

## Yakima County Data Tables Smile Survey 2005

**Table 1  
Participation in the Yakima County Oral Health Survey  
Elementary Schools**

	Number of Schools	2 <sup>nd</sup> & 3 <sup>rd</sup> Grade Enrollment	Number Screened	Response Rate
Sample Schools*	18	3185	NA	NA
Participating Schools**	16	2636	2078	79%

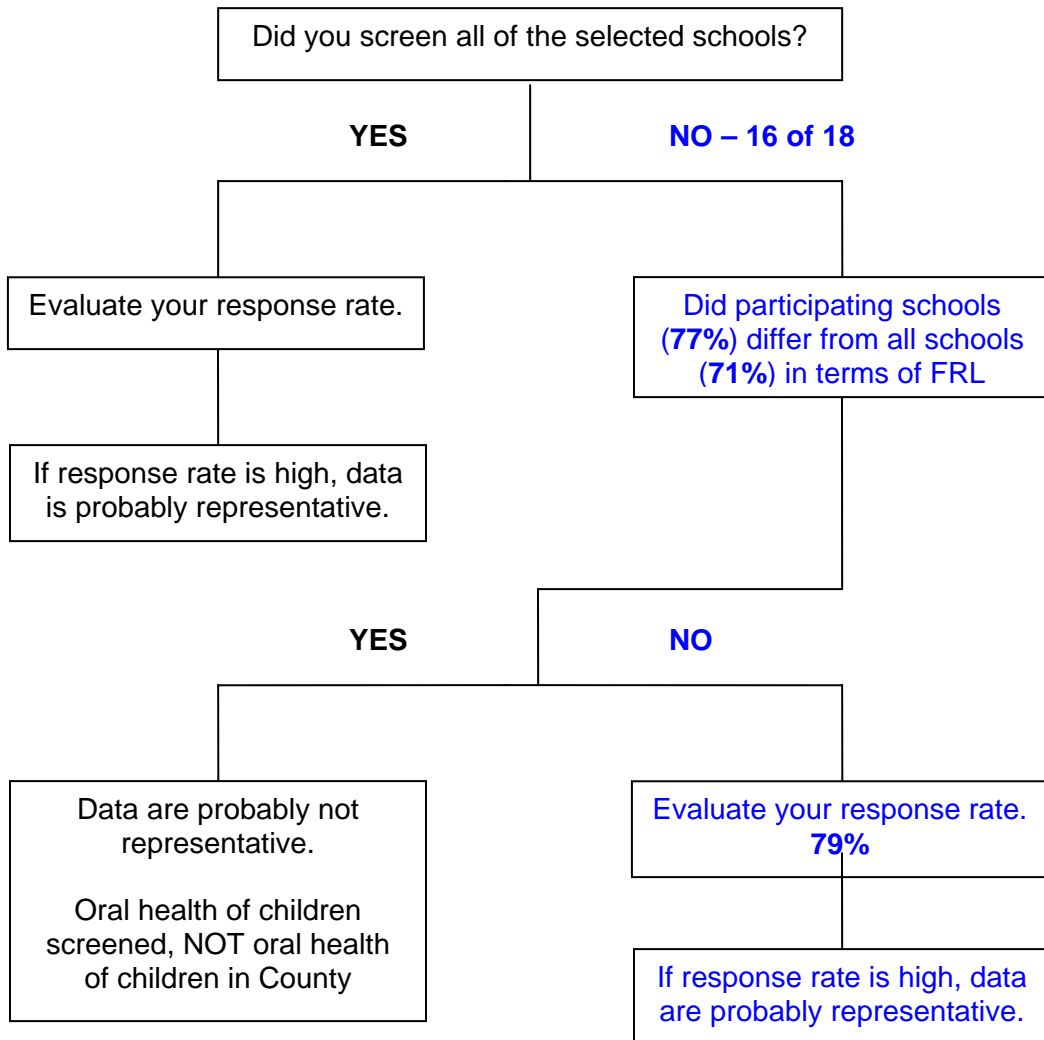
**Table 2  
Enrollment and Free/Reduced Price Lunch Program Participation in all Yakima County  
Elementary Schools with 2<sup>nd</sup> or 3<sup>rd</sup> Grade Enrollment,  
Sample Schools and Participating Schools**

	2 <sup>nd</sup> & 3 <sup>rd</sup> Grade Enrollment	Percent on FRL
Yakima County Schools with 2 <sup>nd</sup> and/or 3 <sup>rd</sup> Grade (n=44)*	21966	70.79
Sample Schools (n=18)*	3185	71.29
Participating Schools (n=16)**	2636	76.96

\*Source: Washington Office of Superintendent of Public Instruction, 2003-2004 School Year

\*\*Source: Washington Office of Superintendent of Public Instruction, 2004-2005 School Year and school administration at time of screening

**Are your data representative of the County? To help make this determination, answer the following questions?**



**IMPORTANT:** When stratifying by race, ESL or FRL eligibility; care must be taken to assure that the sample size is large enough to support stratification. If your sample size is small, you may not be able to complete all of the tables included in this sample.

**Table 3**  
**Demographics of the 2<sup>nd</sup> & 3<sup>rd</sup> Grade Children Screened in Yakima County**

Variable	Number of Children	Mean or Percent
Age	Age 7 = 238	Mean = 8.333 SD = .7452 Range 7-11
Mean (Standard Deviation)	Age 8 = 994	
Range	Age 9 = 727	
	Age 10 = 92	
	Age 11 = 4	
Grade		
2 <sup>nd</sup>	1045	50.3
3 <sup>rd</sup>	1032	49.7
Gender		
Male	1066	52.1
Female	976	47.7
Free/Reduced Lunch Eligibility	(State Sample Only)	
Not eligible	10	7
Eligible	133	93
Unknown	0	0
Language Spoken at Home		
English	1134	55.0
Spanish	917	44.5
Other	9	0.4
Unknown	2	0.1
Race/Ethnicity		
White	610	30.0
African American	23	1.1
Hispanic	1206	59.4
Asian	8	0.5
American Indian/Alaska Native	110	5.4
Other	55	2.7
Unknown	19	0.9

**Table 4**  
**The Oral Health of Yakima County's 2<sup>nd</sup> and 3<sup>rd</sup> Grade Children**

<b>Oral Health Measure</b>	<b>Percent</b>	<b>95% CI</b>
% caries free (no treated or untreated decay)	24.3	22.5 – 26.2
% with caries experience (has treated or untreated decay)	75.7	73.8 – 77.5
% with treated decay	67.4	65.4 – 69.4
% with untreated decay	25.3	23.5 – 27.3
% with rampant caries (7+ teeth with caries experience)	41.1	39.0 – 43.2
% with dental sealants	45.2	43.0 – 47.4
2 <sup>nd</sup> and 3 <sup>rd</sup> grade	44.3	41.3 – 47.4
3 <sup>rd</sup> grade only		
Treatment Need		
% with no obvious problem	76.6	74.7 – 78.4
% needing early dental care	16.5	14.9 – 18.1
% needing urgent dental care	6.9	5.9 – 8.1

**Table 5**  
**Distribution of Treated Decay, Untreated Decay and Caries Experience**  
**Among the Primary & Permanent Dentitions for Yakima County's 2<sup>nd</sup> & 3<sup>rd</sup> Grade Children**

	<b>Percent of Children</b>
Treated Decay	
No treated decay	32.6
Primary teeth only	53.8
Primary and permanent teeth	11.9
Permanent teeth only	1.8
Untreated Decay	
No untreated decay	74.7
Primary teeth only	19.8
Primary and permanent teeth	2.6
Permanent teeth only	3.0
Caries Experience	
No caries experience (caries free)	24.3
Primary teeth only	57.2
Primary and permanent teeth	16.1
Permanent teeth only	2.4

**Table 6**  
**Oral Health of Yakima County's 2<sup>nd</sup> and 3<sup>rd</sup> Grade Children Stratified by Race/Ethnicity**

Variable	White Non-Hispanic (n=610)	Other Race or Hispanic (n=1401)	P-Value
% with caries experience	65.2	80.0	0.0000*
% with untreated decay	19.2	27.9	0.0000*
% with rampant caries	30.7	45.6	0.0000*
% with dental sealants	47.2	44.5	0.2612
% needing treatment	15.9	26.5	0.0000*

\* p < 0.0001

**Table 7**  
**Oral Health of Yakima County's 2<sup>nd</sup> and 3<sup>rd</sup> Grade Children Stratified by Language**

Variable	English (n=1133)	Other Language (n=926)	P-Value
% with caries experience	72.6	79.4	0.0004**
% with untreated decay	24.5	26.1	0.4066
% with rampant caries	39.1	43.6	0.0392*
% with dental sealants	43.6	47.2	0.0987
% needing treatment	22.3	24.5	0.2331

\*p < .05

\*\*p < .001

**Table 8**  
**Oral Health of Yakima County's 2<sup>nd</sup> and 3<sup>rd</sup> Grade Children Stratified by Eligibility for the Free or Reduced Price Lunch Program**

<b>Variable</b>	<b>Not Eligible (n=10)*</b>	<b>Eligible (n=133)*</b>	<b>P-Value</b>
% with caries experience	60	79.7	0.1448
% with untreated decay	30	31.6	0.9174
% with rampant caries	50	47.4	0.8723
% with dental sealants	40	28.6	0.4441
% needing treatment	33	29.8	0.8215

\*Data are not representative of all children within the county; n = 143.

**Table 9**  
**Enrollment in all Yakima County Head Start/ECEAP Programs, Enrollment at Participating Programs, Number Screened and Response Rate in Yakima County**

	Enrollment	# Screened	Response Rate
Yakima County Head Start / ECEAP Programs (n=32)	1839	NA	NA
Participating Head Start Programs (n=18)	857	683	79.7%

**Table 10**  
**Demographics of the Head Start / ECEAP Children Screened in Yakima County**

Variable	Number of Children	Mean or Percent
Age		
Mean (Standard Deviation)	683	4.3997 yrs
Range		3-5 yrs
Gender		
Male	336	49.1
Female	349	50.9
Language Spoken at Home		
English	319	46.6
Spanish	364	53.1
Other	1	0.1
Unknown	1	0.1
Race/Ethnicity		
White	99	14.5
African American	8	1.2
Hispanic	445	65.0
Asian	1	0.1
American Indian/Alaska Native	125	18.2
Other	7	1.0
Unknown	0	0

**Table 11**  
**The Oral Health of Yakima County's Head Start Children**

Oral Health Measure	All Children (n=685)		3-5 Year Olds Only (n=683)	
	Percent	95% CI	Percent	95% CI
% caries free	43.1	39.3 – 46.9	43.0	39.3 – 46.9
% with caries experience	56.9	53.1 – 60.7	57.0	53.1 – 60.7
% with treated decay	41.6	37.9 – 45.4	41.6	37.9 – 45.4
% with untreated decay	26.6	23.3 – 30.1	26.6	23.4 – 30.2
% with rampant caries	31.5	28.1 – 35.2	31.5	28.0 – 35.1
% with ECC	36.5	32.9 – 40.2	36.3	32.7 – 40.1
% with white spot lesions	55.5	51.7 – 59.2	55.5	51.7 – 59.2
Treatment Need				
% with no obvious problem	76.2	72.8 – 79.3	76.1	72.7 – 79.2
% needing early dental care	18.0	15.2 – 21.1	18.0	15.2 – 21.1
% needing urgent dental care	5.8	4.3 – 7.9	5.9	4.3 – 8.0

**Table 12**  
**Oral Health of Yakima County's Head Start Children Stratified by Race / Ethnicity**  
**3-5 Year Old Children Only**

Variable	White Non-Hispanic (n=99)	Other Race or Hispanic (n=584)	P-Value
% with caries experience	38.4	60.1	0.0000***
% with untreated decay	17.2	28.3	0.0211*
% with rampant caries	19.2	33.6	0.0044**
% with ECC	23.2	38.5	0.0034**
% with white spots	47.5	56.8	0.8265
% needing treatment	17.2	25.0	0.0910

\*p < .05

\*\*p < .005

\*\*\* p < .001

**Table 13**  
**Oral Health of Yakima County's Head Start Children Stratified by Language**  
**3-5 Year Old Children Only**

Variable	English (n=318)	Other Language (n=364)	P-Value
% with caries experience	56.9	56.9	0.9894
% with untreated decay	27.7	25.5	0.5309
% with rampant caries	35.8	27.5	0.0187*
% with ECC	38.7	34.3	0.2399
% with white spots	53.8	56.9	0.4173
% needing treatment	27.4	20.6	0.0387*

\* p < .05

**Appendix 1**

**2<sup>nd</sup> & 3<sup>rd</sup> Grade Enrollment, Response Rate, and FRL Percent  
at the Participating Elementary Schools  
in Yakima County**

<b>County</b>	<b>School – School District</b>	<b># Enrolled*</b>	<b># Screened</b>	<b>Response Rate</b>	<b>FRL Percent**</b>
Yakima	Summitview – West Valley	100	78	78.00	30.37
Yakima	Marcus Whitman – Cowiche	181	160	88.40	79.89
Yakima	McClure – Yakima	210	169	80.48	78.55
Yakima	Smith – Grandview	155	76	49.03	85.54
Yakima	Satus – Wapato	200	162	81.00	93.07
Yakima	Roosevelt – Granger	236	211	89.41	96.23
Yakima	Valley View (West) – Toppenish	121	106	87.60	88.99
Yakima	Cottonwood – West Valley	100	86	86.00	28.15
Yakima	John Campbell – Selah	221	146	66.06	41.44
Yakima	Union Gap – Union Gap	135	110	81.48	76.52
Yakima	Thompson – Grandview	170	108	63.53	84.46
Yakima	Camas – Wapato	196	186	94.90	92.11
Yakima	Adams – Wapato	128	120	93.75	85.04
Yakima	McClure – Grandview	177	113	63.84	87.65
Yakima	Garfield – Yakima	146	137	93.84	94.61
Yakima	Kirkwood – Toppenish	<u>160</u>	<u>110</u>	<u>68.75</u>	<u>88.76</u>
	<b>Total Students Grades 2-3</b>	<b>2636*</b>			
	<b>Total Students Screened</b>		<b>2078</b>		
	<b>Average Response Rate %</b>			<b>79.13</b>	
	<b>Average FRL %</b>				<b>76.96</b>

\* Enrollment # from schools at time of 2005 survey

\*\*Source: WA Office of Superintendent of Public Instruction

**Appendix 2**

**Enrollment, Number of Students Screened, and Response Rate  
at Participating Head Start / ECEAP Programs  
In Yakima County**

<b>School - City</b>	<b># Enrolled*</b>	<b># Screened</b>	<b>Response Rate</b>
EPIC – Toppenish	72	64	88.9
WA State Migrant Council – Mabton	40	25	62.5
EPIC – West Valley	18	18	100
Lince & Campbell – Selah	95	82	86.3
EPIC – Fairview	72	51	70.8
EPIC – Tieton	36	29	80.6
EPIC – Parker Heights	76	59	77.6
WA State Migrant Council – Grandview	110	82	74.5
Early Childhood Center – Granger	51	43	84.3
WA State Migrant Council – Granger	40	31	77.5
YVCC/ Jane’s House Early Learning Center – Yakima	14	13	92.9
WA State Migrant Council – Wapato	36	27	75.0
Yakama Nation Head Start – Wapato	44	42	95.5
Yakama Nation Head Start – Toppenish	63	49	77.8
Yakama Nation Head Start – White Swan	30	30	100
Barge-Lincoln – Yakima	24	19	79.2
Adams – Yakima	<u>36</u>	<u>19</u>	<u>52.8</u>
<b>Total Enrolled</b>	<b>857</b>		
<b>Total Screened</b>		<b>683</b>	
<b>Average Response Rate</b>			<b>79.7%</b>
<b>*Enrollment # from schools at time of survey</b>			