

6- REFERENCES

Abdel-Aal, Sh.I.; Shawky , M.E. and Shahin, R.R. (1990): Status of Mn, Zn and B in relation to soil quality in some prospective Oases of the Western desert of Egypt. Egypt. Soil . Sci. 30, No (4) 649-664.

Abdel Hamid E.A. (1981). Pedochemical studies of some trace elements in the North western coast, ARE. Ph. D Thesis Fac. of Agric. Ain Shams Univ.

Abdel Hamid E.A; Hassan, F.A. Tag El-Dine, A S. and Hamra, A.M.A. (1991). Copper, Manganese iron and zinc status in some salt affected soils of Egypt. Egypt. J. Soil Sci. 31, No. 4, pp. 437-447.

Abdel Hamied A. H . (1984). Status of manganese in the soils of Kaluobia governorate. M.Sci. Thesis Fac of Agric. Zagazig Univ. Benha Branch.

Abdel Kader F.H and Abu Ghalwa, S.I. (1973). Distribution of total and free iron forms in different soils of Egypt. Alex. J. Agric. Res., 3, 443-449.

✓ **Abdel Kader, G. A. (2000).** Status of some micronutrients in soils of Kaluobia Governorate. M.Sc. Thesis Fac. of Agric. Zagazig Univ. Banha Branch.

Abdel Razik , S. A . (1994). Evaluation of some newly reclaimed soils in Eastern Delta, Egypt. Ph.D. thesis Fac of Agric., Zagazig Univ.

✓ **Abdel Razik, S.A. (1999).** Trace element status and its relation to some soil variable in sandy and calcareous soils of Egypt. J. Agric. Sci. Mansoura Univ. 24 (3): 1141-1451.

Abdel-Kareim, A. M. (1995). Chemical analysis and mineralogical characteristics of soil and their significance on fertility soil in Monofia Governorate. M. Sc., Thesis, Fac. of Sci . Monofia Univ.

- Abdel-Latif, I. A. and Abdel- Fattah K. S., (1985).** Extraction of available micronutrients from calcareous soils amended with organic materials. Egypt, J. Soil Sci. 25: 183-190.
- Abdel-Mottaleb, M.A.; Abdel F.M.A.; Abdel Hamid E.A and El-Kassas, H.I. (1989).** Zn and Cu in relation to some soil variables in calcareous soils of the Mediterranean coastal littoral of Egypt. Egypt. J. Soil Sci. Special Issue pp 307-321.
- Abdel Wahid M.A. (1976).** Status of some micronutrients (zinc) in Egyptian soils. Ph.D. Thesis Fac. of Agric., Cairo Univ.
- Abou Hussien, E.A. (1985):** The influence of neutral salts on the availability of phosphate in some Egyptian soils. M. Sc. Thesis Fac. of Agric. Menofiya Univ.
- Ahmed, A.M. (1979).** Status of manganese in soils of some newly extension areas. M.SC. Thesis , Fac. of Agric. Zagazig Univ.
- Aubert , H. and pinta, M . (1977) .** Trace elements in soils . published for O . R . S . T . O . M . by El - sevier scientific publishing company .
- Awadalh, E.A.; Aboulrous, S.A. and Taha S.A. (1982):** Forms and availability of manganese in some soils of Egypt. Beitrage Zur Tropischen Landwirtschaft and Vetennarmedizin, 20: 34-45. {c.f. soils and Ferti., 45 (8004) 1982}.
- Badawy, EL. H.M. (1992):** Studies on some heavy metals in soils of Egypt and plants grown thereon, A.R.E. Ph.D. Thesis, Fac Agric., Cairo University.
- Barakat, A M. (1998).** Trace element contents relation to some soil variable in alluvial and lacustrine soils. J. Agric. Sci. Mansoura Univ. 23 (8): 4005-4015.

- Bear, F. E. (ed.) (1977). Chemistry of the soil. 2nd ed, Chapman and Hall, London.
- Black, C. A.; (editor) (1965). ed. "Methods of soil analysis part II" Agronomy series No. 9.
- Buchman, H. G. and Brady, N. C. (1969). The nature and properties of soils. Seventh Edition, p, 653.
- Chapman, H. D. (ed.) (1966). Diagnostic criteria for plant and soils. Div. Agric. Sci., Univ. of California, Berkeley, B. 793, 1966. C. F. Lindsay, 1972.
- Christensen, P. D., Toth, S. J. and Bear, F. E. (1950). The status of soils Manganese as influenced by moisture, organic matter and PH. Soil Sci. Soc. Amer. Proc. 15: 279 - 282.
- Cottenie, A. Verloo, M.; Kikens, L.; Vedghe, Gaud Camerlynck, R. (1982). Analytical problems and methods in chemical plant and soil analysis. Hand Book Ed. A. Cottenie, Gent, Belgium (1982).
- Dixon, J. B., and Weed, S.B. (1977). Minerals in soil Environments Soil Sci. Soc. Amer. Med. Wisc. USA.
- EL-Damaty, A. H., Hamdi, H., Rashed, A. and Abd EL- Fattah (1973). A preliminary study on Zinc in some selected alluvial Nile Delta soils. Egypt J. Soil Sci. 13: 109-120.
- El- Demerdashe, S. (1970). Studies on the nature of interference between the alluvial and desert soils in the western border of Nile Delta. Ph.D. Thesis, Fac. Agric., Cairo Univ. Egypt.
- ✓ El-Demerdashe, S.; Abdel Hamid, E.A. Abdel F.M.A. and El-Kassass H., I. (1991). Iron status and its relation to some soil variables in calcareous soils of Egypt. Egypt. J. soil Sci., 31 (3): 357-372.

El-Kady, M. A. (1970). Factors affecting certain micronutrients availability in soils. Ph. D. Thesis Fac. Agric. Al-Azhar Univ., Egypt.

El-Gala, A.M. and Hendawy I.M. (1972). Studies of the availability of manganese in some soils of ARE. Egypt. Desert Inst. Bull., ARE., 22, 307-314.

EL-Gala, A.M.; Aly, O.M. and EL-Sikhry E.M. (1990): Chemical of certain micronutrients and pollutant elements in Ismailia and Sinai soils. Egypt. J. Soil Sci. 30, No 4, p 637-647.

EL-Leithy, A.A. (1986): Pedological status of heavy metals in vicinity of some industrial and high way areas in soils of Nile Delta. Ph.D. Thesis, Fac. of Agric., Alex. Univ., Egypt.

El-Rshidi, M.A. Shehata, A and Hamdi H. (1978). Estimation of Fe and Mn solubility in saline alkali soils by use of some chemical solutions. Egypt J. Soil Sci., 18: 217.

EL-Sayad, E.A. (1988): Status of some trace elements in relation to the nature of main sediments in the Fayoum depression. Ph.D. Thesis, Dept. of soil Sci, Univ. of Aberdeen, U.K.

El-Sayed, A. A. (1971). Status of copper and zinc in some soils and plants of UAR. M.SC. Thesis , Fac. of Agric., Ain Shams Univ.

EL-Shfie, F.S. (1994): Effect of phosphorus and Zinc application on growth and nutrients distribution of broad bean plants Zagazig J. Agric. Res. Vol. 21 No (5) 1593-1605.

El-Toukhy, M.M. (1987). Studies on the trace elements in Egyptian soils and in wheat grains. Beitrage trop. Land Wirtch Veteriamed, 18: 35-47.

- Epstein , E . and Stout «P . R . (1952) . the micronutrient cations iron , manganese , zinc and copper . their uptake by plants from the adsorbed state . Soil Sci . 72: 47 - 65 .
- Ghanem, I. Hassan, M.N.; Khadr, M. and Todors, V. (1971). Studies on manganese in soils: 1. Status of manganese in some selected soils of Egypt. J. Soil Sci. UAR, 11: 113-124.
- Hafez, I.W., Abd El-Hamid E.A. Tag. El- Din, A.S. and Aaser, N. M. (1992): Available iron and manganese on affected by soil variables in calcareous soils. Egypt. J. Soil Sci. 32: 423-436.
- Hassan, F. A., (1979). Trace element profiles in soil types of Egypt as criterion of their genesis and formation . M.Sc. Thesis Fac of Agric., Zagazig Univ.
- Hassanain H.G.; El-Bagouri, I.H and Yousry , M. (1980). Evaluation of some chemical extractants for determining the availability of iron, manganese and copper in different soils. Egypt. J. soil Sci., 20, (2): 151-157.
- Hassona, H.H. ; El-Gundy , M.M., Abdel Nabi, A.O and Abdel Razik. S. (1996). Micronutrient status as related to soil texa in the east of Komombo Aswan area. J. Agri., Sci., Mansoura Univ., 21 (11) 4219.
- Hegazy, M. N. A.; El- Sayad, E. A. and Sorour. A. M. (1991). Evaluation of some extractants for determining available Fe, Mn, Zn and Cu in some Egyptian soils Zagazig . J. Agric. Res. 18 (3). 897-910.
- Holah, Sh. Sh., (1977). Studies on the status of some micro nutrients (iron) in Egyptian soils. Ph.D. Thesis, Fac. Agric. , Cairo Univ.
- Ismaeil, S.A. A. (1993). Impact of some soil components of the status of iron, manganese and copper in some calcareous soils in Egypt Menofeya J. Agric. Res. 18 (3) 1911-1927.

- Janick , H . L . and Lamm , C . G . (1961). The zinc content of Danish soils . Acta . Agric . Sci and 11 : 36 - 80 .
- Kamh, R.N. (1977). Factors affecting zinc availability in soils. M.SC. Thesis Fac. of Agric., Cairo Univ.
- Kamh, R.N. (1981). Supplying power of soils of Sinai for some micronutrients Ph. D. Thesis, Fac. of Agric., Ain Shams Univ.
- Katyal, J. C., and Randhawa, N. S., (1983). Micronutrients. FAO Fertilizer and plant nutrition, Bulletin 7: 1-56.
- Kishk, F. M.; M. N. Hassan; I. Ghanem and L. El-Sissy (1973). Status of copper in some calcareous and non- calcareous soils of Egypt. Plant and Soil 39; 487-496.
- Kishk, M.A.; Ghoneim, M.F. Orabi, A.A. and Ismail, S.A. (1980). Status of iron in the soils of El-Minia Governorate . El-Minia J. Agric., Res. Div., Res. Bull. No. 13.
- Krauskopf, K.B. (1972). Geochemistry of micronutrients in "Micronutrients in Agriculture" (JJ. Mortved, p.M. Giordano and W.L. Lindsay , Eds.) soil Sci Soc. Am. Madison Wisconsin USA.
- Labib F.B. (1970). Contribution to the mineralogical characterization of the most important soil parent material in UAR. Ph.D. thesis Fac of Agric., Ain – Shams Univ. Egypt.
- Lindsay, W.L. (1972). Zinc in soils and plant nutrition . Adv. Argon. 24: 147.
- Lindsay, W.L. and Norvell, W. A. (1978). Development of a DTPA soil test for zinc, iron, manganese and copper soil Sci. Soc. Amer J., 42: 421.
- Mengel, K. and Kirkby, E.A. (1978). Principals of plant nutrition International potash Int berne Switzerland.

- Mitchell, R. L. (1955). Trace elements in chemistry of the soil. Reinhold, publ. Corp. New York. p. 253.
- Mohamed, E.I. (1982). Soil minerals as a source of total and available nutrients M.Sc. Thesis Fac of Agric., Assuit Univ.
- Mohamed, N.A. (1990). Nutrient status in some soils as related to mineralogical composition M.Sc., Thesis, Fac. of Agric. Ain Shams Univ., Egypt.
- Mulder, E. G. and Gerretsen, F. C. (1952). Soil Manganese in relation to plant growth. Advan. Agron. 4: 221 - 277.
- Nair, K.P.P. and Cottenie, A. (1971). A statistical evaluation of the inter-relationships between particle-size fractions, free iron oxide and trace elements. J. Soil Sci. 22: 203-209.
- Ottow, J.C. G.; Benckiser, G.; Watanabe, I. And Santeago, S. (1983): Multiple nutritional soil stress as the prerequisite for iron toxicity of wetland rice. Trop. Agric. (Trenedad) 60, 102-106.
- Page, A.L. (1982). Methods of soil analysis, part 2. Amer. Soc. Agron., Madison, Wisconsin USA.
- Page, E.R.; Schofield, E.K. and Macgregor, A.J. (1963). Studies in soil and plant management. Plant and Soil, 19: 255-263.
- Patel, G. R. and Dengarwals, R. T., (1984). Availability of iron, manganese and zinc in Paddy soils of south Gujarat. Gujarat Agric. Univ. Res. S. 9: 29-35.
- Piper, C.S. (1950). Ed. "Soil and Plant Analysis". Inter Sci. Publisher, Inc. New York.

Piskunon, N. (1969). Differential and integral calculus. Mir. Publishers, Moscow. USSR.

✓ **Rabie, F; El- Araby, A; and El-Shazly, M. (1989).** Micronutrients status as related to soil constituents in some soils of eastern desert , Egypt. Egypt J. Soil Sci. 29, NO 3.

Rashad, I. F., Abd El-Nabi, A. O.; El- Hemeely, M. E. and Khalaf, M. A. (1995). Background levels of heavy metals in the Nile Delta soils. Egypt J. Soil Sci. 33 (2): 239-252.

Ryan , P ., Lee , J . and Peeples , T . F . , (1967). Trace element problems in relation to soil units in Durope . FAO , Rome , World soil Resources Report 31 .

Safwat, A.M. (1980). Studies on micronutrients in some soils of Egypt. M.Sc. Thesis Fac of Agric., El-Minia Univ.

Salcedo, I.H.; Ellis, B.G. and Lucas, R.E. (1979). Studies on soil manganese: II- Extractable manganese and plant uptake. Soil Sci. Soc. Am. J., 43: 138-141.

Sanchez , C . , and Kamprath , E. J . , (1959). Effect of liming and organic matter content on the availability of native and applied Manganese . Soil Sci . Soc . Amer . Proc . 23 : 302 - 304 .

Scharrer; K., and Schaumtoffel, E.; (1960). Uber die kupferaufnahme durch somergetreide auf kupfermangelboden. Z. pf1. Ernahy. Dung. Bodenk. 89: 1-17. (Ref. FAO. Soil Bull., 17, Rome. 1972).

Sherman, G. D. and Harmer, P. M., (1942). The manganese, manganic equilibrium of soils. Soil Sci. Soc. Amer. Proc., 7: 398-405.

Sorensen, R. C.; Oelsligie, D. D. and Knudsen, D., (1971). Extraction of Zn, Fe. And Mn from soils with 0.1 N Hydrochloric acid as affecting by soil properties, solution: soil ratio, and length of extraction period. Soil Sci., 111: 352-359.

Taha, S.A. (1980). Studies on Mn in some soils of Egypt Ph. D. Thesis Fac. of Agric. of Cairo Univ.

- Tantawy, M.F. (1996).** Extraction of some heavy metals as affected by soil properties M.Sc. Thesis Fac of Agric. Menufiya Univ.
- Tayel, M.; Hamdi, H. and Abdel Ghani, A. M. (1966).** Iron status and behaviour in the soils of Egypt. Beitrage trop. Land wirtsch. Veterinarmed. 1: 27-38.
- Thorne, D. W., Wann, F. B., and Robinson, W., (1951).** Hypotheses concerning lime induced chlorosis. Soil Sci. Soc. Amer. Proc. 15: 254-258.
- Turekian, K.K. and Wedepohl K.H. (1961).** Distribution of the elements in some major units of the earth's crust Geol. Soc. Amer. Bull. 72: 175-192.
- Viets, F. G., Boawn, L. C., and Crawford, C. L., (1957).** The effect of nitrogen and types of nitrogen carrier on plant uptake of ingenious and applied zinc. Soil Sci., Soc. Amer. Proc. 21-197.
- Wiklander, L. (1958).** Mineral nutrition of plant Mn. Encyclopedia of plant physiology, 4: 141 - 144.
- Zech, W., (1984).** Investigation on the occurrence of potassium and zinc deficiencies in plantations of *Gmelina arborea*, *Azadirachta indica* and *Acacia occidentalis* in semi arid areas of west Africa. Potash Review Sub. 22131 No. 1, 1-5.