CALIFORNIA STATE SCIENCE FAIR
2002 PROJECT SUMMARY

Name(s)
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Project Number
J1625

Project Title
H20 or H2moo? Will a Feed Crop Grow Better Irrigated with Ground Water, Dairy Lagoon Water, or a Combination of Both?

Abstract

Objectives/Goals
My objective was to determine if a feed crop would grow better if it was irrigated with ground water, dairy lagoon water, or a combination of both. I believe that the dairy lagoon irrigated crop will grow best because it has natural nutrients and fertilizers.

Methods/Materials
Two different sets of testing were performed on rye crop using ground water, dairy lagoon water, and a 50/50 combination of both. To determine which one grew better, I measured the blade height and visually rated the thickness daily for nine days.

Results
Although the difference wasn't significant, the dairy lagoon irrigated rye crop had more thickness and blade height than the ground water or the 50/50 combination.

Conclusions/Discussion
My conclusion is that dairy lagoon water is a possible alternative for irrigating crops on a dairy. This would recycle and conserve precious water resources.

Summary Statement
My project tests whether feed crop grows better irrigated with ground water, dairy lagoon water, or a combination of both.

Help Received