



Clean Air for Kids Program

**A Funding Request Of \$52,170 for Howard Wilson Elementary
With Goals to Provide \$2,141,000 in Benefits Over 5 Years**



The air in this classroom is being filtered 40 times per hour

This Funding Proposal outlines a very important five-year project to improve the health of our 350 students in grades pre-K to 6 by aggressively filtering their classroom air with new patented technology to remove airborne allergens, particles and odors. Cleaner classroom air with 90% fewer allergens should produce approximately 50% fewer sick days for students and teachers. When children feel better they learn more. Our families will spend less on health care, and parents stay at work. This Project will provide significant cost savings for families, their employers, their insurance companies; the state's Medicaid Insurance Programs; and the savings to the school district budget for teacher health insurance and substitute teacher costs. The requested funding will pay for this technology for five years. This is an investment of only about \$30 per student per year and is projected to return financial benefits valued at between \$1.07 million to \$2.14 million compared the five-year total cost of only \$52,170.

Howard Wilson Elementary Clean Air for Kids Program Financial Highlights

| Total Program Savings | Savings First 5 Years | | Savings Each Year 6-10 | |
|---------------------------------------|-----------------------|--------------|------------------------|------------|
| | Low End | High End | Low End | High End |
| Increase in State Attendance Funding | \$ 105,000 | \$ 210,000 | \$ 19,950 | \$ 39,900 |
| Families, Employers and Insurers | \$ 634,157 | \$ 1,268,314 | \$ 129,368 | \$ 258,736 |
| Medicaid Program Savings | \$ 272,762 | \$ 545,523 | \$ 63,255 | \$ 126,509 |
| Teacher Health Insurance Costs | \$ 52,724 | \$ 105,447 | \$ 13,059 | \$ 26,118 |
| Substitute Teacher Cost Savings | \$ 6,000 | \$ 12,000 | \$ 1,200 | \$ 2,400 |
| Total Savings | \$ 1,070,642 | \$ 2,141,284 | \$ 226,831 | \$ 453,663 |
| Project Savings Per Child for 5 Years | \$ 3,059 | \$ 6,118 | | |
| Project Savings Per Child Per Year | \$ 612 | \$ 1,224 | \$ 648 | \$ 1,296 |
| Project Total Costs | \$ 52,170 | \$ 52,170 | \$ 4,700 | \$ 4,700 |
| Project Costs per Student | \$ 149 | \$ 149 | \$ 13.43 | \$ 13.43 |
| Value of Savings vs. Cost | 2052% | 4104% | 4826% | 9652% |

The Program Cost is \$30 per Child per Year for 5 Years Then It Drops to \$13.43 Per Year Per Child

The Total Proposed Program Cost over the Five Years is \$52,170

Our Goal is a 2% Attendance Increase Which Adds \$210,000 in Additional State Funding

The Projected Savings for K-6 Families & Employers for Reduced Sick Days is \$1.268 Million

Our Goal is to Save Medicaid Insurance a Total of \$545,523 Over the Five Years

Our Goal is to Save \$105,447 in Howard Wilson Employee Health Insurance Costs

The Goal is to Save \$12,000 in Substitute Teacher Costs Over the 5 Years

The Total Projected Value of Savings and Benefits if the Goals Are Achieved is \$2,141,284

These Goals Represent a Return of 4,104% or \$41.04 for Every Dollar Spent on Cleaner Classroom Air

In Year 6 to 10 the Annual Cost Drops to Only \$4,700 to Return \$453,663 or 9,652% per Year

These projected financial benefits are based on indoor air quality impact studies and research reported by the EPA, CDC and Medical Journals. The savings of over \$2,141,000 sounds impossible until you look at the known financial impact of allergies, Asthma and respiratory illnesses. There are also substantial savings by reducing the spread of common contagious bacterial or viral illnesses. The real financial burden of too many people sharing the same room air is so large that even small improvements can generate huge financial benefits. All allergies and Asthma symptoms are typically eliminated if you eliminate exposure to the triggers!

Important – Even if you can only donate \$1,000, \$5,000 or \$10,000 please give generously. The project will be funded by combining donations from many sources. If we don't raise the full amount needed we can use the money we raise to equip the classrooms the funds will support.

Howard Wilson Elementary Clean Air for Kids Program Highlights

Provide 90% Cleaner Classroom Air for 1,250 Children age 4-11

Provide 90% Cleaner Classroom Air to Teachers

Goal is to Increase Average Daily Attendance by 2%

A 1% Increase in Attendance adds \$105,000 and a 2% Increase Adds \$210,000 in Funding

Children and Teachers Who Feel Better in Class Will Perform Better – Raising Average Test Scores

Measure the Actual Impact on Absenteeism, Health Costs and Student Test Performance

Reduce the Students Use of Inhalers and Allergy or Asthma Medications by 20-50%

The Goal is to Save an Average of 3.7 Sick Days per Child per Year

The Goal is to Save 6,475 Missed School Days for our Students Over the Five Years

The Goal is to Save 5,180 Missed Work Days for Parents of Children age Pre-K to 6th Grade

The Goal is to Save Families, Employers and Insurance Providers of K-6 Children \$1.268 Million

48% of Howard Wilson Students Are Financially Eligible for Free Lunch and Medicaid Insurance

Medicaid in Kansas Spent an Average of \$1,845 per Year in 2006 on Each Medicaid Insured Child

Asthma Inhalers are the Number One Medicaid Prescription Drug

Asthma is the Number One Reason Medicaid Insured Children Visit the Emergency Room

Asthma is the Number One Reason Medicaid Insured Children Are Admitted to the Hospital

Our Goal is to Save Medicaid \$646 Per Child Per Year or \$3,247 Per Child Over the Five Years

Our Goal is to Save Medicaid Insurance a Total of \$545,253 Over the Five Years

Howard Wilson is Projected to Spend \$1,054,000 on Employee Health Insurance Over the Five Years

Our Goal is to Save Howard Wilson at least 10% or \$105,400 in Employee Health Insurance Costs

The Goal is to Save the 15 Teachers an Average of 2 Sick Days per Year

The Goal is to Save \$12,000 in Howard Wilson Substitute Teacher Costs Over the 5 Years

The Total Financial Value if All Goals Are Achieved is \$2,141,000

These Goals Represent a Return of \$41 for Every Dollar Spent on Cleaner Air!

Howard Wilson Elementary Clean Air For Kids Proposal Summary

This is a Five Year Funding Request for \$52,170 to cover all the costs to install and operate high-capacity indoor air filtration systems in every classroom in our 350 student elementary school, Howard Wilson Elementary. This is an investment in a Wellness Program of only \$30.00 per year per student, or \$150 per student over five years. A key goal of the project is to save the average student enough sick days to increase average daily attendance by 2% or 3.7 days per student.

This is accomplished by eliminating or reducing the level of airborne allergen particle levels in the classroom by approximately 90% by filtering the classroom air 40 times per hour. These airborne particles trigger allergies, asthma and common upper and lower respiratory infections. Breathing fine particles significantly contributes to the most common causes of sick days and illness in students and teachers. We estimate 85% of student absences are caused by respiratory problems, or contagious illnesses that could be reduced or eliminated by reducing the high levels of particles in the classroom.

Children in Howard Wilson missed an average of 12.95 sick days in the prior school year. The target savings of an average of 3.7 sick days per student is projected to save the parents, their employers and their insurance providers \$240 per sick day saved. This projects a total of \$725 saved per year per student compared to the \$30 average cost, which is a return of \$24.16 for every dollar spent. Even if the project only achieves a 1% increase, the savings are \$362 per student or a \$12.08 return for every dollar spent.

In addition to these financial savings, the project is expected to have additional benefits including:

- Reduce teacher sick days by 30-50%, saving \$12,000 in Substitute Teacher Costs.
- Lower teacher health care usage costs by 10% or more, saving the District \$105,400.
- Improve average test scores for the children by reducing absenteeism and learning impact of allergies, asthma and repeat respiratory infections and the various medications used.
- Reduce the spread of seasonal contagious seasonal illnesses including colds and flu.
- Lower the average annual health expenses for Medicaid insured students by \$600 by reducing the medical costs related to respiratory illnesses, allergies, asthma, inhalers and prescription drugs. This would save Medicaid a total of \$545,000 over the Five Year Project.

The Howard Wilson Clean Air for Kids Program should provide a 41 to 1 total financial return. This Five Year Research Project will prove that aggressively filtering indoor air in school buildings will improve students' and teachers' classroom performance and increase test scores. The cost of this technology in these schools should be paid for by those who receive most of the substantial financial benefits of healthier teachers and students – Parents, Insurance companies, Medicaid and Parent's Employers.

Why This Project Deserves Funding

There are five very important reasons this project deserves to be funded.

1. Our School Does Not Have the Money to Buy This Technology Without Outside Help.
2. The Investment in This Technology pays off for Howard Wilson families for many years.
3. When Children Feel Better They Perform Much Better and Learn More.
4. Investing in Wellness Produces Substantial Projected Financial Benefits to Families.
5. Increasing Student Attendance Will Boost the State Funding Received.

School Districts are always running on budgets that must be focused on items needed to operate their schools. They will never have enough extra money to retrofit their existing schools with this type of classroom air filtration technology unless it is rolled in to renovation bond issue. This study will prove that cleaner classroom air quality created by aggressively filtering the air will save much more money than the technology actually costs. But the stark reality is the costs that are saved are for parents, employers, insurance companies and state Medicaid programs. While the program does project some savings for teacher health costs and substitute teacher costs, the savings to these other participants is a much greater amount.

Parents, their employers, private health insurance companies and state Medicaid insurance providers want these children to stay healthy and avoid missing school because of sick days that may require parents to miss work to care for at least the elementary-age school children. By not getting sick as often, these children won't have as many medical costs which drive up insurance costs and renewal rates to employers. With today's higher deductibles and co-pays, these medical costs also hit family budgets hard. There is also strong evidence that Asthma and allergy management medications are not being used consistently in low-income families and this increases the risk of allergies growing into full-blown Asthma that is known for generating very expensive hospital stays for avoidable asthma attacks.

Since the school district budget doesn't receive the projected financial savings from cleaner classroom air, others do, we need to find funding for this Research Project to prove the projected benefits in a comprehensive multi-building study that is properly monitored, measured and reported to all of the interested parties. Once the payback is proven, more schools should be able find potential funding sources including state Medicaid programs, private health insurance companies, parents and their employers. These schools will help children learn more and test higher.

Staged Funding Requirements

Since this is a five year program the funding needs occur over the five year period. The biggest cost is year one to purchase and install the air filtration systems throughout the district classrooms. The yearly funding needs are shown below.

| | | |
|--------------|-----------------|-----------------------------|
| Year 1 | \$33,370 | \$95.42 per Student |
| Year 2 | \$4,700 | \$13.43 per Student |
| Year 3 | \$4,700 | \$13.43 per Student |
| Year 4 | \$4,700 | \$13.43 per Student |
| Year 5 | \$4,700 | \$13.43 per Student |
| Total | \$52,170 | \$149.06 per Student |

Other Potential Benefits

Other potential benefits include:

- Reduce the need for allergy and asthma medications, including inhalers by up to 50%.
- Reduce the conversion of children with allergies into Asthma by up to 50%.
- Lower energy costs for heating and cooling the buildings.
- Improve concentration and cognitive function in all children, raising learning performance.
- Make the District's teaching jobs more appealing to existing and potential teachers.
- Reduce the risk of exposure to mold that can be common in older school buildings.
- Reduce the particle droplet spread of viral and bacterial illnesses like MRSA, SARS, colds, flu, whooping cough and gastroenteritis illnesses.
- Reduce the potential for permanent respiratory system impairment in children and teachers from breathing fine particles that have been measured in other scientific and medical studies.
- Reduce the number of children taking allergy and asthma medications that negatively impact cognitive function, attitude, short term memory and concentration.
- Reduce Special Education teacher illnesses. These teachers get sick more often than normal teachers because they work with children who don't exhibit good hygiene traits, such as covering their mouth when coughing. These teachers are very hard to replace with substitutes.

The total benefits of the entire project are far-reaching and could have a significant impact on student test score performance. If a child is healthier in first grade and learns more of the basic material, they are likely to do better in second grade and have higher average grades. Since most education content builds on what you were supposed to learn in prior classes, it is easy to see how a Clean Air School could have a much smarter and higher testing fifth grade class if they had the benefits of fewer sick days and better health while in K-4 in the same building. So many children today are put on allergy medications to prevent sinus, ear and respiratory infections that the drugs' side effects have to be lowering average learning performance. Just reducing the interruptions from coughing, sneezing and blowing noses will make the classroom a quieter place where more information gets transferred to more students.

If you study the health habits and causes for missed school days for students and teachers, it is easy to believe that 85% of all missed days are caused by something that might be better if the air was cleaner, and was less able to help transport contagious illnesses from one student to the next. The CDC recommends filtering a contagious patient's room 12 air changes per hour, and the air filtration system being proposed filters the classroom 40 times per hour. Early results reported by other schools who have installed the same technology exceed the targets being proposed in this study.

Howard Wilson's Administrative Team Is Committed to Finding Funding for This Project

The entire project will take hard work and coordination with David Smith, Superintendent; Steve Johnson, Division Director of Facilities and Ray Edmond, Asst. Superintendent of Human Resources. These visionary educational leaders have made the commitment to do their part in helping install and maintain the technology, track the impact on absenteeism with more details, and carefully analyze the impact on staff health care costs and usage. This is a win-win partnership with the school district, parents, students, teachers, employers, Medicaid and private health insurance providers. This program will put Howard Wilson in the forefront of Student and Teacher IAQ Wellness Programs that will pay off for the all the families that send children to Howard Wilson in the future. All of the proposed funds being raised will go directly to Howard Wilson Elementary and will be fully tax deductible for the donors.

Key Data on School District

Sample School District - 350 Students

| | | | |
|------------------------------------|-----|--------|--------|
| Number of School Buildings | 1 | Note 1 | |
| Number of Classrooms | 15 | | |
| Number of Teachers | 15 | | |
| Number of other Staff in Buildings | 4 | | |
| Number of FTE Students | 350 | Note 1 | |
| Children Age preK-6th Grade | 350 | 100% | Note 1 |
| Students in Middle Schools | 350 | 0% | Note 1 |
| High School Students | 350 | 0% | Note 1 |
| Special Education Students | - | | |

Impact on Absenteeism

| | 1 Year | | 5 Years |
|------------------------------------|--------|--------|---------|
| Average Students Per Classroom | 23.33 | | |
| Recent District Student Attendance | 93% | Note 1 | |
| Average Sick Days Missed per Year | 12.95 | Note 1 | |
| CAFK Increased Attendance Goal | 2% | Note 2 | |
| Number of School Days in a Year | 185 | Note 1 | |
| 100% Attendance Days | 64,750 | | 323,750 |
| Current Actual Attendance | 60,218 | | 301,088 |
| Current Days of Absenteeism | 4,533 | | 22,663 |
| Proposed Saved Sick Days +2% | 1,295 | Note 2 | 6,475 |
| Proposed Saved Sick Days +1% | 648 | Note 2 | 3,238 |

Potential Impact on State Funding

| | | 1 Year | 5 Years |
|--------------------------------------|----------|-----------|---------|
| An Increase of 1% Attendance | 4 | \$ 19,950 | 105,000 |
| An Increase of 2% Attendance | 7 | \$ 39,900 | 210,000 |
| Assumption on State Funding/Student | \$ 5,700 | | |
| Assumption on State Funding - 5 Year | \$ 6,000 | | |

Substitute Teacher Savings

| | 1 Year | | 5 Years |
|------------------------------------|----------|--------|------------------|
| Number of Teachers | 15 | Note 1 | |
| Average Sick Days Per Teacher/Year | 6 | Note 1 | |
| Total Teacher Days Absent | 90 | | 450 |
| Substitute Teachers Days | 90 | | 450 |
| Projected Teacher Sick Days Saved | 2 | Note 2 | |
| Average Price Paid for Substitute | \$ 80.00 | | |
| Substitute Teachers Days Saved | 30 | | 150 |
| Saved Substitute Costs for 2 days | \$ 2,400 | | \$ 12,000 Note 6 |
| Saved Substitute Costs for 1 day | \$ 1,200 | | \$ 6,000 Note 6 |

| | | |
|---------------------------------------|-------|--------|
| Increased Attendance Goal | 2% | Note 2 |
| Projected Sick Days Saves Per Student | 3.70 | |
| Level of District Absenteeism | 5% | |
| Last Year Actual Sick Days | 3,238 | |
| Projected Saved Sick Days | 1,295 | |
| One Purifan for Every 7 Students | 7.40 | Note 2 |
| Number of Purifans Needed | 47 | Note 2 |

| | | |
|-------------------------------------|-----------|--------|
| Estimated Salary of Parent | \$ 25,000 | Note 3 |
| Salary Per Day | \$ 100.00 | |
| Ratio of Salary to Value to Company | 200% | |
| Daily Value to Company | \$ 200.00 | |
| Estimated Average Med Cost/Sick Day | \$ 40.00 | |
| Total Value of K-6 Sick Day | \$ 240.00 | |
| Estimated Cost Increase Per Year | 1.00% | |

Projected Family Savings

| | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Total |
|------------------------------------|------------|------------|------------|------------|------------|---------------------|
| Percent of Parents Employed | 80% | 80% | 80% | 80% | 80% | |
| Percent of Students preK-6 | 100% | 100% | 100% | 100% | 100% | |
| Children Age K-6 | 350 | 350 | 350 | 350 | 350 | |
| Saved Missed Parent Work Days | 1,036 | 1,036 | 1,036 | 1,036 | 1,036 | 5,180 Note 6 |
| Estimated Salary Increase 1%/Year | \$ 240.00 | \$ 242.40 | \$ 244.82 | \$ 247.27 | \$ 249.74 | |
| Value of Savings at 1% Improvement | \$ 124,320 | \$ 125,563 | \$ 126,819 | \$ 128,087 | \$ 129,368 | \$ 634,157 Note 6 |
| Value of Savings at 2% Improvement | \$ 248,640 | \$ 251,126 | \$ 253,638 | \$ 256,174 | \$ 258,736 | \$ 1,268,314 Note 6 |
| Savings Per K-6 Student | \$ 710 | \$ 718 | \$ 725 | \$ 732 | \$ 739 | \$ 3,624 Note 6 |
| | 23.68 | 23.92 | 24.16 | 24.40 | 24.64 | |

Projected Medicaid Savings

| | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Total |
|--------------------------------------|------------|------------|------------|------------|------------|-------------------|
| Percent of Students Medicaid Insured | 48.00% | Note 1 | | | | |
| Number of Students Medicaid Insured | 168 | | | | | |
| Average Medicaid Cost/Child | \$ 1,845 | \$ 1,993 | \$ 2,152 | \$ 2,324 | \$ 2,510 | Note 3 |
| Projected Annual Medicaid Increase | 8.00% | Note 4 | | | | |
| Medicaid Costs | \$ 309,960 | \$ 334,757 | \$ 361,537 | \$ 390,460 | \$ 421,697 | \$ 1,818,412 |
| Percent Savings Goal | 15% | Note 2 | | | | |
| Medicaid Savings Goals | \$ 46,494 | \$ 50,214 | \$ 54,231 | \$ 58,569 | \$ 63,255 | \$ 272,762 Note 6 |
| Medicaid Savings Saved Per Student | \$ 277 | \$ 299 | \$ 323 | \$ 349 | \$ 377 | \$ 1,624 Note 6 |
| Percent Savings Goal | 30% | Note 2 | | | | |
| Medicaid Savings Goals | \$ 92,988 | \$ 100,427 | \$ 108,461 | \$ 117,138 | \$ 126,509 | \$ 545,523 Note 6 |
| Medicaid Savings Saved Per Student | \$ 554 | \$ 598 | \$ 646 | \$ 697 | \$ 753 | \$ 3,247 Note 6 |

Projected Health Insurance Savings

| | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Total |
|--|------------|------------|------------|------------|------------|-------------------------|
| Number of Insured Teachers & Staff | 19 | 19 | 19 | 19 | 19 | 19 |
| Projected Rate of Health Cost Growth | 12.00% | 12.00% | 12.00% | 12.00% | 12.00% | 12.00% Note 4 |
| School's Health Insurance Projections | \$ 148,200 | \$ 165,984 | \$ 185,902 | \$ 208,210 | \$ 233,196 | \$ 261,179 \$ 1,054,471 |
| Average Monthly Cost per Teacher | \$ 650 | | | | | |
| Goal for Teacher Health Cost Savings | 5% | 10% | Note 2 | | | |
| Value of Health Cost Savings - 5 Years | \$ 52,724 | \$ 105,447 | Note 6 | | | |
| District Savings Per Teacher - 5 Years | \$ 3,515 | \$ 7,030 | | | | |
| District Savings Per Teacher - 1 Year | \$ 703 | \$ 1,406 | | | | |

| Total Program Savings | Savings First 5 Years | | Savings Each Year 6-10 | |
|---------------------------------------|-----------------------|--------------|------------------------|------------|
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| Increase in State Attendance Funding | \$ 105,000 | \$ 210,000 | \$ 19,950 | \$ 39,900 |
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| Project Savings Per Child for 5 Years | \$ 3,059 | \$ 6,118 | | |
| Project Savings Per Child Per Year | \$ 612 | \$ 1,224 | \$ 648 | \$ 1,296 |
| Project Total Costs | \$ 52,170 | \$ 52,170 | \$ 4,700 | \$ 4,700 |
| Project Costs per Student | \$ 149 | \$ 149 | \$ 13.43 | \$ 13.43 |
| Value of Savings vs. Cost | 2052% | 4104% | 4826% | 9652% |

| Cost of Installed Purifan | | |
|--|-----------|--------|
| Purifan with Allergy Filter | \$ 360.00 | Note 5 |
| QD Motor | \$ 80.00 | Note 5 |
| Install Kit - Ceiling Panel & Electrical | \$ 80.00 | Note 5 |
| Install Charge to Purifan | \$ 60.00 | Note 5 |
| Estimated Electrician Work | \$ 80.00 | Note 5 |
| Total Per Installed Unit | \$ 660.00 | |

| | | Per Student | | Per Student Per Month | Per Classroom | | Per School Building |
|----------------------------------|-----------|-------------|-----------|-----------------------|---------------|-------------|---------------------|
| First Year Installed Cost | \$ 31,020 | \$ 88.63 | | | \$ 2,068.00 | | \$ 31,020.00 |
| First Filter Change at \$50 each | \$ 2,350 | \$ 6.71 | \$ 95.34 | \$ 10.59 | \$ 156.67 | \$ 2,224.67 | \$ 2,350.00 |
| | \$ 33,370 | \$ 95.34 | | | | | \$ 33,370.00 |
| Second Year Filter Changes | \$ 4,700 | \$ 13.43 | \$ 108.77 | \$ 1.49 | \$ 313.33 | | \$ 4,700.00 |
| Third Year Filter Changes | \$ 4,700 | \$ 13.43 | \$ 122.20 | \$ 1.49 | \$ 313.33 | | \$ 4,700.00 |
| Fourth Year Filter Changes | \$ 4,700 | \$ 13.43 | \$ 135.63 | \$ 1.49 | \$ 313.33 | | \$ 4,700.00 |
| Fifth Year Filter Changes | \$ 4,700 | \$ 13.43 | \$ 149.06 | \$ 1.49 | \$ 313.33 | | \$ 4,700.00 |
| Total | \$ 52,170 | \$ 149.06 | \$ 3.31 | | \$ 3,478.00 | | \$ 52,170.00 |
| | | | \$ 29.81 | | | | |

- Note 1 - Data Provided By School District
- Note 2 - Goal Set By Technology Manufacturer and CAFK Program
- Note 3 - Assumption Based on Available Public Information
- Note 4 - An Educated Estimate While More Accurate Info is Being Sought
- Note 5 - Knows Costs or Item Specified By Program Managers
- Note 6 - Projected Savings

The information in this funding proposal is being updated by gathering more accurate forecasts and information from many sources. The most important thing to remember is that even if this project only produces 50%, 25% or 10% of the projected savings it is still a great return on investment with many other benefits to the students, teachers, families, employers and insurance providers. It is also worth noting that the proposed impacts in these numbers has been exceeded in schools during 2005 and 2006 using the same air filtration technology in fewer classrooms. It is also reasonable to assume from the current trends in children being diagnosed with Asthma, and the cost increases being reported for these health problems that the upside savings over time could be substantially larger than those estimated in this proposal.

Higher Attendance Automatically Increase a School Districts Funding Levels

There are 14 states that fund schools based on actual average daily attendance. In Kansas and many other states the exact attendance on a specific day, like September 20th, is the attendance figure that sets their funding for the entire year. The amount of funding is typically about \$5,500 per student depending on the district, local property tax situation and other funding items that are also paid to the school based on attendance. That means a 1% increase is worth \$5,500 for every 100 children, and a 2% increase is worth \$11,000 per year for every 100 children. For HOWARD WILSON ELEMENTARY we assumed 1% for the Low Estimate and 2% for the High Estimate, even though this would only be counted on the one day attendance is measured, the impact on annual state funding is the same as average daily attendance.

The filter change costs for a school run about 10% of the projected funding increase that would be received for higher attendance. Using last the funding level for the last school year of \$5,500, the projected 2% attendance increase gives a 200 student school an extra \$20,000 per year, a 300 student school an additional \$30,000 per year and a 500 student school receives an additional \$50,000 per year to pay for anything the school needs. Plus the children are healthier, miss less school and should learn more and score higher on standardized achievement tests. This increase in state funding is in addition to other projected savings in health costs for students and teachers.

While the high estimates are based on increasing attendance by 2%, it is important to note the success this technology has had in existing schools since 2005. The Leavenworth, Kansas school that installed Purifans in 2005 reported attendance levels of 90.2% in the prior year, 2004, and 96.48% attendance in 2005 for a 6.2% increase in attendance. Improving indoor air quality will have the most positive impact in those school buildings where current indoor air quality is having the largest negative impact on attendance. Allergies, Asthma and respiratory illnesses typically cause 85% of all student and teacher sick days! Reducing airborne allergens by 90% can have a huge impact on health issues. Every child deserves cleaner and healthier classroom air that can be provided by the Clean Air for Kids Program.

Additional Research Information About the Benefits Projected in This Proposal

The impact of too many people sharing the same air is most apparent in airline cabins, churches, day-cares, classrooms and movie theaters. Spreading viral or bacterial based illnesses is so easy in these environments that this problem produces a significant impact on sick days for children and teachers. By filtering the air 40 times per hour, the spread of these illnesses is reduced, saving sick days, missed work costs and medical costs. This filtering also reduces allergy and Asthma triggers by 90% or more. Asthma has become the number one chronic illness in children. Asthma is the number one reason children visit the hospital emergency room, and Asthma is the number one reason for children hospital admissions. On recent report called *The Burden of Asthma in Texas* published by the Texas Asthma Coalition showed hospitalization costs in Texas for Asthma grew from \$41.6 Million in 1999 to \$353.8 Million in 2004. Inhalers are the number one prescription drug paid for by state children's health insurance programs. We have links to numerous reports that back up the content of this proposal on our website at www.purifan.com where you can read more research studies that prove cleaner air is much healthier.