1	2	10	26	2759	4,284
Program Uses	172	348	485	563	359	388	140	4	49	35	69	84	136	2812	5,644
Group Rental Uses	527	1144	745	1410	2689	4158	445	0	434	319	79	367	3221	24761	40,299

In order to use the raw data in **Figure Seventeen**, it is first turned into percentages. That is done in **Figure Eighteen**.

Figure Eighteen

Raw Usage Data for Cowichan Community Centre in Percentage Terms

Category of Use	Electoral Area A	Electoral Area B	Electoral Area C	Electoral Area D	City of Duncan	Electoral Area E	Electoral Area F	Electoral Area G Islands	Electoral Area G Saltair	Electoral Area H	Electoral Area I	Town of Lake Cowichan	Town of Ladysmith	Municipality of North Cowichan	Total
Drop-in Uses	3.7	4.9	4.5	4.5	7.7	8.4	0.6	0.0	0.4	0.0	0.1	0.2	0.6	64.4	100.0
Program Uses	3.0	6.2	8.6	10.0	6.4	6.9	2.5	0.1	0.9	0.6	1.2	1.5	2.4	49.7	100.0
Group Rental Uses	1.3	2.8	1.8	3.5	6.7	10.3	1.1	0.0	1.1	0.8	0.2	0.9	8.0	61.5	100.0

However, the raw percentages in **Figure Eighteen** are not usable as the first row represents only a sample of drop-in uses, the second row represents all program registration uses, and the third row represents a sample of all rental group member uses. To properly determine how these percentages relate to total uses of the facility, they are multiplied by the proportion of use that each category of use makes up of the total facility uses during the study period.

In this case, the percentage breakdowns for the first row are multiplied by .17 to indicate that public drop-in uses make up 17% of total facility uses. The second row percentages are multiplied by .32 to indicate that program uses represent another 32% of total facility uses. The third row percentages are multiplied by .51 to represent the fact that group rentals constitute 51% of all annual facility uses according to staff at the facility. The resultant proportions represent the correct “weight” of each row, and therefore, can then be added to equal 100% of uses that are derived from each of the areas of residency. **Figure Nineteen** shows that final analysis. Only **Figure Nineteen** can be used as a basis for determining the residency of uses of this facility.

Figure Nineteen

Proportion of All Cowichan Community Centre Uses from Each Jurisdiction

Category of Use	Electoral Area A	Electoral Area B	Electoral Area C	Electoral Area D	City of Duncan	Electoral Area E	Electoral Area F	Electoral Area G Islands	Electoral Area G Saltair	Electoral Area H	Electoral Area I	Town of Lake of Cowichan	Town of Ladysmith	Municipality of North Cowichan	Total
Drop-in Uses	0.6	0.8	0.8	0.8	1.3	1.4	0.1	0.0	0.1	0.0	0.0	0.0	0.1	11.0	17.0
Program Uses	1.0	2.0	2.7	3.2	2.0	2.2	0.8	0.0	0.3	0.2	0.4	0.5	0.8	15.9	32.0
Group Rental Uses	0.7	1.4	0.9	1.8	3.4	5.2	0.6	0.0	0.6	0.4	0.1	0.4	4.1	31.4	51.0
Total of All Uses in 2022	2.3	4.2	4.4	5.8	6.7	8.8	1.5	0.0	0.9	0.6	0.5	0.9	5.0	58.3	100.0
Total in 2017	6.3	10.2	6.5	7.2	7.3	8.7	1.0	0.4		0.1	0.6	0.8	1.7	49.2	100.0
Average of 2017 and 2022	4.30	7.20	5.45	6.50	7.00	8.75	1.25	0.00	0.70	0.35	0.55	0.85	3.35	53.75	100.00

Figure Nineteen also shows the total of all uses from the 2017 analysis and averages the two in the final row. It shows that there is some significant difference in the proportionate use between the two years. The four most significant shifts in residency of uses (i.e. differences more than +/- 3%) are shaded in green.

It is also worth noting that because Electoral Area G was not divided into two subsets in 2017, the total use for 2017 for all Electoral Area G uses was apportioned between Saltair and the Islands in the same ratio as in 2022.

Cowichan Sportsplex

The Cowichan Sportsplex is operated by a not-for-profit society with the majority of the fields allocated to groups. There is non-scheduled, general public access to the running track, fields, fitness circuit and amenities when not rented and therefore a drop-in survey was conducted for this facility. The drop-in use is affected by both special events and the weather and therefore drop-in use varies significantly from day to day. In addition, fields are closed during periods of inclement weather including frost, snow, or significant rain, resulting in either unsafe conditions or damage to the fields. The vast majority of use at the Cowichan Sportsplex is by group rentals, estimated at 90% of overall use with 10% being drop-in use. **Figure Twenty** presents the raw user data from the on site manual survey of drop-in uses and the membership list provided by the rental groups. However, it is worth noting that the study period covered only the winter months and this is the time of the year when there is the least amount of both rental use and drop-in use. So, very limited data was available for analysis. Only 5251 visits were recorded in this study.

Figure Twenty

Summary of Raw Usage Data for Cowichan Sportsplex

Category of Use	Electoral Area A	Electoral Area B	Electoral Area C	Electoral Area D	City of Duncan	Electoral Area E	Electoral Area F	Electoral Area G Islands	Electoral Area G Saltair	Electoral Area H	Electoral Area I	Town of Lake Cowichan	Town of Ladysmith	Municipality of North Cowichan	Total
Drop-in Uses	0	4	0	1	12	7	0	0	0	1	0	0	0	84	109
Group Rental Uses	132	418	154	213	132	323	44	0	22	0	44	88	103	3469	5,142

In order to use the raw data in **Figure Twenty**, it is first turned into percentages. That is done in **Figure Twenty-One**.

Figure Twenty-One

Raw Usage Data for Cowichan Sportsplex in Percentage Terms

Category of Use	Electoral Area A	Electoral Area B	Electoral Area C	Electoral Area D	City of Duncan	Electoral Area E	Electoral Area F	Electoral Area G Islands	Electoral Area G Saltair	Electoral Area H	Electoral Area I	Town of Lake Cowichan	Town of Ladysmith	Municipality of North Cowichan	Total
Drop-in Uses	0.0	3.7	0.0	0.9	11.0	6.4	0.0	0.0	0.0	0.9	0.0	0.0	0.0	77.1	100.0
Group Rental Uses	2.6	8.1	3.0	4.1	2.6	6.3	0.9	0.0	0.4	0.0	0.9	1.7	2.0	67.4	100.0

However, the raw percentages in **Figure Twenty-One** are not usable as the first row represents only a sample of drop-in uses and the second row represents only a sample of all rental group member uses. To properly determine how these percentages relate to total uses of the facility, they are multiplied by the proportion of use that each category of use makes up of the total facility uses during the study period.

In this case, the percentage breakdowns for the first row are multiplied by .1 to indicate that public drop-in uses make up 10% of total facility uses. The second row percentages are multiplied by .9 to indicate that rental group uses represent the remaining 90% of total facility uses. The resultant proportions represent the correct “weight” of each row, and therefore, can then be added to equal 100% of uses that are derived from each of the areas of residency. **Figure Twenty-Two** shows that final analysis. Only **Figure Twenty-Two** can be used as a basis for determining the residency of uses of this facility.

Figure Twenty-Two also shows the total of all uses from the 2017 analysis and averages the two in the final row. It shows that there are two significant differences in the proportionate use between the two years. The two most significant shifts in residency of uses (i.e. differences more than +/- 3%) are shaded in green.

Figure Twenty-Two

Proportion of All Cowichan Sportsplex Uses from Each Jurisdiction

Category of Use	Electoral Area A	Electoral Area B	Electoral Area C	Electoral Area D	City of Duncan	Electoral Area E	Electoral Area F	Electoral Area G Islands	Electoral Area G Saltair	Electoral Area H	Electoral Area I	Town of Lake Cowichan	Town of Ladysmith	Municipality of North Cowichan	Total
Drop-in Uses	0.0	0.4	0.0	0.1	1.1	0.6	0.0	0.0	0.0	0.1	0.0	0.0	0.0	7.7	10.0
Group Rental Uses	2.3	7.3	2.7	3.7	2.3	5.7	0.8	0.0	0.4	0.0	0.8	1.5	1.8	60.7	90.0
Total of All Uses in 2022	2.3	7.7	2.7	3.8	3.4	6.3	0.8	0.0	0.4	0.1	0.8	1.5	1.8	68.4	100.0
Total in 2017	5.3	7.9	4.0	4.4	4.6	7.8	1.4	1.0		0.9	1.1	4.2	6.4	51.0	100.0
Average of 2017 and 2022	3.80	7.80	3.35	4.10	4.00	7.05	1.10	0.00	0.70	0.50	0.95	2.85	4.10	59.70	100.00

In **Figure Twenty-Two**, because Electoral Area G was not divided into two subsets in 2017, the total use for 2017 was apportioned between Saltair and the Islands in the same ratio as in 2022.

The relatively small sample sizes for this site due to seasonality and inclement weather calls into question the reliability of the geographic breakdown of uses. So, the significant shifts in use for residents of Ladysmith and North Cowichan may not, in fact, be valid. However, the fact that the remaining twelve jurisdictions have very similar rates of use over that five year span appears to support the use of this data, however limited it is, in apportioning costs among CVRD jurisdictions.

Cowichan Performing Arts Centre

The vast majority of use for the Cowichan Performing Arts Centre is through ticket sales either in advance or onsite, of which the theatre has a record of the addresses and number of times participants attended the theatre. This data is accurate and reliable. The rental use is quite insignificant in terms of the overall operation and often the performers on stage are from outside the region. Unfortunately, during the pandemic, there has been virtually no scheduled events at the Performing Centre to trigger ticket purchases. This creates a problem for this analysis, as there is no use to measure. In an effort to find some data that might act as a proxy for use during the study period, the consultants asked for and received a copy of the ticket sales for 2019, which was the last year for which pre-pandemic data is available. That data is illustrated in **Figure Twenty-Three** which shows the user residency profile of CVRD users. It is interesting to note that the total use is almost the same as the usage measured in 2017 when 5445 visits were captured.

Figure Twenty-Three presents the raw user data from the ticket sales.

Figure Twenty-Three

Summary of Raw Usage Data for Cowichan Performing Arts Centre for 2019

Category of Use	Electoral Area A	Electoral Area B	Electoral Area C	Electoral Area D	City of Duncan	Electoral Area E	Electoral Area F	Electoral Area G Islands	Electoral Area G Saltair	Electoral Area H	Electoral Area I	Town of Lake Cowichan	Town of Ladysmith	Municipality of North Cowichan	Total
Ticketed Uses	281	409	356	372	400	393	69	11	85	36	37	151	197	2,420	5,217

In order to use the raw sample data in **Figure Twenty-Three**, it is first turned into percentages. These are shown in **Figure Twenty-Four**. Since the calculated percentage of uses in **Figure Twenty-Four** represent all the usage data and all the use in 2019, it can be used without any further calculations. In **Figure Twenty-Four** the data from 2017 is also shown. The breakdown in total use in 2019 is very close to the breakdown from 2017; with no differences falling outside the +/- 3% margin of sampling error. This lends credibility to the option of using of the 2019 data as a proxy for the missing 2022 data. Therefore, the two are averaged in **Figure Twenty-Four** and the result is presented by the consultants as a usable final breakdown for apportioning net public subsidy even without any usage data from 2022.

Figure Twenty-Four

Raw Usage Data for Cowichan Performing Arts Centre in Percentage Terms

Category of Use	Electoral Area A	Electoral Area B	Electoral Area C	Electoral Area D	City of Duncan	Electoral Area E	Electoral Area F	Electoral Area G Islands	Electoral Area G Saltair	Electoral Area H	Electoral Area I	Town of Lake Cowichan	Town of Ladysmith	Municipality of North Cowichan	Total
Total of All Uses in 2019	5.4	7.9	6.8	7.1	7.7	7.5	1.3	0.2	1.6	0.7	0.7	2.9	3.8	46.4	100.0
Total of All Uses in 2017	5.7	7.3	7.4	6.2	7.9	7.9	1.3	1.4		0.6	0.9	0.8	3.3	49.3	100.0
Average of 2017 and 2019	5.55	7.60	7.10	6.65	7.80	7.70	1.30	0.18	1.42	0.65	0.80	1.85	3.55	47.85	100.00

It is also worth noting that because Electoral Area G was not divided into two subsets in 2017, the total use for 2017 for all Electoral Area G uses was apportioned between Saltair and the Islands in the same ratio as in 2019.

Shawnigan Lake Community Centre

The Shawnigan Lake Community Centre raw data (representing unique visits during the study period) is used to start the analysis and is summarized in **Figure Twenty-Five**. The first row represents the actual number of drop-in visits recorded by the computer records of pre-registered visits and membership card scans. The second row represents the number of times a resident of each jurisdiction attended a program based at the Community Centre according to computer registration records. The third row represents the number of members of all groups, including school groups, that rented space at the facility and their residential jurisdictions according to a survey of those rental groups. The three rows show the residency of a total of 27,587 visits during the study period, which is about half the usage data that was collected in the 2017 study which analyzed 56,185 visits.

Figure Twenty-Five

Summary of Raw Usage Data for Shawnigan Lake Community Centre

Category of Use	Electoral Area A	Electoral Area B	Electoral Area C	Electoral Area D	City of Duncan	Electoral Area E	Electoral Area F	Electoral Area G Islands	Electoral Area G Saltair	Electoral Area H	Electoral Area I	Town of Lake Cowichan	Town of Ladysmith	Municipality of North Cowichan	Total
Drop-in Uses	270	788	232	70	0	21	0	0	0	0	0	0	0	72	1,453
Program Uses	1711	10228	840	351	33	51	8	0	0	0	0	0	1	423	13,646
Group Rental Uses	1988	7056	2716	308	0	140	0	0	0	0	0	0	0	280	12,488

In order to use the raw data in **Figure Twenty-Five**, it is first turned into percentages. That is done in **Figure Twenty-Six**.

Figure Twenty-Six

Raw Usage Data for Shawnigan Lake Community Centre in Percentage Terms

Category of Use	Electoral Area A	Electoral Area B	Electoral Area C	Electoral Area D	City of Duncan	Electoral Area E	Electoral Area F	Electoral Area G Islands	Electoral Area G Saltair	Electoral Area H	Electoral Area I	Town of Lake Cowichan	Town of Ladysmith	Municipality of North Cowichan	Total
Drop-in Uses	18.6	54.2	16.0	4.8	0.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.9	100.0
Program Uses	12.5	74.9	6.2	2.6	0.2	0.4	0.1	0.0	0.0	0.0	0.0	0.0	0.0	3.1	100.0
Group Rental Uses	15.9	56.6	21.7	2.5	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	100.0

However, the raw percentages in **Figure Twenty-Six** are not usable as the first row represents only a sample of drop-in uses, the second row represents all program registration uses, and the third row represents a sample of all rental group member uses. To properly determine how these percentages relate to total uses of the facility, they are multiplied by the proportion of use that each category of use makes up of the total facility uses during the study period.

In this case, the percentage breakdowns for the first row are multiplied by .06 to indicate that public drop-in uses make up 6% of total facility uses. The second row percentages are multiplied by .49 to indicate that program uses represent another 49% of total facility uses. The third row percentages are multiplied by .45 to represent the fact that group rentals constitute .45% of all annual facility uses according to staff at the facility. The resultant proportions represent the correct “weight” of each row, and therefore, can then be added to equal 100% of uses that are derived from each of the areas of residency. **Figure Twenty-Seven** shows that final analysis. Only **Figure Twenty-Seven** can be used as a basis for determining the residency of uses of this facility.

Figure Twenty-Seven also shows the total of all uses from the 2017 analysis and averages the two in the final row. It shows that there is some difference in the proportionate use between the two years. The most significant shifts in residency of uses (i.e. differences of +/-3% or more) are shaded in green. It is also worth noting that because Electoral Area G was not divided into two subsets in 2017, the total use for 2017 for all Electoral Area G uses was apportioned between Saltair and the Islands in the same ratio as other similar facilities.

Figure Twenty-Seven

Proportion of All Shawnigan Lake Community Centre Uses from Each Jurisdiction

Category of Use	Electoral Area A	Electoral Area B	Electoral Area C	Electoral Area D	City of Duncan	Electoral Area E	Electoral Area F	Electoral Area G Islands	Electoral Area G Saltair	Electoral Area H	Electoral Area I	Town of Lake Cowichan	Town of Ladysmith	Municipality of North Cowichan	Total
Drop-in Uses	1.1	3.2	1.0	0.3	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	6.0
Program Uses	6.1	36.7	3.0	1.3	0.1	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	1.5	49.0
Group Rental Uses	7.1	25.5	9.8	1.1	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	45.0
Total of All Uses in 2022	14.3	65.4	13.8	2.7	0.1	0.8	0.1	0.1	0.0	0.0	0.0	0.0	0.0	2.8	100.0
Total in 2017	8.4	74.3	3.5	2.2	2.1	0.7	0.1	0.6		0.0	0.2	0.2	0.0	7.7	100.0
Average of 2017 and 2022	11.35	69.85	8.65	2.45	1.10	0.75	0.10	0.00	0.30	0.00	0.10	0.10	0.00	5.25	100.00

Summary

Based on the analysis above, the consultants are able to draw a number of conclusions.

1. The methodology used for this project is sufficiently valid and reliable to be used to apportion net use of all recreation spaces within the CVRD. While no data is perfect, the consultants assert that the information available and its analysis renders results which are more reliable and valid than industry standard levels of confidence and difficult to improve upon regardless of effort. For this study, the combination of data sources with different levels of reliability are complicated to combine into a cohesive confidence level. However, the overall result for this analysis is almost certainly better than +/- 3% nineteen times out of twenty, and is likely in the range of about 2%.
2. This means that if the methodology were repeated, use by area of residency would have to shift by more than 2% for it to be reliably picked up (nineteen times out of twenty) by the process.
3. However, to put that into perspective, if an Electoral Area currently registers 2% of use of a specific recreation facility in one of the figures in this report, use by that Electoral Area would have to change by +/- 2% overall (from 0% to 4%) for the change to be relied on as statistically significant. In other words, in this example, use from one Electoral Area might have to increase by 100% from 2% to 4% for the increase to be considered to be statistically significant. This is always the problem with small percentages in these situations. Even quite accurate data doesn't easily pick up changes in very small percentages.

It is clear from the data in this report that:

- Community Centre type spaces exist in each of the five subregions so there is no incentive for any significant amount of travel away from the local Community Centre to use one in an adjacent area. Use of these spaces is predominantly by the residents closest to them.
- However, as soon as an arena ice sheet is added, the user base shifts. Ice user groups don't necessarily use the closest ice surface exclusively. In fact, they are more likely to make use of a variety of ice surfaces in the region, and to use ice wherever it is available.
- Also, as soon as an indoor pool is added to a complex (or provided independently of one) it draws from a larger geographic area. However, most residents of CVRD that use a pool, use the one that is closest to them.
- The Cowichan Performing Arts Centre is the most "regional" of the nine facilities investigated in this study. Use of this facility is distributed roughly proportionate to the population distribution, with few exceptions.
- There is some significant evidence that behaviour has shifted between that measured in 2017 and that measured in this analysis. There are more differences between the two data bases that fall outside of the +/- 3% range that might be explained by sampling differences. So, in those cases where there is significant change it is likely due to either the impacts of COVID or some more substantial and enduring shifts in demographics or leisure behaviour that might be more evident in subsequent analysis.

The following three figures summarize the information in the body of this report. **Figure Twenty- Eight** summarizes all the uses from the 2017 analysis.

Figure Twenty-Eight

Proportion of All Uses from Each Jurisdiction in 2017

Category of Use	Electoral Area A	Electoral Area B	Electoral Area C	Electoral Area D	City of Duncan	Electoral Area E	Electoral Area F	Electoral Area G Islands	Electoral Area G Saltair	Electoral Area H	Electoral Area I	Town of Lake Cowichan	Town of Ladysmith	Municipality of North Cowichan	Total
Cowichan Aquatic Centre	3.9	12.0	7.3	3.7	8.4	7.7	0.7	0.2		1.0	0.4	2.3	0.6	51.8	100.0
Frank Jameson Community Centre	0.3	1.0	0.2	1.1	0.3	0.6	0.3	6.0		11.6	0.2	1.3	63.6	13.5	100.0
Cowichan Lake Sports Arena	4.1	4.2	3.8	0.7	6.6	3.5	5.0	0.7		0.2	12.8	19.2	2.4	36.8	100.0
Fuller Lake Arena	0.2	1.0	0.5	2.1	2.3	9.6	1.3	3.9		1.0	0.3	2.5	19.2	56.1	100.0
Kerry Park Recreation Centre	19.2	34.7	15.4	9.9	2.0	2.9	0.2	0.0		0.1	0.2	0.1	0.3	15.0	100.0
Cowichan Community Centre	6.3	10.2	6.5	7.2	7.3	8.7	1.0	0.4		0.1	0.6	0.8	1.7	49.2	100.0
Cowichan Sportsplex	5.3	7.9	4.0	4.4	4.6	7.8	1.4	1.0		0.9	1.1	4.2	6.4	51.0	100.0
Cowichan Performing Arts Centre	5.7	7.3	7.4	6.2	7.9	7.9	1.3	1.4		0.6	0.9	0.8	3.3	49.3	100.0
Shawnigan Lake Community Centre	8.4	74.3	3.5	2.2	2.1	0.7	0.1	0.6		0.0	0.2	0.2	0.0	7.7	100.0

Figure Twenty-Nine summarizes all the uses from the 2022 analysis.

Figure Twenty-Nine

Proportion of All Uses from Each Jurisdiction in 2022

Category of Use	Electoral Area A	Electoral Area B	Electoral Area C	Electoral Area D	City of Duncan	Electoral Area E	Electoral Area F	Electoral Area G Islands	Electoral Area G Saltair	Electoral Area H	Electoral Area I	Town of Lake Cowichan	Town of Ladysmith	Municipality of North Cowichan	Total
Cowichan Aquatic Centre	6.9	7.2	5.6	9.7	9.2	7.4	0.7	0.1	0.3	0.1	0.6	2.2	1.5	48.5	100.0
Frank Jameson Community Centre	0.4	0.7	0.3	0.2	0.7	0.5	0.4	0.0	7.9	11.5	0.1	0.0	63.4	13.9	100.0
Cowichan Lake Sports Arena	2.1	2.1	0.8	0.4	0.6	3.3	13.3	0.0	0.4	0.3	15.4	41.9	8.6	10.8	100.0
Fuller Lake Arena	1.7	0.5	0.2	1.1	3.2	7.6	1.0	0.0	5.1	1.7	0.6	0.8	27.6	48.9	100.0
Kerry Park Recreation Centre	19.7	40.3	16.0	9.4	1.4	3.6	0.3	0.0	0.0	0.0	0.0	0.0	0.1	9.2	100.0
Cowichan Community Centre	2.3	4.2	4.4	5.8	6.7	8.8	1.5	0.0	0.9	0.6	0.5	0.9	5.0	58.3	100.0
Cowichan Sportsplex	2.3	7.7	2.7	3.8	3.4	6.3	0.8	0.0	0.4	0.1	0.8	1.5	1.8	68.4	100.0
Cowichan Performing Arts Centre (2019)	5.4	7.9	6.8	7.1	7.7	7.5	1.3	0.2	1.6	0.7	0.7	2.9	3.8	46.4	100.0
Shawnigan Lake Community Centre	14.3	65.4	13.8	2.7	0.1	0.8	0.1	0.0	0.0	0.0	0.0	0.0	0.0	2.8	100.0

Figure Thirty shows the average of the uses from the 2017 and this current analysis.

Figure Thirty

Proportion of All Uses from Each Jurisdiction Average of Past Two Analysis

Category of Use	Electoral Area A	Electoral Area B	Electoral Area C	Electoral Area D	City of Duncan	Electoral Area E	Electoral Area F	Electoral Area G Islands	Electoral Area G Saltair	Electoral Area H	Electoral Area I	Town of Lake Cowichan	Town of Ladysmith	Municipality of North Cowichan	Total
Cowichan Aquatic Centre	5.40	9.60	6.45	6.70	8.80	7.55	0.70	0.08	0.22	0.55	0.50	2.25	1.05	50.15	100.0
Frank Jameson Community Centre	0.35	0.85	0.25	0.65	0.50	0.55	0.35	0.00	6.95	11.55	0.15	0.65	63.5	13.70	100.0
Cowichan Lake Sports Arena	3.10	3.15	2.30	0.55	3.60	3.40	9.15	0.00	0.55	0.25	14.10	30.55	5.50	23.80	100.0
Fuller Lake Arena	0.95	0.75	0.35	1.60	2.75	8.60	1.15	0.00	4.50	1.35	0.45	1.65	23.40	52.50	100.0
Kerry Park Recreation Centre	19.45	37.50	15.70	9.65	1.70	3.25	0.25	0.00	0.00	0.05	0.10	0.05	0.20	12.10	100.0
Cowichan Community Centre	4.30	7.20	5.45	6.50	7.00	8.75	1.25	0.00	0.70	0.35	0.55	0.85	3.35	53.75	100.0
Cowichan Sportsplex	3.80	7.80	3.35	4.10	4.00	7.05	1.10	0.00	0.70	0.50	0.95	2.85	4.10	59.70	100.0
Cowichan Performing Arts Centre	5.55	7.60	7.10	6.65	7.80	7.70	1.30	0.18	1.42	0.65	0.80	1.85	3.55	47.85	100.0
Shawnigan Lake Community Centre	11.35	69.85	8.65	2.45	1.10	0.75	0.10	0.00	0.30	0.00	0.10	0.10	0.00	5.25	100.0

Details of Methodology

Each of the data gathering processes is outlined below. The data gathering period was stipulated in the Terms of Reference for the study to include the months of September through December in 2021 and the months of January through March of 2022. However, since the study did not commence until late in October of 2021, the survey of drop-in uses covered only five months of the seven-month data collection period.

Drop-in Visits

When a facility patron attended a session the geographic residency of that use was recorded in one of four ways.

Pre-Registered Drop-in Visits

Prior to the pandemic, users of a public drop-in session (e.g. a public skate, visit to the art gallery in the Cowichan Community Centre, or a public swim) could simply arrive and pay for a visit and attend. There were typically no records of the residence of these users. During the pandemic, a process was instituted within the region's Perfect Mind software, requesting that many or all of the participants at drop-in sessions had to pre-register for the visit and that registration included a residential address. This allowed facility managers to control limited capacity and ensure follow up tracking if needed. If the person pre-registered for the visit, it was recorded in Perfect Mind and provided to the consultants in a data file as output from Perfect Mind. This file was then used by the CVRD GIS staff specialists to review the residential address of each use and assign a jurisdiction of residency to it. The file was then sent to the consultants to be summarized and the totals inserted into tables for this report. This category of uses is assumed to be 100% accurate as all uses are recorded automatically and no sampling is involved.

Membership Paid Drop-in Visits

Since one option for payment for drop-in uses at many of the regionally significant recreation facilities is the purchase of a membership, those users who exercise this option carry a membership card which is “swiped” at the facility control point to automatically allow access. Such “swipes” assign the use to a specific membership card for which the system has a residential address. The Perfect Mind software can then output files of these uses which occurred during the study period. Those files were then reviewed by the CVRD GIS staff where a jurisdiction was assigned to each use. These files were then forwarded to the consultants for summation and insertion into tables in this report. This category of uses is assumed to be 100% accurate as all uses are recorded automatically and no sampling is involved.

Public School Class Uses

There is an extensive amount of use of many of the regionally significant recreation facilities by school classes. For these uses, the school pre-arranges a time slot at a facility, arrives in a school bus with a class of students, all of which use the facility. For purposes of this Facility Use Analysis study, the two school districts with schools in the CVRD (ie. SD68 and SD79) provided the CVRD the catchment areas for all schools that used any of the regionally significant recreation facilities. These catchment areas were then used by the CVRD GIS staff to assign jurisdictions to each school. The catchment areas were then cross referenced with facility schedules to determine which schools used which facilities, the number of students that used each facility during each scheduled use. These files were then provided to the consultants for summation and insertion into the tables in this report. This process doesn't actually track exactly which student used which facility but does assume that the likelihood of facility use by a school reflects where that school's student body lives. While it is difficult to calculate a specific confidence level for this category of use, it is considered to be quite accurate and makes up a small proportion of all uses. So, any small errors in the assignment of school use to jurisdictions are considered to be inconsequential to the overall final totals in the tables.

Drop-in User Survey

The fourth and final process for tracking drop-in uses was a survey of users at each facility during drop-in sessions.

A variety of days of the week and times of day were chosen at each of the surveyed facilities in consultation with the facility staff. Researchers (i.e. students in the recreation and tourism program at Vancouver Island University) were then trained to collect the data and assigned to each of the identified sessions. They set up a large sign that illustrated what they were doing and approached all parties as they were screened at the entry to the facility in some cases, or as they exited after the use in other cases. The researchers first qualified each party as users who were dropping in and not already registered as a user, or paying by membership card. They then asked three questions.

1. How many members of the party used the facility (e.g. changed into a bathing suit, put on skates, used equipment in the associated fitness centre, or came to the site for a drop-in use of the dry floor spaces).
2. How many of those used the facility for drop-in use (i.e. a use that was not part of a registered program or group rental),
3. The detailed residential address of the users.

The researchers found that they were able to approach the vast majority of parties entering or leaving the facility. They missed approaching about 5% of the parties during particularly busy periods, which equated to less than 2% of parties missed overall. The vast majority of parties that were approached were not surveyed as they had indicated during the qualification process that they had pre-registered and/or had paid by membership, so that their use would already be recorded and residence could be determined using digital data. The remainder agreed to answer all three questions. About 10% of the qualified users declined to participate, primarily due to lack of time.

The survey realized 750 completed user questionnaires that had physical addresses that were then forwarded to CVRD GIS staff to be coded to one of the jurisdictions in the CVRD. There were more completions but some were out of the region or had addresses that could not be reconciled to a specific jurisdiction.

The list of sessions during which users were surveyed is included below. The survey period for this process spanned the months of November 2021 through March of 2022. While this does not include summer use of spaces, there is no reason to indicate that the geographical makeup of users during the survey period would be atypical of users or uses during other months of the year. It is possible that the winter of 2021-2022 represents use that is atypical of other years due to the pandemic. However, the consultants can't determine that. Therefore, the consultants believe that this methodology, which solicits residency from a large sample of facility users from each facility, coupled with the completely accurate sources listed previously, quite reliably represents all drop-in users at each site during the timeframe of the study.

Program Registration Database

The jurisdictions operating the facilities within this study have, until recently, utilized a sophisticated program registration system called CLASS. This system records and reports on all registrations and registrants including their detailed address. Therefore, this information is available in report form and can be sorted by facility and session. All programs for the full year from May 2016 to May 2017 were used in the analysis.

The resultant list of program registrations accounted for 133,197 user visits to all nine regionally significant recreation facilities.

Group Rental Uses

All significant user groups that rented the facilities within the seven month data collection period were identified by the respective facility staff. The primary contact for each group was sent a letter requesting that person to provide a list of all members along with the residential address for each member. This proved to be a somewhat more involved process than it was first thought, as many groups either did not have, or were in the process of updating their lists. Repeated attempts were made to solicit all significantly sized groups to the point where information was obtained from any groups that were of significant size. These lists were then consolidated by the consultant into a database that the CVRD GIS staff were able to run through locational software that positioned each residential address within one of the thirteen political jurisdictions, a First Nations Reserve, or from outside the regional district. The coded database was then summarized and used by the consultants to prepare the tables in this report.

Overall, information was received from 65 user groups which collectively represented over 5000 members of groups that rented space in indoor pools, arenas, community centres and sportsfields. Those members had a combined total of over 100,000 visits to all nine regionally significant recreation facilities.

So, in total, the database for all three categories of use of all nine regionally significant recreation facilities has 314,422 visits from users that resided in the CVRD jurisdictions that would provide tax support.

Schedule for drop-in survey

Survey crews visited various facilities to undertake exit surveys of users that had visited each facility on a drop-in basis and had not been recorded in computer data bases due to pre-registration of that use or payment via a membership card swipe. The survey sessions are shown in **Figure A - 1**.

Figure A - 1

Exist Survey Sessions

Facility	Dates	Day	Survey Time
Cowichan Aquatic Centre	12-Dec	Sunday	1:00 to 2:30
	09-Jan	Sunday	1:00 to 2:30
	15-Jan	Saturday	12:00 to 2:00
	12-Feb	Saturday	12:00 to 2:00
	20-Feb	Sunday	1:00 to 2:30
Cowichan Lake Sports Arena	23-Jan	Sunday	5:30 to 8:00pm
	29-Jan	Saturday	6:30 pm- 8 pm
	19-Feb	Saturday	6:30 pm- 8 pm
Cowichan Community Centre	18-Dec	Saturday	12:00 -2:00
	29-Jan	Saturday	1:00-2:30
	04-Feb	Friday	9:00-10:15 am
	13-Feb	Sunday	2:00 to 4:00
	19-Feb	Saturday	1:00-2:30
	12-Mar	Saturday	1:00 -2:30

Facility	Dates	Day	Survey Time
Cowichan Sportsplex	22-Jan	Saturday	10:00 to 12:00
	23-Jan	Sunday	10:00 to 2:00
	06-Feb	Sunday	12pm to 2p
	12-Feb	Saturday	9:30 to 11:30 am
	20-Feb	Sunday	9:30 to 12:30 pm
	26-Feb	Saturday	11:00 to 2:00pm
	13-Mar	Sunday	10:00 to 12:00
	19-Mar	Saturday	1:00 to 3:00
	20-Mar	Sunday	1:00 to 3:00
	18-Mar	Friday	1:00 to 3:00
	25-Mar	Friday	1:00 to 3:00
	26-Mar	Saturday	10:00 to 12:00
	27-Mar	Sunday	10:00 to 12:00
Frank Jameson Community Centre	14-Dec	Tues	12 to 2:30
	21-Jan	Friday	630 to 8:00
	22-Jan	Saturday	3:00 to 4:00
	11-Feb	Friday	630 to 8:00
	26-Feb	Saturday	3:00 to 4:00
	11-Mar	Friday	630 to 8:00
Fuller Lake Arena	18-Dec	Saturday	3:00to 4:30
	09-Jan	Sunday	3:15 to 4:00 pm
	14-Jan	Friday	7:00 8:00 pm
	06-Feb	Sunday	3:15 to 4:00 pm
	18-Feb	Friday	7:00 8:00 pm
	11-Mar	Friday	7:00 8:00 pm
Kerry Park Recreation Centre	15-Jan	Saturday	7:30 pm to 10:00pm

Copy of Poster to Advertise Drop-in Survey (posted at each survey venue)

User Group Survey

Messages were sent to 114 Organizations that had rented space in any of the nine regionally significant recreation facilities more than once asking for a list of member addresses. Follow up messages were sent to groups that failed to respond with the required information. It was clear that names were not to be submitted simply resident addresses. Information was submitted by 65 of those groups. Most of the largest groups that had rented the most space in the regional facilities submitted member address lists. The information was then cross referenced with contract information to determine the number of uses by each group in each facility and that was then translated into residential jurisdictions by the CVRD GIS Department. In **Figure A - 2**, the list of groups surveyed is provided along with the facility primarily used. Group names that are shaded in green submitted requested data.

Figure A - 2

Groups That Rented Space in Facilities

Cowichan Lake Arena	Cowichan Lake Trail Blazers Society
Cowichan Lake Arena	Cowichan Valley Minor Hockey Association
Cowichan Lake Arena	EH
Cowichan Lake Arena	Francis Kelsey Secondary School - CLR
Cowichan Lake Arena	Fuller Lake Old Flyers - CLR
Cowichan Lake Arena	Fuller Lake Skating Club
Cowichan Lake Arena	Fuller Lake Vintage Flyers
Cowichan Lake Arena	Island Outlaws Hockey
Cowichan Lake Arena	Lake Cowichan Bombers
Cowichan Lake Arena	Lake Cowichan District Minor Hockey Association
Cowichan Lake Arena	Lake Cowichan Kraken Jr B Team
Cowichan Lake Arena	Lake Cowichan Minor Baseball
Cowichan Lake Arena	Lake Cowichan School
Cowichan Lake Arena	North Island Silvertips AAA Program
Cowichan Lake Arena	South Island Royals
Cowichan Lake Arena	The Bears
Cowichan Lake Arena	Vancouver Island Female Hockey AAA Seals
Cowichan Lake Arena	Westcoast Wild Hockey Academy
Cowichan Lake Arena	Whalers

Cowichan Aquatic Centre	Brentwood College
Cowichan Aquatic Centre	Cowichan Secondary School
Cowichan Aquatic Centre	CV Breakers
Cowichan Aquatic Centre	Duncan Swim Team Society
Cowichan Aquatic Centre	MNC - RCMSAR 34
Cowichan Aquatic Centre	Parkside Academy Society
Cowichan Aquatic Centre	Special Olympics Cowichan Valley
Frank Jameson Community Centre	TOL BC Emergency Health Services
Frank Jameson Community Centre	TOL Ceevac's Roadrunners Society
Frank Jameson Community Centre	TOL Cinnabar Valley Elementary School
Frank Jameson Community Centre	TOL Community Link
Frank Jameson Community Centre	TOL Ladysmith Chemainus Swim Club
Frank Jameson Community Centre	TOL Ladysmith Intermediate School
Frank Jameson Community Centre	TOL Ladysmith Kinsmen Club
Frank Jameson Community Centre	TOL Ladysmith Lions Club
Frank Jameson Community Centre	TOL Ladysmith Rotary Club
Frank Jameson Community Centre	TOL Learn & Laugh
Frank Jameson Community Centre	TOL Oceanview Community Church

Frank Jameson Community Centre	TOL Penelakut Tribe
Frank Jameson Community Centre	TOL Poetry in M'Ocean Dragon Boaters
Frank Jameson Community Centre	TOL Stz'uminus First Nation
Frank Jameson Community Centre	TOL Sundown Diving
Frank Jameson Community Centre	TOL VanIsle Masters Artistic Swimming
Frank Jameson Community Centre	TOL Western Maritime Institute
Fuller Lake Arena	Cowichan Minor Hockey
Fuller Lake Arena	Fuller Lake Skate Club
Fuller Lake Arena	TOL Stz'uminus Community School
Fuller Lake Arena	Aces Hockey
Fuller Lake Arena	Bandits Hockey
Fuller Lake Arena	Devils Hockey
Fuller Lake Arena	Highfield Hockey
Fuller Lake Arena	Hornets Hockey
Fuller Lake Arena	Ice Hogs Hockey
Fuller Lake Arena	Ladysmith Lightning Hockey
Fuller Lake Arena	Old Flyers Hockey
Fuller Lake Arena	Possum Hockey
Fuller Lake Arena	Shooters Hockey
Fuller Lake Arena	Spurs Hockey
Fuller Lake Arena	Vintage Hockey
Fuller Lake Arena	Viper Hockey
Fuller Lake Arena	Westcoast Wild Hockey Academy
Cowichan Community Centre	Alexander Elementary School Strong Start Program
Cowichan Community Centre	Capitals Junior A Team

Cowichan Community Centre	Cowichan Field Hockey Association
Cowichan Community Centre	Cowicha Secondary School - Arena Usage
Cowichan Community Centre	Cowichan Secondary School
Cowichan Community Centre	Cowichan Valley Chiefs Hockey
Cowichan Community Centre	Cowichan Valley Minor Hockey Association
Cowichan Community Centre	Cowichan Valley Oldtimers/Old Hustlers
Cowichan Community Centre	Duncan Badminton Club
Cowichan Community Centre	Duncan Skating Club
Cowichan Community Centre	Freelance Strata Services
Cowichan Community Centre	Duncan Jazzercise
Cowichan Community Centre	Maple Bay Elementary
Cowichan Community Centre	Saints Hockey Club
Cowichan Community Centre	Safer Food Education
Cowichan Community Centre	TruKrew Fitness
Kerry Park Recreation Centre	Beggs Edge Hockey
Kerry Park Recreation Centre	Bench Elementary School
Kerry Park Recreation Centre	Brentwood College
Kerry Park Recreation Centre	Bulldogs Hockey

Kerry Park Recreation Centre	Discovery Elementary School
Kerry Park Recreation Centre	Ecole Cobble Hill Elementary School
Kerry Park Recreation Centre	Evergreen School
Kerry Park Recreation Centre	Frances Kelsey Secondary School
Kerry Park Recreation Centre	George Bonner School
Kerry Park Recreation Centre	Hockey Evolution
Kerry Park Recreation Centre	Kerry Park Curling Club
Kerry Park Recreation Centre	Kerry Park Islanders Jr B Hockey
Kerry Park Recreation Centre	Kerry Park Lightnings Hockey
Kerry Park Recreation Centre	Kerry Park Minor Hockey
Kerry Park Recreation Centre	Kerry Park Monday Senior Mixed Curling
Kerry Park Recreation Centre	Kerry Park Old Islanders
Kerry Park Recreation Centre	Kerry Park Senior Select Curling
Kerry Park Recreation Centre	Kerry Park Skating Club
Kerry Park Recreation Centre	Kerry Park Sunday Hangover Curling
Kerry Park Recreation Centre	Kerry Park Thunder Hockey
Kerry Park Recreation Centre	Kerry Park Thursday Ladies Curling
Kerry Park Recreation Centre	Kerry Park Tuesday Ladies League

Kerry Park Recreation Centre	Kerry Park Tuesday Night Mixed Curling
Kerry Park Recreation Centre	Kerry Park Wednesday Men's Curling
Kerry Park Recreation Centre	Old Timers Hockey
Kerry Park Recreation Centre	Pope Cyrillos the Six Coptic Christian Orthodox Church
Kerry Park Recreation Centre	Serenity Tai Chi
Kerry Park Recreation Centre	St John's Academy
Kerry Park Recreation Centre	TruKrew Fitness
Kerry Park Recreation Centre	Tuesday Bridge
Kerry Park Recreation Centre	Westcoast Wild Hockey Academy
Shawnigan Lake Community Centre	Barre None Dance
Shawnigan Lake Community Centre	Cowichan South Art Guild
Shawnigan Lake Community Centre	Hall Constructors (floor hockey rental)
Shawnigan Lake Community Centre	LT Dance
Shawnigan Lake Community Centre	Navigate NIDES

Details of All Facility Use Data

The following tables summarize all three categories of usage data collected as part of this study. Key to Column headings in the tables in this Appendix:

The letters relate to the corresponding Electoral Areas. However, Electoral Area G has been separated into two columns, one for the Islands (GI) and one for Saltair (G).

City of Duncan is Du

First Nations (i.e. residents of Reserve Lands) are FN

Town of Lake Cowichan is LC

Town of Ladysmith is LD

Municipality of North Cowichan is NC

Visits from those living outside of the CVRD are under O

Table B - 1

Rental Category of Visits to Regionally Significant Recreation Facilities

Facility/ Area	A	B	C	D	DU	E	F	FN	GI	G	H	I	LC	LD	NC	O	Grand Total
Cowichan Aquatic Centre	2,527	1,789	1,294	1,986	941	1,192	126	68	0	0	0	62	186	493	6,302	126	17,093
Cowichan Community Centre	527	1,144	745	1,410	2,689	4,158	445	146	0	434	319	79	367	3,221	24,761	1,979	42,423
Cowichan Lake Sports Arena	259	188	98	23	60	390	1,230	72	0	48	36	1,185	3,884	1,049	1,266	2,587	12,376
Cowichan Sportsplex	132	418	154	213	132	323	44	44	0	22	0	44	88	103	3,469	169	5,355
Frank Jameson Community Centre	32	137	96	48	137	112	162	23	0	505	697	-	16	3,260	1,364	2,243	8,831
Fuller Lake Arena	390	155	61	260	741	1,935	285	0	0	947	443	56	211	7,310	10,786	1,805	25,385
Kerry Park Recreation Centre	6,803	16,518	7,311	3,951	633	1,585	141	124	0	0	0	10	4	94	3,790	2,912	43,877
Shawnigan Lake Community Centre	1,988	7,056	2,716	308	0	140	0	0	0	0	0	0	0	0	280	56	12,544
Grand Total	12,658	27,404	12,474	8,199	5,333	9,836	2,432	477	0	1,957	1,495	1,437	4,756	15,531	52,019	11,876	167,884

Table B - 2

Rental Category of Visits to Regionally Significant Recreation Facilities Net of First Nations and Visitors from Outside the CVRD

Facility/ Area	A	B	C	D	DU	E	F	FN	GI	G	H	I	LC	LD	NC	O	Grand Total
Cowichan Aquatic Centre	2,527	1,789	1,294	1,986	941	1,192	126	0	0	0	62	186	493	6,302	16,898	126	17,093
Cowichan Community Centre	527	1,144	745	1,410	2,689	4,158	445	0	434	319	79	367	3,221	24,761	40,299	1,979	42,423
Cowichan Lake Sports Arena	259	188	98	23	60	390	1,230	0	48	36	1,185	3,884	1,049	1,266	9,716	2,587	12,376
Cowichan Sportsplex	132	418	154	213	132	323	44	0	22	0	44	88	103	3,469	5,142	169	5,355
Frank Jameson Community Centre	32	137	96	48	137	112	162	0	505	697	0	16	3,260	1,364	6,566	2,243	8,831
Fuller Lake Arena	390	155	61	260	741	1,935	285	0	947	443	56	211	7,310	10,786	23,580	1,805	25,385
Kerry Park Recreation Centre	6,803	16,518	7,311	3,951	633	1,585	141	0	0	0	10	4	94	3,790	40,840	2,912	43,877
Shawnigan Lake Community Centre	1,988	7,056	2,716	308	0	140	0	0	0	0	0	0	0	280	12,488	56	12,544
Grand Total	12,658	27,404	12,474	8,199	5,333	9,836	2,432	0	1,957	1,495	1,437	4,756	15,531	52,019	155,530	11,876	167,884

Table B - 3

Rental Uses Net of First Nations and Visits from Outside the CVRC Expressed as in Percentage Terms

	A	B	C	D	DU	E	F	GI	G	H	I	LC	LD	NC	Grand Total
Cowichan Aquatic Centre	15.0	10.6	7.7	11.7	5.6	7.1	0.7	0.0	0.0	0.0	0.4	1.1	2.9	37.2	100.0
Cowichan Community Centre	1.3	2.8	1.8	3.5	6.7	10.3	1.1	0.0	1.1	0.8	0.2	0.9	8.0	61.5	100.0
Cowichan Lake Sports Arena	2.7	1.9	1.0	0.2	0.6	4.0	12.7	0.0	0.5	0.4	12.2	40.0	10.8	13.0	100.0
Cowichan Sportsplex	2.6	8.1	3.0	4.1	2.6	6.3	0.9	0.0	0.4	0.0	0.9	1.7	2.0	67.4	100.0
Frank Jameson Community Centre	0.5	2.1	1.5	0.7	2.1	1.7	2.5	0.0	7.7	10.6	0.0	0.2	49.6	20.8	100.0
Fuller Lake Arena	1.7	0.7	0.3	1.1	3.1	8.2	1.2	0.0	4.0	1.9	0.2	0.9	31.0	45.7	100.0
Kerry Park Recreation Centre	16.7	40.4	17.9	9.7	1.6	3.9	0.3	0.0	0.0	0.0	0.0	0.0	0.2	9.3	100.0
Shawnigan Lake Community Centre	15.9	56.6	21.7	2.5	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	100.0
Grand Total	12,658	27,404	12,474	8,199	5,333	9,836	2,432	0	1,957	1,495	1,437	4,756	15,531	52,019	155,530

Table B - 4

Program Category of Visits to Regionally Significant Recreation Facilities

	A	B	C	D	DU	E	F	FN	GI	G	H	I	LC	LD	NC	O	Grand Total
Cowichan Aquatic Centre	433	986	515	546	422	528	64	10	0	40	9	60	122	101	4,429	204	8,469
Cowichan Community Centre	172	348	485	563	359	388	140	13	4	49	35	69	84	136	2,812	219	5,876
Cowichan Lake Sports Arena	0	45	2	26	34	16	427	0	0	6	0	833	1,465	121	0	0	2,975
Frank Jameson Community Centre	144	142	25	26	65	44	14	23	0	981	1,333	0	18	8,070	2,358	1,923	15,166
Fuller Lake Arena	15	7	5	54	49	0	4	24	0	80	50	0	0	365	619	46	1,318
Kerry Park Recreation Centre	2,598	4,346	2,019	981	179	231	5	0	0	22	14	0	15	111	781	299	11,601
Shawnigan Lake Community Centre	1,711	10,228	840	351	33	51	8	0	0	0	0	0	0	1	423	60	13,706
Grand Total	5,073	16,102	3,891	2,547	1,141	1,258	662	70	4	1,178	1,441	962	1,704	8,905	11,422	2,751	59,111

Table C - 5

Program Category of Visits to Regionally Significant Recreation Facilities Net of First Nations and Visits from Outside the CVRD

	A	B	C	D	DU	E	F	GI	G	H	I	LC	LD	NC	Grand Total
Cowichan Aquatic Centre	433	986	515	546	422	528	64	0	40	9	60	122	101	4,429	8,255
Cowichan Community Centre	172	348	485	563	359	388	140	4	49	35	69	84	136	2,812	5,644
Cowichan Lake Sports Arena	0	45	2	26	34	16	427	0	6	0	833	1,465	121	0	2,975
Frank Jameson Community Centre	144	142	25	26	65	44	14	0	981	1,333	0	18	8,070	2,358	13,220
Fuller Lake Arena	15	7	5	54	49	0	4	0	80	50	0	0	365	619	1,248
Kerry Park Recreation Centre	2,598	4,346	2,019	981	179	231	5	0	22	14	0	15	111	781	11,302
Shawnigan Lake Community Centre	1,711	10,228	840	351	33	51	8	0	0	0	0	0	1	423	13,646
Grand Total	5,073	16,102	3,891	2,547	1,141	1,258	662	4	1,178	1,441	962	1,704	8,905	11,422	56,290

Table C - 6

Program Category of Visits Expressed as a Percentage

	A	B	C	D	DU	E	F	GI	G	H	I	LC	LD	NC	Grand Total
Cowichan Aquatic Centre	5.2	11.9	6.2	6.6	5.1	6.4	0.8	0.0	0.5	0.1	0.7	1.5	1.2	53.8	100.0
Cowichan Community Centre	3.0	6.2	8.6	10.0	6.4	6.9	2.5	0.1	0.9	0.6	1.2	1.5	2.4	49.7	100.0
Cowichan Lake Sports Arena	0.0	1.5	0.1	0.9	1.1	0.5	14.4	0.0	0.2	0.0	28.0	49.2	4.1	0.0	100.0
Frank Jameson Community Centre	1.1	1.1	0.2	0.2	0.5	0.3	0.1	0.0	7.4	10.1	0.0	0.1	61.1	17.8	100.0
Fuller Lake Arena	1.2	0.6	0.4	4.3	3.9	0.0	0.3	0.0	6.4	4.0	0.0	0.0	29.2	49.7	100.0
Kerry Park Recreation Centre	23.0	38.5	17.9	8.7	1.6	2.0	0.0	0.0	0.2	0.1	0.0	0.1	1.0	6.9	100.0
Shawnigan Lake Community Centre	12.5	74.9	6.2	2.6	0.2	0.4	0.1	0.0	0.0	0.0	0.0	0.0	0.0	3.1	100.0
Grand Total	9.0	28.6	6.9	4.5	2.0	2.2	1.2	0.0	2.1	2.6	1.7	3.0	15.8	20.4	100.0

Table C - 7

Drop-in Category of Visits to Regionally Significant Recreation Facilities

	A	B	C	D	DU	E	F	FN	GI	G	H	I	LC	LD	NC	O	Grand Total
Cowichan Aquatic Centre	1,523	2,082	2,005	4,026	5,189	3,434	254	92	29	159	107	310	1,233	354	23,494	734	45,025
Cowichan Community Centre	159	211	194	193	327	359	26	1	0	17	1	2	10	26	2,759	158	4,443
Cowichan Lake Sports Arena	4	40	10	12	12	17	226	1	0	1	0	327	676	20	107	59	1,512
Cowichan Sportsplex	0	4	0	1	12	7	0	8	0	0	1	0	0	0	84	13	130
Cowichan Performing Arts Centre	281	409	356	372	400	393	69	25	11	85	36	37	151	197	2,420	1,054	6,296
Frank Jameson Community Centre	0	26	0	3	76	32	4	1	1	1,419	2,208	12	3	12,093	1,744	1,953	19,575
Fuller Lake Arena	25	0	0	5	64	139	3	0	1	218	2	50	8	177	1,322	335	2,349
Kerry Park Recreation Centre	1,940	2,637	188	579	16	283	16	36	0	3	0	0	12	4	561	273	6,548
Shawnigan Lake Community Centre	270	788	232	70	0	21	0	0	0	0	0	0	0	0	72	96	1,549
Grand Total	4,202	6,197	2,985	5,261	6,096	4,685	598	164	42	1,902	2,355	738	2,093	12,871	32,563	4,675	87,427

Table C - 8

Drop-in Category of Visits to Regionally Significant Recreation Facilities Net of First Nations and Visits from Outside the CVRD

	A	B	C	D	DU	E	F	GI	G	H	I	LC	LD	NC	Grand Total
Cowichan Aquatic Centre	1,523	2,082	2,005	4,026	5,189	3,434	254	29	159	107	310	1,233	354	23,494	44,199
Cowichan Community Centre	159	211	194	193	327	359	26	0	17	1	2	10	26	2,759	4,284
Cowichan Lake Sports Arena	4	40	10	12	12	17	226	0	1	0	327	676	20	107	1,452
Cowichan Sportsplex	0	4	0	1	12	7	0	0	0	1	0	0	0	84	109
Cowichan Performing Arts Centre	281	409	356	372	400	393	69	11	85	36	37	151	197	2,420	5,217
Frank Jameson Community Centre	0	26	0	3	76	32	4	1	1,419	2,208	12	3	12,093	1,744	17,621
Fuller Lake Arena	25	0	0	5	64	139	3	1	218	2	50	8	177	1,322	2,014
Kerry Park Recreation Centre	1,940	2,637	188	579	16	283	16	0	3	0	0	12	4	561	6,239
Shawnigan Lake Community Centre	270	788	232	70	0	21	0	0	0	0	0	0	0	72	1,453
Grand Total	4,202	6,197	2,985	5,261	6,096	4,685	598	42	1,902	2,355	738	2,093	12,871	32,563	82,588

Table C -9

Drop-in Category of Visits Expressed as a Percentage

	A	B	C	D	DU	E	F	GI	G	H	I	LC	LD	NC	Grand Total
Cowichan Aquatic Centre	3.4	4.7	4.5	9.1	11.7	7.8	0.6	0.1	0.4	0.2	0.7	2.8	0.8	53.2	100.0
Cowichan Community Centre	3.7	4.9	4.5	4.5	7.7	8.4	0.6	0.0	0.4	0.0	0.1	0.2	0.6	64.4	100.00
Cowichan Lake Sports Arena	0.3	2.8	0.7	0.8	0.8	1.1	15.6	0.0	0.1	0.0	22.5	46.5	1.4	7.4	100.0
Cowichan Sportsplex	0.0	3.7	0.0	0.9	11.0	6.4	0.0	0.0	0.0	0.9	0.0	0.0	0.0	77.1	100.0
Cowichan Performing Arts Centre	5.4	7.9	6.8	7.1	7.7	7.5	1.3	0.2	1.6	0.7	0.7	2.9	3.8	46.4	100.0
Frank Jameson Community Centre	0.0	0.2	0.0	0.0	0.4	0.2	0.0	0.0	8.1	12.5	0.1	0.0	68.6	9.9	100.0
Fuller Lake Arena	1.2	0.0	0.0	0.2	3.2	6.9	0.1	0.0	10.8	0.1	2.5	0.4	8.8	65.6	100.0
Kerry Park Recreation Centre	31.1	42.3	3.0	9.3	0.3	4.5	0.3	0.0	0.0	0.0	0.0	0.2	0.0	9.0	100.0
Shawnigan Lake Community Centre	18.6	54.2	16.0	4.8	0.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.9	100.0
Grand Total	4,202	6,197	2,985	5,261	6,096	4,685	598	42	1,902	2,355	738	2,093	12,871	32,563	82,588

