

## เอกสารอ้างอิง

- Abruna, F., J. Vicente-chandler and R.W. Pearson. 1970. Crop Response to Soil Acidity Factors in Ultisols and Oxisols, I, Tobacco. Soil Sci. Amer. Proc. 34 : 629-635.
- Adams, F., R.W. Pearson and B.D. Doss. 1967. Relative Effects of Acid Subsoil on Cotton Yields in Field Experiments and on Cotton Root in Growth Chamber Experiments. Agron. J. 59 : 453-456.
- Andrew, C.S., A.D. Johnson and R.L. Sandland. 1963. Effects of Aluminum on the Growth and Chemical Composition of Some Tropical and Temperate Pasture Legumes. Aust. J. Agric. Res. 24: 325-339.
- Black, C.A. 1967. Soil Plant Relationships, 2 nd ed. John Wiley, N.Y. 6-7.
- Clarkson, D.T. 1965. The Effect of Aluminum and Some Trivalent Metal Cation on Cell Division in The Root Apices of Allium Cepa. Ann. Bot. (London). 29: 309-315.
- Clarkson, D.T. 1967. Interactions Between Aluminum and Phosphorus on Root Surfaces and Cell Wall Materials. Plant and Soil. 27: 347-356.

- Coleman, N.T. and G.W. Thomas. 1967. The Basic Chemistry of Soil Acidity. Agron. Monogr. 12: 1-41.
- Donahue, R.L., R.W. Miller and J.C. Shickluma. 1977. An Introduction to Soil and Plant Growth. Prentice Hall, Englewood Cliffs, New Jersey. 420-428.
- Fisher, T.R., 1969. Crop Yields in Relations to Soil pH as Modified by Liming Acid Soils. Monogr. Agric. Sta. Res. Bull. 341-345.
- Fleming, A.L. and C.D. Foy. 1963. Root Structure Reflects Differential Aluminum Tolerance in Wheat Varieties. Agron. J. 60: 172-176.
- Foy, C.D. 1974. Effects of Aluminum on Plant Growth. In E.W. Carson (Ed), The Plant Root and Its Environment. University Press of Virginia, Charlottesville. 132-137.
- Foy, C.D., G.R. Burns, J.C. Brown and A.L. Fleming. 1965. Differential Aluminum Tolerance of Two Wheat Varieties Associated with Plant Induce pH Changes Around Their Roots. Soil Sci. Amer. Proc. 29: 64-67.
- Foy, C.D., G.C. Gerloff and A.L. Fleming. 1972. Differential Aluminum Tolerance in Two Snapbean Varieties. Agron. J. 64: 815-818.

Foy, C.D., G.R. Brown, W.H. Armiger and A.L. Fleming. 1967.  
Characterization of Aluminum Tolerance Among Varieties  
of Wheat and Barley. Soil Sci. Soc. Amer. Proc. 24:  
513-521.

Foy, C.D. and J.C. Brown. 1963. Toxic Factors in Acid Soils. I.  
Characterization of Aluminum Toxicity in Cotton. Soil  
Sci. Soc. Am. Proc. 27: 403-407.

Foy, C.D., J.W. Schwartz, H.N. Lafever and A.L. Fleming. 1974.  
Aluminum Tolerance of Wheat Cultivar Related to Region  
on Origin. Agron. J. 66: 751-757.

Hallsworth, G.R., Greenwood, E.A.N. and Jane. 1957. Some Nutrient  
Interactions Affecting the Growth of Pasture Legumes in  
Acid Soils. Food Agric. Sci. J. 8: 60-65.

Hewitt, E.J. 1952. A biological Approach to the Problem of Soil  
Acidity. Trans. Intern. Soc. Soil Sci. Vol I, Dublin.  
34-42.

Hsu, P. and P.D. Walton. 1971. The Inheritance of Morphological  
and Agronomic Characters in Spring Wheat. Euphytica.  
19: 54-60.

Jackson, J.W. and K. Ohki. 1984. The Influence of Soil pH on Leaf  
Area and Yield of Wheat. Crop Sci. 24: 377-378.

Jackson, W.A. 1967. Physiological Effects of Soil Acidity. Agron. Monogr. 12: 43-124.

Johnson, R.E. and W.A. Jackson. 1964. Calcium Uptake and Transportation by Wheat Seedlings as Affected by Aluminum. Soil Sci. Soc. Amer. Proc. 28: 381-386.

Kamprath, E.J. 1967. Soil Acidity and Response to Liming. Tech. Bull. 4. Int. Soil Testing Ser. North Carolina State Univ. Agri. Exp. Stn. Raleigh. 83-87.

Kerridge, P.C. 1969. Aluminum Toxicity in Wheat (*Triticum aestivum* Will., host) Ph.D. Diss. Oregon State Univ., Corvallis Lit. Congr. Card no Mic. 69-86.

Kerridge, P.C. and W.E. Kronstad. 1968. Evidence of Genetic Resistance to Aluminum Toxicity in Wheat. Agron. J. 60: 710-711.

Kerridge, P.C., M.D. Dawson and D.P. Moore. 1971. Separation of Degrees of Aluminum Tolerance in Wheat. Agron. J. 63: 586-591.

Lafever, H.N., L.G. Campbell and C.D. Foy. 1977. Differential Response of Wheat Cultivars to Aluminum. Agron. J. 69: 563-568.

Long, F.L. and C.D. Foy. 1970. Plant Varieties as Indicators of Aluminum Toxicity in the A<sub>2</sub> horizon of a Norfolk Soil. Agron. J. 62: 679-681.

Maclean, F.T. and B.E. Gilbert. 1927. The Relative Aluminum Tolerance of Crop Plants. Soil Sci. 24: 163-175.

Mclean, E.D. 1965. Method of Soil Analysis. Part II. Amer. Soc. of Agron. Inc. Madison, Wisconsin. 979-997.

Mecleod, L.B. and L.P. Jackson. 1965. Effects of Concentration of the Aluminum Ion in Root Development and Establishment of Legume Seedlings. Can. J. Soil. Sci. 45: 221-234.

Moore, D.P. and W.E. Kronstad. 1977. In Proceedings of Workshop on Plant Adaptation to Mineral Stress in Problem Soils. Cornell Univ. Agric. Expt. Station Special Publication Ithaca, N.Y. 65-69.

Morris, H.D. and W.H. Pierre. 1949. Minimum Concentrations of Manganese Necessary for Injury to Various Legumes in Culture Solution. Agron. J. 41: 107-112.

Mugwira, L.M., S.M. Eigawhary and K.I. Patel. 1978. Aluminum Tolerance in Triticale, Wheat and Rye as Measured by Root Growth Characteristics and Aluminum Concentration. Plant and Soil. 50: 681-690.

Mugwira, L.M., S.M. Elgawhawy and K.I. Patel. 1981. Differential Tolerance of Triticale, Wheat, Rye and Barley in Aluminum in Nutrient Solution. *Agron. J.* 68: 782-787.

Munns, D.N. 1965. Soil Acidity and Growth of a Legume. II. Reactions of Aluminum and Phosphate in Solution and Effects of Aluminum, Phosphate, Calcium, and pH on Medicago Sativa L. and Trifolium Subterraneum L. in Solution Culture. *Aust. J. Agric. Res.* 16: 743-755.

Neenan, M. 1960. The Effects of Soil Acidity on the Growth of Cereals with Particular References to the Differential Reactions of Varieties. *Plant and Soil*, 12: 324-328.

Ohki, K. 1985. Manganese Difficiency and Toxicity Effects on Photosynthesis, Chlorophyll and Transpiration in Wheat. *Crop Sci.* 25: 187-191.

Pearson, R.W. 1975. Soil Acidity and Liming in the Humid Tropic. *Agric. Bull.* 172-175.

Pratt, P.F. 1966. Aluminum. In H.D. Chapman (ed). *Diagnostic Criteria for Plants and Soils.* Univ. of California. Berkeley, C.A. 284-296.

Reid, D.A., A.L. Fleming and C.D. Foy. 1971. A Method for Determining Aluminum Response of Barley in Nutrient Solution in Comparison to Response in Aluminum Toxic Soil. *Agron. J.* 63: 600-603.

Rorison, I.H. 1958. The Effects of Aluminum on Legume Nutrition. Chapter 3, Nutrition of the Legumes. E.G. Hallsworth, Ed. Butterworths Scientific Publications, London. 238-242.

Russel, D.A. 1957. Boron and Soil Fertility. In *Soils - 1957 Yearbook Agri.* (US Dep. Agric) US Government Printing Office, Washington, D.C. 47-53.

Schilling, G., W. Romer and J. Augustin. 1986. Potential P Uptake was Determined by the Size of the Root System. Wheat, Barley, Triticale *Abstracts* 3(3):245.

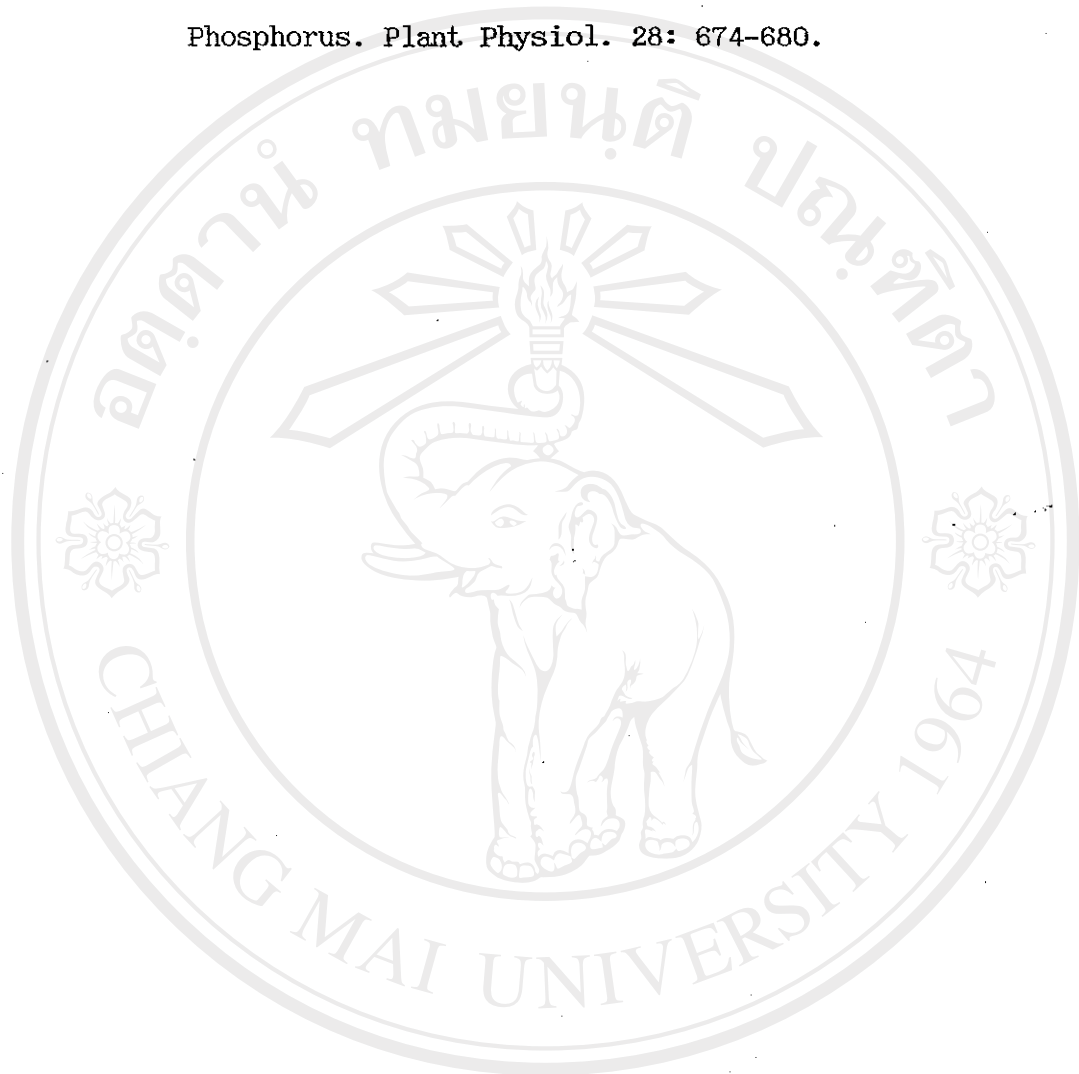
Siman, A., F.W. Cradlock and W.A. Hudson. 1974. The Development of Manganese Toxicity in Pasture Legumes Under Extreme Climatic Conditions. *Plant and Soil.* 41: 129-140.

Sompong, P., V. Sasithorn and C.E. Mann. 1986. Results of Acid Soil Tolerance Testing of Wheat and Triticale at Chiang Rai Horticulture Center. Presented at the Thai Winter Cereals Workshop Held at Khon Kaen Augusts 13 to 15, 1987. 161-164.

- Steel, R.G.D. and J.H. Torrie. 1960. Principle and Procedures of Statistics. McGraw-Hill Book Company. Inc. N.Y. 481 P.
- Tawonmas, D., M. Panichakul, S. Ratanarat and W. Masangusul. 1984. Problem of Lateritic Soil for Field Crop Production in Thailand. In Ecology and Management of Problem Soils in Asia. FFTC Book Series. 27: 50-57.
- Thomas, G. 1976. Chemical Analysis of Plant Tissue. Search Agriculture Agronomy. 6: 6-7.
- Truog, E. 1947. The Lining of Soils. Science in Farming. US. Dep. Agric. Yearbook. 75-88.
- Vlams, J. 1953. Acid Soil Infertility as Related to Soil Solution and Solid Phase Effects. Soil Sci. 75: 383-394.
- Vose, P.B. and P.J. Randall. 1962. Resistance to Aluminum and Manganese Toxicities in Plants Related to Variety and Cation Exchange Capacity. Nature, 196: 85-86.
- Wallace, S.U. and I.C. Anderson. 1984. Aluminum Toxicity and DNA Synthesis in Wheat Root. Agron. J. 76: 5-8.
- Wieneke, J. 1986. Effect of P-Uptake and P-Remobilization During the Grain Filling Period on the Yields of Spring Wheat, Barley and Triticale Abstracts. 3(5):500.



Wright, K.E. 1953. Aluminum Toxicity Studies with Radioactive Phosphorus. *Plant Physiol.* 28: 674-680.



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