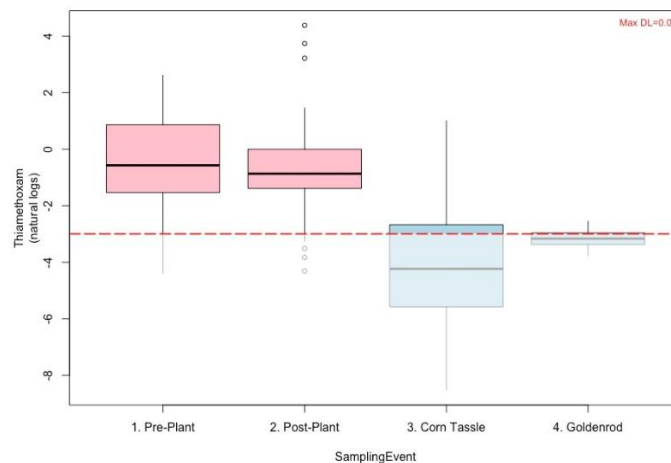


presents

# Incorporating Nondetects in Science

Dr. Dennis Helsel, Practical Stats, LLC

**A great many papers and one textbook have been published on the topic of how to incorporate ‘nondetects’, low-level values reported only as below a detection limit, into statistical analyses. Current best practice is to adapt methods developed for right-censored "greater than" data in medical studies (survival analysis) to left-censored "less than" concentration data. These methods are applied across a wide variety of fields. They are increasingly important with the advent of studies incorporating large databases and “data science.”**



**Dr. Dennis Helsel** is owner and senior statistician with Practical Stats LLC, a training and consulting firm. Dennis has authored three textbooks including *Statistics for Censored Environmental Data using Minitab and R* (2012), which presents methods for handling data below detection/reporting limits. He worked as a hydrologist, geochemist, and statistician for thirty years at the US Geological Survey before starting Practical Stats. Dr. Helsel received the Lifetime Achievement Award from the Calif. Groundwater Resources Assoc. in 2018 and a Distinguished Achievement Award in 2003 from the American Statistical Association’s Section on Statistics and the Environment. A full list of his publications, webinars and courses is available at <https://practicalstats.com>

**4:00 pm MDT, Friday, September 18, 2020**

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