

## CALIFORNIA STATE SCIENCE FAIR 2002 PROJECT SUMMARY

Name(s)	Project Number
Courtney E. Jones	
	22774
Project Title	$\mathcal{C}$
There Is More in Our H(2)O than Just H and O!	
Abstract	
Objectives/Goals	
My objective was to learn if proximity to sources of inland runoff affects ocean and comparing the pH, ammonia, dissolved oxygen, and nitrogen levels.	vater quality by testing
Methods/Materials	
I selected six test sites in Carpinteria, CA and collected samples over a period of water and the tributaries. Then I measured the temperature and pH, aromonia and nitrogen levels in each sample using LaMotte test tablets.	(143), dissolved oxygen,
Results	
In testing the waters of Carpinteria, there were many variables. These variables	did not measurably affect
the test results. Water temperature differed, but there was no pattern between te	st results and temperature.
Rain experienced during the testing period did not affect results; the rainfall wa Carpinteria Salt Marsh had the most extreme range of data for each test. Althou	s less than 1/2 inch.
Carpinteria Lagoon seemed like they would have similar results they had differ	rent results. There was
little correlation between the tributaries and the bodies of water into which they	flowed. Carpinteria Salt
Marsh and Holly Street Beach also seemed like they would have similar results; they had little correlation.	
In answer to my question: Does proximity to sources of inland runoff affect the pH, ammonia, dissolved	
oxygen, and nitrogen contents of nearby bodies of water, my lests indicate the answer is there is little correlation in times of low flow in those tributaries.	
Conclusions/Discussion	
In times of low flow, inland runoff loes not meas wably affect ocean water quality. I predict with a lot of	
In times of low flow, inland runoff does not measurably affect ocean water quality. I predict with a lot of runoff, the water chemistry will be affected. This is demonstrated by the relationship between Carpinteria	
Creek and the Lagoon. When there is incle now in the creek, they had different chemical compositions.	
Carpinteria Salt Marsh and Holly Street Bracinal support my opinion. Different results were observed	
in these two areas because the Saft Marsh does not flow out near Holly Street Beach. This might t	
because the ocean is a large body of vater and any tributary that flows into it is a difference.	so small, it does not make
Summony Stationant	
Summary Statement	· · ·,
My project involed testing the creeks and oceans around Carpinteria, CA, for an dissolved oxygen, and pH in an effort to discover any types of pollution.	nmonia, nitrogen,
dissorved oxygen, and pri in an errort to discover any types of pollution.	
Help Received	
Dad helped a little bit with board graphics, Mom and Dad drove me around to t	est sites.