



**CALIFORNIA STATE SCIENCE FAIR
2005 PROJECT SUMMARY**

Name(s) Benjamin C. Grazda	Project Number J0913
Project Title Jammin' on Janes and Jolly Giant, the Sequel: Which Creek Is A Better Fish Habitat?	
Objectives/Goals My objective was to determine which creek, Janes or Jolly Giant, was better fish habitat, and compare these results to the results of my project two years ago. I believe that Jolly Giant Creek will be better fish habitat than Janes Creek, and that Jolly Giant will have improved and Janes will have deteriorated in fish habitat quality from two years ago.	
Abstract Methods/Materials I went out and tested three sites on each creek. I used instruments for macroinvertebrates, dissolved oxygen and water temperature, and for the rest I did observations. I did all the same tests at the same sites as two years ago, but added macroinvertebrates this time. Tests for each trial were done on the same day to control for rainfall. Then I repeated the tests three months later. My variables are the two different creeks and the two different years.	
Results My results show that Jolly Giant is indeed better fish habitat than Janes. The most significant thing that I noticed was that there was a drop in dissolved oxygen in site one (Janes). Site one had a lot of dead plants and manure in it. Site one had a large effect on Janes Creek's overall rating.	
Conclusions/Discussion Site one's decomposing material led to the dissolved oxygen decrease. Decomposing things need oxygen, so they take it out of the water. I am concerned about the dissolved oxygen in site one, because if the fish can't breathe in one section of the creek, then they can't get upstream to the rest of the creek. I am writing a letter to the city of Arcata about ways to improve Janes Creek. When I talked to them two years ago they said they'd work on it. They never did, so maybe this letter will have an effect.	
Summary Statement My project compares fish habitat quality of two local creeks, and also compares these results to the results of two years ago.	
Help Received My mother helped type my report. I got equipment from Mr. LaBolle at SBMS and Louis Armin-Hoiland at Arcata High School.	