

REFERENCES

- Amarasiri, S.L. and S.R. Oilsen. 1973. Liming as Related to Solubility of P and Plant Growth in an Acid Tropical Soil. *Soil Sci. Soc. Am. Proc.* 37:716-721
- Blake, G.R., 1965. Bulk density. In *Method of soil analysis Agronomy* No.9 part 1, 374-377. 677 South Segoe Rode, Madison, Wisconsin, USA 53711. The American Society of agronomy, Inc.
- Borie, F. and H. Zunino. 1983. Organic matter-phosphorus associations as a sink in P-fixation processes in allophanic soils of Chile. *Soil Biology and Biochemistry.*, 15 (5): 599-603.
- Brady, N.C. and R.R. Weil. 1999. *The Nature and Properties of Soils*, 12th Edition. Upper Saddle River, NJ: Prentice-Hall, Inc.
- Breman, R.F. 2005. *Zinc application and its availability*. Doctoral thesis of philosophy, Murdoch University, Perth, Western Australia, Australia.
- Broadley, M.R., P. J. White, J.P. Hammond, I. Zelko and A.Lux. 2007. Zinc in plants. *Journal New Phytologist* 173: 677–702.
- Cooperband, L. 2002. Building Soil Organic Matter with Organic Amendments. Center for Integrated Agricultural Systems (CIAS). <http://www.cias.wisc.edu/wp-content/uploads/2008/07/soilorgmtr.pdf> (accessed October 18, 2009).
- Duncan, M. R., 2002. Soil acidity and P Deficiency. Acid Soil Management, prepared for the New South Wales Acid Soil Action Program. http://www.dpi.nsw.gov.au/__data/assets/pdf_file/0010/166384/nt-phosphorus-acidity.pdf (accessed August 14, 2009).
- Edwards, C.A., J.R.,Lofty, 1982. Nitrogenous fertilizers and earthworm populations in agricultural soils. *Soil Biol. Biochem.*, 147:515-521
- Fageria, N. K., F. J. P. Zimmerman and V. C. Baligar. 1995. Lime and phosphorus interactions on growth and nutrient uptake by upland rice, wheat, common bean, and corn in an Oxisol. *Plant Nutrition.*, 18(11) :2519-2532.

FAO, 2005. The importance of soil organic matter Key to drought-resistant soil and sustained food production. Rome, Italy .

FAO, 2008. Guide to laboratory establishment for plant nutrient analysis. Rome, Italy.

Gobarah, M.E., M. H. Mohamed and M.M. Tawfik. 2006. Effect of Phosphorus Fertilizer and Foliar Spraying with Zinc on Growth, Yield and Quality of Groundnut under Reclaimed Sandy Soils. *Applied Science Research.*, 2(8): 491-496.

Habib, M. 2009. Effect of foliar application of Zn and Fe on wheat yield and quality. *African Journal of Biotechnology.*, 8 (24): 6795-6798.

Kalra, Y.P. 1995. Determination of pH of soil by different methods: Collaborative study. *J. AOAC int.* 78:310-321.

Halvin, J.L., J.D. Beaton, S.L. Tisdale and W.L. Nelson. 1999. Soil fertility and fertilizers: an introduction to nutrient management. 6th ed. USA: Pearson Prentice-Hall, Inc.

Horneck D., D. Wysocki, B. Hopkins , J. Hart, and R. Stevens. 2007. Acidifying Soil for Crop Production: Inland Pacific Northwest. [http:// extension. oregonstate. edu/catalog/pdf/pnw/pnw599-e.pdf](http://extension.oregonstate.edu/catalog/pdf/pnw/pnw599-e.pdf) (accessed October 18, 2009).

IUSS Working Group WRB.2006.World reference base for soil resources 2006. 2nd ed. World Soil Resources Report No.103, 47. FAO: Rome.

Kaya, C. and D. Higgs. 2002. Response of tomato (*Lycopersicon esculentum* L.) cultivars to foliar application of zinc when grown in sand culture at low zinc. *Sci.Hortic*, 93: 53-64.

Khan, H.R., G.K. McDonald and Z. Rengel.2003. Zn fertilization improves water use efficiency, grain yield and seed Zn content in chickpea. *Plant Soil* 249: 389-400.

Laughlin, W.M., P.F.Martin, and G.R. Smith.1974. Lime and Phosphorus Influence Kennebec Potato Yield and Chemical Composition. *American Potato*,51:393-402.

- Lindsay, W.L., and W.A. Norvell. 1978. Development of a DTPA test for zinc, iron, manganese, and copper. *Soil Sci. Soc. Amer. J.* 42:421-428.
- McCauley, A., J. Clain and J. Jacobsen. 2009. Soil pH and Organic matter in Nutrient Management Modules. University-Bozeman, Bozeman, Montana State, <https://www.certifiedcropadviser.org/files/certifications/certified/education/self-study/exam-pdfs/38.pdf> (accessed November 5, 2010).
- Manna, M.C., A. Swarup, R.H. Wanjari, B.Mishra, and D.K. Shahi. 2007. Long-term fertilization, manure and liming effects on soil organic matter and crop yields. *Soil and tillage research*, 94: 397-409.
- Meng, C., L. Xiaonan, C. Zhihong, H. Zhengyi and M. Wanzhu. 2004. Long-term effects of lime application on soil acidity and crop yields on a red soil in Central Zhejiang. *Plant and Soil*. 265:101–109.
- Mokwunye, U. 1975. The influence of pH on the adsorption of phosphate by soil from Guinea and Sudan Savanah zones of Nigeria. *Soil Sci. Soc. Am. Proc.*29:1100-1102.
- Movahhedy-Dehnavy, M., S.A.M. Moderres-Sanavy and A. Mokhtassi-Bidgoli. 2009. Folia application of zinc and manganese improves seed yield and quality of safflower (*Carthamus tinctorius* L.) grown under water deficit stress. *Industrial Crops and Product* 30: 82-92.
- Murphy, J., and J.P. Riley. 1962. A modified single solution method for the determination of phosphate in natural waters. *Anal. Chim. Acta.* 27:31-36.
- Nelson D. W. and L. E. Sommers 1982. Total carbon, organic carbon and organic matter. In: *Methods of soil analysis. Part 2. Chemical and microbiological properties*. Eds. A.L. Page, R.H. Miller and D.R. Keeney, 539-577. Madison, Wisconsin: American Society of Agronomy.
- Oluwatoyinbo, F.I, M.O. Akande and J.A. Adediran. 2005. Response of Okra (*Abelmoschus esculentus*) to Lime and Phosphorus Fertilization in an Acid Soil. *World Journal of Agricultural Sciences* 1 (2):178-183.

Panomtaranichagul , M. and S. Narubarn. 2008. Improvement of Anti-Erosive and Water Harvesting Practices in Alley Cropping to Increase Sustainable Rainfed Multiple Crop Production on Sloping Land. Progression of experiment copy 1, year 1. Presented to National Research Council of Thailand.

Panomtaranichagul, M., T. Meetham, D. Supawan and S. Peukrai. 2009. Use of Geo-Textile and Furrow Cultivation to Improve Water Use Efficiency for Sustainable Multiple Cropping on a Sloping Land. Complete Final Report Work Package 9, Under The Environmental and Socio-economic Contribution of Palm Geotextiles to Sustainable Development and Soil Conservation, BORASSUS Project. May, 2005 –February, 2009, funded by the INCO-DC: International Cooperation with Developing Countries.

Potarzycki J. and Grzebisz W. 2009. Effect of zinc foliar application on grain yield of maize and its yielding components. *Plant Soil Environ.* 55(12): 519–527.

Ryan, J., G. Estefan and A. Rashid. 2001. *Soil and Plant Analysis Laboratory Manual*. 2nd ed. Syria: International Center for Agricultural Research in the Dry Areas (ICARDA) and the National Agricultural Research Center (NARC).

Salgueiro, M.J., M. Zubillaga, A. Lysionek, M.I. Sarabia, R. Caro, T.D. Paoli, A Hager, R. Weill, , and J. Boccio. 2000. Zinc as an essential micronutrient: A review. *Nutrition Research* 20 (5):737-755

Tisdale, S. L. and L. N. Werner. 1966. *Soil and Fertilizer Phosphorus in Soil fertility and Fertilizer*, 2nd ed., New York: Macmillan Co.

Thomas, G.W. 1970. Soil and Climatic factors Which Affect Nutrient Mobility. In Nutrient Mobility in Soil: Accumulation and Losses, ed. Engelstad, O.P., 1-20. Madison: Soil Soc. Amer.

Wang J.J., C.W. Kennedy, H.P. Viator, A.E. Arceneaux, and A.J. Guidry. 2005. Zinc fertilization of sugarcane in acid and calcareous soil. *American Society Sugar Cane Technologists*. 25: 49-61.

Wang, X., C.Dianxiong and A. Jingqing. 2001. Land application of organic and inorganic fertilizer for corn in dryland farming region of north China. Selected paper from the 10th International Soil Conservation Organization Meeting held May 24-29, 1999 at Purdue University and the USDA-ARS National Soil Erosion Research Laboratory.

Wild, A., 1988. Plant nutrient in soil phosphate in Russell's Soil conditions and plant growth, 11th ed., ed. Wild, A., 695. England: Longman Group.

Zhu, Y.G., S.E. Smith and F.A. Smith. 2001. Zinc (Zn)-phosphorus (P) Interactions in Two Cultivars of Spring Wheat (*Triticum aestivum* L.) Differing in P Uptake Efficiency. *Annals of Botany* 88: 941-945.