

1125-K5-2244

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Enhanced Student Learning in Elementary Statistics With Fresh Real Estate Data. Preliminary report.

Technology labs and explorations have been integrated into Elementary Statistics at WTAMU the past 8 years. Most explorations incorporate fresh data that the students collect. The students taking the course over the past few years have been in pre-programs or are education majors. The big project the past few semesters has had students collect Real Estate Data. Groups collect home prices from current, within the past month, real estate adds in either Amarillo, Dallas, or Sante Fe using the Zillow site. They complete hypothesis tests at different significance levels comparing their data to a current stated average home price of their chosen city. Each group then collects data from at least two additional cities of their choice, anywhere in the world. This data is used to complete an ANOVA test for differences in real estate prices of their chosen cities. Summaries of novel student results will be presented. Other sample labs the students complete, with data they collect, will also be presented, e.g., a Chi-square test for Vehicle Types. Assessment results of added learning, increased retention, and improved attitudes due to student experience with labs that incorporate their fresh data will be presented. (Received September 20, 2016)