

Assignment # 8

#1: Willingness to Pay for water efficiency

You conduct an online survey among 280 California residents about their willingness to pay for investment in a new almond production technology that is more water efficient. The results show that the willingness to pay to save one gallon of water per pound of almonds produced, varies from -3 dollars to 15 dollars with an average of 8 dollars and a standard deviation of 1.5 dollars. Construct a 95% confidence interval for the dollar willingness to pay for one gallon of water saved per household in your state.

2: 2018 plastic bag ballot proposition

Prop 67 : A Yes vote approves, and a No vote rejects, a statute that prohibits grocery and other stores from providing customers single-use plastic or paper carryout bags but permits sale of recycled paper bags and reusable bags. Fiscal Impact: Relatively small fiscal effects on state and local governments, including a minor increase in state administrative costs and possible minor local government savings from reduced litter and waste management costs. In a poll of 117 online survey respondents, you find that 64% of the respondents state that they are in favor of prop 67. Build a 95% confidence interval for the percentage of the population that is in favor of the Proposition 67.

#3: Case 1 contin from Lecture

Case Study 1: A Resources for the Future Survey in 2019.

Random National sample $N=1000$, with Partisan divisions as follows:
 $N=300$ - 230 - 350 Democrats-Republicans-independents

Question "Global Warming is a very serious problem for the US ? YES/ NO .

51% of a national random sample of $N=1000$ adults surveyed said Yes. the percent of democrats agreeing is in the second column in the figure below and the sample size of republican- democrat and independent split is as follows

(a) Please construct a 95 % confidence interval for democrats agreeing with "Global Warming is a very serious problem for the US ?

Figure 1: Resources For the Future Survey - Some Results

