

Workshop in Bolivia on statistics in plant disease epidemiology and agriculture



Objective

The objective of the workshop was to provide hands-on experience in statistical applications for epidemiology and general agriculture for students and scientists in La Paz.

There were 26 participants from Universidad Mayor de San Andres, Fundación PROINPA, and Universidad de la Cordillera.



We used R, a free software environment that includes a set of base packages for

graphics, math, and statistics, with other more specialized packages available.

- Online teaching modules for ecology and epidemiology in R in English are at http://www.apsnet.org/education/AdvancedPlant Path/Topics/RModules/default.html

We are preparing new material in Spanish from workshop presentations and we hope to add material in other languages in the future.



A) La Paz panorama B) Karen Garrett and participantsC) Lorena Gomez and participants D) Some of the participants

Outline of the Workshop

- 1. Introduction to the R programming environment
- 2. Introduction to basic concepts of statistics
- 3. Introduction to analysis of variance
 - 4. Introduction to linear regression
 - 5. General panorama of other statistical techniques



Our institutions have formed collaborative links as part of a USAID SANREM

project led by Corinne Valdivia,

University of Missouri: Adapting to change in the Andes: Practices and strategies to address climate and market risks in vulnerable agroecosystems.

Garrett works in this project in biodiversity, IPM, and soil metagenomics. Gomez studies soil metagenomics in the project for her MS thesis.

Acknowledgements

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Photos c/o Lorena Gomez and Carla Arzabe

