

Impact

Results from surveys taken before and after *AgFest* show that students greatly increased their understanding of scientific and agricultural concepts. Results suggest that students learned the most about physics and ruminant digestion, two topics that featured some of the most interactive and engaging activities. Students also demonstrated an increased awareness that food doesn't come from the store, but is grown on a farm.

AgFest surveys asked students to write down the most interesting thing they learned that made a lasting impression. Overwhelmingly, students provided detailed descriptions of the levers and pulleys, incubating eggs, 'gross' germs, and the 'amazing' four-chambered cow stomach. The majority of students was enthusiastic about *AgFest* and expressed a desire to return because it was so much fun.

Backed by 4-H curriculum development in Science, Technology, Engineering and Math (STEM)¹, Extension agents provide the resources and expertise of science-based activities that many teachers cannot offer in their classrooms. As *AgFest* evolves, Extension agents hope to further develop station activities to give students ever-more engaging hands-on learning opportunities that develop their understanding of the agricultural, natural, physical, and life sciences while increasing their awareness of food production.

"The thing I liked the best is the levers. It was fun getting to try them. I wish we could go back and learn more. It was a great field trip and I would go there again."

– *AgFest 2010*
5th grader

"Thanks for doing this. I don't have the funding, the time, or the technical expertise to do this for my students."

– Nora Hubbell, 5th & 6th grade teacher
Hi Plains Elementary School, Verona, Colorado

County Partners

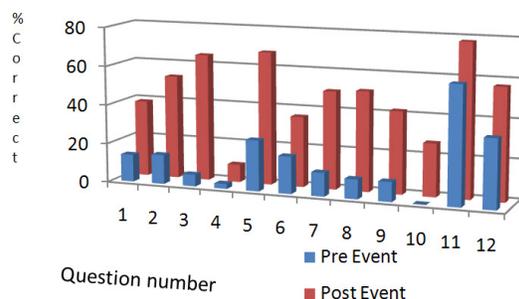
AgFest was organized and delivered by Extension agents, specialists and program associates from the following counties:

Bent County
Cheyenne County
Crowley County
Kiowa County
Kit Carson County
Lincoln County
Logan County
Morgan County
Otero County
Phillips County
Prowers County
Sedgwick County
Washington County
Yuma County

Contact Information

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Student knowledge of	Pre Event	Post Event
1 Embryology - 2 requirements for eggs to hatch	14	39
2 Natural Fibers - uses and resistance to flame	15	53
3 Physics - levers & pulleys	6	65
4 Dairy Production - daily production per cow	2.5	9
5 Ruminant Nutrition - compartments of the bovine stomach	26	68
6 Bio Fuels - alternate fuel sources	19	36
7 Metamorphosis - life cycle and damage	12	50
8 Microbiology - virus, bacteria and protozoa	10	51
9 Entomology - bee keeping & honey	10	42
10 Biotechnology & Plant Science	0	27
11 Where our food is produced	60	78
12 Student's Interest in Career in Ag	35	57



¹ *Science, Technology, Math & Engineering (STEM) combines the strengths of 4-H programming, non-formal experiential-based delivery modes with strong youth/adult partnerships to address content as defined by the National Education Science Standards and practice STEM abilities in order to prepare our youth to compete in the 21st century workplace.*