

VÍCTOR MANUEL RUIZ VERA

Soil and Water Scientist

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RESEARCH INTEREST

Characterization and measurement of physical and hydraulic properties of sodic soils
Influence of clay mineralogy on the soil responses to salinity
Crop salt tolerance
Plant physiological responses to soil and water salinity
Use of polyacrylamide to improve water infiltration in saline and sodic soils

ACADEMIC EXPERIENCE

PhD.	2005	Soil and water sciences	University of California Riverside
MSc.	1995	Hydrosciences	Colegio de Postgraduados, México
BSc.	1985	Arid zones	Universidad Autónoma Chapingo, México

POSITIONS

2005-present	Researcher and Associate Professor	Colegio de Postgraduados, Campus San Luis Potosí, México
2004-2005	Graduate Research Assistant	Department of Environmental Sciences, University of California Riverside, CA
2001-2002	Teaching Assistant	Department of Environmental Sciences, University of California Riverside, CA
1995-2005	Adjunct Researcher	Colegio de Postgraduados, Campus San Luis Potosí, México
1992-1995	Adjunct Assistant Researcher	Colegio de Postgraduados, Campus San Luis Potosí, México
1990-1992	Assistant Researcher	Colegio de Postgraduados, Campus San Luis Potosí, México
1986-1990	Agricultural Specialist (Extension Service)	Comisión para el Desarrollo Agrícola y Ganadero del Estado de México, México

CURRENT ADMINISTRATIVE POSITION

Assistant Director of Education (July, 2008 - present), Colegio de Postgraduados, Campus San Luis Potosí.

PUBLICATIONS

Peer-reviewed Articles:

- Ruiz-Vera, Victor M. and Laosheng Wu. 2006. Influence of sodicity, clay mineralogy, prewetting rate, and their interaction on aggregate stability. *Soil Sci. Soc. Am. J.* 70:1825-1833.
- Pineda-Mares, P., J.F. Martinez-Montoya, A. Amante O., y V.M. Ruiz-Vera. 2001. Respuesta del maíz al fósforo y un mejorador de suelos en áreas yesosas de la Zona Media de San Luis Potosí. *Revista Chapingo Serie Zonas Áridas* 2(2):106-113.
- Ruiz V., Víctor M., Manuel Ortega E., Víctor A. González H., J. Jesús Martínez H., y José L. Rone P. 1997. Respuestas del frijol a la salinidad sulfático-clorhídrica. I. Producción de biomasa y rendimiento. *Rev. Fitotecnia Mexicana.* 20:13-27.

Newsletter Articles:

- Ruiz-Vera, V.M.** and L. Wu. 2006. Influencia de la salinidad sódica en la permeabilidad del agua en el suelo. *Ventana agropecuaria* 6:14-15.

Conference Papers:

- Gómez González Adrián and **Ruiz Vera, Victor M.** Sistema de Gestión de la Calidad del Campus San Luis Potosí. Seminario interno. Colegio de Postgraduados, Campus San Luis Potosí (September 3, 2008). Salinas, S.L.P., Mexico.
- Pimentel-López, J., A. Gómez-González, J.C. García-Albarado, O. Tejeda-Sartorius, M.A. Velázquez-Hernández, A. Alonso-López, **V.M. Ruiz-Vera.** Colecta y pruebas de germinación de herbáceas de la región de Salinas de Hidalgo, S.L.P para su uso en paisajismo. *XI Congreso Nacional y IV Congreso Internacional de Horticultura Ornamental* (March 10-14, 2008). Cuernavaca, Mor., Mexico.
- Ruiz Vera, Víctor M.** Efecto de salinidad, sodicidad, y mineralogía de arcilla en las propiedades físicas e hidráulicas del suelo. Oral presentation. Talento humano para el siglo XXI. Colegio de Postgraduados (October 16, 2006). Montecillo, Mex., Mexico.
- Ruiz Vera, Victor M. and **Laosheng Wu.** Effects of Salinity, Sodicity, and Clay Mineralogy on Soil Physical and Hydraulic Properties. Poster presentation. 18th World Congress of Soil Science (July 9-15, 2006). Philadelphia, PA, USA.
- Martínez-Montoya, Juan F.** and Victor M. Ruiz Vera. Plant response to salinity in gypsum-saturated solutions. Poster presentation. 18th World Congress of Soil Science (July 9-15, 2006). Philadelphia, PA, USA.
- Ruiz Vera, Victor M.** Efecto de la sodicidad en la conductividad eléctrica aparente del suelo. Seminario interno. Colegio de Postgraduados, Campus San Luis Potosí (May 9th, 2006). Salinas, S.L.P., Mexico.
- Ruiz Vera, Victor M.** and Laosheng Wu. Influence of sodicity and clay mineralogy on soil aggregation and moisture retention. Oral presentation. International salinity forum. Managing saline soils and water: science, technology, and social issues. April 25-27, 2005. Riverside, CA. USA.

Ruiz Vera, Victor M. and **Laosheng Wu**. Effect of Sodium Adsorption Ratio on Bulk Soil Electrical Conductivity. Oral presentation. The ASA-CSSA-SSSA International Annual Meetings (November 6-10, 2005). Salt Lake City, UT, USA.

Ruiz Vera, Victor M., **Laosheng Wu**, and Jianhang Lu. Effect of Sodidity on the Water Characteristics of Six California Soils. Poster presentation. The ASA-CSSA-SSSA International Annual Meetings (November 6-10, 2005). Salt Lake City, UT, USA.

Ruiz Vera Víctor M. and **Laosheng Wu**. Influence of salinity and sodicity on physical and hydraulic properties of five California soils. Poster presentation. The ASA-CSSA-SSSA International Annual Meetings (November 1-4, 2004). Seattle, WA, USA.

Ruiz Vera Víctor M. and Laosheng Wu. Influence of salinity and sodicity on physical and hydraulic properties of three California soils. Poster presentation. 3d Annual Environmental Sciences and Soil and Water Sciences Graduate Student Conference. Department of Environmental Sciences. UC Riverside. September, 2004. Riverside, CA.

Ruiz Vera Víctor M. and Laosheng Wu. Effect of polyacrylamide on the hydraulic conductivity of a sodic soil. Poster presentation. 1st Annual Environmental Sciences and Soil and Water Sciences Graduate Student Conference. Department of Environmental Sciences. UC Riverside. May, 2002. Riverside, CA.

Ruiz Vera Víctor M., Víctor A. González Hernández Manuel Ortega Escobar J. Jesús Martínez Hernández. Respuestas Fisiológicas del Frijol durante la Exposición a Sales y Recuperación. Oral presentation. XVII Congreso de Fitogenética (October 5-9, 1998). Acapulco, Gro., México.

Ruiz Vera Víctor M., and **Martín López Cíntora**. Water quality in San Luis Potosí. Poster presentation. 15th World Congress of Soil Science (July 10-16, 1994). Acapulco, México.

Ruiz Vera Víctor M. and Benjamín Figueroa Sandoval. Efecto del estrés de sales y agua en dos leguminosas. Poster presentation. IV Foro de Investigación Universitaria. UASLP. I Simposium Estatal de Ciencia y Tecnología en S.L.P. Nov. 25-27, 1992. San Luis Potosí, S.L.P. México.

Ruiz Vera Víctor M. and Benjamín Figueroa Sandoval. Evaluación de dos prácticas de conservación de humedad en el cultivo de frijol. Oral presentation. XXV Congreso Nacional de la Ciencia del Suelo. Nov. 9-14, 1992. Acapulco, Gro., México.

HONORS AND AWARDS

UC MEXUS-CONACYT Doctoral Fellowship. University of California Riverside, Department of Environmental Sciences. 1999-2005.

Honorific mention for M.S. Thesis: Respuestas del frijol (*Phaseolus vulgaris*, L.) a la salinidad sulfático-clorhídrica en diferentes etapas de crecimiento [Responses of common bean (*Phaseolus vulgaris*, L.) to sulfatic-clohydric salinity in different growth stages]. Colegio de Postgraduados, Programa de Hidrociencias. 1995.

Academic Distinction. Colegio de Postgraduados. 1995.

CONACYT fellowship for MSc. studies in Colegio de Postgraduados 1993-1994.

RESEARCH PROJECTS

Estudio del contenido de minerales en suelos, agua, plantas y animales de áreas ganaderas de la Huasteca Potosina (Study of the mineral content in soils, water, plants and animals from livestock areas in the "Huasteca Potosina"). Co-Investigator (Principal Investigator: Dr. Juan F. Martínez Montoya, Colegio de Postgraduados, México). Produce-SLP Fund. 2008-2009.

Malezas asociadas a los principales cultivos del altiplano potosino-zacatecano (Weeds associated to the main crops in the Potosino-zacatecano Highland). Co-Investigator (Principal Investigator: Dr. Ismael Hernández Ríos, Colegio de Postgraduados, México). Research project included in the research line "Agricultural, livestock, forest, aquacultural, and fishery production systems", Colegio de Postgraduados. México. 2007-2008.

Evaluación y Manejo de Suelos Afectados por Sales en la Cuenca "El Salado" (Assessment and management of salt affected soils in "El Salado" catchment). Principal Investigator. Research project included in the research line "Sustainable management of natural resources", Colegio de Postgraduados. México. 2006-2011.

Evaluación de la potencialidad productiva de cultivos alternativos acordes con la calidad del agua de riego y del temporal (Assessment of alternative crop productive potentiality according to water quality and weather conditions). Principal Investigator. Research project included in the research line "Agricultural, livestock, forest, aquacultural, and fishery production systems", Colegio de Postgraduados. México. 2006-2011.

Effects of salinity, sodicity, and clay mineralogy on soil physical and hydraulic properties. PhD dissertation research. **Advisor: Laosheng Wu** (University of California Riverside) 2001-2005.

Los suelos yesíferos de San Luis Potosí: clasificación taxonómica, génesis y manejo integral (the gypsic soils of San Luis Potosí: classification, taxonomy, genesis and integrated management). Co-Investigator (Principal Investigator: Juan Felipe Martínez Montoya). Fondo ciencia básica CONACYT (19980206603). 1999-2001.

Respuestas del Frijol (*Phaseolus vulgaris*, L.) a la salinidad sulfático-clorhídrica en diferentes etapas de crecimiento. (Bean [*Phaseolus vulgaris*, L.] responses to sulfatic-hydrochloric salinity during different growth stages). MSc thesis research. **Advisor: H. Manuel Ortega Escobar** (Colegio de Postgraduados). 1994-1995.

Adaptation to salt and water stress by pulses tolerant to environment stress. US Agency for International Development (USAID). Co-Investigator (Principal Investigator: Benjamín Figueroa Sandoval, Colegio de Postgraduados, México). Agreement # 936-5544.01-523-C7-039. 1990-1992.

Efecto del contreo y cobertura de plástico sobre el contenido de humedad del suelo, producción de biomasa y rendimiento de grano de frijol en el área de estudio del CREZAS-CP (effect of furrow diking and soil mulching on soil water content, biomass production and bean yield in the CREZAS-CP study area) . BSc Thesis Research. **Advisor: Benjamín Figueroa Sandoval** (Colegio de Postgraduados). 1990-1992.

LANGUAGES

Spanish (mother language), English (fluent speaking and writing).