

CALIFORNIA STATE SCIENCE FAIR 2015 PROJECT SUMMARY

Name(s)		Project Number
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		35107
Project Title		
From Seed to Sod: An Examination of Seed Germination and Its Effectiveness in Establishing Riparian Buffers		
	bstract	
 Objectives/Goals The purpose of this project was to see if grass a phosphate runoff from fertilizer application. The commercially grown sod was tested to see if plyear, scientific testing materials were acquired that grass grown from seed will effectively redited that grass grown from seed will effectively redited that grass seed was planted in five plastic troughs, inorganic fertilizers were added. Water was postested by using nitrate and phosphate test kits. Results This study found that the grass grown from see of last year#s results. Phosphates this year were observed that grasses could be used to establish of the nitrates and phosphates found in fertilize Conclusions/Discussion The extreme amount of pollutants entering was quality, marine life, and human health. Since grast buffers to absorb excess nitrates and phosphate in the agricultural areas to help reduce the amount of environmental damage. While it was exciting to important to remember that despite their effective application.	his is a follow-up study of last ye ants could act as a fifter to reduc to get more accurate results. The uce the amount of cheroical runs which had been altered with FW ured onto each trough in regular d resulted in reduced amounts of higher than last year for unknown riberian buffers around natural r thelp reduce the toxic effects envays from tertilizer has had ca rass grown from seed can be use s, this means that farmers can pl toxic chemicals that could enter p see how well plants can filter e	ar#s project where chemical runoff. This is year#s hypothesis states of in the water samples. C pipe. Then organic and intervals. The water was f nitrates, measuring 25% wn reasons. It was waterways to absorb some of chemical pollution. atastrophic effects on water ed to establish riparian ant riparian buffers around waterways causing environmental toxins. it is
Summary Statement By comparing the data sets from 2014 with this year's results, it was found that planting grass grown from seed to establish riparian buffers around an agricultural area is effective in reducing chemical runoff.		
Help Received Parent supervised during testing because the test	st kits contained harmful chemic	cals.