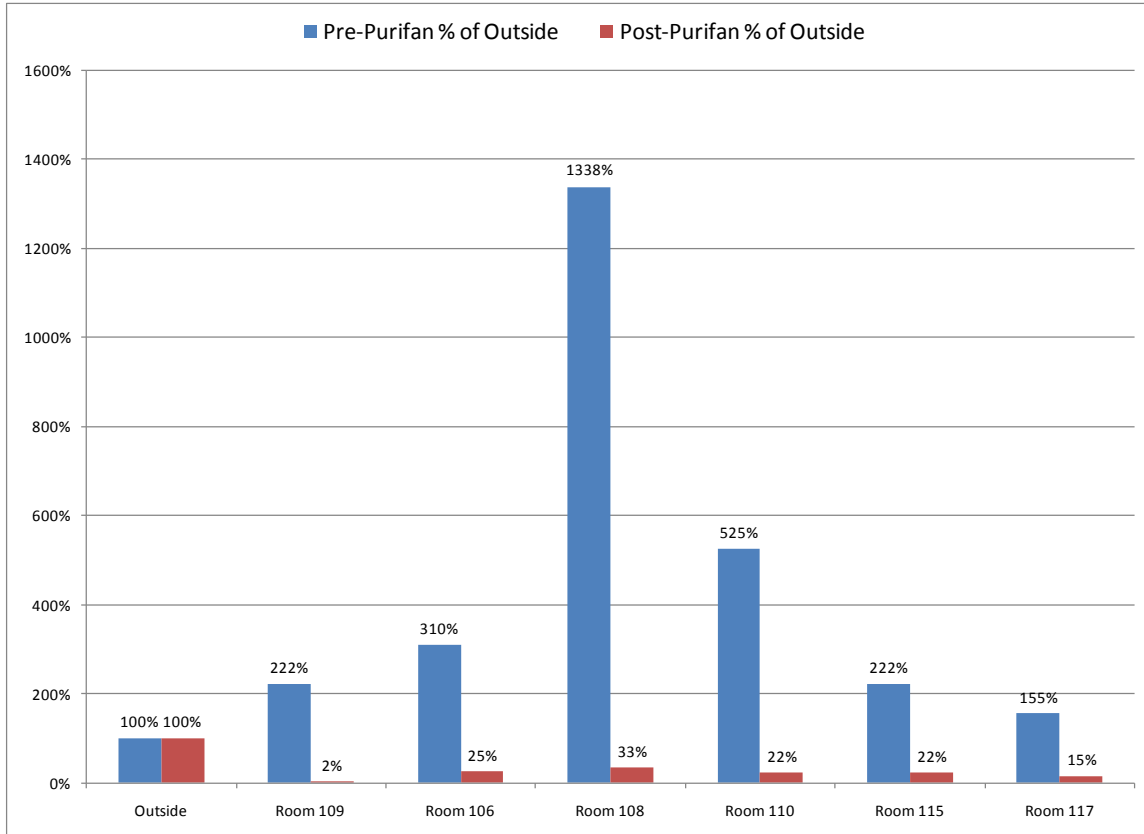


## REPORT SUMMARY

After an expensive mold remediation by a highly qualified contractor the mold levels in classrooms remained very high. The school hired an Indoor Air Quality Expert Consultant to measure mold spore counts before and after Purifans were installed to try to reduce the airborne mold. This chart summarizes the improvements achieved with Purifans. See below for more details. A complete copy of the consultant's report is available on request.



### AIR QUALITY TESTS MILLER ELEMENTARY SCHOOL

In 1999, the Dodge City School District retained an environmental testing firm to investigate the cause of higher than normal absentee rates and numerous health complaints from students and faculty involving headaches, burning eyes, respiratory problems, and so forth. Test results indicated that the likely cause was poor indoor air quality, with elevated levels of fungus, mold spores and bacteria, measured in "colony forming units per cubic meter of air" (cfu/m<sup>3</sup>), and in particular, extremely high concentrations of spores of the fungus, *Cladosporium*. Several re-tests of air quality, including those conducted November 10, 2000, (attached), following numerous attempts to cause the building to be less conducive to mold and bacteria growth indicated that no progress had been made. While the School District Board of Education had already approved a proposal to install a \$440,000 central heating and air system, which would additionally solve the problems of poor building and classroom temperature control, as well as elevated levels of carbon dioxide, such system would require extensive building modification. The problem then became one of somehow keeping the school open until the HVAC system could be installed. PuriFans were installed in each of the classrooms, and in a few other building locations (31 units total), in December 2000, and air quality tests were again performed on January 5, 2001

Test procedures involved comparison of the concentration of air borne allergens in various parts of the building, versus the concentration of the same micro-organisms in sampled outside air. In all tests that preceded the installation of the PuriFans, concentrations of micro-organisms inside the building were always some multiple of that of outside

air. Following the installation of PuriFans, the situation reversed, and concentrations inside became a fraction of that measured in outside air.

The following chart summarizes Environmental Microbiology Laboratory's CULTURABLE MOLD SPORE REPORT from Integrated Solutions air sampling dates 11/20/2000 and 01/05/2001.

#### CULTURABLE MOLD SPORE SUMMARY

<u>Room</u>	<u>Pre-Purifan cfu/m3</u>	<u>% of Outside</u>	<u>Post-Purifan cfu/m3</u>	<u>% of outside</u>
Out	213	100	708	100
109	472	222	12	2
106	660	310	178	25
108	2850	1338	235	33
110	1119	525	154	22
115	473	222	154	22
117	330	155	107	15

\*Full report available upon request