



Saskatchewan
Health

STATISTICAL REPORT ON THE SASKATCHEWAN HEALTH DENTAL PLAN

SEPTEMBER 1, 1986 to AUGUST 31, 1987

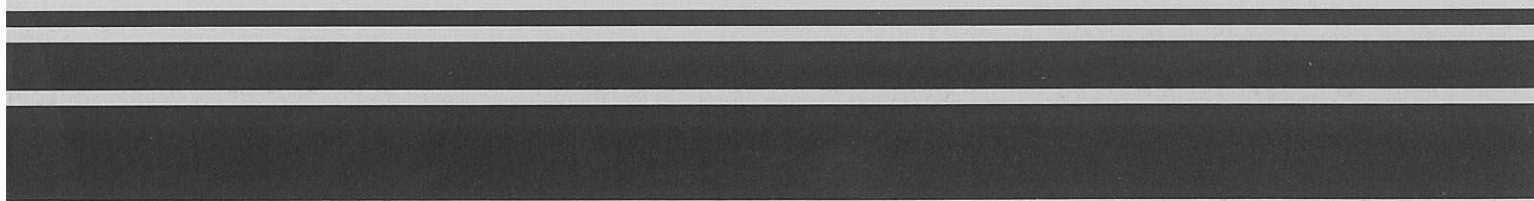


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Background on the Program

Saskatchewan Health implemented a comprehensive dental care program for children in 1974.

The delivery model consisted of department employed dentists, dental therapists and assistants providing services in school based clinics. Dental teams generally visited most schools in the province once per year and provided a basic scope of services to children enrolled in the Plan.

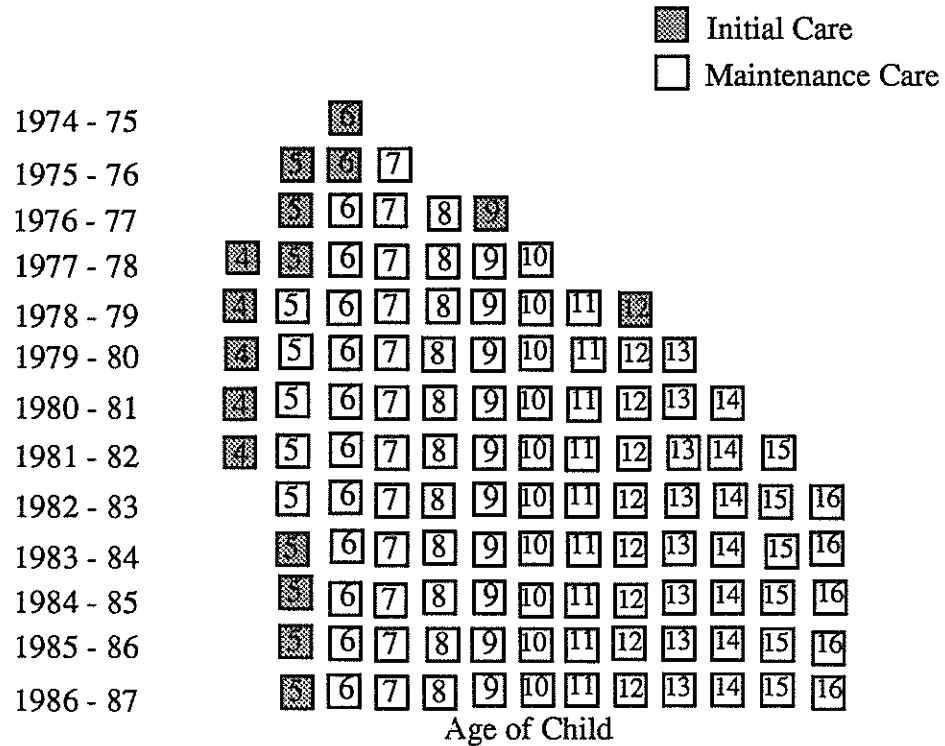
In the school year 1981-82 a bridging program was developed to support the transition of adolescents to private practice dentists. The program consisted of the assignment of adolescents to specific dentists by the parents or guardians. The Department of Health contracted to make a capitation payment (or uniform fee) to the College of Dental Surgeons of Saskatchewan for each adolescent making one or more visits to a participating dentist. The College remunerated each dentist according to a fee schedule designed for the Plan. A prescribed range of services was provided at no charge to the parents.

Children were enrolled in the Plan as follows:

ENROLLMENT DATE	YEAR OF BIRTH
September 1974	1968
September 1975	1969 1970
September 1976	1967 1971
September 1977	1972
February 1978	1973
September 1978	1966, 1974
September 1979	1975
September 1980	1976
September 1981	1977
September 1983	1978
September 1984	1979
September 1985	1980
September 1986	1981

Phase in Schedule

Program Year



The Northern Health Services Branch of Saskatchewan Health operates its own dental program for children and adolescents.

On April 1, 1982 the Saskatchewan Dental Plan assumed responsibility, on behalf of the Medical Services Division, for the administration of the Supplementary Health Benefits Dental Program.

Focus of the Report

This statistical report profiles:

- . enrollment in the Plan at August 31, 1987
- . the dental health of enrolled children and adolescents
- . services provided under the Plan

Table 1

Enrollment of Eligible Children and Adolescents¹ in the Dental Plan
as at August 31, 1987 (excludes Registered Indians)²

Age Group	Number Eligible	Number Enrolled	Percent Enrolled
Total	173,984	159,153	91.5
Born 1970	14,632	13,075	89.4
Born 1971	14,281	12,980	90.9
Born 1972	14,302	12,971	90.7
Born 1973	14,048	12,589	89.6
Born 1974	13,818	12,476	90.3
Born 1975	13,955	13,040	93.4
Born 1976	14,173	13,070	92.2
Born 1977	14,552	13,453	92.4
Born 1978	14,886	13,756	92.4
Born 1979	14,780	14,070	95.2
Born 1980	15,343	14,014	91.3
Born 1981	15,214	13,659	89.8

¹ Enrollment figures include those adolescents eligible for treatment by private practice dentists in the adolescent dental program.

² Enrollment figures for Registered Indians are reported separately.

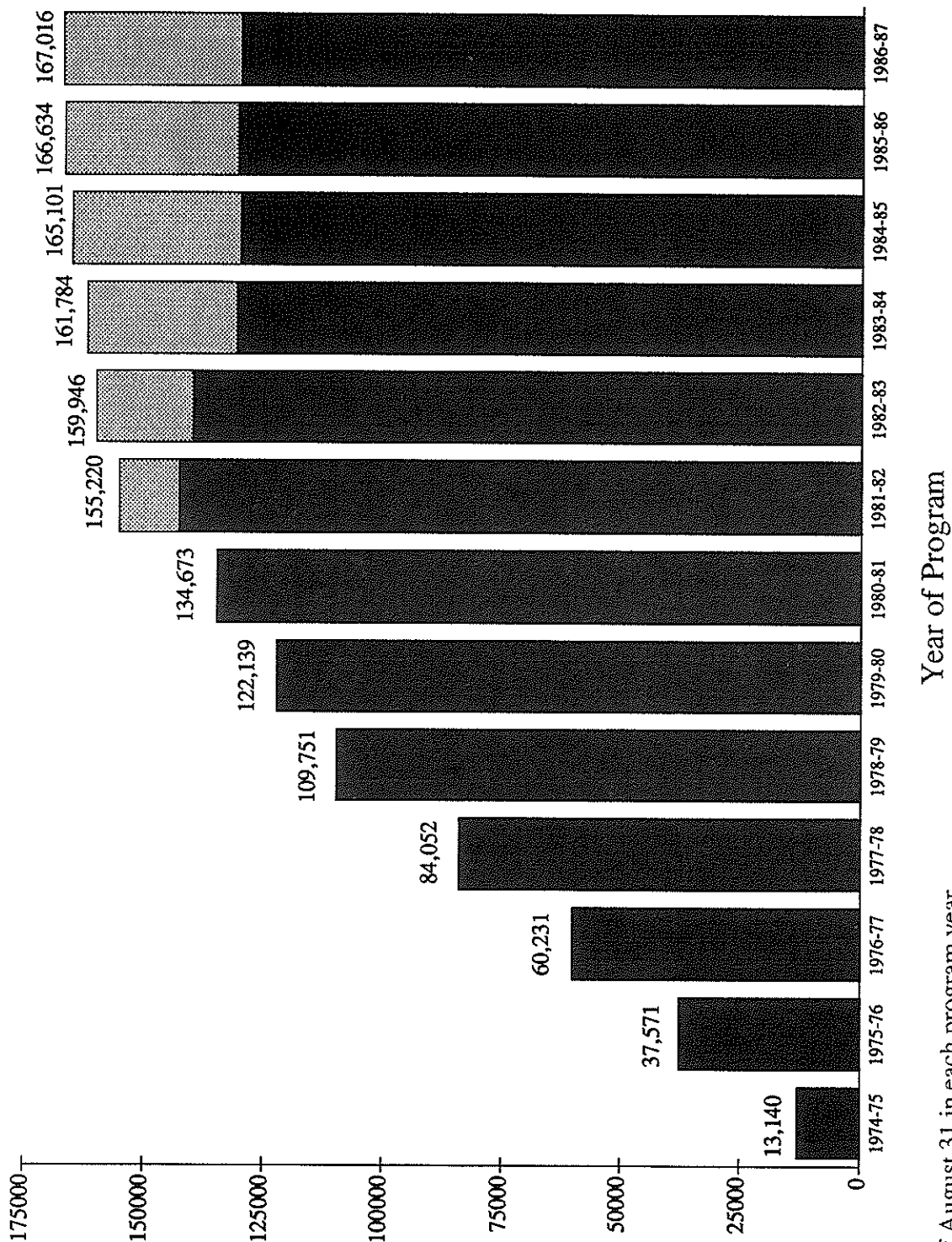
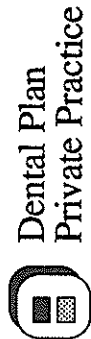
Table 2

Enrollment of Eligible Registered Indians¹
as at August 31, 1987

Age Group	Number Eligible	Number Enrolled	Percent Enrolled
Total	12,463	7,863	63.1
Born 1970	950	638	67.2
Born 1971	944	650	68.9
Born 1972	963	668	69.4
Born 1973	1,016	701	69.0
Born 1974	930	654	70.3
Born 1975	1,038	695	67.0
Born 1976	977	663	67.9
Born 1977	1,071	709	66.2
Born 1978	1,121	719	64.1
Born 1979	1,132	674	59.5
Born 1980	1,188	597	50.3
Born 1981	1,133	495	43.7

¹ Enrollment figures include those adolescents eligible for treatment by private practice dentists in the adolescent dental program.

Total Number of Enrolled Children and Adolescents
by Program Year (Includes Registered Indians)



As of August 31 in each program year

Year of Program

Table 3

Dental Health of Enrolled Children and Adolescents
September, 1986 - August, 1987

	Average Number or Percent Per Adolescent By Year of Birth					Average Number or Percent Per Child by Year of Birth						
	1970*	1971*	1972*	1973*	1974*	1975*	1976*	1977*	1978	1979	1980	1981
Decayed, extracted, filled deciduous teeth (DEF)	-	-	-	-	-	-	-	-	3.31	2.90	2.63	2.37
Decayed.....	-	-	-	-	-	-	-	-	.43	.55	.78	1.88
Extracted.....	-	-	-	-	-	-	-	-	.18	.13	.10	.05
Filled.....	-	-	-	-	-	-	-	-	2.68	2.21	1.74	.44
Decayed, missing, filled permanent teeth (DMF)	6.61	5.86	4.81	3.82	2.90	2.13	1.55	1.14	.78	.39	.14	.02
Decayed.....	1.02	1.00	.90	.57	.50	.37	.28	.27	.26	.21	.11	.02
Missing.....	.09	.09	.09	.21	.12	.06	.02	.01	.00	.00	.00	.00
Filled.....	5.49	4.76	3.81	3.04	2.27	1.69	1.24	.86	.52	.17	.02	.00
Total DEF plus DMF.....	-	-	-	-	-	-	-	-	4.09	3.30	2.78	2.40
Children with DMF of 0..	6.13%	8.06%	11.09%	14.86%	22.36%	31.31%	41.35%	51.36%	62.37%	78.43%	91.24%	98.39%
Children with DEF of 0..	-	-	-	-	-	-	-	-	25.54%	32.33%	40.44%	47.01%
Children with DMF plus DEF of 0.....	-	-	-	-	-	-	-	-	21.13%	29.52%	38.98%	46.83%
Decayed deciduous and permanent teeth.....	-	-	-	-	-	-	-	-	.69	.76	.90	1.90
Filled deciduous and permanent teeth.....	-	-	-	-	-	-	-	-	3.21	2.39	1.77	.44
Ratio filled deciduous plus permanent teeth to DMF plus DEF.....	-	-	-	-	-	-	-	-	.78	.72	.63	.18
Ratio missing plus extracted to filled teeth.....	.01	.01	.02	.06	.05	.04	.04	.04	.06	.05	.05	.12
Permanent teeth erupted and not decayed.....	20.95	21.46	22.11	21.19	20.40	17.45	14.02	11.36	9.75	7.52	3.83	.71
Deciduous teeth filled and redecayed.....	-	-	-	-	-	-	-	-	.08	.07	.06	.04
Permanent teeth filled and redecayed.....	.07	.07	.05	.04	.03	.02	.02	.01	.00	.00	.00	.00

* Dental health indices on deciduous teeth for these children and adolescents have not been reported since too high a proportion of deciduous teeth have already been shed.

Table 4

Dental Health of Enrolled Adolescents

September, 1986 - August, 1987

	Year of Birth					
	1970		1971		1972	
	Assigned to Dental Plan	Assigned to Private Practice	Assigned to Dental Plan	Assigned to Private Practice	Assigned to Dental Plan	Assigned to Private Practice
Decayed, missing, filled permanent teeth (DMF/child)	7.09	6.52	6.31	5.75	5.19	4.64
Decayed	.73	1.07	.77	1.06	.77	.96
Missing	.37	.04	.32	.03	.24	.03
Filled	5.99	5.40	5.21	4.65	4.18	3.64
% Children with DMF of 0	4.79	6.39	6.24	8.50	9.40	11.85

Schools with grades 9, 10 and 11 were designated as either Dental Plan schools or private practice schools. All schools assigned to private practice were within fifty kilometers driving distance of a participating dentist.

Table 5

Progression of Decayed, Missing and Filled
Permanent Teeth By Age
1974-75 to 1986-87

Age School Year	6	7	8	9	10	11	12	13	14
1974-75	.94	-	-	-	-	-	-	-	-
1975-76	.80	1.95	-	-	-	-	-	-	-
1976-77	.72	1.81	2.71	3.10	-	-	-	-	-
1977-78	.67	1.52	2.54	3.21	3.68	-	-	-	-
1978-79	.57	1.46	2.26	3.01	3.65	4.42	5.23	-	-
1979-80	.53	1.24	2.08	2.69	3.43	4.20	5.24	6.25	-
1980-81	.38	1.17	1.80	2.47	3.07	3.94	4.96	6.26	7.32
1981-82	.32	.93	1.76	2.30	2.96	3.63	4.71	5.86	7.17
1982-83	.31	.83	1.45	2.27	2.76	3.43	4.33	5.48	7.07
1983-84	.26	.71	1.23	1.80	2.57	3.18	4.05	4.99	6.38
1984-85	.23	.61	1.08	1.55	2.14	2.94	3.67	4.61	5.78
1985-86	.17	.52	.88	1.32	2.78	2.42	3.35	4.06	5.33
1986-87	.14	.39	.78	1.14	1.55	2.13	2.90	3.82	4.81

This table shows the improvements in the number of decayed, missing and filled permanent teeth for individual age groups from the 1974-75 program year to the 1986-87 program year. The number of decayed, missing and filled permanent teeth per six year old child declined from .94 in 1974-75 to .14 in 1986-87.

TABLE 6

SUMMARY OF CLINICAL SERVICES PROVIDED TO ENROLLED CHILDREN AND ADOLESCENTS*
September 1986 - August 1987

Services	Number (By Year of Birth)											TOTAL	
	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980		1981
Examinations	10,410	11,318	12,908	19,159	16,450	17,044	21,701	18,018	19,712	23,564	17,221	16,368	203,873
Bitewing x-rays	16,350	16,648	17,291	11,597	8,408	7,257	7,219	8,022	9,017	11,754	7,419	15,700	136,682
Cleanings	9,356	10,039	10,717	11,788	11,830	12,456	12,694	12,798	12,596	12,754	12,221	12,288	141,537
Fluoride	1,018	1,333	2,337	8,215	8,337	8,625	8,978	9,348	9,563	10,055	9,897	10,506	88,212
Oral hygiene Instruction	1,128	1,505	2,699	10,386	10,427	11,111	11,371	11,817	11,664	11,991	12,036	12,159	108,294
Fissure sealants	730	1,411	3,943	18,364	20,855	15,878	9,554	7,041	10,298	19,879	17,131	3,919	129,003
Fillings (primary)	29	43	54	179	386	1,202	2,840	5,499	7,598	9,878	10,470	22,269	60,447
Fillings (permanent)	9,511	10,147	10,630	9,316	7,514	5,544	4,514	4,370	4,163	3,665	1,971	416	71,761
White Composite Restorations	1,606	1,759	1,750	1,316	1,101	887	811	739	615	379	209	540	11,712
Crowns (stainless steel)	8	8	18	29	31	87	237	480	945	1,224	1,447	3,892	8,406
Root Canal Therapy	95	91	99	68	34	64	52	41	20	2	1	0	567
Extractions (primary)	467	533	836	875	1,374	1,894	1,882	1,631	1,406	1,579	1,632	1,365	15,474
Extractions(permanent)	8	10	20	43	47	48	28	23	9	6	2	0	244
Number of children seen one or more times	10,182	10,905	11,672	12,651	13,061	13,368	13,676	14,034	13,984	14,465	14,225	13,734	155,957
Percent of Children seen one or more times	74.25	80.00	85.57	95.19	99.47	97.32	99.58	99.09	96.60	98.10	97.35	97.03	93.29

*Includes services to enrolled registered Indians.