



Name(s)	Project Number
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Project Title	
Dust Is in the Air	
Abstract	
 Objectives/Goals The purpose of this project is to find if the amount of ha from 1997 due to Los Angeles Department of Water and Methods/Materials A sun photometer is assembled from an LED, operation photometer is then calibrated to find the Extraterrestrial reading must be taken at each measurement. The follow measurement to calculate the Aerosol Optical Thickness and direction. The AOT can then be calculated by the f M) x (P/1013.25))/M. The AOT shows how much sunt: Results Five months of data was collected over three years, 199 and compared on a graph. Calibrations were performed Conclusions/Discussion When the graphs of the AOT points are compared, the A 1997. This shows that the sunlight transmission levels a evidence that the LADWP's Owens Lake Dust Mitigatic coming from Owens Lake. 	d Power's dust mitigation procedures. al amplifier, a breadboard, and two batteries. The Constant (ET). A dark reading and a sunlight ving conditions must be recorded at each s (AOT): sun angle, time, pressure, wind speed, ollowing formula: (ln ET - ln signal - (0.10599 x ight is being transmitted throught the atmosphere. 7, 2002, and 2003. Each set of data was plotted l to find the ET. AOT values were lower in 2003 and 2002 than in are higher than in 1997. This is compelling
Summary Statement This project measures the amount of dust coming from measures to lower air pollution have worked.	Owens Lake, and found that the LADWP's
Help Received Mr. Glenn Harris gave me research links and informatio (transportation, help building the photometer, etc.)	on, Father helped in general with several things