



Children's Oral Health Survey 2009-2010

Calgary Zone

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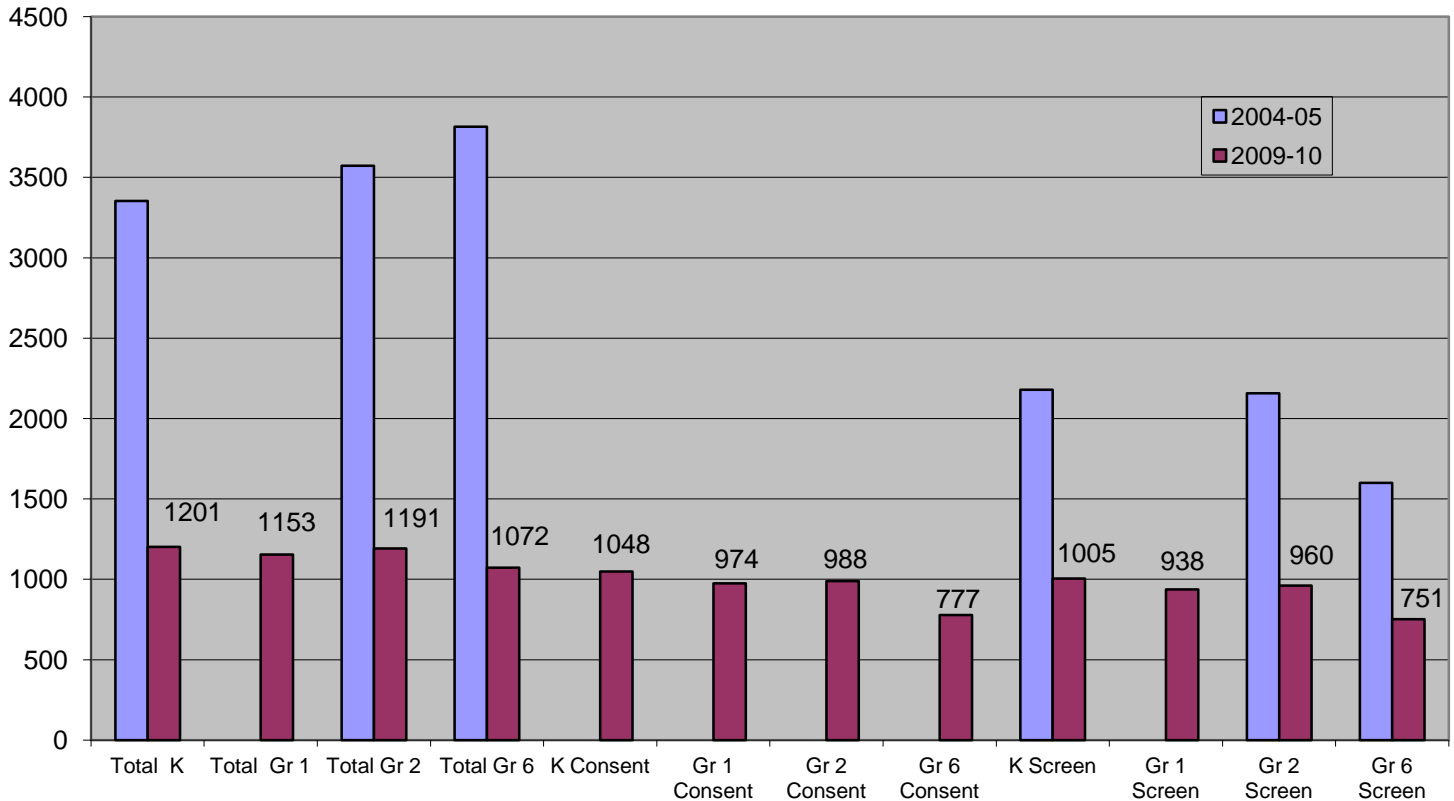
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Children's Oral Health Survey – Calgary Zone

1) Participation in Survey

1. Consent and screening

Figure 1.11



(brackets represent 2004-05 results)

Table 1.1

Grade	% Consent of Total Children	% Screened of Total Children	% Screened of Consented Children	# Screened (n)
K	87% (N/A)	84% (65%)	96% (N/A)	1005
1	84% (N/A)	81% (N/A)	96% (N/A)	938
2	83% (N/A)	81% (60%)	97% (N/A)	960
6	72% (N/A)	70% (42%)	97% (N/A)	751

2. Average age of participants

Table 1.2

Average age by Grade (mean years)	Kindergarten	4.99
	Grade 1	6.00
	Grade 2	7.02
	Grade 6	11.12

3. Dental Insurance

Responses to consent question "Do you have dental treatment coverage?"

Table 1.3

	Yes	No	Unknown
K	69%	15%	16%
Grade 1	66%	16%	18%
Grade 2	63%	16%	21%
Grade 6	53%	15%	31%

4. Additional data

a. Calgary schools: neighbourhood income status

See Appendix 3 for more information on sample selection and quartile ranges.

Table 1.4

Income range	Children Screened n (%)
Q1: <\$55,000	299 (12.6)
Q2: \$55,001 - \$65,000	557 (23.5)
Q3: \$65,001 - \$83,500	731 (30.8)
Q4: >\$83,500	786 (33.1)
Total	2373 (100)

b. Calgary schools: Number of children by grade and SES

Although school selection was randomized, participation in survey varies by schools. Note: fewer children were screened in < \$55,000 group.

Table 1.5

	< \$55,000 n (%)	\$55,001 – \$65,000 n (%)	\$65,001 – \$83,500 n (%)	>\$83,500 n (%)	Total n (%)
K	67 (22.4)	191 (34.3)	187 (25.6)	218 (27.7)	663 (27.9)
Gr 1	75 (25.1)	139 (25.0)	149 (20.4)	213 (27.1)	576 (24.3)
Gr 2	65 (21.7)	112 (20.1)	182 (24.9)	197 (25.1)	556 (23.4)
Gr 6	92 (30.8)	115 (20.6)	213 (29.1)	158 (20.1)	578 (24.4)
Total (%)	299 (100)	537 (100)	731 (100)	786 (100)	2373 (100)

2) Health Outcomes/Disease Levels

1. Dental Caries

deft- Primary dentition; sum of decayed, extracted, filled primary teeth

DMFT- Permanent dentition; sum of decayed, missing, filled permanent teeth

Note: Confidence intervals are reflected to the 95th percentile.

Figure 2.11

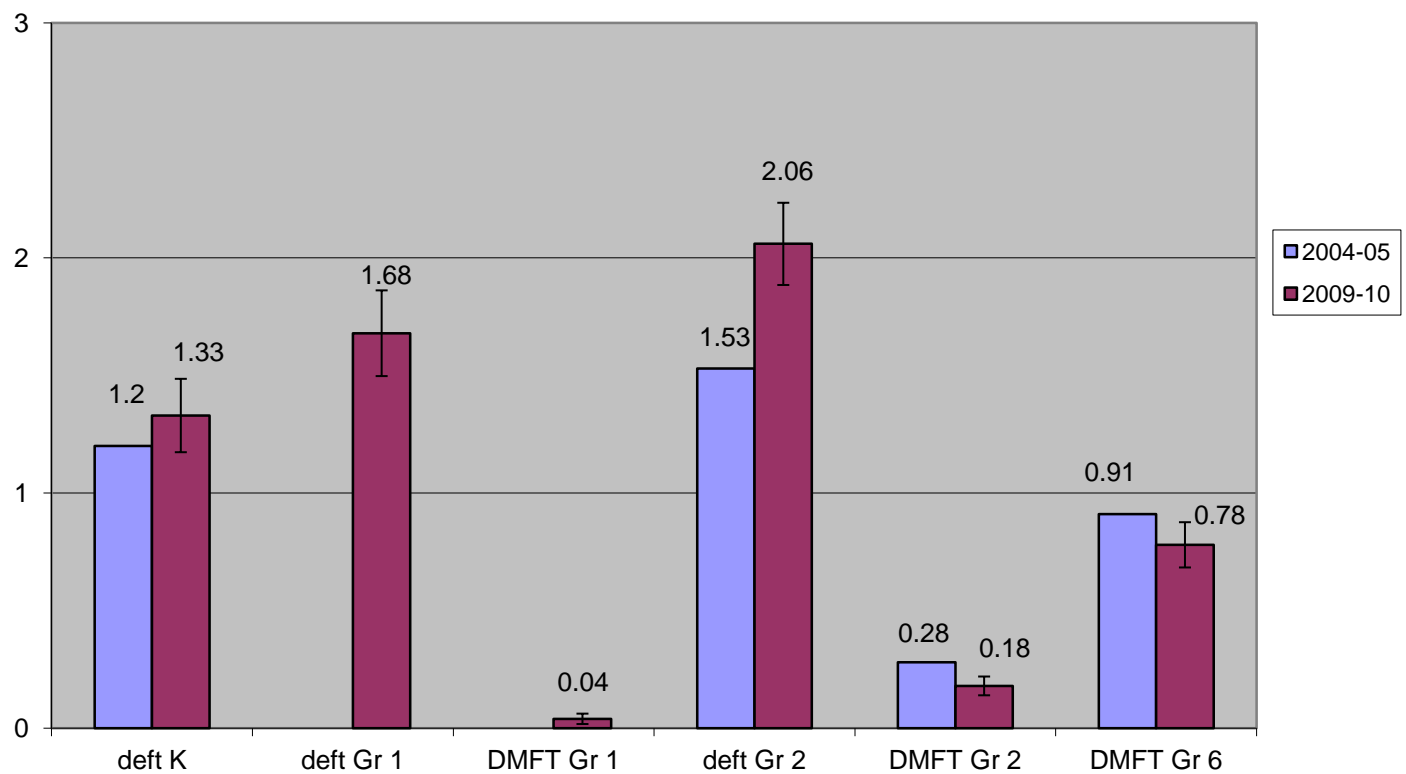


Table 2.1

	deft K	deft Gr 1	DMFT Gr 1	deft Gr 2	DMFT Gr 2	DMFT Gr 6
2004-05	1.2	N/A	N/A	1.53	0.28	0.91
2009-10	1.33	1.68	0.04	2.06	0.18	0.78
95% Confidence	(+/-0.16)	(+/-0.18)	(+/-0.02)	(+/-0.17)	(+/-0.04)	(+/-0.10)
Standard Deviation	(+/-2.52)	(+/-2.85)	(+/-0.35)	(+/-2.77)	(+/-0.63)	(+/-1.35)

2. Disease levels for Children with Dental Caries

deft & DMFT scores are averages and as such will be influenced by the many children who have no dental decay.

The following data reflect the average deft/DMFT scores when only children with decay/decay history are considered and all those who are decay free are taken out of the averaging
 Note: Confidence intervals are reflected to the 95th percentile.

Figure 2.12

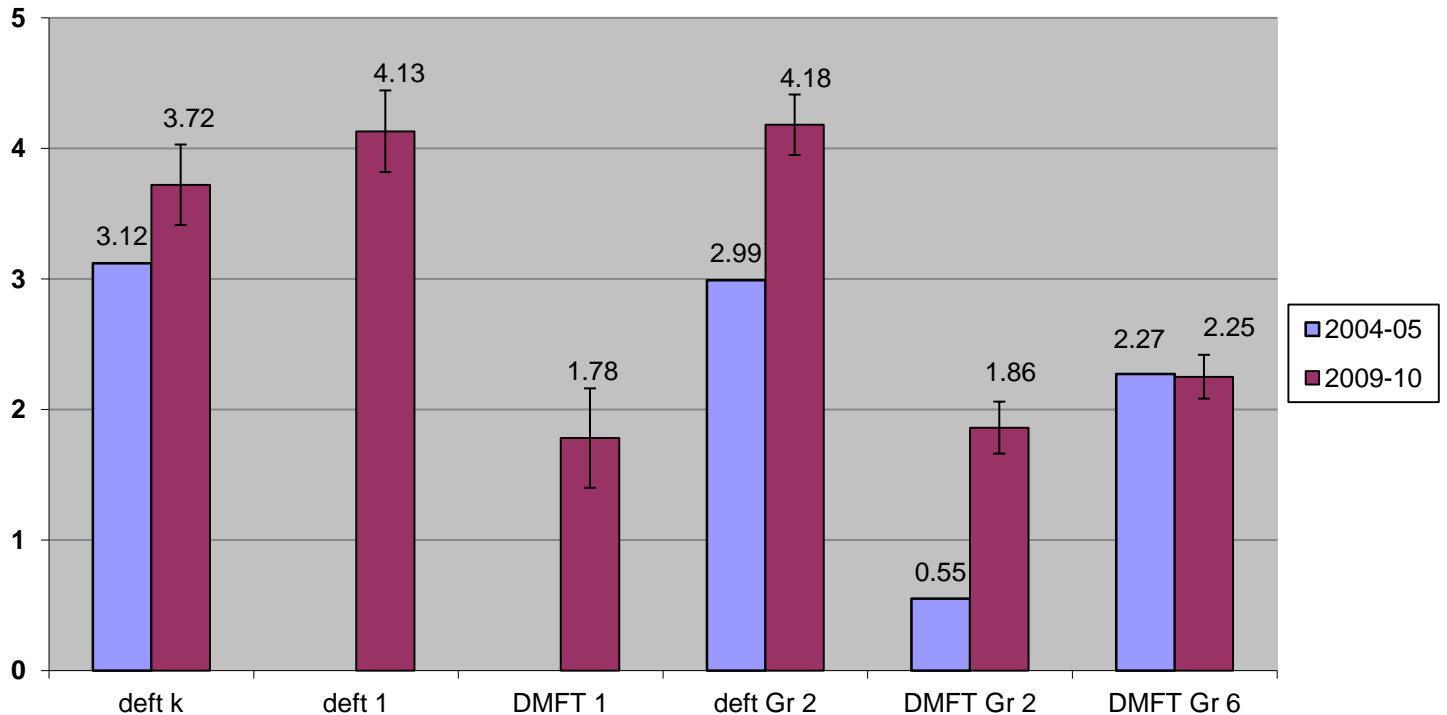


Table 2.2

	deft k	deft 1	DMFT 1	deft Gr 2	DMFT Gr 2	DMFT Gr 6
2004-05	3.12	N/A	N/A	2.99	0.55	2.27
2009-10	3.72	4.13	1.78	4.18	1.86	2.25
95% Confidence	(+/-0.31)	(+/-0.31)	(+/-0.38)	(+/-0.23)	(+/-0.20)	(+/-0.17)
Standard Deviation	(+/-2.99)	(+/-3.13)	(+/-0.95)	(+/-2.58)	(+/-0.98)	(+/-1.39)

3. Calgary schools: Mean deft/DMFT by grade and SES

Note: (+/-) represents 95% confidence interval.

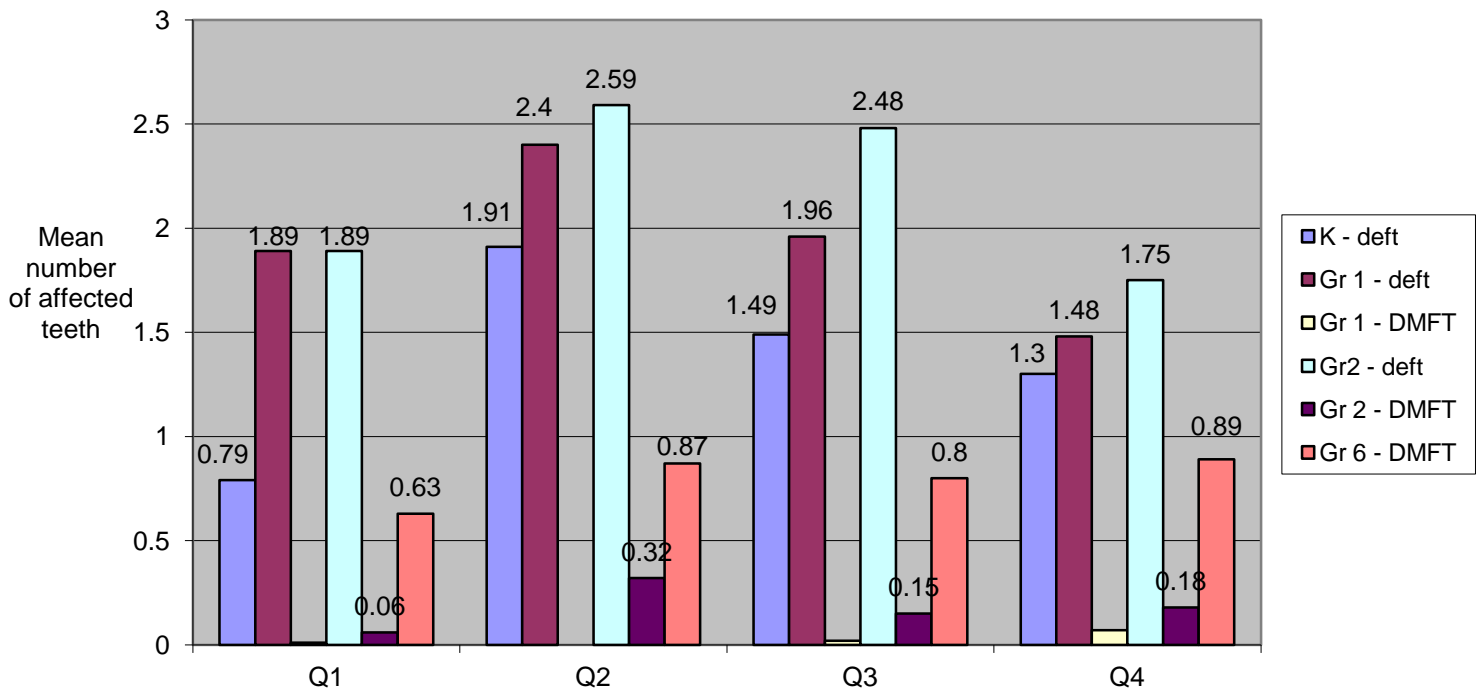
Table 2.3

		< \$55,000	\$55,001 - \$65,000	\$65,001 - \$83,500	>\$83,500
K	Mean deft	0.79 (+/-0.40)	1.91 (+/-0.43)	1.49 (+/-0.42)	1.30 (+/-0.32)
Gr 1	Mean deft	1.89 (+/-0.71)	2.40 (+/-0.56)	1.96 (+/-0.51)	1.48 (+/-0.35)
	Mean DMFT	0.01 (+/-0.03)	0.00 (+/-0.00)	0.02 (+/-0.03)	0.07 (+/-0.06)
Gr 2	Mean deft	1.89 (+/-0.58)	2.59 (+/-0.54)	2.48 (+/-0.46)	1.75 (+/-0.36)
	Mean DMFT	0.06 (+/-0.07)	0.32 (+/-0.16)	0.15 (+/-0.09)	0.18 (+/-0.08)
Gr 6	Mean DMFT	0.63 (+/-0.25)	0.87 (+/-0.29)	0.80 (+/-0.19)	0.89 (+/-0.21)

Calgary Children: Mean number of affected teeth

There is a general decrease in mean deft/DMFT at the ends of the socio-economic status continuum: the highest number of affected teeth occurs in middle income families. Caution: fewer children screened in Q1 compared to Q2, Q3, Q4 (students screened: 299, 537, 731, 786 respectively).

Figure 2.13



Quartile represents neighbourhood income levels in conjunction with urban schools as follows (see Appendix 3 for additional information)

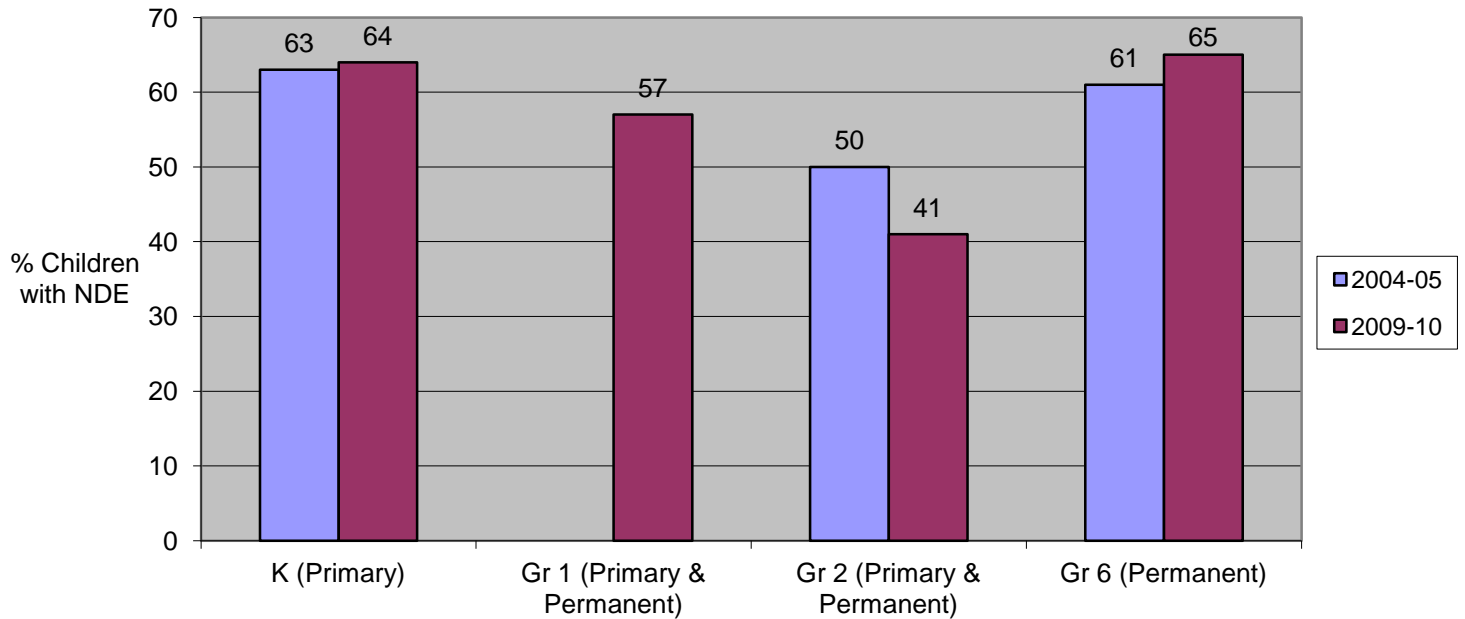
For this survey each urban school was assigned an income level based on the surrounding neighbourhood. Additional information about families such as income and educational status were not requested. Some schools include children based in from other neighbourhoods, so the relationship between child and school/neighbourhood income level is not definite.

Rural schools were selected due to geographical location and population of area. These schools include children from diverse backgrounds and therefore not categorized by socio-economic status.

4. No Decay Experience

% of children with no decay experience (NDE) in Primary and Permanent Dentitions by grade.

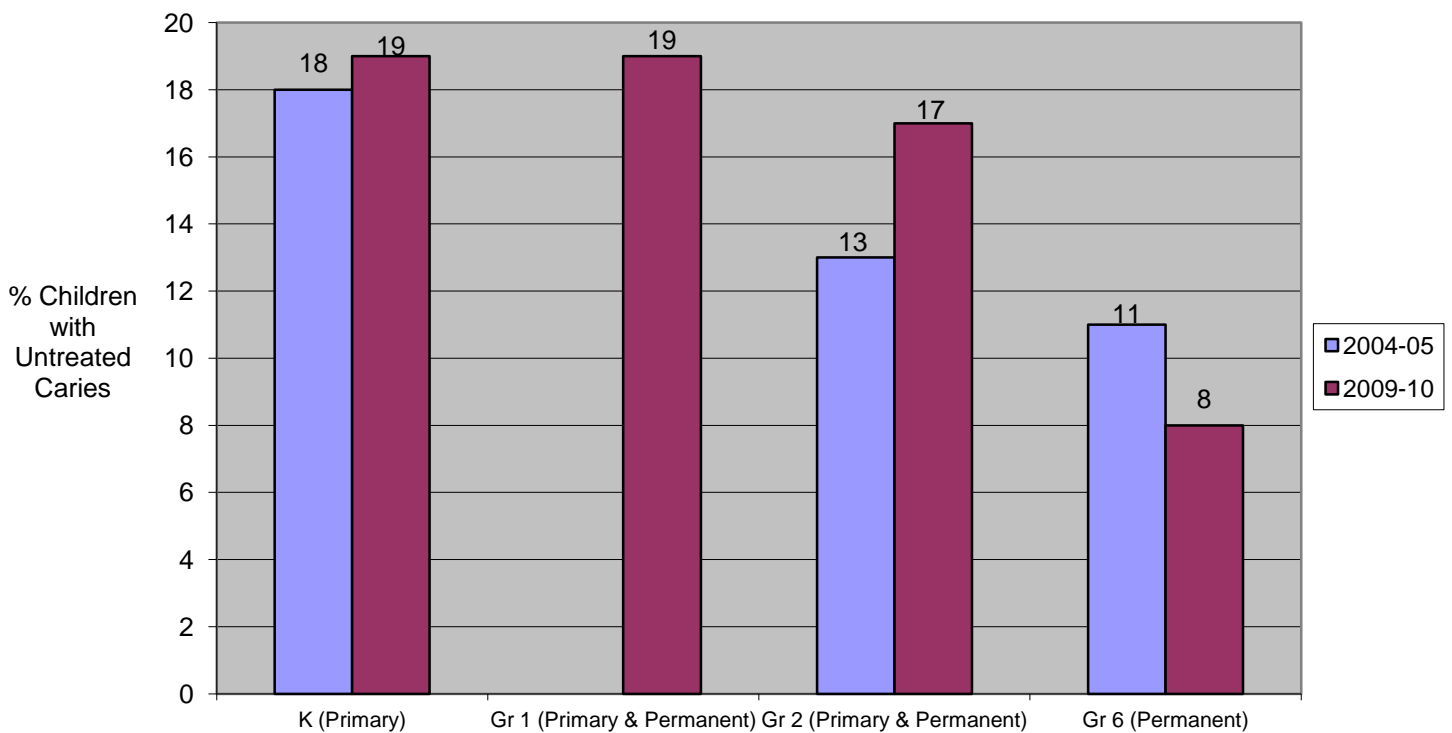
Figure 2.14



5. Untreated Dental Caries

% of children with untreated dental caries in Primary and Permanent Dentition. Note: the untreated caries rate is higher in primary dentition.

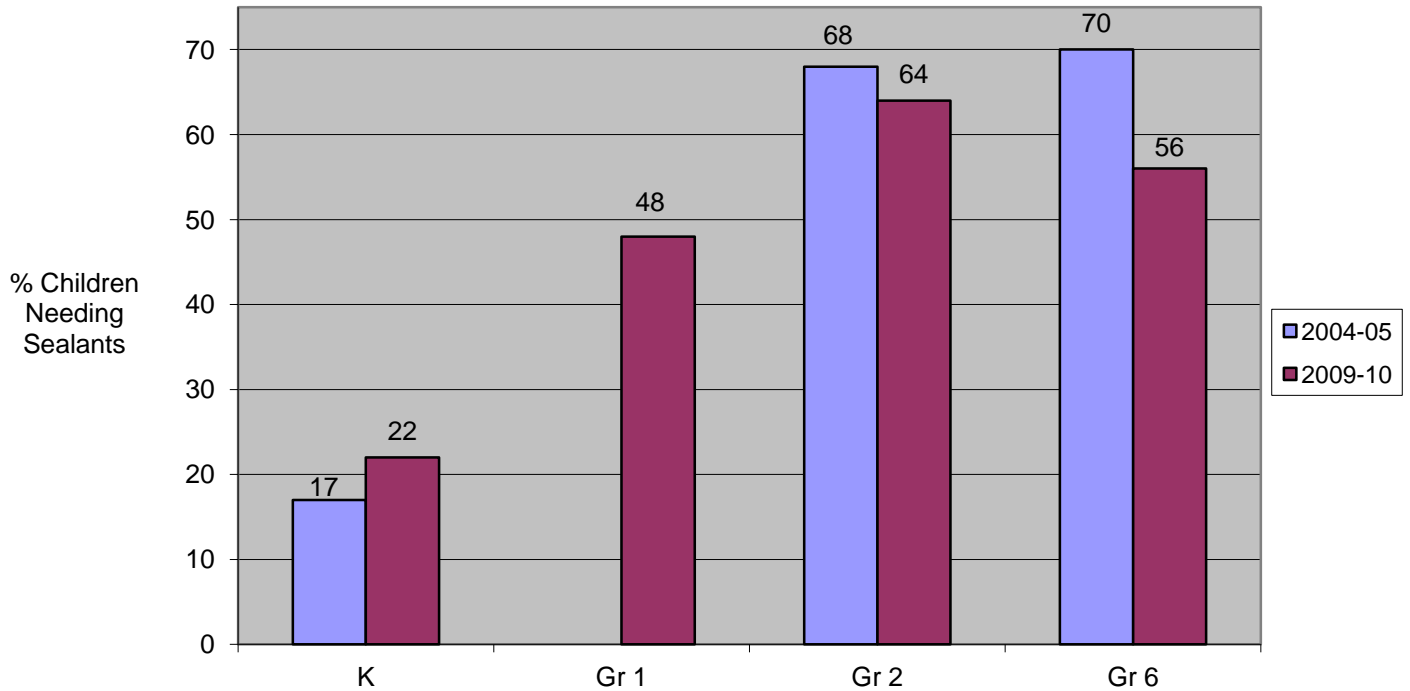
Figure 2.15



6. Children Needing Sealants

% of children with recommendation for new or additional pit & fissure sealants (includes all students screened).

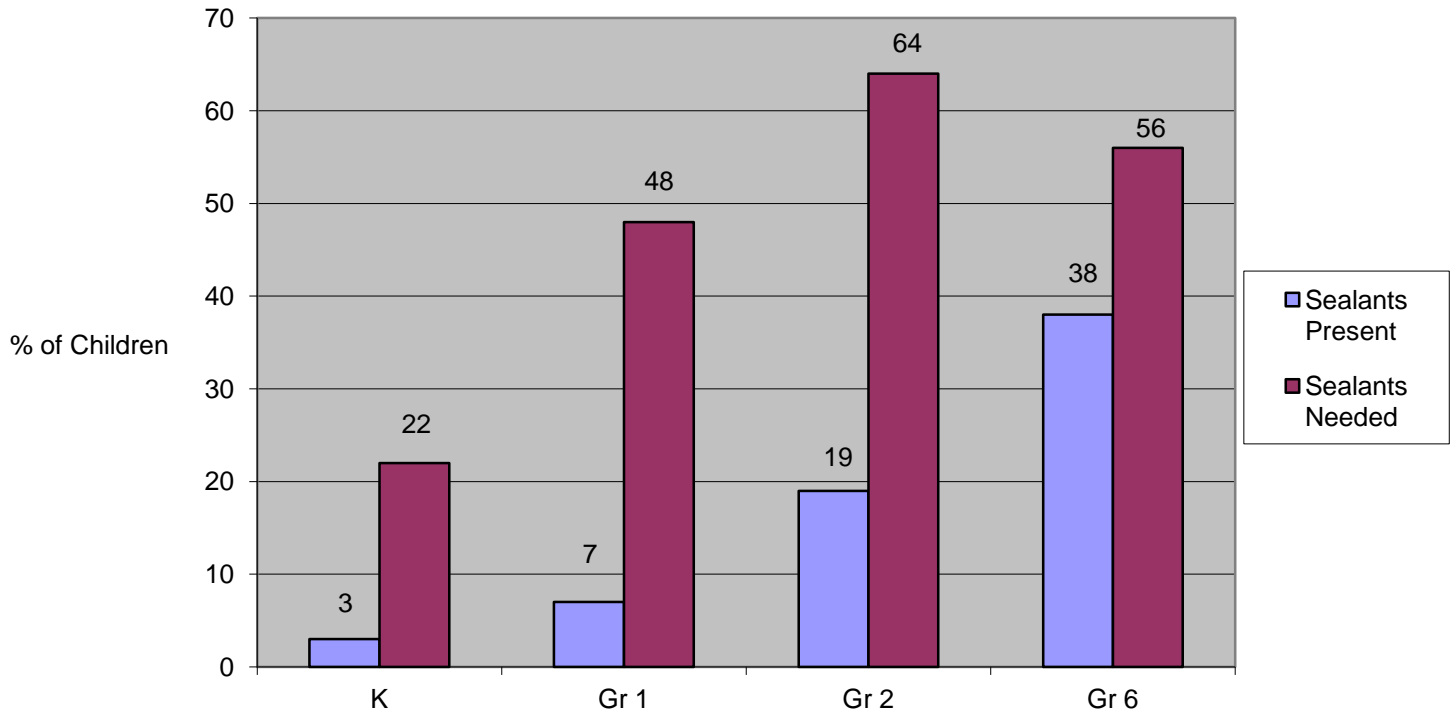
Figure 2.16



7. Children that have Sealants Present Vs Sealants Needed

2009/10 % children that have sealants present vs those who still need sealants. More students require sealants than those that already have sealants. Note: children who have sealants present but need more sealants are counted in both groups.

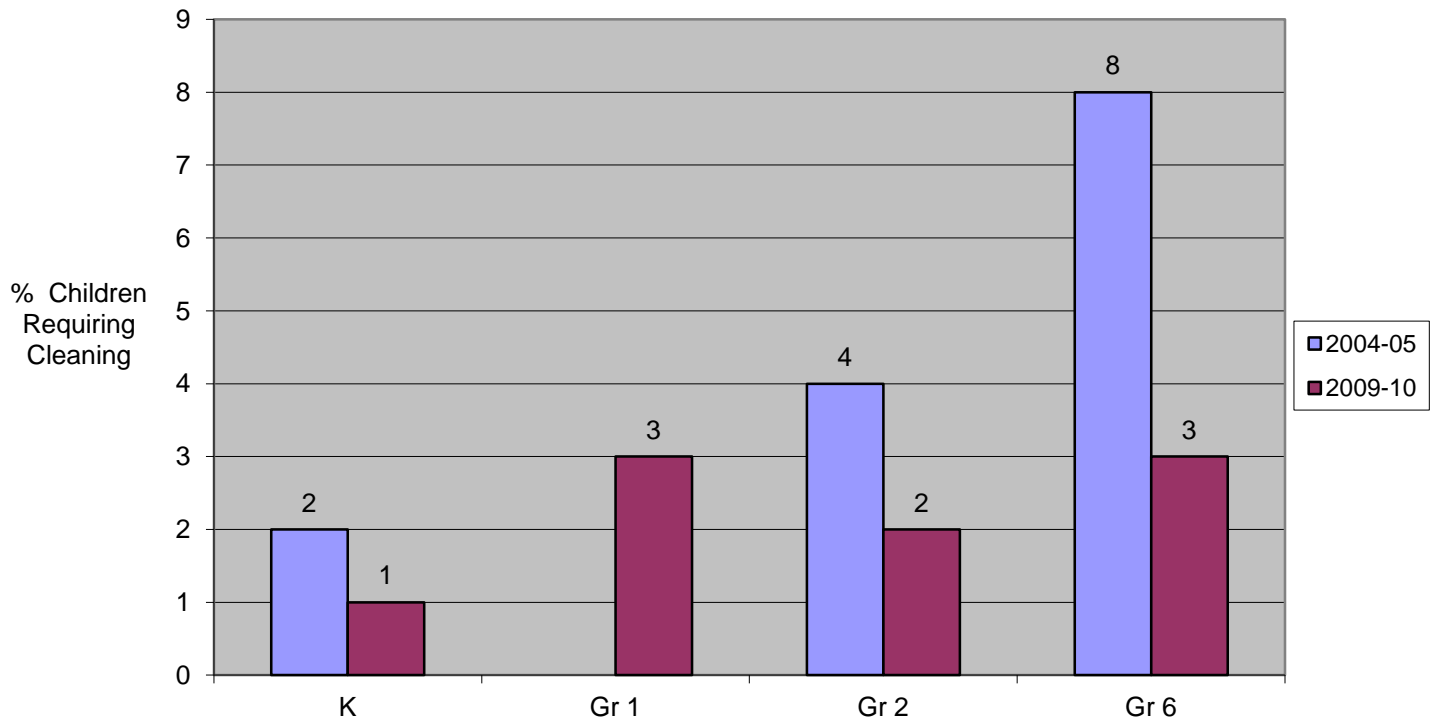
Figure 2.17



8. Children Requiring Professional Cleaning

% children evaluated as requiring professional cleaning to improve oral health. 2009/10 guidelines were more restrictive than 2004/05.

Figure 2.18

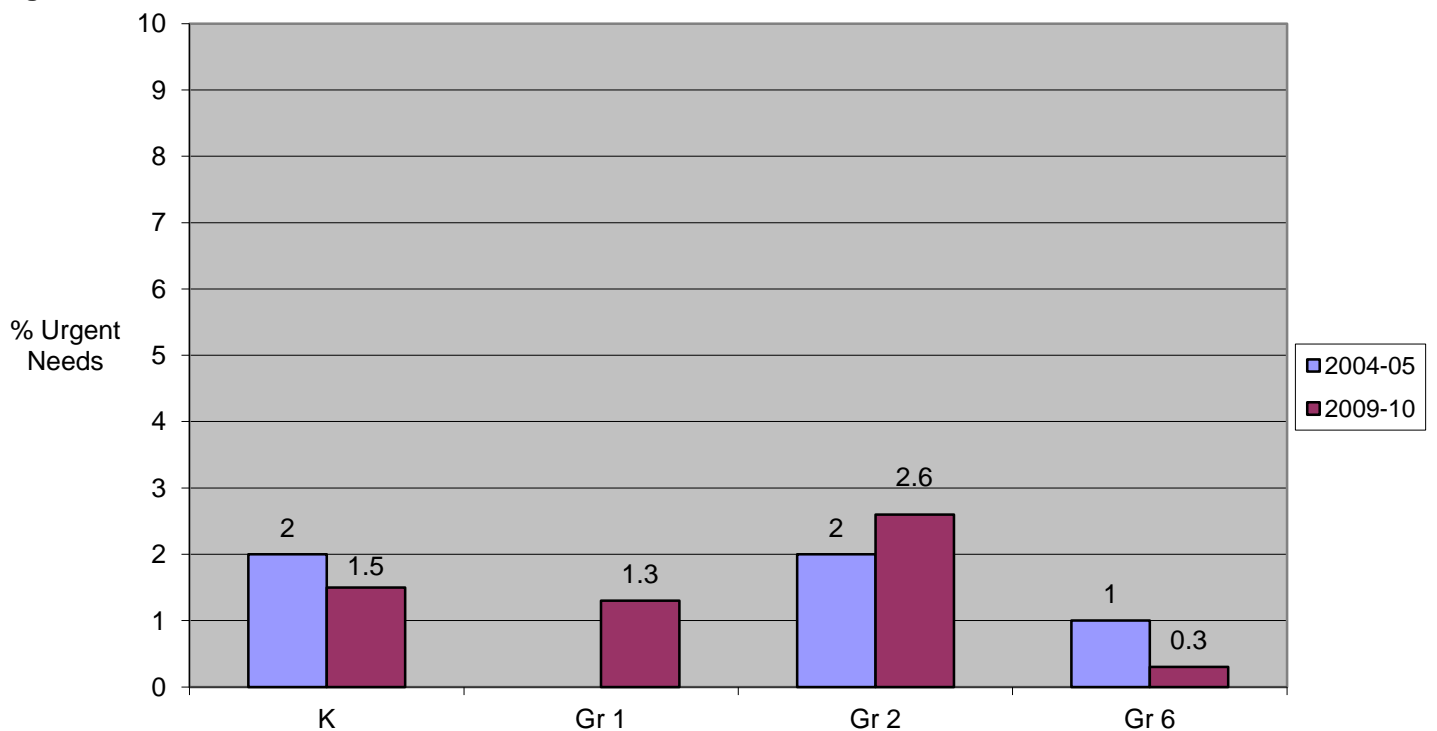


9. Children with Urgent Needs

% children with urgent dental needs.

Note: 2004/05 included "bombed out" teeth in addition to pain/abscess, whereas 2009/10 included only dental pain and abscess.

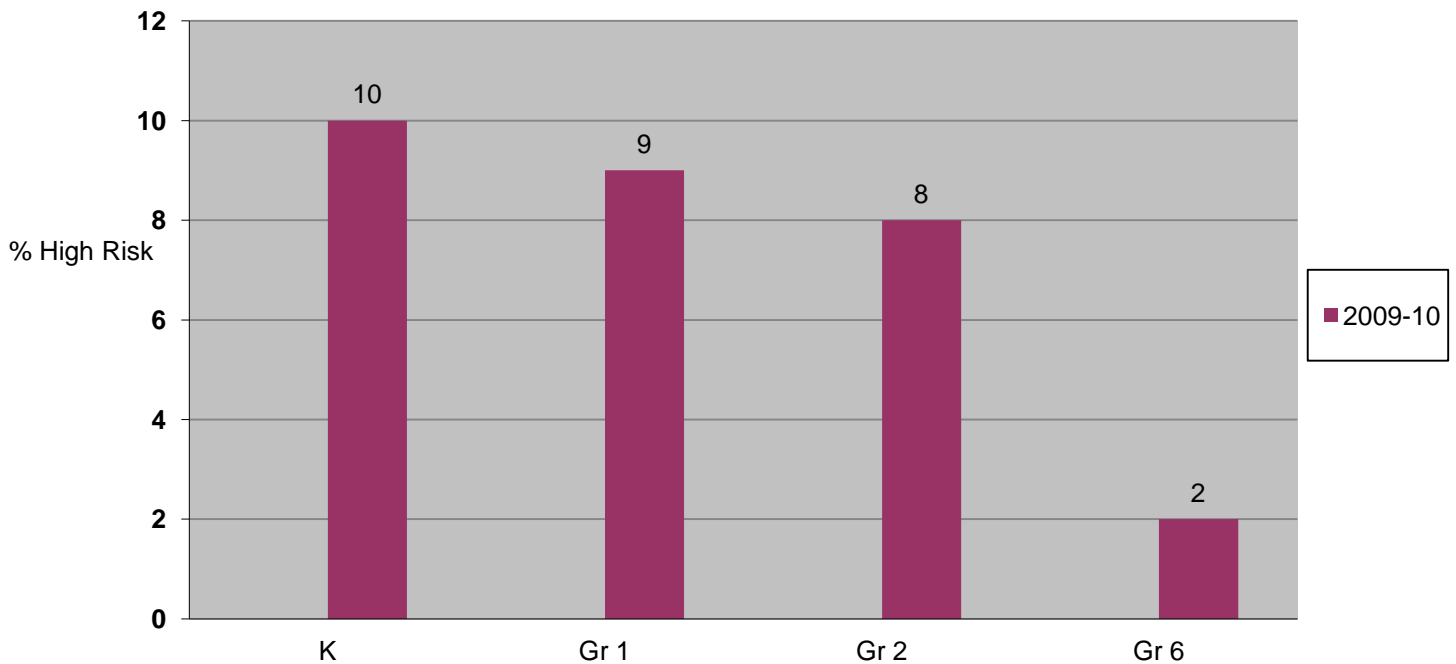
Figure 2.19



10. High Risk Children

% of children with 2 or more untreated dental caries. There is a general decrease as children get older.

Figure 2.21



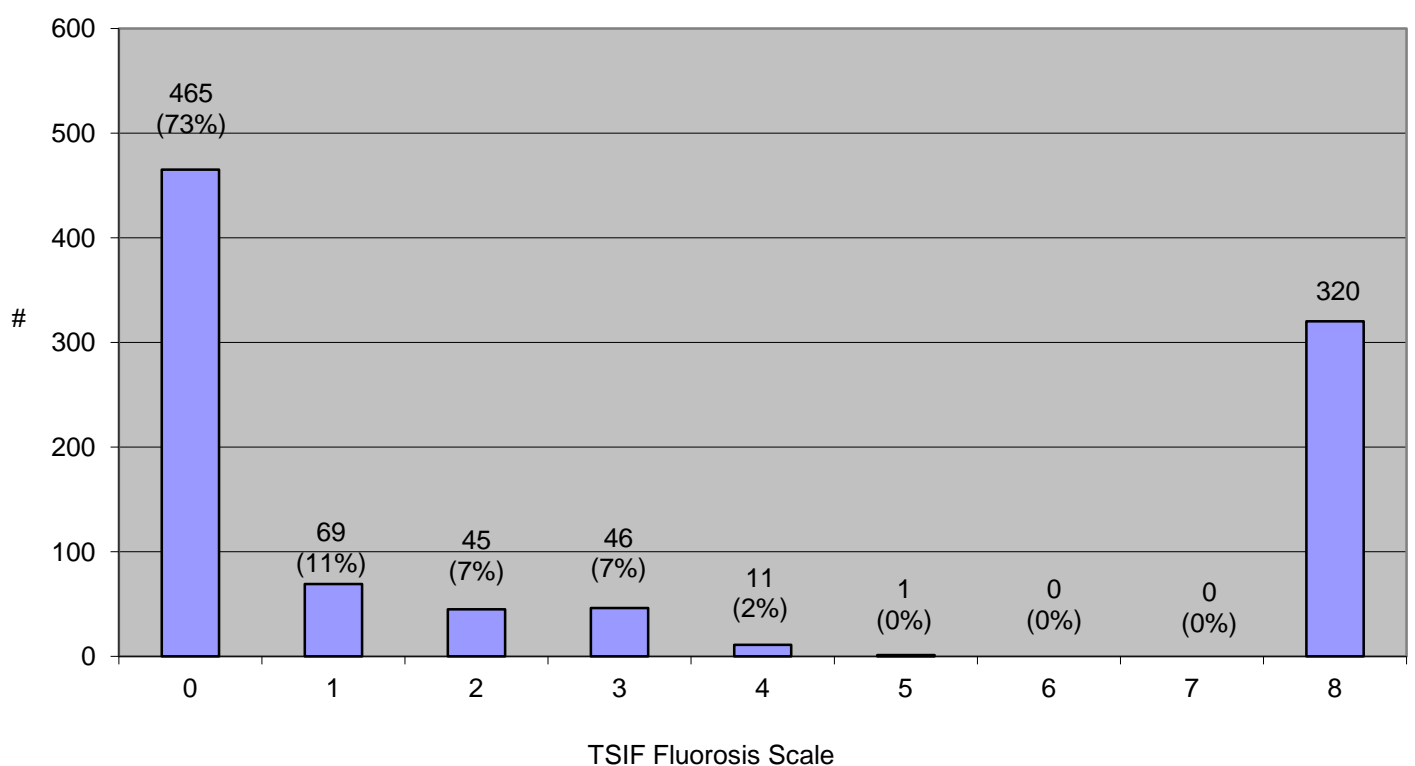
11. Fluorosis

For more information on the Fluorosis index, see Appendix 2.

Note: no information was collected about birthplace or location of early development of the children.

a. Grade 2 (Urban and Rural Schools)

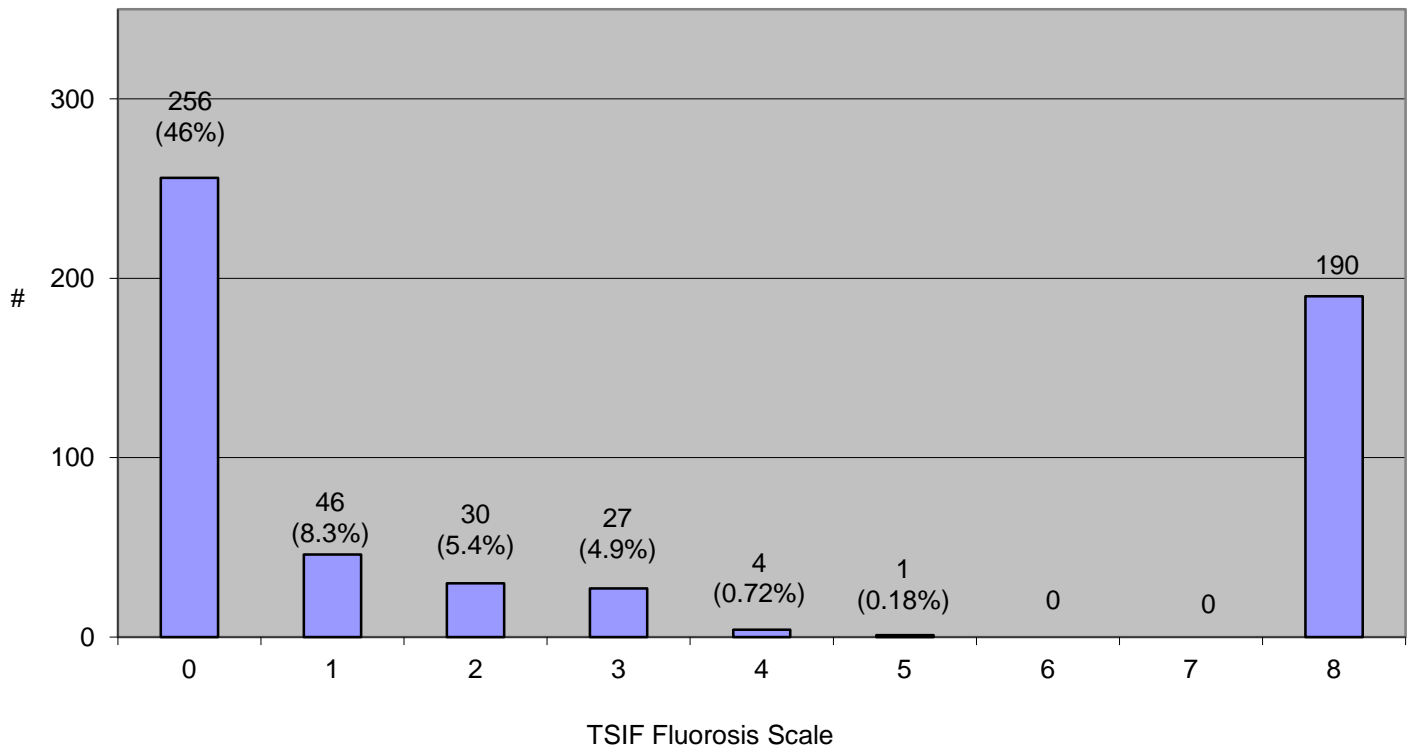
Figure 2.22a



n=637 assessed

b. Grade 2 (Urban Schools Only)

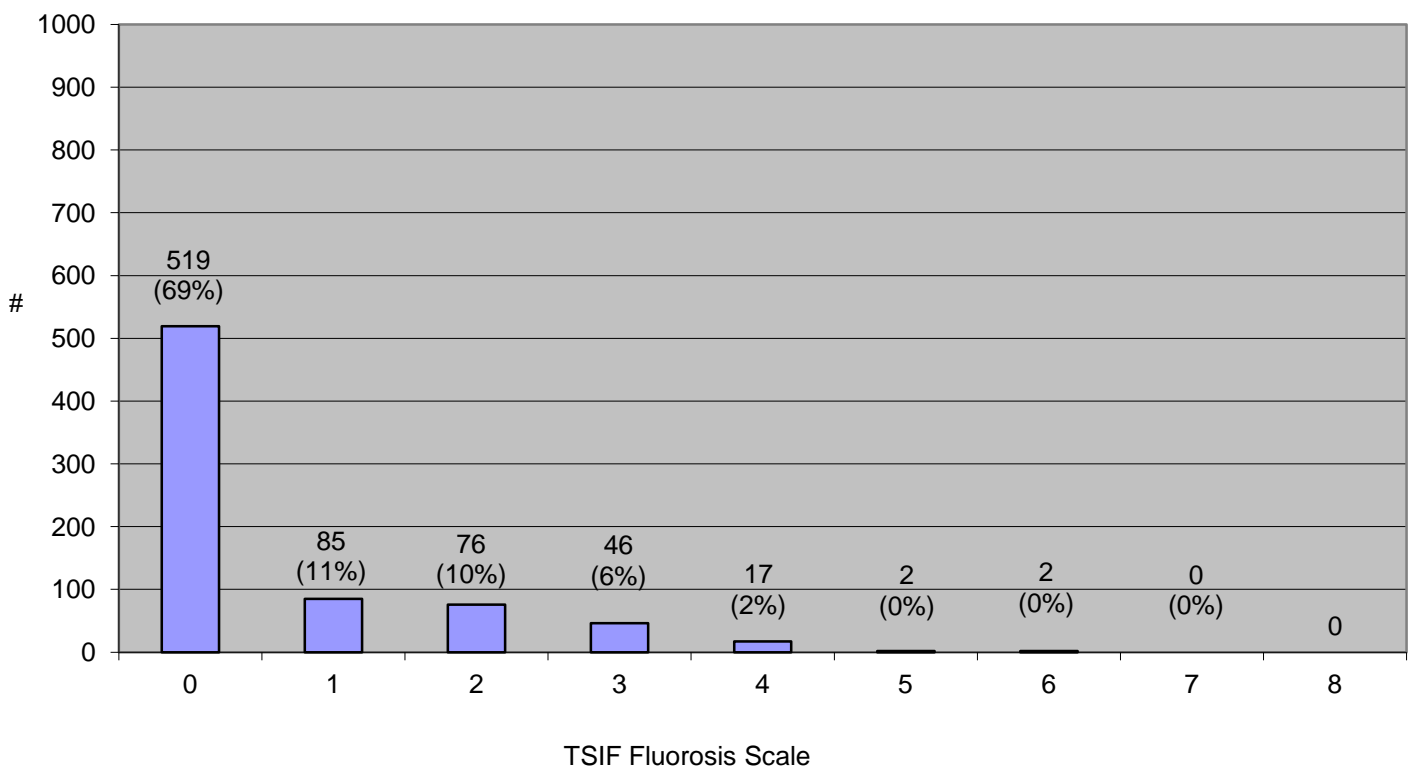
Figure 2.22b



n=554 assessed

c. Grade 6 (Urban and Rural Schools)

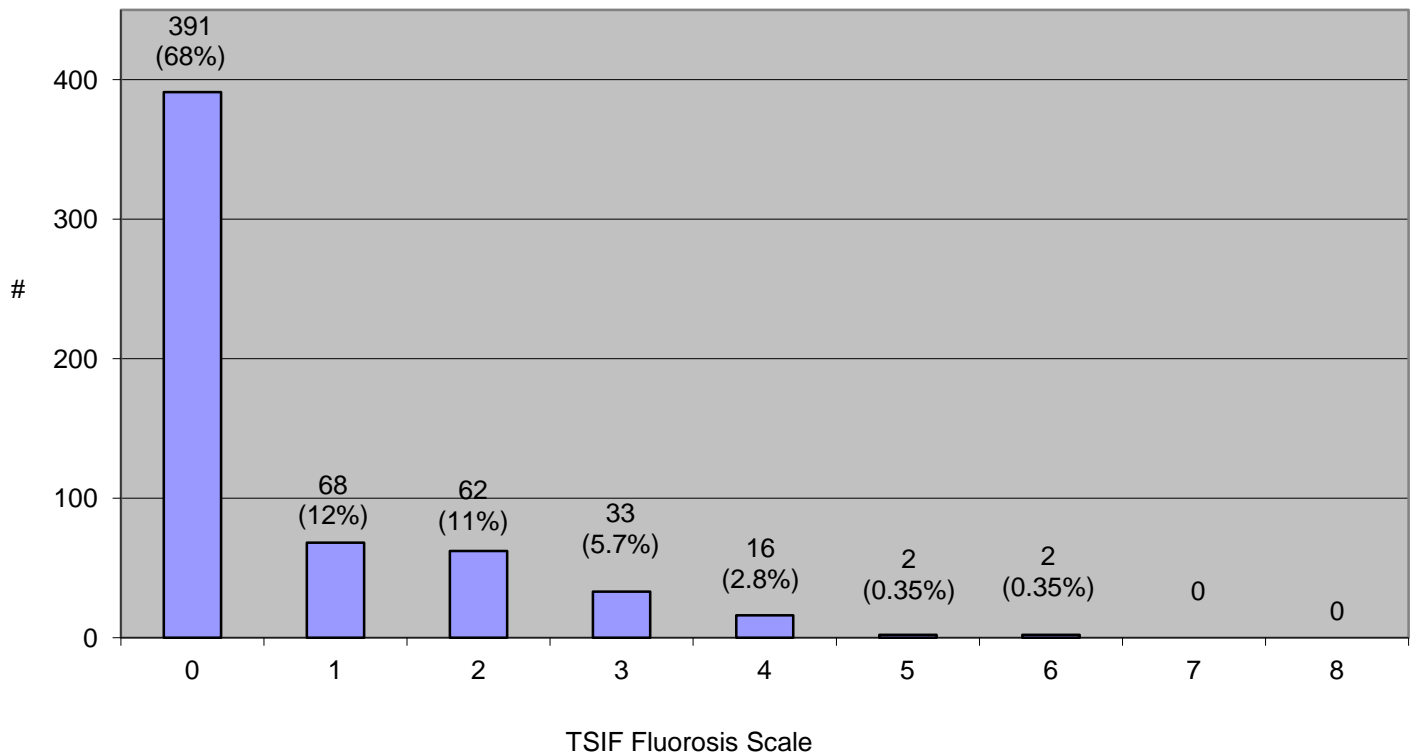
Figure 2.22c



n=747 assessed

d. Grade 6 (Urban Schools Only)

Figure 2.22d



n=574 assessed

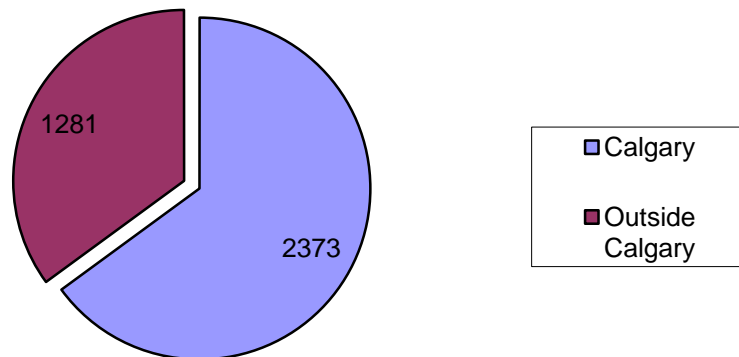


Mari-Lou Ziegenhagel – Survey Examiner

3) Comparison between Schools within and outside of Calgary

1. Number screened: Urban vs Rural

Figure 3.11



2. Urban vs Rural Outcomes

Key indicator comparison between overall data and urban/rural schools. Decay rates are higher in Calgary.

Kindergarten

Table 3.1

	deft	DMFT	%NDE	%Untx	%Seals	%Clean	%Urg	%HR
Overall	1.32	N/A	64%	19%	22%	1%	1%	10%
Rural	1.05	N/A	66%	18%	23%	1%	1%	9%
Urban	1.48	N/A	63%	19%	21%	1%	2%	11%

Grade 1

Table 3.2

	deft	DMFT	%NDE	%Untx	%Seals	%Clean	%Urg	%HR
Overall	1.68	0.04	57%	19%	48%	3%	1%	9%
Rural	1.40	0.06	62%	14%	47%	2%	1%	6%
Urban	1.87	0.03	57%	22%	48%	3%	2%	11%

Grade 2

Table 3.3

	deft	DMFT	%NDE	%Untx	%Seals	%Clean	%Urg	%HR
Overall	2.06	0.18	41%	17%	64%	2%	3%	8%
Rural	1.9	0.17	52%	17%	59%	1%	1%	6%
Urban	2.17	0.19	47%	17%	67%	3%	3%	8%

Grade 6

Table 3.4

	deft	DMFT	%NDE	%Untx	%Seals	%Clean	%Urg	%HR
Overall	N/A	0.78	65%	8%	56%	3%	0.3%	2%
Rural	N/A	0.71	64%	8%	55%	2%	3%	2%
Urban	N/A	0.81	65%	8%	57%	3%	0.3%	2%

4) Reports by Grade:

The following reports are categorized by grade and further group by rural/urban schools. Please refer to school codes in Appendix 1 for more information.

1. Kindergarten

Table 4.1

Kindergarten Report																	
School code	N	d	e	f	deft	Mean deft	D	M	F	DMFT	Mean DMFT	%NDE	% Untx	% Need Sealants	% Cleaning	% Urgent	%HR
Rural																	
1047	41	9	5	21	35	0.85	0	0	0	0	0	73.2	14.6	36.6	0	2.4	4.9
0005	33	16	5	23	44	1.33	1	0	1	2	0.06	54.5	30.3	42.4	0	0	12.1
0001	78	27	0	33	60	0.77	0	0	0	0	0	71.8	17.9	26.9	0	0	12.8
0011	58	8	1	26	35	0.60	1	0	0	1	0.02	18.9	8.6	22.4	0	0	5.2
1070	45	5	6	46	57	1.27	0	0	0	0	0	66.7	8.9	26.7	0	2.2	2.2
1084	31	13	2	18	33	1.06	0	0	0	0	0	51.6	35.5	9.7	6.5	0	6.5
1025	29	21	0	21	42	1.45	0	0	0	0	0	62.1	24.1	0	0	3.4	24.1
1133	7	3	0	13	16	2.29	0	0	0	0	0	28.6	42.9	0	0	0	33.3

School code	N	d	e	f	deft	Mean deft	D	M	F	DMFT	Mean DMFT	%NDE	% Untx	% Need Sealants	% Cleaning	% Urgent	%HR
1080	20	4	0	34	38	1.9	0	0	0	0	0	60	15	5	5	0	5
Urban																	
0571	59	11	5	52	68	1.15	0	0	0	0	0	71.2	11.9	3.4	1.7	3.4	3.4
0134	36	44	8	58	110	3.06	0	0	0	0	0	44.4	38.9	61.1	0	0	27.8
0173	21	15	3	9	27	1.29	0	0	0	0	0	61.9	23.8	9.5	9.5	4.8	19.0
0177	50	61	3	21	85	1.7	0	0	0	0	0	56	34	22	0	2	24
0082	53	18	4	75	97	1.83	0	0	0	0	0	50.9	15.1	47.2	0	0	9.4
0219	26	12	0	29	41	1.58	0	0	0	0	0	65.4	11.5	0	0	0	11.5
0589	66	27	6	84	117	1.77	0	0	0	0	0	57.6	18.2	6.1	3.0	1.5	10.6
0227	10	0	0	2	2	0.2	0	0	0	0	0	90	0	10	0	0	0
0501	22	6	0	6	12	0.55	0	0	0	0	0	77.3	18.2	18.2	0	4.5	4.5
0520	7	2	0	2	4	0.57	0	0	0	0	0	71.4	14.3	14.3	0	0	14.3
0264	8	2	0	4	6	0.75	0	0	0	0	0	75	12.5	0	0	0	12.5
0052	42	11	1	50	62	1.48	0	0	0	0	0	69.0	14.3	28.6	0	0	7.1

School code	N	d	e	f	deft	Mean deft	D	M	F	DMFT	Mean DMFT	%NDE	% Untx	% Need Sealants	% Cleaning	% Urgent	%HR
0523	7	8	0	0	8	1.14	0	0	0	0	0	57.1	42.9	28.6	0	0	42.9
0673	62	13	8	44	65	1.05	0	0	1	1	0.02	66.1	16.1	27.4	0	0	4.8
0527	18	4	1	7	12	0.67	0	0	0	0	0	72.2	11.1	27.8	0	0	5.6
0618	68	26	5	63	94	1.38	1	0	0	1	0.01	66.2	13.2	36.8	0	1.5	10.3
0548	23	30	7	18	55	2.39	0	0	0	0	0	47.8	43.5	8.7	0	8.7	26.1
0566	11	2	0	3	5	0.45	0	0	0	0	0	81.8	9.1	0	0	0	9.1
0277	74	19	4	85	108	1.46	0	0	0	0	0	66.2	14.9	9.5	2.7	4.1	5.4

2. Grade One

Table 4.2

Gr 1 Report																	
School code	N	d	e	f	deft	Mean deft	D	M	F	DMFT	Mean DMFT	%NDE	% Untx	% Need Sealants	% Cleaning	% Urgent	%HR
Rural																	
0086	14	2	0	3	5	0.36	0	0	2	2	0.14	71.4	14.3	2	0	0	0
1047	26	8	2	31	41	1.58	0	0	0	0	0	42.3	15.4	65.4	0	3.8	3.8
0005	30	13	0	31	44	1.47	2	0	1	3	0.1	56.7	23.3	76.7	0	0	10
0001	79	24	6	63	93	1.18	0	0	4	4	0.05	45.6	16.5	44.3	0	0	7.6
0011	67	6	6	77	89	1.33	2	0	1	3	0.04	47.8	8.9	61.2	0	0	1.5
1070	63	12	9	61	82	1.30	3	0	2	5	0.08	50.8	15.9	47.6	0	0	4.8
1084	25	4	8	26	38	1.52	0	0	0	0	0	36	12	24	20	0	4
1025	35	7	5	67	76	2.17	1	0	2	3	0.09	51.4	11.4	34.3	0	0	5.7
1133	6	5	0	18	23	3.83	0	0	0	0	0	16.7	33.3	33.3	33.3	16.7	33.3
1080	17	7	0	9	16	0.94	0	0	2	2	0.12	82.4	5.9	17.6	11.8	0	5.9

School code	N	d	e	f	deft	Mean deft	D	M	F	DMFT	Mean DMFT	%NDE	% Untx	% Need Sealants	% Cleaning	% Urgent	%HR
Urban																	
0571	43	18	4	68	90	2.09	0	0	5	5	0.12	48.8	11.6	18.6	4.7	2.3	7.0
0134	23	11	6	40	57	2.48	0	0	0	0	0	34.8	30.4	78.3	4.3	0	13.0
0173	18	7	2	11	20	1.11	1	0	0	1	0.06	55.6	22.2	38.9	11.1	0	11.1
0177	50	43	7	78	128	2.56	0	0	0	0	0	30	38	56	0	4	22
0082	43	16	2	55	73	1.70	2	0	3	5	0.12	46.5	20.9	74.4	0	0	9.3
0219	30	3	3	49	55	1.83	1	0	2	3	0.1	50	13.3	23.3	6.7	0	0
0589	60	22	15	113	150	2.5	0	0	1	1	0.02	40	18.3	38.3	13.3	1.7	8.3
0227	16	8	2	21	31	1.94	0	0	0	0	0	50	25	75	0	0	12.5
0501	20	14	0	14	28	1.4	0	0	0	0	0	40	25	35	0	0	15
0520	9	5	3	24	32	3.56	0	0	0	0	0	22.2	22.2	55.6	0	0	22.2
0264	9	7	1	9	17	1.89	0	0	0	0	0	33.3	22.2	44.4	33.3	11.1	22.2
0052	26	5	0	15	20	0.77	1	0	1	2	0.08	53.8	19.2	42.3	0	0	3.8
0523	12	7	0	24	31	2.58	0	0	0	0	0	41.7	41.7	50	0	0	16.7
0673	84	14	1	54	69	0.82	0	0	0	0	0	64.3	7.1	66.7	0	1.2	6.0

School code	N	d	e	f	deft	Mean deft	D	M	F	DMFT	Mean DMFT	%NDE	% Untx	% Need Sealants	% Cleaning	% Urgent	%HR
0527	13	11	1	16	28	2.15	2	0	0	2	0.15	46.2	46.2	69.2	0	0	23.1
0618	48	20	3	82	105	2.19	0	0	0	0	0	52.1	20.8	52.1	0	0	12.5
0548	12	30	3	22	55	4.58	0	0	0	0	0	25	58.3	41.7	8.3	25	50
0566	15	2	0	15	17	1.13	0	0	0	0	0	80	6.7	26.7	0	0	6.7
0277	45	20	5	51	76	1.69	0	0	0	0	0	53.3	31.1	24.4	2.2	2.2	8.9

3. Grade Two

Table 4.3

Gr 2 Report																	
School code	N	d	e	f	deft	Mean deft	D	M	F	DMFT	Mean DMFT	%NDE	% Untx	% Need Sealants	% Cleaning	% Urgent	%HR
Rural																	
0086	9	0	0	2	2	0.22	1	0	0	1	0.11	66.7	11.1	5	0	0	0
1047	30	9	6	55	70	2.33	1	0	5	6	0.2	50	23.3	46.7	0	3.3	3.3
0005	30	8	5	47	60	2	0	0	3	3	0.1	53.3	23.3	86.7	0	0	3.3
0001	62	6	12	66	84	1.35	1	0	2	3	0.05	45.2	9.7	62.9	0	1.6	1.6
0011	56	4	2	59	65	1.16	1	0	7	8	0.14	57.1	8.9	71.4	0	0	0
1070	62	20	7	89	116	1.87	2	0	9	11	0.18	50	19.4	53.2	0	1.6	8.1
1084	20	20	10	48	78	3.9	0	0	0	0	0	30	25	65	15	5	15
0613	42	7	8	87	102	2.43	0	0	21	21	0.5	33.3	9.5	31.0	0	4.8	2.4
1025	29	11	2	38	51	1.76	0	0	3	3	0.10	58.6	10.3	48.3	0	3.4	10.3
1133	7	3	0	16	19	2.71	0	0	0	0	0	28.6	28.6	85.7	0	14.3	0
1080	22	17	4	38	59	2.68	0	0	1	1	0.05	50	31.8	45.5	0	13.6	18.2

School code	N	d	e	f	deft	Mean deft	D	M	F	DMFT	Mean DMFT	%NDE	% Untx	% Need Sealants	% Cleaning	% Urgent	%HR
1147	35	15	5	53	73	2.09	5	0	7	12	0.34	51.4	25.7	74.3	0	0	8.6
Urban																	
0571	39	6	1	58	65	1.67	2	0	8	10	0.26	48.7	15.4	43.6	2.6	2.6	2.6
0134	33	27	10	68	105	3.18	4	0	17	21	0.64	27.3	45.5	84.8	0	0	21.2
0173	21	5	3	33	41	1.95	1	0	3	4	0.19	38.1	14.3	52.4	19.0	4.8	4.8
0177	49	39	10	71	120	2.45	6	0	9	15	0.31	40.8	34.7	63.3	4.1	4.1	14.3
0082	38	3	1	51	55	1.45	0	0	8	8	0.21	47.4	7.9	68.4	0	0	0
0219	25	3	16	71	90	3.6	0	0	9	9	0.36	36	8	64	8	0	4
0589	63	27	16	146	189	3	2	0	14	16	0.25	34.9	15.9	52.4	7.9	6.3	4.8
0227	9	7	0	12	19	2.11	0	0	0	0	0	44.4	22.2	100	0	11.1	22.2
0501	22	8	2	17	27	1.23	0	0	0	0	0	54.5	16.6	54.5	0	4.5	9.1
0520	12	11	2	20	33	2.75	0	0	0	0	0	16.7	33.3	83.3	0	16.7	33.3
0052	43	9	7	59	75	1.74	1	0	0	1	0.023	62.8	7.0	79.1	0	0	4.7
0523	1	0	0	3	3	3	0	0	0	0	0	0	0	100	0	0	0
0673	69	8	12	82	102	1.48	1	0	6	7	0.10	55.1	7.2	72.5	0	0	4.3
0527	26	11	0	22	33	1.27	0	0	2	2	0.08	61.5	26.9	80.8	0	0	7.7

School code	N	d	e	f	deft	Mean deft	D	M	F	DMFT	Mean DMFT	%NDE	% Untx	% Need Sealants	% Cleaning	% Urgent	%HR
0618	61	13	13	113	139	2.28	2	0	3	5	0.08	54.1	11.5	82.0	0	1.7	3.3
0548	19	19	9	31	59	3.11	0	0	0	0	0	42.1	26.3	57.9	0	5.3	21.1
0566	15	5	0	44	49	3.27	0	0	6	6	0.4	46.7	13.3	53.3	0	0	13.3
0277	11	0	0	6	6	0.55	0	0	0	0	0	81.8	0	54.5	0	0	0

4. Grade Six

Table 4.4

Gr 6 Report																	
School code	N	d	e	f	deft	Mean deft	D	M	F	DMFT	Mean DMFT	%NDE	% Untx	% Need Sealants	% Cleaning	% Urgent	%HR
Rural																	
0086	17	0	0	0	0	0	0	0	10	10	0.59	76.5	0	5	0	0	0
1047	34	0	0	0	0	0	2	0	14	16	0.47	64.7	5.9	47.1	0	0	0
1084	13	0	0	0	0	0	0	0	6	6	0.46	61.5	0	69.2	0	0	0
0070	19	0	0	0	0	0	4	0	3	7	0.37	68.4	15.8	73.7	0	0	5.3
1154	13	0	0	0	0	0	1	0	9	10	0.77	61.5	7.7	46.2	0	0	0
0613	15	0	0	0	0	0	0	1	18	19	1.27	46.7	0	26.7	0	0	0
1030	12	0	0	0	0	0	2	0	5	7	0.58	58.3	16.7	91.7	0	0	0
1133	6	0	0	0	0	0	0	0	4	4	0.67	83.3	0	33.3	0	0	0
1080	14	0	0	0	0	0	3	0	9	12	0.86	0	21.4	50	21.4	0	0
1147	30	0	0	0	0	0	8	0	22	30	1	63.3	10	63.3	0	0	6.7

School code	N	d	e	f	deft	Mean deft	D	M	F	DMFT	Mean DMFT	%NDE	% Untx	% Need Sealants	% Cleaning	% Urgent	%HR
Urban																	
0571	38	0	0	0	0	0	3	0	32	35	0.92	60.5	7.9	36.8	5.3	0	0
0134	11	0	0	0	0	0	4	0	11	15	1.36	27.3	27.3	81.8	0	0	9.1
0407	26	0	0	0	0	0	6	0	12	18	0.69	69.2	7.7	69.2	0	0	7.7
0159	21	0	0	0	0	0	1	0	21	22	1.05	61.9	4.8	38.1	4.8	0	0
0173	15	0	0	1	1	0.07	2	0	4	6	0.4	80	13.3	66.7	13.3	0	0
0177	45	0	0	0	0	0	3	0	16	19	0.42	73.3	6.7	37.8	4.4	0	0
0082	26	0	0	0	0	0	4	0	16	20	0.77	61.5	7.7	57.7	0	0	7.7
0589	49	0	0	0	0	0	3	0	43	46	0.94	63.3	4.1	53.1	8.2	2.0	2.0
0227	13	0	0	0	0	0	2	0	2	4	0.31	84.6	15.4	76.9	0	0	0
0232	26	0	0	0	0	0	8	3	29	40	1.54	57.7	15.4	73.1	0	0	7.7
0637	37	0	0	0	0	0	1	0	40	41	1.11	59.5	2.7	64.9	2.7	0	2.9
0501	31	0	0	0	0	0	4	0	14	18	0.58	71.0	9.7	29.0	3.2	0	3.2
0520	4	0	0	0	0	0	0	0	0	0	0	100	0	100	0	25	0
0264	4	0	0	0	0	0	1	0	2	3	0.75	25	25	100	0	0	0
0052	34	0	0	0	0	0	2	0	10	12	0.35	79.4	5.9	50	0	0	0

School code	N	d	e	f	deft	Mean deft	D	M	F	DMFT	Mean DMFT	%NDE	% Untx	% Need Sealants	% Cleaning	% Urgent	%HR
0523	8	0	0	0	0	0	3	0	5	8	1	62.5	25	50	0	0	12.5
0673	37	0	0	0	0	0	1	0	40	41	1.10	59.5	2.7	64.9	2.7	0	0
0527	18	0	0	0	0	0	3	0	10	13	0.72	66.7	16.7	61.1	0	0	0
0618	39	0	0	0	0	0	0	0	33	33	0.85	66.7	0	46.2	2.6	0	0
0577	13	0	0	0	0	0	1	0	12	13	1	46.2	7.7	84.6	0	0	0
0548	4	0	0	0	0	0	2	0	4	6	1.5	50	25	50	0	25	25
0549	19	0	0	0	0	0	4	0	13	17	0.89	57.9	15.8	68.4	5.3	0	5.3
0566	21	0	0	0	0	0	0	0	10	10	0.48	71.4	0	52.4	0	0	0
0277	6	0	0	0	0	0	0	0	0	0	0	100	0	50	0	0	0

5) Reports by Age:

The following reports are only for children age 6 and 12. Each report is further grouped by rural/urban schools. Please refer to school codes in Appendix 1.

1. 6 Year Old Children

Table 5.1

Report of 6 year old children																	
School code	N	d	e	f	deft	Mean deft	D	M	F	DMFT	Mean DMFT	%NDE	% Untx	% Need Sealants	% Cleaning	% Urgent	%HR
Rural																	
0086	9	2	0	3	5	0.56	0	0	2	2	0.22	55.6	22.2	1	0	0	0
1047	26	9	3	32	44	1.69	0	0	0	0	0	46.2	15.4	65.4	0	7.7	7.7
0005	25	10	0	26	36	1.44	1	0	0	1	0.04	52	20	76	0	0	8
0001	80	24	7	64	95	1.19	0	0	4	4	0.05	52.5	16.3	50	0	0	7.5
0011	66	5	7	85	97	1.47	2	0	1	3	0.05	43.9	7.6	59.1	0	0	1.5
1070	61	11	9	71	91	1.49	1	0	2	3	0.05	50.8	14.8	50.8	0	1.6	3.3
1084	28	4	8	41	53	1.89	0	0	0	0	0	35.7	10.7	28.6	21.4	0	3.6
1025	32	5	3	41	49	1.53	1	0	2	3	0.09	46.9	9.4	25	0	0	6.3
1133	6	4	0	17	21	3.5	0	0	0	0	0	16.7	33.3	33.3	33.3	16.7	16.7
1080	16	7	0	9	16	1	0	0	2	2	0.13	31.3	6.3	12.5	6.3	0	6.3

School code	N	d	e	f	deft	Mean deft	D	M	F	DMFT	Mean DMFT	%NDE	% Untx	% Need Sealants	% Cleaning	% Urgent	%HR
Urban																	
0571	38	19	3	52	74	1.95	0	0	5	5	0.13	47.8	15.8	18.4	5.3	2.6	7.9
0134	24	12	6	39	57	2.38	0	0	0	0	0	33.3	33.3	75	4.2	0	12.5
0173	17	7	2	10	19	1.12	1	0	0	1	0.06	52.9	17.6	35.3	11.8	0	11.8
0177	50	41	11	86	138	2.76	0	0	2	2	0.04	40	34	60	0	4	22
0082	46	17	2	62	81	1.76	2	0	3	5	0.11	41.3	21.7	73.9	0	0	8.7
0219	28	3	3	49	55	1.96	0	0	0	0	0	50	10.7	21.4	7.1	0	0
0589	62	21	16	111	148	2.39	2	0	1	3	0.05	37.1	17.7	37.1	11.3	1.6	8.1
0227	14	8	2	21	31	2.21	0	0	0	0	0	50	28.6	78.6	0	0	14.3
0501	14	2	0	10	12	0.86	0	0	0	0	0	50	7.1	28.6	0	0	7.1
0520	10	7	3	34	44	4.4	0	0	0	0	0	10	30	70	0	0	30
0264	7	7	0	2	9	1.29	0	0	0	0	0	28.6	28.6	28.6	42.9	14.3	28.6
0052	26	5	0	22	27	1.04	1	0	1	2	0.08	73.1	19.2	42.3	0	0	3.8
0523	10	5	0	27	32	3.2	0	0	0	0	0	30	40	50	0	0	10
0673	80	6	4	39	49	0.61	0	0	0	0	0	62.5	5	63.8	0	1.3	2.5

School code	N	d	e	f	deft	Mean deft	D	M	F	DMFT	Mean DMFT	%NDE	% Untx	% Need Sealants	% Cleaning	% Urgent	%HR
0527	16	11	1	22	34	2.13	2	0	0	2	0.13	25	37.5	68.8	0	0	18.8
0618	51	16	4	95	115	2.25	0	0	0	0	0	45.1	17.6	54.9	0	2.0	9.8
0548	16	28	9	31	68	4.25	0	0	0	0	0	18.8	37.5	50	6.3	18.8	31.3
0566	14	2	0	13	15	1.07	0	0	0	0	0	71.4	7.1	21.4	0	0	7.1
0277	37	14	4	38	56	1.51	0	0	0	0	0	35.1	27.0	24.3	2.7	2.7	8.1

*Mean deft (all schools) = 1.89

*Mean deft (urban schools only) = 2.06

*Mean % NDE (urban schools only) = 42.2%

2. 12 Year Old Children

Table 5.2

Report of 12 year old children																	
School code	N	d	e	f	deft	Mean deft	D	M	F	DMFT	Mean DMFT	%NDE	% Untx	% Need Sealants	% Cleaning	% Urgent	%HR
Rural																	
0086	5	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0
1047	3	0	0	0	0	0	1	0	2	3	1	33.3	33.3	33.3	0	0	0
0070	1	0	0	0	0	0	0	0	0	0	0	100	0	100	0	0	0
1154	2	0	0	0	0	0	0	0	1	1	0.5	50	0	100	0	0	0
0613	1	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0
1030	3	0	0	0	0	0	1	0	3	4	1.33	33.3	33.3	100	0	0	0
1080	2	0	0	0	0	0	1	0	0	1	0.5	0	50	100	0	0	0
1147	9	0	0	0	0	0	0	0	7	7	0.78	66.7	0	77.8	0	0	0
Urban																	
0571	9	0	0	0	0	0	0	0	0	0	0	100	0	33.3	11.1	0	0

School code	N	d	e	f	deft	Mean deft	D	M	F	DMFT	Mean DMFT	%NDE	% Untx	% Need Sealants	% Cleaning	% Urgent	%HR
0407	9	0	0	0	0	0	0	0	5	5	0.56	77.8	0	77.8	0	0	0
0159	7	0	0	0	0	0	0	0	10	10	1.43	57.1	0	28.6	0	0	0
0173	2	0	0	1	1	0.5	1	0	3	4	2	50	50	100	0	0	0
0177	3	0	0	0	0	0	1	0	0	1	0.33	66.7	33.3	33.3	0	0	0
0082	4	0	0	0	0	0	0	0	0	0	0	100	0	75	0	0	0
0589	3	0	0	0	0	0	1	0	3	4	1.33	66.7	33.3	66.7	0	0	0
0227	2	0	0	0	0	0	0	0	0	0	0	100	0	100	0	0	0
0232	3	0	0	0	0	0	0	3	12	15	5	33.3	0	66.7	0	0	0
0637	18	0	0	0	0	0	4	0	15	19	1.06	61.1	11.1	88.9	0	0	11.1
0501	3	0	0	0	0	0	3	0	1	4	1.33	0	66.7	100	0	0	33.3
0264	1	0	0	0	0	0	1	0	0	1	1	0	100	100	0	0	0
0052	4	0	0	0	0	0	0	0	0	0	0	100	0	50	0	0	0
0523	1	0	0	0	0	0	2	0	0	2	2	0	100	100	0	0	100
0673	6	0	0	0	0	0	0	0	10	10	1.67	50	0	50	0	0	0

School code	N	d	e	f	deft	Mean deft	D	M	F	DMFT	Mean DMFT	%NDE	% Untx	% Need Sealants	% Cleaning	% Urgent	%HR
0527	2	0	0	0	0	0	1	0	3	4	2	50	50	50	0	0	0
0618	4	0	0	0	0	0	0	0	3	3	0.75	50	0	100	0	0	0
0577	4	0	0	0	0	0	1	0	6	7	1.75	25	25	100	0	0	0
0549	11	0	0	0	0	0	3	0	4	7	0.64	63.6	18.2	72.7	9.1	0	9.1
0566	2	0	0	0	0	0	0	0	5	5	2.5	0	0	50	0	0	0

*Mean DMFT (all schools) = 1.05

*Mean DMFT (urban schools only) = 1.27

*Mean % NDE (urban schools only) = 52.6

Appendix 1

Community Oral Health Survey Examination Criteria 2009-2010

1. Epi Info School/Student Data Collection

Enter the following information in Epi Info on the laptop:

- Date of Survey
- School Name- choose the school from the drop down list
- Examiner Code – ML-75
NW-90
HY-61
- Enter School Code- this should automatically generate with the school name
- Quartile-this should automatically generate with the school name and code
Q1 < 55,000 Q2 55,001-65,000 Q3 65,001-83,500 Q4 >83,500
Quartile 5 school outside of Calgary
- Student ID- Allocate a student ID for each student. Start the numbering according to the grade i.e. KG-000, Grade 1-100, Grade 2-200, Grade 6-600. Record the student ID on the top of the dental consent form
- Consent-enter Yes or No. If consent was given but the student was absent for the entire time allocated for the school check the absent box
- Date of Birth
- Gender: 1-Female
2-Male
- Dental Insurance Coverage Index
Choose the following information from the drop down list:
1 dental insurance coverage
2 no dental insurance coverage
3 not available/information not provided
- Postal Code- enter the full postal code for each student. If the postal code was not given use the schools
- Grade
- Age- this will automatically generate from the date of birth entered

2. Number of Teeth Present (answer yes or no for primary and/or permanent teeth present)

Starting with this measurement and continuing through all the oral findings, it will be the recorder's responsibility to indicate to the examiner what piece of information is being collected. A tooth is present and included in the tooth count and for caries examination if any part of the tooth has penetrated the oral mucosa. If a permanent and primary tooth occupy the same space, the status of the permanent tooth will only be recorded. Supernumerary tooth will not be considered for any scores. All teeth present in the mouth are considered for the tooth count.

3. Sound Teeth (primary and permanent teeth)

Sound teeth are not recorded. If a tooth shows no evidence of treated or untreated caries or if it is at a doubtful stage where a clinical decision may be made to place a filling, but frank decay has not been positively detected, a tooth is considered sound. For example, "sticky fissures" shall be considered sound.

The following conditions would also be considered sound:

- White and/or chalky spots
- Discoloured or rough spots
- Hard-stained pits of fissures in the enamel that catch the explorer but which do not have a detectably softened cavity, undermined enamel, softening in the wall or pit and fissure, or; loss/breakdown of enamel tooth structure
- Teeth that are sealed with no evidence of decay around the sealant or evidence of decay on another surface

4. Decayed Teeth (record in Epi-Info: d = primary and PD = permanent)

A tooth will be considered decayed when the lesion has a detectably softened floor, undermined enamel, or softened wall. **On an interproximal surface, the point of the explorer must enter a lesion with certainty.** It is emphasized that caries or decay begins as a microscopic lesion, and that a clinical cavity is only a stage in the decay process.

Guidelines for Decay Detection

- When in doubt, mark it sound
- If it is taking that long to find it, it is not there
- Shadowing is not to be recorded as decay

For the purpose of this survey, the following conditions will be coded as decayed:

- When one or more surfaces have been filled or sealed, and another discrete surface area or area is carious
- When there is open, frank decay on any surface
- When there is open, frank recurrent caries (not just marginal defect) around a filling
- When a filling is lost or a tooth has a temporary or permanent filling that has broken down or been washed out requiring further treatment (in other words, tooth has been affected by caries and the restoration is no longer intact – defaults back to decay)
- When a crown is lost

5. Filled Teeth (record in Epi-Info: f = primary and PF = permanent)

Teeth are considered filled whenever one or more fillings of any **permanent or semi-permanent** material are present and there is no discrete or recurrent caries. A defective filling with **no** discrete or recurrent caries is still considered filled. A tooth with a $\frac{3}{4}$ crown should be recorded as filled even if it is acting as a bridge abutment.

- A tooth that has been repaired due to trauma is not recorded as filled.
- The following conditions should be recorded as filled:
 - When a tooth has been filled with a flowable composite, preventive resin
 - A defective filling with no discrete or recurrent caries is still considered filled
 - When a tooth has been filled with a permanent filling material and a sealant has been placed over this
 - When a tooth has been filled with a temporary filling material and there is no recurrent caries around that filling
 - When a tooth has a crown and the operator is able to discern using the location of the tooth, tooth, decay experience, patient's age and patients recall that the crown was not placed due to trauma

6. Missing Teeth (record in Epi-Info: e = extracted primary and M = missing permanent)

This code is to be used only for those teeth extracted primarily due to caries.

The "e" code technically refers to teeth that are identified by the dentist to be extracted due to caries but also has traditionally included teeth already extracted due to caries if that can be identified as the reason for extraction. In some cases, it is difficult to distinguish those teeth that have been removed due to caries or lost for other reasons (exfoliation/ orthodontics/ trauma). Basic knowledge of tooth eruption patterns, the appearance of the alveolar ridge in the area of the tooth space in question, the caries status of other teeth in the mouth and subject's report may prove helpful in determining the reason for the tooth loss.

7. deft/DMFT (deft= primary and DMFT= permanent)

- The sum of the numbers from spaces d, e, and f equal the deft for each student
- The sum of the numbers from spaces D, M, and F equal the DMFT space for each student.
- **For ECS to grade three students, both deft/DMFT scores are to be recorded. Always record (0) when primary/permanent tooth is present and there is an absence of disease. If there are no permanent teeth available or the operator did not assess do not calculate the DMFT.**
- **For grade six students, record DMFT only. Leave the d, e, f and deft spaces blank and do not hit the calculate field for deft. Always record (0) when permanent tooth is present and there is an absence of disease. If there are no permanent teeth available or the operator didn't assess the data, do not calculate the DMFT.**

8. Trauma

A tooth is considered to have trauma experience if:

- Some of its surface is missing as a result of trauma and there is no evidence of caries.
- Restorations are present in one or more of the anterior incisors and it can be determined from student recall that the reason for the restoration(s) is trauma.

Traumatized untreated and treated permanent anterior incisor teeth 12-22/32-42 will only be recorded as YES or NO. Specific tooth numbers and the reason for the trauma will not be analyzed for the final report. If you wish to report on the specific tooth numbers and the reason for the trauma, record this information in the comment box. Where it cannot be definitively determined that the reason for a restoration is trauma, it shall be considered restored due to caries and recorded as **filled**.

Trauma permanent anterior incisor teeth 12-22/32-42-Yes/No

9. Treatment Level

This index provides an indication of the level of caries experience and caries treatment for the subject. Primary teeth are **excluded** from this measurement in grade six students. Sealants are **not** considered in this index.

- 1 No decay experienced
- 2 Complete caries care
- 3 Partial caries care
- 4 No caries care

Note: each of the following questions must be answered for every student.

10. Sealants (primary and permanent teeth)

This index is used to determine if the subject is considered to have/require sealants on one or more teeth. Both primary and permanent teeth are considered for this index, except for grade six subjects, where only permanent teeth will be considered. All teeth containing intact sealants will be considered sealed. A tooth that has a filling of permanent type material with a sealant placed over top will be recorded as filled. **Only record what is needed at the time of the examination.**

Partially erupted teeth that may require sealants in the future once fully erupted will not be included in this index.

Sealant Index

Sealants Present Yes/No

Sealants Needed Yes/No

11. Fluorosis (permanent teeth only)

A score is provided for the most severe level of fluorosis detected on the maxillary anterior teeth. Only permanent teeth are considered for this index. A tooth must be sufficiently erupted to determine the extent of the fluorosis. **If no permanent teeth are present or they are insufficiently erupted, this category is scored with an 8. Record the highest possible fluorosis score even if the condition does not appear on all six permanent, anterior, upper teeth.**

- 0 Enamel shows no evidence of fluorosis.
- 1 Enamel shows definite evidence of fluorosis, with areas of parchment-white color that total less than 1/3 of the visible enamel surface. This includes fluorosis confined only to the incisal edges – “snowcapping”.
- 2 Parchment-white fluorosis totals at least 1/3 of the visible surface, but less than 2/3.
- 3 Parchment-white fluorosis totals at least 2/3 of the visible surface.
- 4 Enamel shows staining in conjunction with any of the preceding levels of fluorosis. Staining is defined as an area of definite discoloration that may range from light to very dark brown.
- 5 Discrete pitting of the enamel exists, with no staining of the intact enamel. A pit is defined as a definite physical defect in the enamel surface with a rough floor that is surrounded by a wall of intact enamel. The pitted area is usually stained or differs in color from the surrounding enamel.
- 6 Both discrete pitting and staining of the intact enamel exists.
- 7 Confluent pitting of the enamel surface exists. Large areas of enamel may be missing and the anatomy of the tooth may be altered. Dark-brown stain is usually present.
- 8 Excluded.

12. Oral Hygiene Referral (primary and permanent teeth)

This indicates the presence of plaque, calculus, and/or gingival inflammation to the extent that the examiner feels that this subject requires professional intervention to improve the condition. It requires the use of professional discretion to determine the degree of deposits or inflammation that warrants a referral. This is a “theoretical referral” and the subject’s ability or likelihood to access professional care for this condition should not be considered:

YES Referral
NO No referral

13. Immediate Referral (primary and permanent teeth)

This indicates presence of infection or pain, due to oral conditions, that need immediate relief. Examples that may be recorded here included periapical abscess, acute necrotizing ulcerative gingivitis, or oral conditions that are causing the subject pain (gross caries, chronic alveolar abscess).

YES Infection and/or pain detected
NO No pain or infection detected

Appendix 2

Community Oral Health Dental Survey School Sample Selection 2009/2010

School Inclusion Criteria:

- Public or Separate Board¹
- Grades taught included ECS and Elementary¹
- Schools within the former Calgary Health Region boundaries²

Additional Exclusion Criteria

- Schools with "colony" in name¹
- Schools for disabled students

Total Number of schools in Calgary region: 633

Total number of schools Included: 277

Calgary	216
Outside of Calgary	61

Calgary School Selection Method

Schools assigned to neighborhood using postal code match file². Median neighborhood income was calculated³ for all neighborhood (n=122) with at least one school meeting eligibility criteria. Neighborhoods separated into four median income quartiles (see median income calculation section):

Quartile 1 (n=31)	< \$55,000
Quartile 2 (n=31)	\$55,001 - \$65,000
Quartile 3 (n=30)	\$65,001 - \$83,500
Quartile 4 (n=30)	> \$83,500

Schools falling into each quartile are as follows:

Quartile 1 (n=56)
Quartile 2 (n=65)
Quartile 3 (n=46)
Quartile 4 (n=49)

Random Selection

Schools were ordered by quartile and a random number generator was used (numbers between .00 and 1.00). Schools re-ordered by random number within quartile and first 5 selected. Additional 10 schools identified in the event schools elect non-participation.

Rural School Selection Method

Schools assigned to city/town using school postal code³. Based on number of children in city/town between the ages 5-12, cities / towns were categorized as having large, moderate or small child populations⁴. One school from each of the larger population areas were selected (Airdrie, Okotoks, Cochrane, Strathmore, High River, and Canmore). One school was randomly selected from among 7 more moderately sized cities or towns, and one school was randomly selected from the remaining 19 cities/towns (see Appendix)

Random Selection

Schools were ordered by grouping variable (Airdrie =1, Okotoks =2, Cochrane = 3, Strathmore = 4, High River = 5, Canmore =6, Moderate = 7 and Small = 8) and a random number generator was used (numbers between .00 and 1.00). Schools were re-ordered by random number variable within groups and first one selected. Two additional schools were identified in each group in the event schools elect non-participation.

Sources

- 1 <http://education.alberta.ca/apps/schoolsdir/> extract date: May 4, 2009
file name: eis1003p.xls
- 2 Postal code matching file pc_r3_mar_09.xls provided by Health outcomes (March 2009)
- 3 Beyond 20/20: file names -581-xcb2006002.ivt, 94-579-xcb2006002.ivt, 94-578-xcb2006002.ivt.
- 4 Population Registry File: Alberta Health Care Insurance Plan Stakeholder Registry Data (1992/933 - 2006/07).

Median Income Calculation

Total income refers to the total money income received during calendar year prior to the census by persons 15 years of age and over. The total income of a household is the sum of the total incomes of all members of that household. Household income of private households is categorized as under \$10,000, \$10,000 to \$19,999, \$20,000 to \$29,999...\$90,000 to \$ 99,999, and \$100,000 and over. Median household income at DA levels is used to calculate median household income for different geographic stratifications.

Median income of total household income is calculated using the following formula:

$$\text{Median} = L + I * (N/2 - F) / f$$

Where:

- L=lower limit of the interval containing the median
- I= width of the interval containing the median (10,000 in this example)
- N=total number of respondents at the geographic level
- F=cumulative frequency corresponding to the interval below where the median point falls
- f=number of cases in the interval containing the median

Rural Community	Number Schools Meeting Criteria	Population Children 5-12	Community Population	Recommend School Sampling	Group
AIRDRIE	7	3852	32084	1	1
OKOTOKS	5	2767	21979	1	2
COCHRANE	4	1999	18550	1	3
STRATHMORE	11	1609	13771	1	4
HIGH RIVER	3	1335	13702	1	5
CANMORE	2	954	11664	1	6
DIDSBURY	1	645	6774	randomly select 1 among these	7
CLARESHOLM	1	485	5197		7
DE WINTON	1	480	4722		7
CROSSFIELD	1	465	4316		7
LANGDON	1	448	3066		7
BANFF	1	416	7046		7
CARSTAIRS	1	413	4298		7
VULCAN	1	297	2919	randomly select 1 among these	8
NANTON	1	284	3203		8
BRAGG CREEK	1	261	2599		8
BLACK DIAMOND	1	211	2379		8
TURNER VALLEY	1	210	2332		8
BEISEKER	1	191	1556		8
LONGVIEW	1	153	1152		8
BLACKIE	1	147	1173		8
ROCKYFORD	1	141	1153		8
CREMONA	1	138	1365		8
MILLARVILLE	1	132	1295		8
CAYLEY	1	128	1001		8
HUSSAR	1	122	833		8
CARSELAND	1	118	1063		8
STANDARD	1	95	1014		8
GLEICHEN	1	80	771		8
STAVELY	1	71	814		8
EXSHAW	1	38	499	8	
BRANT	1	32	227	8	

Appendix 3

Participating Schools 2009-2010

Table 6.1

School Name
Banded Peak School
Brentwood Elementary School
Cardinal Newman Elementary Junior High School
Cecil Swanson School
Chinook Park School
Crossfield Elementary School
Douglas Harkness School
Ecole Edwards Elementary School
Elizabeth Barrett Elementary School
Elizabeth Rummel School
Ethel M. Johnson School
Falconridge School
Holy Spirit Academy
Holy Spirit Catholic School
Hugh Sutherland School
John Costello Catholic School
Langdon School
Maple Ridge School
Monsignor J. J. O'Brien School
Mount View School
O.S. Geiger School
Our Lady of Fatima School
Our Lady of the Assumption School
Our Lady of the Snows Catholic Academy
Sacred Heart Elementary School
Sir James Lougheed School
Spitzee Elementary School
St. Ambrose School
St. Angela Elementary
St. Basil Elementary/Junior High School
St. Benedict School
St. Clare School
St. Maria Goretti Elementary School
St. Mark Elementary School
St. Martha School
St. William School
Stavely Elementary School
Thornccliffe School
Vulcan Prairievew Elementary School
Westmount School

Appendix 4

**Community Oral Health
School Dental Survey Staff
2009/2010**

Community Oral Health Survey Staff

Survey examiner.....	Mari-Lou Ziegenhagel
Survey examiner.....	Nicole Warin
Survey examiner (spare).....	Holly Yip
Data Recorder.....	Brenda Bateman
Data Recorder.....	Cindy Bignell
Data Recorder (spare).....	Candida Stashko

Infrastructure

Calibration Dental Consultant.....	Dr. Steve Patterson
Infection Control Protocol.....	Lynn Petryk-Isaac
Epi-Info – Questionnaire.....	Candida Stashko/Holly Yip
Epi-Info – Consultant.....	Candida Stashko
Data Analysis.....	Holly Yip

Report

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Medical Officer of Health, Calgary Zone	Dr. Richard Musto