

STATE OF COLORADO

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Dedicated to protecting and improving the health and environment of the people of Colorado

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Colorado Department
of Public Health
and Environment

Colorado School Sealant Program

Request for Application

2008-2009

Due Date: August 15, 2008 COB

**Oral Health Unit, Prevention Services Division
Colorado Department of Public Health & Environment**

Application Packet Instructions

- 1. Part 1 Complete grant cover sheet.**
- 2. Part 2 Complete attached Scope of Work and include signature of approved designee.**
- 3. Part 3 Complete Budget. Please have budget reflect all three years of grant request.**
- 4. Part 4 Complete the Sealant Program Implementation worksheet (New applicants only).**
- 5. Part 5 Complete the Vendor Disclosure Statement.**
- 6. Please provide a copy of a current "Certificate of Liability Insurance" on which The State of Colorado is listed as a "covered entity."**
- 5. Send the completed application packet to the Oral Health Unit at CDPHE, 4300 Cherry Creek Drive South, PSD-OH-A4, Denver, CO 80246, or email to megan.martinez@state.co.us or you may fax to the Oral Health Unit at 303.782.5576 attention Megan Martinez, Oral Health Unit.**

If you have any questions about this application or need further information please contact Megan Martinez, MPH by phone at 303.692.2529 or email at megan.martinez@state.co.us

School Sealant Program Grant Application

Public Health Statement of Need

In recent decades in Colorado and, more broadly the United States, substantial improvements have been made in reducing dental caries (tooth decay or cavities). Dental caries is a bacterial infection that if left untreated can cause abscesses and tooth loss, low self-esteem and weight issues in children. Nonetheless, despite continuing advances in highly effective measures of primary prevention, dental caries remains the most common childhood disease.

Dental caries can result in considerable disease burden, particularly among children and adolescents from low-income families, who are almost twice as likely to have untreated dental caries as other children.¹ Oral pain and acute infection causes an estimated 7.8 million hours of school to be lost each year in Colorado alone according to the *Impact of Oral Disease on the health of Coloradans*² document.

In 2003 the United States Surgeon General released the first ever report on the oral health status of Americans. The report stated in part, "...there are profound and consequential disparities in the oral health of our citizens. Indeed, what amounts to a 'silent epidemic' of dental and oral diseases is affecting some population groups."¹ { TA \l "3" \s "US Department of Health and Human Services. Oral Health in America: A Report of the Surgeon General. Rockville, MD: US Department of Health and Human Services, National Institute of Dental and Craniofacial Research, National Institutes of Health, 2000." \c 3 } In the United States, 80% of children's decayed, missing, or filled permanent teeth are found in 25% of children 5-17 years of age who have at least one permanent tooth.³ Ninety percent of the dental caries are found in pits and fissures, and molar teeth are often the first and most frequent permanent teeth in a child's mouth to become decayed.

Evidence-based interventions

Effective measures exist that can prevent the lifetime of suffering from the chronic dental infection, dental caries. Fluoride use has been credited with much of the decline in dental decay over the past four decades but has limited effectiveness on the chewing surfaces (pits and fissures) of teeth. Thorough brushing and flossing help remove food particles and plaque from smooth surfaces of teeth, but toothbrush bristles are too large and cannot reach all the way into the depressions and grooves on the chewing surfaces of teeth to extract food and plaque. Dental sealants are a plastic resin that bonds mechanically into the depressions and grooves (pits and fissures) of the chewing surfaces. Sealants protect these vulnerable areas by "sealing out" plaque

and food and act as a barrier, protecting enamel from acids that cause tooth decay. Research has shown that dental sealants, when retained intact, are nearly 100% effective in preventing dental caries in permanent molar teeth, especially when used in combination with other preventive measures such as fluoride, and regular brushing.

Yet this effective intervention is unequally available across the population. Children of racial and ethnic minority groups, who also have about three times more untreated dental caries and missing teeth due to dental caries, are about one-third as likely to receive sealants.

According to *Oral Health in America: A Report of the Surgeon General, 2000*, children who receive dental sealants as part of a school-based or school-linked program have 60% fewer newly decayed pit and fissure surfaces in back teeth for at least 2 to 5 years after a single application.

Description of Program

As part of a broader goal to reduce the burden of oral diseases on Coloradans, the Colorado Department of Public Health & Environment's Oral Health Unit is supporting two evidence-based primary prevention interventions; fluoridation and school sealant programs.

Be Smart & Seal Them! is a school-based or school-linked dental sealant project designed to provide sealants to children at the greatest risk of developing caries, but are otherwise unlikely to receive them. A key aspect to the success of school sealant programs is the targeting to those individuals at greatest risk, and due to various factors that influence a molar tooth's susceptibility to dental caries, there is a narrow "window of opportunity" when sealants provide the greatest protection from dental caries. The teeth must be fully erupted into the mouth, yet not yet succumbed to infection. The project specifically targets low-income second grade children to capitalize on this "window of opportunity".

The Be Smart and Seal Them! project contracts with local providers, school districts, health departments etc. to ensure that Colorado second graders at greatest risk for dental caries are afforded the opportunity to receive dental sealants at no cost to their family.

Two models of school sealant delivery are supported through Be Smart and Seal Them!

School-Based dental sealant programs are conducted completely within the school setting. Volunteer or paid dentists, hygienists and/or assistants and students use portable dental equipment or a fixed facility within the school to conduct the entire program. The school is given

the opportunity to be involved in all aspects of the program and can monitor the process to the extent they wish.

School-Linked dental sealant programs are connected with the schools in some way, but deliver the sealant placement services at a site other than the school. It may be done in a clinic, mobile unit or dental office. School-linked programs deliver the same services of screening, education, sealants and follow-up, but are more removed from the school building.

School Selection

Annually the Oral Health Unit determines qualifying schools based on criteria approved by the Centers for Disease Control (CDC), the Association of State and Territorial Dental Directors and the Health Resources and Services Administration's Maternal and Child Health Bureau. (Appendix A Selection Criteria) General selection criteria includes all urban schools that have a student population of 50% or more that qualify for free and reduced lunch or a rural school district that has a median income at or below 235 percent of the federal poverty line for the entire district. School free and reduced lunch information from the Colorado Department of Education is the primary data used in the school qualification process.

Scope of the Project

School sealant programs provide,

- A dental screening to evaluate the dental needs and assess the tooth for the appropriateness of sealant placement.
- Placement of dental sealants on permanent first molars.
- Referral into dental care for dental examination, restorative and other treatments that are outside of the scope of a dental sealant program.
- Oral hygiene instruction.
- Annual re-assessment for sealant retention and re-application if it is determined the sealant has been lost or is no longer sound.

Evaluation and Reporting

In an on-going effort to improve school sealant programs and to remain accountable to those agencies that support this project, the Oral Health Unit requires quarterly reporting of standardized indicators of program activity through Sealant Accountability and Efficiency for Locals and States (SEALS) software.

Funding Limitations

There are limited funds available from the Colorado Department of Public Health & Environment Oral Health Unit to fund school-based or school-linked sealant programs. The funds are available through a contract process and can be used for the following activities:

- As planning funds to hire staff to conduct the planning and the program implementation.
- To pay an existing staff member to coordinate and implement the program including dentists/hygienists hourly for providing actual services, (not per sealant placed), data entry staff, and dental assisting staff.
- To assist providers and patient transportation to and from sites.
- For evaluation of the program and data entry into required software.
- For training and technical assistance.
- To offset costs of "Covered Entity" liability coverage.

The Oral Health Unit funds cannot pay for disposable supplies or paper supplies. These items will need to be provided in-kind, from volunteer sources, a private practice, by donation to the program, or through another grant process such as Seal America. This includes the actual sealant material, disposable materials, capital equipment or other useable services and goods.

Awards

The average amount awarded will range from \$8,000 to \$12,000 per year and will be based on the Review and Selection Criteria listed in the next section, and contract compliance and evaluation of quarterly reports from SEALS. Please contact the Oral Health Unit if you anticipate a request for greater than the average award.

Review and Selection Criteria

Grantee selection will be based on existing sealant programs that maintain a low (below \$40) cost per surface sealed. The degree to which the program targets school on the qualifying school list. The success the program demonstrates in reaching the target population as shown in the percent and number of children in programs receiving at least one permanent molar sealant; and proportion of children participating in free and reduced-cost lunch program receiving at least one sealant.

New Awards

New awards will be based on the degree to which the program targets schools on the qualifying school list (Appendix A and B), and the quality of sealant Program Implementation Plan (see Part 4 worksheet).

References

1. U. S. Department of Health and Human Services (2000). *Oral Health in America: A Report of the Surgeon General*. Rockville, MD: US Department of Health and Human Services, National Institute of Dental and Craniofacial Research, National Institutes of Health.
2. Colorado Department of Public Health and Environment, Oral Health Program (2005). *The impact of oral disease on the health of Coloradans*. Denver, CO.
3. Brown, L. J., Kaste, L. M., Selwitz R. H., Furman, L. J., (1996). Dental caries and sealant usage in US children, 1988-1991. *Journal of the Merican Dental Association*. 127:335-343.

School Sealant Program Grant Application
Part 1-Cover Sheet
Grant Period October 1, 2008- September 30, 2011

Applicant/Company/Agency Name:

Point of Contact (Who would we call to ask about the application or the program):

Title:

Address:

Email Address:

Phone Number:

Fax Number:

This is a **Planning Grant** (one year only) **Implementation Grant** (three years)

If you will be using these funds for a 1-year planning period, please contact the Oral Health Unit for budget guidance and scope of work.

Type of Program:

School-Based

School-Linked

Personnel working on project and job title, and major responsibilities. Please complete the information only for those personnel that pertain to your program.

Program Administrator:

Program Coordinator:

Service Provider(s) DDS or RDH:

Dental Assistant:

Data Entry:

Counties/school districts Served:

Target Population:

-Schools/sites targeted and why (over 50% Free and Reduced, median income 235% below poverty line)

-Students targeted and why (grades or ages of kids targeted)

Estimated number of 2nd grade children in service area:

Services Provided:

-Services provided to target population and how often (sealants, screenings, oral hygiene education, restorative)

-Protocol for referring services not provided (type of documentation recorded and given to kids/parents)

-Follow up to assure comprehensive care (how you check if referral treatment has been completed)

Amount Requested (for all three years of implementation):

{YOUR LETTERHEAD}

**Part 2-Scope of Work between
the Oral Health Unit (OHU) at the Colorado Department of Public Health and Environment
and [SEALANT PROGRAM CONTRACTOR]**

This SCOPE OF WORK will be in place from October 1, 2008 – September 30, 2011. The OHU and the [SEALANT PROGRAM CONTRACTOR] agree to work in a collaborative fashion to assure provision of pit and fissure sealants to eligible second grade children in the [SCHOOLS/SCHOOL DISTRICTS OR COUNTIES].

The Oral Health Program agrees to:

1. Provide [THREE YEAR TOTAL REQUESTED AMOUNT] to support the [NAME OF SEALANT PROGRAM CONTRACTOR].
2. Provide updates regarding trends, science, policies and procedures related to school-based/school-linked sealant programs.
3. Provide list of qualifying schools for contractors to select from and meeting national standards for targeted population selection. (Appendix B).
4. Provide technical assistance and consultation to the [SEALANT PROGRAM CONTRACTOR].
5. Provide training and technical assistance in using the SEALS software program.
6. Host quarterly sealant technical assistance and networking sessions.

The [SEALANT PROGRAM CONTRACTOR] agrees to:

1. Select sites for program participation each year based on criteria defined by the OHU (Appendix A), or choose schools for program implementation from Appendix B.
2. Provide to the OHU a schedule of sites to be visited including sites name and dates of service.
3. Demonstrate sealant program implementation integrity through utilization The Community Guide <http://www.thecommunityguide.org/oral/oral-int-seal.pdf>. (Appendix C) and a written Program Implementation Plan.
4. Provide any updates to the OHU related to program implementation throughout the year.
5. Contact site personnel to set up the logistics of the program within each school.
6. Provide consent forms and information on sealants to all second grade families in each participating school in English and Spanish.
7. Provide oral health screenings for all second graders who return consent forms in each participating school regardless of insurance status.
8. Provide oral hygiene instruction to each participating child.
9. Provide sealants for each child identified in need, and who returned parent permission.
10. Provide oral health information for parents including the results of the screening and referral information.
11. Provide appropriate referrals for children who need restorative or emergency dental care.
12. Maintain a retention rate of 85% or better.
13. Invoice quarterly 12/31, 3/31, 6/30, and 9/30 with accompanying status reports.
14. Submit quarterly status reports using the SEALS (Sealant Efficiency Assessment for Locals and States) Software provided by the OHU staff. Each quarterly report should contain:
 - a. Child level data file
 - b. Event level data file
 - c. Program report

Part 3-Budget

Budget Line Item	Oral Health Unit funding requested	Other grants and cash resources	In Kind	Total Budget
<i>Personnel</i>				
Project Coordinator	\$	\$	\$	\$
Administration	\$	\$	\$	\$
Other*	\$	\$	\$	\$
<i>Office Costs</i>				
Printing/Copying	\$0.00	\$	\$	\$
Educational Mat.	\$0.00	\$	\$	\$
Meeting Costs	\$0.00	\$	\$	\$
<i>Materials</i>				
Sealant Materials	\$0.00	\$	\$	\$
Disposable Materials	\$0.00	\$	\$	\$
Infection Control	\$0.00	\$	\$	\$
<i>Transportation</i>				
Mileage	\$	\$	\$	\$
Vehicle Maintenance	\$0.00	\$	\$	\$
<i>Evaluation</i>				
Data Entry	\$	\$	\$	\$
TOTAL BUDGET				

* Other Personnel includes Dental Hygiene staff/assistants please break down % time

Part 4-Program Implementation Plan (New applicants only)

Review Appendix C, the [Community Guide](#) and the [Be Smart and Seal Them!](#) Manual for assistance in completing this plan.

Click the cursor to the gray text box and begin typing.

General Information:

-Mission and Vision (optional)

-Year program started

-Historical data (number of kids served at number of schools, and number of services provided)

Example Program Description:

ABC Seals is a school-based sealant program that has provided oral hygiene education, basic screenings, and sealants to selected schools in Rogers, Colorado since 1993. Our mission is to improve the oral health of the kids of Rogers, Colorado through prevention. Our program targets elementary schools having at least 50% of its students on Free and Reduced Lunch. This includes Rogers Elementary, and Helping Hands Elementary schools. Oral hygiene education is provided to every grade in each school annually. Basic dental screenings and dental sealants are completed annually on second graders. Our program also provides referral guidance to children who have additional dental needs. We give out a referral list to any students marked with needing further dental care. We complete retention checks on third grade children and re-seal any sealants that may have come off. We also ask about referred dental care at the time of the retention check, and document barriers if students have not received additional care. Since inception, ABC Seals has provided 235 students with over 800 sealants and will continue to help serve the children of Rogers, Colorado.

Sealant Eligibility and Placement	
<p><u>Tooth Eligibility:</u></p> <p>How do you decide to seal a tooth?</p> <ul style="list-style-type: none"> -Caries status? -Eruption status? <p><i>It is recommended you only reject a tooth if it has cavitated decay or it has not erupted enough to keep isolated and dry.</i></p>	<p><u>Answer/Description:</u></p>
<p><u>Sealant Placement Protocol:</u></p> <p>What is your protocol for sealing teeth?</p> <ul style="list-style-type: none"> -How do you prepare the tooth? (clean, isolate, dry) -What sealant materials do you use? (etch, bond, light or auto cure, filled or non filled) -Are you using two or four handed dentistry? <p><i>It is recommended you follow the guidelines for placing sealants in Appendix C.</i></p>	<p><u>Answer/Description:</u></p>

Program Implementation Plan

Con't...

<p><u>Follow-up and Referrals:</u></p> <p>What is your protocol to assure retention checks are made?</p> <p>How do you find out if treatment was rendered from the referral you made?</p> <p><i>It is recommended you try and do a retention check in the following school year and questions are asked and evaluations are completed regarding referred services.</i></p>	<p><u>Answer/Description:</u></p>
<p><u>Consistency and Calibration:</u></p> <p>How do you assure everyone on your team is evaluating, providing care, and recording information the same way?</p> <p>-Do you have documents to follow?</p> <p>-Do you have team meetings to assure consistency?</p> <p>-Do you have any way to check and address errors?</p>	<p><u>Answer/Description:</u></p>

PART 5-
VENDOR DISCLOSURE STATEMENT
Contract Performance Outside the United States or Colorado
Colorado Revised Statute 24-102-206

Contract or Purchase Order Routing Number: For state use only.

Vendor Name: _____

**The person completing this form should be the business' President, Board Chairperson,
Contract's Authorized Signatory or the Purchase Order's Statement of Work Signatory.**

This form shall be completed and returned to the contracting agency. This applies to all state contracts and purchase orders for services executed after August 3, 2007.

1. Are any services under the contract or any subcontracts or purchase order anticipated to be performed outside the United States or Colorado?

Yes No

If "Yes", please complete the following two questions and then sign the form.

If "No", please sign the form.

2. Where will the services be performed under the contract, including any subcontracts or purchase order? (List country(ies) and/or state(s).

3. Explain why it is necessary or advantageous to go outside of the United States or the State of Colorado to perform the services under the contract or any subcontracts or purchase order.

Signature: _____

Printed Name _____

Title: _____

Date: _____

RETURN THIS FORM BY FAX OR MAIL

Appendix A

Sealant program school selection criteria

1. Urban areas, and in which more than 50 percent of the student population of that school or school entity is participating in Federal or State free and reduced lunch programs; and;
2. Rural school districts having a median income that is at or below 235 percent of the poverty line, as defined in the Children's Health Act of 2000, P.L.106-310, Title XVI, Section 1602,1603;

Appendix B
COLORADO DEPARTMENT OF EDUCATION
FALL 2007 K-12 FREE AND REDUCED LUNCH BY DISTRICT AND SCHOOL

County	District Name	School Name	% FRED	2nd
ADAMS	MAPLETON 1	MONTEREY COMMUNITY SCHOOL	60.92%	57
ADAMS	MAPLETON 1	MEADOW COMMUNITY SCHOOL	50.50%	50
ADAMS	MAPLETON 1	ACHIEVE ACADEMY	58.12%	45
ADAMS	MAPLETON 1	ADVENTURE ELEMENTARY	64.77%	50
ADAMS	MAPLETON 1	ENRICHMENT ACADEMY	66.79%	52
ADAMS	MAPLETON 1	VALLEY VIEW ELEMENTARY	50.58%	55
ADAMS	ADAMS 12 FIVE STAR	CORONADO HILLS ELEMENTARY SCHOOL	83.09%	71
ADAMS	ADAMS 12 FIVE STAR	ROCKY MOUNTAIN ELEMENTARY SCHOOL	59.46%	80
ADAMS	ADAMS 12 FIVE STAR	FEDERAL HEIGHTS ELEMENTARY SCHOOL	80.94%	98
ADAMS	ADAMS 12 FIVE STAR	HILLCREST ELEMENTARY SCHOOL	60.00%	72
ADAMS	ADAMS 12 FIVE STAR	LEROY DRIVE ELEMENTARY SCHOOL	60.56%	65
ADAMS	ADAMS 12 FIVE STAR	MALLEY DRIVE ELEMENTARY SCHOOL	57.32%	56
ADAMS	ADAMS 12 FIVE STAR	MC ELWAIN ELEMENTARY SCHOOL	88.22%	70
ADAMS	ADAMS 12 FIVE STAR	NORTH MOR ELEMENTARY SCHOOL	67.76%	72
ADAMS	ADAMS 12 FIVE STAR	NORTH STAR ELEMENTARY SCHOOL	86.97%	84
ADAMS	ADAMS 12 FIVE STAR	STUKEY ELEMENTARY SCHOOL	61.10%	76
ADAMS	ADAMS 12 FIVE STAR	THORNTON ELEMENTARY SCHOOL	77.46%	112
ADAMS	ADAMS COUNTY 14	ALSUP ELEMENTARY SCHOOL	83.58%	84
ADAMS	ADAMS COUNTY 14	CENTRAL ELEMENTARY SCHOOL	90.76%	90
ADAMS	ADAMS COUNTY 14	COMMUNITY LEADERSHIP ACADEMY	79.79%	49
ADAMS	ADAMS COUNTY 14	DUPONT ELEMENTARY SCHOOL	87.06%	72
ADAMS	ADAMS COUNTY 14	KEMP ELEMENTARY SCHOOL	86.28%	61
ADAMS	ADAMS COUNTY 14	MONACO ELEMENTARY SCHOOL	88.28%	72
ADAMS	ADAMS COUNTY 14	HANSON ELEMENTARY SCHOOL	71.07%	44
ADAMS	ADAMS COUNTY 14	ROSE HILL ELEMENTARY SCHOOL	85.79%	62
ADAMS	BRIGHTON 27J	NORTH ELEMENTARY SCHOOL	72.57%	73
ADAMS	BRIGHTON 27J	SOUTH ELEMENTARY SCHOOL	56.56%	100
ADAMS	WESTMINSTER 50	BAKER ELEMENTARY SCHOOL	85.26%	51
ADAMS	WESTMINSTER 50	BERKELEY GARDENS ELEMENTARY SCHOOL	75.15%	45
ADAMS	WESTMINSTER 50	CLARA E. METZ ELEMENTARY SCHOOL	83.58%	68
ADAMS	WESTMINSTER 50	FAIRVIEW ELEMENTARY SCHOOL	84.97%	61
ADAMS	WESTMINSTER 50	FRANCIS M. DAY ELEMENTARY SCHOOL	92.26%	50
ADAMS	WESTMINSTER 50	HARRIS PARK ELEMENTARY SCHOOL	77.24%	54
ADAMS	WESTMINSTER 50	MESA ELEMENTARY SCHOOL	75.25%	49
ADAMS	WESTMINSTER 50	SHERRELWOOD ELEMENTARY SCHOOL	80.43%	48
ADAMS	WESTMINSTER 50	SKYLINE VISTA ELEMENTARY SCHOOL	87.92%	68
ADAMS	WESTMINSTER 50	SUNSET RIDGE ELEMENTARY SCHOOL	71.43%	58
ADAMS	WESTMINSTER 50	TENNYSON KNOLLS ELEMENTARY SCHOOL	77.12%	69
ADAMS	WESTMINSTER 50	VISTA GRANDE ELEMENTARY SCHOOL	69.85%	58
ADAMS	WESTMINSTER 50	WESTMINSTER ELEMENTARY SCHOOL	82.55%	46
ADAMS	WESTMINSTER 50	WESTMINSTER HILLS ELEMENTARY SCHOOL	63.75%	46
ALAMOSA	ALAMOSA RE-11J	BOYD ELEMENTARY SCHOOL	74.04%	156

ALAMOSA	ALAMOSA RE-11J	POLSTON ELEMENTARY SCHOOL	70.91%	0
ALAMOSA	SANGRE DE CRISTO RE-22J	SANGRE DE CRISTO ELEMENTARY SCHOOL	60.49%	21
ARAPAHOE	ENGLEWOOD 1	MADDOX ELEMENTARY SCHOOL	61.97%	43
ARAPAHOE	ENGLEWOOD 1	WM E BISHOP ELEMENTARY SCHOOL	66.81%	38
ARAPAHOE	SHERIDAN 2	ALICE TERRY ELEMENTARY SCHOOL	87.97%	101
ARAPAHOE	CHERRY CREEK 5	EASTRIDGE COMMUNITY ELEMENTARY SCHOOL	62.48%	141
ARAPAHOE	CHERRY CREEK 5	HIGHLINE COMMUNITY ELEMENTARY SCHOOL	69.75%	96
ARAPAHOE	CHERRY CREEK 5	HOLLY HILLS ELEMENTARY SCHOOL	60.20%	82
ARAPAHOE	CHERRY CREEK 5	VILLAGE EAST COMMUNITY ELEMENTARY SCHOOL	58.68%	113
ARAPAHOE	LITTLETON 6	EAST ELEMENTARY SCHOOL	73.46%	43
ARAPAHOE	LITTLETON 6	FIELD ELEMENTARY SCHOOL	69.36%	81
ARAPAHOE	ADAMS-ARAPAHOE 28J	ALTURA ELEMENTARY SCHOOL	80.18%	70
ARAPAHOE	ADAMS-ARAPAHOE 28J	BOSTON ELEMENTARY SCHOOL	91.88%	37
ARAPAHOE	ADAMS-ARAPAHOE 28J	CENTURY ELEMENTARY SCHOOL	50.41%	63
ARAPAHOE	ADAMS-ARAPAHOE 28J	CLYDE MILLER ELEMENTARY SCHOOL	60.56%	97
ARAPAHOE	ADAMS-ARAPAHOE 28J	CRAWFORD ELEMENTARY SCHOOL	89.75%	96
ARAPAHOE	ADAMS-ARAPAHOE 28J	ELKHART ELEMENTARY SCHOOL	83.01%	105
ARAPAHOE	ADAMS-ARAPAHOE 28J	FLETCHER ELEMENTARY SCHOOL	76.36%	87
ARAPAHOE	ADAMS-ARAPAHOE 28J	FULTON ELEMENTARY SCHOOL	88.83%	87
ARAPAHOE	ADAMS-ARAPAHOE 28J	IOWA ELEMENTARY SCHOOL	50.00%	85
ARAPAHOE	ADAMS-ARAPAHOE 28J	KENTON ELEMENTARY SCHOOL	86.06%	83
ARAPAHOE	ADAMS-ARAPAHOE 28J	LANSING ELEMENTARY SCHOOL	70.11%	53
ARAPAHOE	ADAMS-ARAPAHOE 28J	LAREDO ELEMENTARY SCHOOL	75.40%	69
ARAPAHOE	ADAMS-ARAPAHOE 28J	LYN KNOLL ELEMENTARY SCHOOL	73.19%	43
ARAPAHOE	ADAMS-ARAPAHOE 28J	MONTVIEW ELEMENTARY SCHOOL	91.79%	70
ARAPAHOE	ADAMS-ARAPAHOE 28J	PARIS ELEMENTARY SCHOOL	91.98%	62
ARAPAHOE	ADAMS-ARAPAHOE 28J	PARK LANE ELEMENTARY SCHOOL	75.54%	52
ARAPAHOE	ADAMS-ARAPAHOE 28J	PEORIA ELEMENTARY SCHOOL	72.61%	77
ARAPAHOE	ADAMS-ARAPAHOE 28J	SABLE ELEMENTARY SCHOOL	79.39%	75
ARAPAHOE	ADAMS-ARAPAHOE 28J	SIXTH AVENUE ELEMENTARY SCHOOL	70.47%	99
ARAPAHOE	ADAMS-ARAPAHOE 28J	TOLLGATE ELEMENTARY SCHOOL	58.95%	87
ARAPAHOE	ADAMS-ARAPAHOE 28J	VAUGHN ELEMENTARY SCHOOL	81.56%	108
ARAPAHOE	ADAMS-ARAPAHOE 28J	VIRGINIA COURT ELEMENTARY SCHOOL	68.05%	117
ARAPAHOE	ADAMS-ARAPAHOE 28J	WHEELING ELEMENTARY SCHOOL	71.56%	78
ARAPAHOE	ADAMS-ARAPAHOE 28J	YALE ELEMENTARY SCHOOL	52.16%	96
BACA	WALSH RE-1	WALSH ELEMENTARY SCHOOL	76.83%	9
BACA	PRITCHETT RE-3	PRITCHETT ELEMENTARY SCHOOL	55.17%	7
BACA	SPRINGFIELD RE-4	SPRINGFIELD ELEMENTARY SCHOOL	62.32%	11
BACA	VILAS RE-5	HOPE ONLINE LEARNING ACADEMY CO-OP	53.51%	266
BACA	CAMPO RE-6	CAMPO ELEMENTARY SCHOOL	70.83%	1
BENT	LAS ANIMAS RE-1	LAS ANIMAS ELEMENTARY SCHOOL	79.27%	43
BENT	MC CLAVE RE-2	MC CLAVE ELEMENTARY SCHOOL	52.00%	17
BOULDER	ST VRAIN VALLEY RE 1J	CENTRAL ELEMENTARY SCHOOL	54.12%	57
BOULDER	ST VRAIN VALLEY RE 1J	COLUMBINE ELEMENTARY SCHOOL	89.17%	75
BOULDER	ST VRAIN VALLEY RE 1J	INDIAN PEAKS ELEMENTARY SCHOOL	73.82%	52
BOULDER	ST VRAIN VALLEY RE 1J	LOMA LINDA ELEMENTARY SCHOOL	72.41%	72

BOULDER	ST VRAIN VALLEY RE 1J	MOUNTAIN VIEW ELEMENTARY SCHOOL	60.07%	43
BOULDER	ST VRAIN VALLEY RE 1J	NORTHRIDGE ELEMENTARY SCHOOL	67.52%	71
BOULDER	ST VRAIN VALLEY RE 1J	ROCKY MOUNTAIN ELEMENTARY SCHOOL	85.32%	60
BOULDER	ST VRAIN VALLEY RE 1J	SPANGLER ELEMENTARY SCHOOL	89.43%	73
BOULDER	BOULDER VALLEY RE 2	COLUMBINE ELEMENTARY SCHOOL	84.44%	60
BOULDER	BOULDER VALLEY RE 2	EMERALD ELEMENTARY SCHOOL	61.89%	64
BOULDER	BOULDER VALLEY RE 2	SANCHEZ ELEMENTARY SCHOOL	77.53%	37
BOULDER	BOULDER VALLEY RE 2	UNIVERSITY HILL ELEMENTARY SCHOOL	61.95%	40
CONEJOS	NORTH CONEJOS RE-1J	LA JARA ELEMENTARY SCHOOL	73.36%	39
CONEJOS	NORTH CONEJOS RE-1J	MANASSA ELEMENTARY SCHOOL	76.17%	41
CONEJOS	SANFORD 6J	SANFORD ELEMENTARY SCHOOL	67.05%	28
CONEJOS	SOUTH CONEJOS RE-10	GUADALUPE ELEMENTARY SCHOOL	76.98%	12
COSTILLA	CENTENNIAL R-1	CENTENNIAL ELEMENTARY SCHOOL	90.00%	11
COSTILLA	SIERRA GRANDE R-30	SIERRA GRANDE ELEMENTARY SCHOOL	75.64%	24
COSTILLA	CROWLEY COUNTY RE-1-J	CROWLEY COUNTY ELEMENTARY SCHOOL	60.77%	37
DELTA	DELTA COUNTY 50(J)	CRAWFORD ELEMENTARY SCHOOL	55.07%	6
DELTA	DELTA COUNTY 50(J)	GARNET MESA ELEMENTARY SCHOOL	60.00%	86
DELTA	DELTA COUNTY 50(J)	LINCOLN ELEMENTARY SCHOOL	57.22%	85
DENVER	DENVER COUNTY 1	AMESSE ELEMENTARY SCHOOL	92.91%	94
DENVER	DENVER COUNTY 1	ASBURY ELEMENTARY SCHOOL	55.19%	40
DENVER	DENVER COUNTY 1	VALDEZ ELEMENTARY SCHOOL	84.88%	50
DENVER	DENVER COUNTY 1	ASHLEY ELEMENTARY SCHOOL	97.09%	56
DENVER	DENVER COUNTY 1	BARNUM ELEMENTARY SCHOOL	80.88%	78
DENVER	DENVER COUNTY 1	BARRETT ELEMENTARY SCHOOL	81.18%	36
DENVER	DENVER COUNTY 1	BEACH COURT ELEMENTARY SCHOOL	91.78%	53
DENVER	DENVER COUNTY 1	BRADLEY ELEMENTARY SCHOOL	56.29%	57
DENVER	DENVER COUNTY 1	BROWN ELEMENTARY SCHOOL	83.38%	58
DENVER	DENVER COUNTY 1	BRYANT WEBSTER K-8 SCHOOL	95.15%	67
DENVER	DENVER COUNTY 1	CENTENNIAL K-8 SCHOOL	77.35%	66
DENVER	DENVER COUNTY 1	CHELTENHAM ELEMENTARY SCHOOL	79.01%	59
DENVER	DENVER COUNTY 1	COLFAX ELEMENTARY SCHOOL	76.83%	50
DENVER	DENVER COUNTY 1	COLLEGE VIEW ELEMENTARY SCHOOL	76.99%	60
DENVER	DENVER COUNTY 1	COLUMBIAN ELEMENTARY SCHOOL	87.90%	41
DENVER	DENVER COUNTY 1	COLUMBINE ELEMENTARY SCHOOL	98.20%	45
DENVER	DENVER COUNTY 1	COWELL ELEMENTARY SCHOOL	89.91%	79
DENVER	DENVER COUNTY 1	DENVER ARTS & TECHNOLOGY ACADEMY	70.98%	62
DENVER	DENVER COUNTY 1	DOULL ELEMENTARY SCHOOL	85.02%	72
DENVER	DENVER COUNTY 1	EAGLETON ELEMENTARY SCHOOL	79.49%	67
DENVER	DENVER COUNTY 1	ELLIS ELEMENTARY SCHOOL	82.58%	81
DENVER	DENVER COUNTY 1	DEL PUEBLO ELEMENTARY SCHOOL	84.21%	18
DENVER	DENVER COUNTY 1	FAIRMONT K-8 SCHOOL	79.95%	41
DENVER	DENVER COUNTY 1	FAIRVIEW ELEMENTARY SCHOOL	83.86%	40
DENVER	DENVER COUNTY 1	FALLIS ELEMENTARY SCHOOL	73.58%	47
DENVER	DENVER COUNTY 1	FORCE ELEMENTARY SCHOOL	88.66%	83
DENVER	DENVER COUNTY 1	FORD ELEMENTARY SCHOOL	73.58%	88
DENVER	DENVER COUNTY 1	GARDEN PLACE ELEMENTARY SCHOOL	90.31%	65
DENVER	DENVER COUNTY 1	ARCHULETA ELEMENTARY SCHOOL	82.16%	86

DENVER	DENVER COUNTY 1	GILPIN K-8 SCHOOL	84.42%	49
DENVER	DENVER COUNTY 1	GODSMAN ELEMENTARY SCHOOL	82.30%	67
DENVER	DENVER COUNTY 1	GOLDRICK ELEMENTARY SCHOOL	89.50%	116
DENVER	DENVER COUNTY 1	GREENLEE K-8 SCHOOL	94.88%	60
DENVER	DENVER COUNTY 1	GREEN VALLEY ELEMENTARY SCHOOL	65.92%	103
DENVER	DENVER COUNTY 1	GREENWOOD ELEMENTARY SCHOOL	87.00%	85
DENVER	DENVER COUNTY 1	GUST ELEMENTARY SCHOOL	82.96%	78
DENVER	DENVER COUNTY 1	HALLETT ELEMENTARY SCHOOL	90.34%	31
DENVER	DENVER COUNTY 1	HARRINGTON ELEMENTARY SCHOOL	89.14%	58
DENVER	DENVER COUNTY 1	HOLM ELEMENTARY SCHOOL	63.79%	73
DENVER	DENVER COUNTY 1	HOWELL K-8 SCHOOL	86.82%	46
DENVER	DENVER COUNTY 1	JOHNSON ELEMENTARY SCHOOL	88.58%	66
DENVER	DENVER COUNTY 1	KAISER ELEMENTARY SCHOOL	64.07%	38
DENVER	DENVER COUNTY 1	KNAPP ELEMENTARY SCHOOL	76.99%	79
DENVER	DENVER COUNTY 1	KNIGHT FUNDAMENTAL SCHOOL	72.07%	46
DENVER	DENVER COUNTY 1	MARRAMA ELEMENTARY SCHOOL	67.11%	98
DENVER	DENVER COUNTY 1	MAXWELL ELEMENTARY SCHOOL	80.00%	98
DENVER	DENVER COUNTY 1	MC GLONE ELEMENTARY SCHOOL	66.54%	84
DENVER	DENVER COUNTY 1	MC MEEN ELEMENTARY SCHOOL	78.54%	93
DENVER	DENVER COUNTY 1	MITCHELL ELEMENTARY SCHOOL	87.46%	44
DENVER	DENVER COUNTY 1	OAKLAND ELEMENTARY SCHOOL	88.79%	76
DENVER	DENVER COUNTY 1	MONTCLAIR ELEMENTARY SCHOOL	83.51%	41
DENVER	DENVER COUNTY 1	MOORE K-8 SCHOOL	69.97%	35
DENVER	DENVER COUNTY 1	MUNROE ELEMENTARY SCHOOL	84.00%	91
DENVER	DENVER COUNTY 1	NEWLON ELEMENTARY SCHOOL	92.06%	90
DENVER	DENVER COUNTY 1	NORTHEAST ACADEMY CHARTER SCHOOL	69.05%	55
DENVER	DENVER COUNTY 1	PHILIPS ELEMENTARY SCHOOL	92.74%	33
DENVER	DENVER COUNTY 1	PIONEER CHARTER SCHOOL	93.18%	45
DENVER	DENVER COUNTY 1	PITT-WALLER K-8 SCHOOL	55.06%	80
DENVER	DENVER COUNTY 1	REMINGTON ELEMENTARY SCHOOL	97.76%	46
DENVER	DENVER COUNTY 1	SABIN ELEMENTARY SCHOOL	70.27%	84
DENVER	DENVER COUNTY 1	SAMUELS ELEMENTARY SCHOOL	62.30%	69
DENVER	DENVER COUNTY 1	SCHENCK ELEMENTARY SCHOOL	83.27%	84
DENVER	DENVER COUNTY 1	SCHMITT ELEMENTARY SCHOOL	87.95%	71
DENVER	DENVER COUNTY 1	SMEDLEY ELEMENTARY SCHOOL	89.71%	40
DENVER	DENVER COUNTY 1	SMITH ELEMENTARY SCHOOL	76.51%	47
DENVER	DENVER COUNTY 1	STEDMAN ELEMENTARY SCHOOL	92.04%	38
DENVER	DENVER COUNTY 1	SWANSEA ELEMENTARY SCHOOL	83.60%	90
DENVER	DENVER COUNTY 1	TELLER ELEMENTARY SCHOOL	58.96%	43
DENVER	DENVER COUNTY 1	TRAYLOR ELEMENTARY SCHOOL	52.27%	100
DENVER	DENVER COUNTY 1	VALVERDE ELEMENTARY SCHOOL	89.18%	75
DENVER	DENVER COUNTY 1	CASTRO ELEMENTARY SCHOOL	80.92%	107
DENVER	DENVER COUNTY 1	WHITEMAN ELEMENTARY SCHOOL	73.99%	37
DENVER	DENVER COUNTY 1	WHITTIER K-8 SCHOOL	76.34%	27
DENVER	DENVER COUNTY 1	WYATT-EDISON CHARTER ELEMENTARY SCHOOL	83.94%	83
DENVER	DENVER COUNTY 1	WYMAN ELEMENTARY SCHOOL	76.51%	34
DOLORES	DOLORES COUNTY RE NO.2	SEVENTH STREET ELEMENTARY SCHOOL	51.15%	13
EAGLE	EAGLE COUNTY RE 50	AVON ELEMENTARY SCHOOL	65.85%	41

EAGLE	EAGLE COUNTY RE 50	EDWARDS ELEMENTARY SCHOOL	53.64%	84
EL PASO	HARRISON 2	BRICKER ELEMENTARY SCHOOL	77.14%	68
EL PASO	HARRISON 2	CENTENNIAL ELEMENTARY SCHOOL	84.13%	66
EL PASO	HARRISON 2	CHAMBERLIN ELEMENTARY SCHOOL	81.66%	29
EL PASO	HARRISON 2	GIBERSON ELEMENTARY SCHOOL	77.13%	58
EL PASO	HARRISON 2	MONTEREY ELEMENTARY SCHOOL	85.34%	75
EL PASO	HARRISON 2	MOUNTAIN VISTA COMMUNITY SCHOOL	66.07%	44
EL PASO	HARRISON 2	OAK CREEK ELEMENTARY SCHOOL	75.26%	41
EL PASO	HARRISON 2	OTERO ELEMENTARY SCHOOL	50.95%	53
EL PASO	HARRISON 2	PIKES PEAK ELEMENTARY SCHOOL	78.72%	58
EL PASO	HARRISON 2	SAND CREEK ELEMENTARY SCHOOL	60.62%	75
EL PASO	HARRISON 2	SOARING EAGLES ELEMENTARY SCHOOL	53.61%	76
EL PASO	HARRISON 2	STRATMOOR HILLS ELEMENTARY SCHOOL	81.33%	49
EL PASO	HARRISON 2	STRATTON MEADOWS ELEMENTARY SCHOOL	81.49%	48
EL PASO	HARRISON 2	TURMAN ELEMENTARY SCHOOL	74.52%	53
EL PASO	HARRISON 2	WILDFLOWER ELEMENTARY SCHOOL	56.82%	44
EL PASO	WIDEFIELD 3	PINELLO ELEMENTARY SCHOOL	52.43%	46
EL PASO	FOUNTAIN 8	ABRAMS ELEMENTARY SCHOOL	58.23%	97
EL PASO	FOUNTAIN 8	ARAGON ELEMENTARY SCHOOL	61.68%	70
EL PASO	FOUNTAIN 8	MOUNTAINSIDE ELEMENTARY SCHOOL	59.34%	77
EL PASO	COLORADO SPRINGS 11	ADAMS ELEMENTARY SCHOOL	86.13%	51
EL PASO	COLORADO SPRINGS 11	BATES ELEMENTARY SCHOOL	53.11%	41
EL PASO	COLORADO SPRINGS 11	BRISTOL ELEMENTARY SCHOOL	76.68%	34
EL PASO	COLORADO SPRINGS 11	CARVER ELEMENTARY SCHOOL	56.86%	52
EL PASO	COLORADO SPRINGS 11	COLUMBIA ELEMENTARY SCHOOL	53.89%	28
EL PASO	COLORADO SPRINGS 11	EDISON ELEMENTARY SCHOOL	69.71%	34
EL PASO	COLORADO SPRINGS 11	GLOBE CHARTER SCHOOL	54.55%	16
EL PASO	COLORADO SPRINGS 11	HUNT ELEMENTARY SCHOOL	90.00%	31
EL PASO	COLORADO SPRINGS 11	HENRY ELEMENTARY SCHOOL	50.62%	61
EL PASO	COLORADO SPRINGS 11	IVYWILD ELEMENTARY SCHOOL	88.98%	20
EL PASO	COLORADO SPRINGS 11	JACKSON ELEMENTARY SCHOOL	50.24%	36
EL PASO	COLORADO SPRINGS 11	JEFFERSON ELEMENTARY SCHOOL	71.20%	32
EL PASO	COLORADO SPRINGS 11	LINCOLN ELEMENTARY SCHOOL	75.00%	56
EL PASO	COLORADO SPRINGS 11	LONGFELLOW ELEMENTARY SCHOOL	76.11%	47
EL PASO	COLORADO SPRINGS 11	TWAIN ELEMENTARY SCHOOL	75.73%	76
EL PASO	COLORADO SPRINGS 11	MONROE ELEMENTARY SCHOOL	69.05%	76
EL PASO	COLORADO SPRINGS 11	PIKE ELEMENTARY SCHOOL	76.72%	26
EL PASO	COLORADO SPRINGS 11	QUEEN PALMER ELEMENTARY SCHOOL	86.40%	41
EL PASO	COLORADO SPRINGS 11	ROOSEVELT EDISON CHARTER SCHOOL	86.09%	108
EL PASO	COLORADO SPRINGS 11	21ST CENTURY CHARTER SCHOOL AT COLORADO SPRINGS	59.91%	26
EL PASO	COLORADO SPRINGS 11	WASHINGTON ELEMENTARY SCHOOL	82.14%	35
EL PASO	COLORADO SPRINGS 11	WHITTIER ELEMENTARY SCHOOL	70.43%	33
EL PASO	COLORADO SPRINGS 11	ROGERS ELEMENTARY SCHOOL	77.46%	58
EL PASO	COLORADO SPRINGS 11	WILSON ELEMENTARY SCHOOL	80.44%	79
EL PASO	ELLCOTT 22	ELLCOTT ELEMENTARY SCHOOL	64.84%	62
EL PASO	HANOVER 28	HANOVER ELEMENTARY SCHOOL	61.42%	12
EL PASO	EDISON 54 JT	EDISON ELEMENTARY SCHOOL	53.66%	6
EL PASO	MIAMI/YODER 60 JT	MIAMI/YODER ELEMENTARY SCHOOL	62.94%	24

FREMONT	CANON CITY RE-1	SKYLINE ELEMENTARY SCHOOL	59.36%	33
FREMONT	FLORENCE RE-2	FREMONT ELEMENTARY SCHOOL	56.25%	77
FREMONT	COTOPAXI RE-3	COTOPAXI ELEMENTARY SCHOOL	53.33%	13
GARFIELD	ROARING FORK RE-1	CRYSTAL RIVER ELEMENTARY SCHOOL	59.21%	85
GARFIELD	GARFIELD RE-2	HIGHLAND ELEMENTARY SCHOOL	50.00%	99
GARFIELD	GARFIELD RE-2	WAMSLEY ELEMENTARY SCHOOL	54.09%	100
GARFIELD	GARFIELD 16	BEA UNDERWOOD ELEMENTARY SCHOOL	50.38%	95
HUERFANO	HUERFANO RE-1	PEAKVIEW SCHOOL	70.91%	42
HUERFANO	HUERFANO RE-1	GARDNER ELEMENTARY SCHOOL	75.38%	11
HUERFANO	LA VETA RE-2	LA VETA ELEMENTARY SCHOOL	63.57%	16
JACKSON	NORTH PARK R-1	WALDEN ELEMENTARY SCHOOL	53.33%	18
JEFFERSON	JEFFERSON COUNTY R-1	ALLENDALE ELEMENTARY SCHOOL	60.15%	37
JEFFERSON	JEFFERSON COUNTY R-1	BRADY EXPLORATION SCHOOL	63.16%	8
JEFFERSON	JEFFERSON COUNTY R-1	EDGEWATER ELEMENTARY SCHOOL	87.69%	62
JEFFERSON	JEFFERSON COUNTY R-1	EIBER ELEMENTARY SCHOOL	79.43%	64
JEFFERSON	JEFFERSON COUNTY R-1	FITZMORRIS ELEMENTARY SCHOOL	58.82%	28
JEFFERSON	JEFFERSON COUNTY R-1	FOSTER ELEMENTARY SCHOOL	72.73%	59
JEFFERSON	JEFFERSON COUNTY R-1	KULLERSTRAND ELEMENTARY SCHOOL	62.12%	37
JEFFERSON	JEFFERSON COUNTY R-1	LASLEY ELEMENTARY SCHOOL	74.86%	113
JEFFERSON	JEFFERSON COUNTY R-1	LAWRENCE ELEMENTARY SCHOOL	69.59%	41
JEFFERSON	JEFFERSON COUNTY R-1	LUMBERG ELEMENTARY SCHOOL	85.77%	81
JEFFERSON	JEFFERSON COUNTY R-1	ROCKY MOUNTAIN DEAF SCHOOL	50.00%	7
JEFFERSON	JEFFERSON COUNTY R-1	MARTENSEN ELEMENTARY SCHOOL	58.60%	19
JEFFERSON	JEFFERSON COUNTY R-1	MOLHOLM ELEMENTARY SCHOOL	90.20%	65
JEFFERSON	JEFFERSON COUNTY R-1	PENNINGTON ELEMENTARY SCHOOL	74.60%	19
JEFFERSON	JEFFERSON COUNTY R-1	PLEASANT VIEW ELEMENTARY SCHOOL	56.87%	26
JEFFERSON	JEFFERSON COUNTY R-1	RUSSELL ELEMENTARY SCHOOL	78.80%	41
JEFFERSON	JEFFERSON COUNTY R-1	SLATER ELEMENTARY SCHOOL	64.00%	47
JEFFERSON	JEFFERSON COUNTY R-1	DEANE ELEMENTARY SCHOOL	75.91%	65
JEFFERSON	JEFFERSON COUNTY R-1	STEIN ELEMENTARY SCHOOL	82.61%	97
JEFFERSON	JEFFERSON COUNTY R-1	STEVENS ELEMENTARY SCHOOL	69.79%	59
JEFFERSON	JEFFERSON COUNTY R-1	SWANSON ELEMENTARY SCHOOL	57.86%	71
JEFFERSON	JEFFERSON COUNTY R-1	VIVIAN ELEMENTARY SCHOOL	54.55%	30
JEFFERSON	JEFFERSON COUNTY R-1	WELCHESTER ELEMENTARY SCHOOL	58.16%	45
KIOWA	EADS RE-1	EADS ELEMENTARY SCHOOL	57.14%	15
KIOWA	PLAINVIEW RE-2	PLAINVIEW ELEMENTARY SCHOOL	58.33%	4
KIT CARSON	ARRIBA-FLAGLER C-20	FLAGLER ELEMENTARY SCHOOL	56.25%	9
KIT CARSON	HI-PLAINS R-23	HI PLAINS ELEMENTARY SCHOOL	52.94%	9
KIT CARSON	STRATTON R-4	STRATTON ELEMENTARY SCHOOL	55.66%	15
KIT CARSON	BETHUNE R-5	BETHUNE ELEMENTARY SCHOOL	66.00%	10
KIT CARSON	BURLINGTON RE-6J	BURLINGTON ELEMENTARY SCHOOL	60.38%	55
LAKE	LAKE COUNTY R-1	PITTS ELEMENTARY SCHOOL	64.97%	0
LAKE	LAKE COUNTY R-1	WESTPARK ELEMENTARY SCHOOL	73.62%	84

LA PLATA	IGNACIO 11 JT	IGNACIO ELEMENTARY SCHOOL	66.52%	54
LARIMER	POUDRE R-1	HARRIS BILINGUAL ELEMENTARY SCHOOL	55.72%	49
LARIMER	POUDRE R-1	IRISH ELEMENTARY SCHOOL	86.63%	53
LARIMER	POUDRE R-1	LAUREL ELEMENTARY SCHOOL	67.75%	35
LARIMER	POUDRE R-1	MOORE ELEMENTARY SCHOOL	63.99%	47
LARIMER	POUDRE R-1	PUTNAM ELEMENTARY SCHOOL	77.84%	52
LARIMER	THOMPSON R-2J	TRUSCOTT ELEMENTARY SCHOOL	59.65%	51
LARIMER	THOMPSON R-2J	WINONA ELEMENTARY SCHOOL	52.62%	72
LAS ANIMAS	TRINIDAD 1	ECKHART ELEMENTARY SCHOOL	66.04%	0
LAS ANIMAS	TRINIDAD 1	FISHER'S PEAK ELEMENTARY SCHOOL	64.76%	109
LAS ANIMAS	AGUILAR REORGANIZED 6	AGUILAR ELEMENTARY SCHOOL	73.85%	6
LAS ANIMAS	KIM REORGANIZED 88	KIM ELEMENTARY SCHOOL	56.52%	4
LINCOLN	GENOA-HUGO C113	GENOA-HUGO ELEMENTARY SCHOOL	61.43%	13
LINCOLN	KARVAL RE-23	KARVAL ELEMENTARY SCHOOL	57.14%	3
MESA	MESA COUNTY VALLEY 51	CLIFTON ELEMENTARY SCHOOL	61.43%	92
MESA	MESA COUNTY VALLEY 51	COLUMBINE ELEMENTARY SCHOOL	54.17%	30
MESA	MESA COUNTY VALLEY 51	DOS RIOS ELEMENTARY SCHOOL	60.88%	68
MESA	MESA COUNTY VALLEY 51	DUAL IMMERSION ACADEMY SCHOOL	55.10%	41
MESA	MESA COUNTY VALLEY 51	LINCOLN PARK ELEMENTARY SCHOOL	69.23%	43
MESA	MESA COUNTY VALLEY 51	NISLEY ELEMENTARY SCHOOL	56.70%	83
MESA	MESA COUNTY VALLEY 51	ROCKY MOUNTAIN ELEMENTARY SCHOOL	68.94%	81
MONTEZUMA	MONTEZUMA-CORTEZ RE-1	DOWNEY ELEMENTARY SCHOOL	64.47%	14
MONTEZUMA	MONTEZUMA-CORTEZ RE-1	KEMPER ELEMENTARY SCHOOL	59.01%	48
MONTEZUMA	MONTEZUMA-CORTEZ RE-1	LAKEVIEW ELEMENTARY SCHOOL	50.00%	7
MONTEZUMA	MONTEZUMA-CORTEZ RE-1	MANAUGH ELEMENTARY SCHOOL	77.44%	54
MONTEZUMA	MONTEZUMA-CORTEZ RE-1	MESA ELEMENTARY SCHOOL	64.97%	77
MONTEZUMA	MANCOS RE-6	MANCOS ELEMENTARY SCHOOL	56.42%	31
MONTROSE	MONTROSE COUNTY RE-1J	JOHNSON ELEMENTARY SCHOOL	57.36%	68
MONTROSE	MONTROSE COUNTY RE-1J	NORTHSIDE ELEMENTARY SCHOOL	69.33%	70
MONTROSE	MONTROSE COUNTY RE-1J	OLATHE ELEMENTARY SCHOOL	67.40%	89
MONTROSE	WEST END RE-2	PARADOX VALLEY CHARTER SCHOOL	92.31%	2
MORGAN	BRUSH RE-2(J)	BEAVER VALLEY ELEMENTARY SCHOOL	57.43%	0
MORGAN	BRUSH RE-2(J)	THOMSON PRIMARY SCHOOL	55.82%	96
MORGAN	FORT MORGAN RE-3	COLUMBINE ELEMENTARY SCHOOL	67.91%	90
MORGAN	FORT MORGAN RE-3	GREEN ACRES ELEMENTARY SCHOOL	60.00%	79
MORGAN	FORT MORGAN RE-3	PIONEER ELEMENTARY SCHOOL	82.98%	100
OTERO	EAST OTERO R-1	LA JUNTA INTERMEDIATE SCHOOL	65.50%	0
OTERO	EAST OTERO R-1	LA JUNTA PRIMARY SCHOOL	76.56%	96
OTERO	ROCKY FORD R-2	LIBERTY ELEMENTARY SCHOOL	83.24%	0
OTERO	ROCKY FORD R-2	WASHINGTON PRIMARY SCHOOL	78.61%	62
OTERO	MANZANOLA 3J	MANZANOLA ELEMENTARY SCHOOL	89.32%	15

PROWERS	GRANADA RE-1	GRANADA ELEMENTARY SCHOOL	58.52%	21
PROWERS	LAMAR RE-2	LINCOLN ELEMENTARY SCHOOL	94.83%	22
PROWERS	LAMAR RE-2	PARKVIEW ELEMENTARY SCHOOL	67.73%	43
PROWERS	LAMAR RE-2	WASHINGTON ELEMENTARY SCHOOL	66.67%	52
PROWERS	HOLLY RE-3	SHANNER ELEMENTARY SCHOOL	76.05%	26
PROWERS	WILEY RE-13 JT	WILEY ELEMENTARY SCHOOL	50.00%	14
PUEBLO	PUEBLO CITY 60	BELMONT ELEMENTARY SCHOOL	58.29%	77
PUEBLO	PUEBLO CITY 60	BENJAMIN FRANKLIN ELEMENTARY SCHOOL	74.70%	74
PUEBLO	PUEBLO CITY 60	BESSEMER ELEMENTARY SCHOOL	89.10%	73
PUEBLO	PUEBLO CITY 60	BEULAH HEIGHTS ELEMENTARY SCHOOL	70.88%	52
PUEBLO	PUEBLO CITY 60	BRADFORD ELEMENTARY SCHOOL	90.17%	35
PUEBLO	PUEBLO CITY 60	CARLILE ELEMENTARY SCHOOL	76.07%	47
PUEBLO	PUEBLO CITY 60	CESAR CHAVEZ ACADEMY	60.70%	101
PUEBLO	PUEBLO CITY 60	GOODNIGHT ELEMENTARY SCHOOL	59.20%	79
PUEBLO	PUEBLO CITY 60	COLUMBIAN ELEMENTARY SCHOOL	90.51%	49
PUEBLO	PUEBLO CITY 60	EVA R BACA ELEMENTARY SCHOOL	89.62%	38
PUEBLO	PUEBLO CITY 60	FOUNTAIN ELEMENTARY SCHOOL	88.97%	43
PUEBLO	PUEBLO CITY 60	HAAFF ELEMENTARY SCHOOL	50.59%	48
PUEBLO	PUEBLO CITY 60	HERITAGE ELEMENTARY SCHOOL	66.31%	51
PUEBLO	PUEBLO CITY 60	HIGHLAND PARK ELEMENTARY SCHOOL	55.11%	81
PUEBLO	PUEBLO CITY 60	IRVING ELEMENTARY SCHOOL	87.29%	61
PUEBLO	PUEBLO CITY 60	MINNEQUA ELEMENTARY SCHOOL	94.85%	44
PUEBLO	PUEBLO CITY 60	MORTON ELEMENTARY SCHOOL	65.99%	70
PUEBLO	PUEBLO CITY 60	OLGA A HELLBECK ELEMENTARY SCHOOL	77.11%	41
PUEBLO	PUEBLO CITY 60	PARK VIEW ELEMENTARY SCHOOL	91.30%	39
PUEBLO	PUEBLO CITY 60	PUEBLO CHARTER SCHOOL FOR THE ARTS & SCIENCES	67.31%	44
PUEBLO	PUEBLO CITY 60	SOMERLID ELEMENTARY SCHOOL	79.37%	37
PUEBLO	PUEBLO CITY 60	SOUTH PARK ELEMENTARY SCHOOL	68.26%	59
PUEBLO	PUEBLO CITY 60	SPANN ELEMENTARY SCHOOL	93.48%	35
PUEBLO	PUEBLO COUNTY RURAL 70	AVONDALE ELEMENTARY SCHOOL	83.89%	31
RIO GRANDE	DEL NORTE C-7	MESA ELEMENTARY SCHOOL	74.73%	0
RIO GRANDE	DEL NORTE C-7	UNDERWOOD ELEMENTARY SCHOOL	71.81%	53
RIO GRANDE	MONTE VISTA C-8	MARSH ELEMENTARY SCHOOL	79.07%	0
RIO GRANDE	MONTE VISTA C-8	BILL METZ ELEMENTARY SCHOOL	72.70%	81
SAGUACHE	MOUNTAIN VALLEY RE 1	MOUNTAIN VALLEY ELEMENTARY SCHOOL	65.12%	11
SAGUACHE	MOFFAT 2	MOFFAT ELEMENTARY SCHOOL	72.73%	13
SAGUACHE	CENTER 26 JT	HASKIN ELEMENTARY SCHOOL	88.53%	58
SAN JUAN	SILVERTON 1	SILVERTON ELEMENTARY SCHOOL	68.57%	6
SEDGWICK	PLATTE VALLEY RE-3	PLATTE VALLEY ELEMENTARY SCHOOL	80.00%	11
SUMMIT	SUMMIT RE-1	DILLON VALLEY ELEMENTARY SCHOOL	53.56%	38
TELLER	CRIPPLE CREEK-VICTOR RE-1	CRESSON ELEMENTARY SCHOOL	64.37%	41
TELLER	ARICKAREE R-2	ARICKAREE ELEMENTARY SCHOOL	51.67%	10

TELLER	WOODLIN R-104	WOODLIN ELEMENTARY SCHOOL	61.70%	5
WELD	WELD COUNTY RE-1	GILCREST ELEMENTARY SCHOOL	64.02%	42
WELD	WELD COUNTY RE-1	PETE MIRICH ELEMENTARY SCHOOL	53.31%	57
WELD	KEENESBURG RE-3(J)	LOCHBUIE ELEMENTARY SCHOOL	58.96%	62
WELD	KEENESBURG RE-3(J)	HUDSON ELEMENTARY SCHOOL	51.27%	51
WELD	GREELEY 6	HAROLD S WINOGRAD ELEMENTARY SCHOOL	50.36%	43
WELD	GREELEY 6	BELLA ROMERO ELEMENTARY SCHOOL	88.73%	70
WELD	GREELEY 6	CAMERON ELEMENTARY SCHOOL	91.14%	59
WELD	GREELEY 6	CENTENNIAL ELEMENTARY SCHOOL	93.21%	105
WELD	GREELEY 6	DOS RIOS ELEMENTARY SCHOOL	76.10%	87
WELD	GREELEY 6	EAST MEMORIAL ELEMENTARY SCHOOL	92.43%	94
WELD	GREELEY 6	JACKSON ELEMENTARY SCHOOL	65.54%	58
WELD	GREELEY 6	JEFFERSON ELEMENTARY SCHOOL	97.80%	56
WELD	GREELEY 6	MADISON ELEMENTARY SCHOOL	88.44%	87
WELD	GREELEY 6	MEEKER ELEMENTARY SCHOOL	50.42%	76
WELD	GREELEY 6	BILLIE MARTINEZ ELEMENTARY SCHOOL	95.76%	87
WELD	GREELEY 6	SCOTT ELEMENTARY SCHOOL	59.40%	72
WELD	GREELEY 6	SHAWSHEEN ELEMENTARY SCHOOL	53.66%	79
WELD	GREELEY 6	DEAF OR HARD OF HEARING PROGRAM	57.14%	2
WELD	WELD COUNTY S/D RE-8	LEO WILLIAM BUTLER ELEMENTARY SCHOOL	53.57%	90
WELD	WELD COUNTY S/D RE-8	TWOMBLY ELEMENTARY SCHOOL	53.63%	106
WELD	AULT-HIGHLAND RE-9	HIGHLAND ELEMENTARY SCHOOL	51.17%	65
YUMA	YUMA 1	KENNETH P MORRIS ELEMENTARY SCHOOL	58.68%	50
YUMA	WRAY RD-2	WRAY ELEMENTARY SCHOOL	55.69%	50
YUMA	IDALIA RJ-3	IDALIA ELEMENTARY SCHOOL	73.53%	9

Appendix C

Assessment Criteria

It is important to define the criteria used to assess teeth and to make sure that all the dentists/Hygienists are adhering to the criteria.

Various assessment criteria exist. Table 1 outlines guidelines for dental sealant placement for teeth that are sufficiently erupted to apply a sealant.

Table 1. Criteria to Identify Teeth That Are Eligible for Placement of Dental Sealants³

Tooth Status	Indications for Sealants
Caries-free teeth	Seal
Questionable teeth	Seal
Teeth with non-cavitated caries	Seal
Teeth with cavitated caries	Do not seal; refer for treatment

Fully erupted molars can be sealed. Partially erupted molars can also be sealed if the surfaces can be isolated and kept dry during application. Buccal and lingual surfaces with deep pits and grooves can be sealed as well.

Approved Method for Placing Sealants:

A school-based sealant program targets second-grade children when their first permanent molars are erupting. This eliminates the need for radiographs, as most molars will not have inter-proximal contacts yet. The accepted protocol for this program also does not support the use of sharp explorers in the dental screening process (so as not to perforate the dentinal-enamel junction), nor the use of enamelplasty, as outlined in the Proceedings of a Workshop on Guidelines for Sealant Use. Teeth may be air-dried and food debris removed with a dry toothbrush to assess which first permanent molars to seal. Prophylaxis treatment will not be a covered service. It is also recommended to use a non-filled sealant material to avoid the need for occlusal reduction later.

The following technique is from Seal America: The Prevention Invention:

Technique varies depending upon the type of isolation used. Cotton rolls with and without cotton roll holders and dry angles are usually used. While cotton roll holders may seem cumbersome at first, most dental hygienists and assistants become accustomed to using them and eventually find that they make it

easier to maintain a dry environment. Cotton roll holders are particularly important when sealing a half mouth at a time. Most teams who do not use cotton roll holders seal a quadrant at a time.

Before dental sealants are applied, be sure to read the manufacturer's instructions carefully, since different brands of sealants may require slightly different application techniques. The basic procedure for applying sealants is as follows:

- Step 1. Thoroughly clean teeth to be sealed
- Step 2. Isolate the teeth
- Step 3. Etch tooth surface
- Step 4. Rinse and dry
- Step 5. Place sealants
- Step 6. Polymerize sealants
- Step 7. Inspect sealants

Step 1. Thoroughly Clean Teeth to Be Sealed

Sealant programs have achieved satisfactory retention rates using a dry toothbrush to remove any debris that may remain on the teeth after the student has brushed. The teeth are thoroughly rinsed before they are isolated.

Step 2. Isolate the Teeth

Effective saliva control can be achieved by positioning the student so that the teeth to be sealed are visible and accessible. The student's head can be tilted so that saliva pools on the opposite side of the mouth from the side with teeth being sealed. A high-volume evacuator should be used. Cotton rolls or cotton roll holders and dry angles should be positioned as desired. Dry angles are most effective if placed over the parotid duct opening. Some teams like to place a dry angle between the cotton roll holder and the lingual surface of the mandibular teeth to create an additional barrier for the tongue. Once the cotton rolls are in place, the teeth should be thoroughly dried.

Step 3. Etch Tooth Surface

The cleaned and dried tooth surfaces are etched with phosphoric acid for at least 20 seconds. A small cotton pellet, mini-sponge, or brush can be used to apply the etchant. Etchants are available in liquid and gel form. The type used is a matter of personal preference. Acid should be placed widely over the enamel surface so there is no chance that the sealant margin is placed on un-etched enamel. The most

common error is to limit the acid to the pits and fissures. If the acid inadvertently comes in contact with soft tissue, it needs to be rinsed immediately and thoroughly.

Step 4. Rinse and Dry

After 20 seconds, the etchant is thoroughly rinsed off the teeth. It is critical that saliva not come into contact with the prepared tooth surfaces during this step. Excess moisture is removed with the high-speed evacuator. Sometimes dry cotton rolls or dry angles are placed over the moist ones to maintain a dry field. When dry, a properly etched surface will have a dull matte or frosty appearance, in contrast to the glossy appearance of un-etched enamel. Should salivary contamination occur after this point, the surface must be washed, dried, re-etched for 10 seconds, and washed and dried again before the next sealant-application step.

Step 5. Place Sealants

Since the application step will vary according to the product selected, the dental hygienist should follow the manufacturer's instructions. When a self-cured material is used, the liquid catalyst and base are mixed in a 1:1 ratio. The student's head should be positioned so that the occlusal plane is parallel to the floor so the sealant does not flow distally before it cures, leaving the mesial pits underfilled. Using the applicator provided by the manufacturer, the mixed sealant is flowed over the etched, dried surface. The sealant should be placed into the fissured surface, flowing from one end of the fissure carefully through the fissure complex to avoid air bubbles, and covering only the fissures and a small area of the fissure walls. If more than one tooth in a quadrant is being sealed, the most posterior tooth should be treated first, since maintaining dryness is more difficult in the back of the mouth.

Step 6. Polymerize Sealants

If using light-cured sealants, it is important that the curing light is set at the correct intensity and that the manufacturer's instructions on the length of time the sealant should be exposed to the curing light are followed. With autopolymerized sealants, sufficient time must be allowed so that the depth of the polymerization reaches the tooth surface under the sealant.

Step 7. Inspect Sealants

Isolation of the teeth should be maintained until the dental sealants are checked visually and with an explorer to make sure coverage of the pits or fissures is complete. If there is a surface air bubble, more sealant can be applied if the tooth has remained uncontaminated. Otherwise, the tooth must be re-etched

for 10 seconds, washed, and dried before adding sealant material. A thin surface film of sealant will remain unpolymerized because of contact with air. This film has an unpleasant taste and should be wiped off with a wet cotton roll. The isolation materials can then be removed, and the student may be allowed to rinse. The students should be told that the sealants may feel “high” but that the student’s own teeth will wear it down during the next few days.

If bonding agents are used, an additional step needs to be added between steps 5 and 6 in the sealant placement process. Once the tooth surface has been etched and thoroughly dried, the bonding agent should be placed on the tooth, and the agent should be air thinned before the sealant is applied. This step helps the sealant material flow into the deep fissures, helps bonding in areas of inadvertent moisture contamination, and improves sealant retention.²

The tooth is then inspected at a retention check to make sure the sealant is retained on the tooth surface, usually the following school year. Retention must be at 87% or better.