



References

6. REFERENCES

- Al-Omran, A.M.; Mustafa, M.A. and Shalaby, A.A. (1987).
Intremittent evaporation from soil columns as affected
by a gel-forming conditioner.
Soil sci. Soc. Am. J. 51, 1593-1599.
- Ayers, R.S. and Westcot, D.W. (1976).
Water quality for agriculture.
FAO Irrigation and Drainage paper No. 29, 97 pages,
Rome.
- Azzam, R. (1983-I).
Sand-RAPG combination simulating fertile clayey soil.
I. Radiation preparation of RAPG.
International symposium on "Isotope and radiation
technique in soil physics and irrigation studies",
IAEA and FAO, Aix en Provence, France, 18-22 April,
1983, IAEA-SM-167/15: 322-330.
- Azzam, R. and El-Hady, O.A. (1983-II).
Sand-RAPG combination simulating fertile clayey soil.
II- Structure stability and maintenance.
International symposium on "Isotope and radiation
techniques in soil physics and irrigation studies",
IAEA and FAO, Aix en Provence, France, 18-22 April
1983, IAEA-SM-167/15: 330-335.
- Azzam, R. ad El-Hady, O.A. (1983-III).
Sand-RAPG compination simulating fertile clayey soil.
III- Water preservation.
International symposium on "Isotope and radiation
techniques in soil physics and irrigation studies",
IAEA and FAO. Aix en Provence, France, 18-22 April
1983, IAEA-SM-167/15: 336-342.
- Balba, A. (1973).
Organic and inorganic fertilization of sandy soils.
FAO Soils Bulletin No. 21, "Sandy soils": 23-46, Rome
(1975).
- Baudelaire, J.P. (1973).
Irrigation of sandy soils.
FAO Soils Bulletin No. 21, "Sandy soils": 97-105, Rome
(1975).

- Black, C.A. (editor), (1965).
Methods of soil analysis, Parts I and II.
American Society of Agronomy Inc., Madison, Wisconsin,
U.S.A.
- Botros, B.N.; Lotfy, A.A.; El-Hady, O.A. and Azzam, R. (1985).
Introductory studies on sandy soil conditioning for
citrus nursery plantation.
Egypt. J. Soil Sci., 25(3): 263-274.
- Cochran, W.G. and Cox, G.M. (1957).
Experimental Designs.
2nd Ed., John Wiley and Sons Inc., New York.
- Cottenie, A.; Verloo, M.; Kiekens, L.; Velghe, G. and
Camerlynck, R. (1982).
Chemical analysis of plants and soils.
Lab. Anal. Agroch. State Univ. Ghent, Belgium.
- Dewis, J. and Freitas, F. (1970).
Physical and chemical methods of soil and water
analysis.
Soils Bulletin 10, FAO, Rome, 275 pages.
- Diab, G.S.; Galal, A.Y. and El-Sokkary, I.H. (1988).
Effect of vitra planta gel (VPG) and organic manure as
soil conditioner on some physical and nutritional
properties of sandy and calcareous soils.
Int. Symp. "The use of soil conditioners for
reclamation and farming of desert lands".
Acad. of Sci. Res. and Techn., 11-13 Oct. (1988).
Cairo, Egypt.
- Dieleman, P.J. and De-Ridder, N.A. (1972).
Elementary ground water hydraulics in "Drainage
principles and applications".
ILRI, Wageningen, the Netherlands, Publication 16,
Vol. I: 153-200.
- Donahue, R.L.; Miller, R.W. and Shickluna, J.C. (1977).
Soils: An introduction to soils and plant growth, 4th
edition.
Printice-Hall, Inc., Englewood Cliffs, New Jersey
07632, 626 pages.
- Eikhof, A.H.; King, P.A. and Koven, G.H. (1974).
Control of wilting in potted plants.
Ohio Florists' Association Bulletin, (No. (532): 6-7.

- El-Hady, O.A. (1984).
Criteria to evaluate soil conditioners for aggregate
formulation and wind erosion control.
Egypt. J. Soil Sci., 24(2): 137-144.
- El-Hady, O.A. (1987).
Hydrogels for increasing water and fertilizers use
efficiency in sandy soils.
1st Conf on "Fertilizers, Availability and Needs".
S.W.R.I.; A.R.C.; Ministry of Agric., Egypt, 13-16
April (1987): 478-496.
- El-Hady, O.A. (1988 a).
Super absorbent polymers (hydrogels) as conditioners
for sandy soils.
Int. Symp. "The use of soil conditioners for
reclamation and farming of desert lands".
Acad. of Sci. Res. and Techn., 11-13 Oct. 1988, Cairo,
Egypt.
- El-Hady, O.A. (1988 b).
Hydrogels for nursery plantation under stresses.
Int. Conf. "Plant growth, drought and salinity in the
Arab Region". EBS, IAPP/TBS, IBN, 3-7 Dec. Giza,
Egypt.
- El-Hady, O.A. and Azzam, R. (1983).
The potentiality for increasing plant available water
in sandy soils using PAMG₂.
Egypt. J. Soil Sci., 23(3): 243-257.
- El-Hady, O.A. and El-Sherif, A.F. (1988).
Egyptian bentonitic deposits as soil amendements.
"Hydrophysical characteristics and mechanical strength
of sandy soil treated with bentonites".
Egypt. J. Soil Sci., 28(2): 215-233.
- El-Hady, O.A. and Tawfik, M.A. (1989).
Studies on super absorbent materials (hydrogels) as
conditioners for sandy soils. II- Growth response and
water and fertilizers use efficiency by some summer
forage crops.
3rd National Congress on "Management of newly
reclaimed soils". Soil Sci. Soc. of Egypt, Zagazig,
24-26 Oct. (1989).

- El-Hady, O.A., Abbady, K.A. and Abd El-Hady, B.M. (1989).
Studies on super absorbent materials (hydrogels) as conditioners for sandy soils. I- Retention of ammonium and/or nitrate in soil treated with hydrogels.
3rd National Congress on "Management of newly reclaimed soils". Soil Sci. Soc. of Egypt, Zagazig, 24-26 Oct. (1989).
- El-Hady, O.A.; Abd El-Hady, B.M. and Abbady, K.A. (1991-a).
Acrylamide hydrogels and bentonitic clays as means for reducing the loss of nitrogen added to sandy soils through fertigation.
Egypt. J. Appl. Sci., (12): 412-425.
- El-Hady, O.A.; Fhim, M. and Hammad, S.M. (1987).
Modified polyacrylamide hydrogels as conditioners for sandy soils. II- Behaviour against salt components of irrigation water.
2nd Nat. Cong. on "Problems and Technology for invading desert soils". Soil Sci. Soc. Egypt. Cairo 15-17 Dec. (1987).
- El-Hady, O.A.; Pieh, S.H. and Osman, S. (1990).
Modified polyacrylamide hydrogels as conditioners for sandy soils. III- Influence on growth, water and fertilizers use efficiency by plants.
Egypt. J. Soil Sci. 30(3): 423-432.
- El-Hady, O.A., Tawfik, M.A. and El-Neklawy (1991-b).
Forage yield and efficiency of using water and fertilizers by Millet (*Pennisetum sp.*) grown on sandy soil treated with a super absorbant material (Hydrogel).
Egypt. J. Appl. Sci., 6(9): 1991, 175-185.
- El-Hady, O.A.; Tayel, M.Y. and Abed, F.M. (1981 a).
Soil conditioners and water loss via evaporation process.
Acta-Horticulturae 114 (Water Supply and Irrigation): 231-245.
- El-Hady, O.A.; Tayel, M.Y. and Lotfy, A.A. (1981 b).
Super gel as a soil conditioner. II- Its effect on plant growth, enzymes activity, water use efficiency and nutrients uptake.
Acta Horitculturae, 119, 257-266 and Short Notes in Egypt. J. Soil Sci., Special Issue "Soil Conditioners", 105-106 (1980).

- El-Hady, O.A.; Azzam, R.; Lotfy, A. and Hegala, M. (1983-IV).
Sand-RAPG combination simulating fertile clayey soil.
IV- Plantation and nutritional status.
International Symposium on "Isotope and Radiation
Techniques in Soil Physics and Irrigation Studies".
IAEA and FAO. Aix en Provence, France, 18-22 April
1983, IAEA-SM-167/15: 342-349.
- Flannery, R.L.; Busscher, W.J. (1982).
Use of a synthetic polymer in potting soils to improve
water holding capacity.
Communication in soil Science and Plant Analysis, 13:
103-111.
- Furuta, T. and Autio, R. (1988).
Hydrophilic polymers in potting soil mix.
California Agriculture, Vol. 42, No. 3, May-June.
- Hemyari, P. and Nofziger, D.L. (1981).
Super slurper effects on crust strength, water
retention and water infiltration of soils.
Soil Sci. Soc. Am. J. 45, 799-801.
- Henderson, J.C. and Hensley, D.L. (1986).
Efficacy of a hydrophilic gel as a transplant aid.
HortScience. 21(4): 991-992.
- Hilal, M. and Anter, F. (1971).
Effect of petroleum mulsh, saline watr irrigation and
seedling of some crops.
Arab Conference on Petrochemicals, Kuwait, March 23rd-
29th, 1971 3(F/2), 1.
- Hillel, D. (1971).
Soil and water "Physical principles and processes".
Academic press, New York and London, 288 pages.
- Khafagi, M. and Al-Gosaibi, A. (1990).
Studies on the characteristics of a hydrogel called P₄
with reference to its effect on the physical
properties of three soils from Al-Ahsa Oasis.
Egypt. J. Soil Sci., 30(1-2): 169-182.
- Kijne, J.W. (1974).
Water requirements for crops.
Landbouwhogeschool Weg-en Worlerbouwkunde en Irrigate,
1974, 97 pages. C.F. El-Hady *et al.* (1981-a).

- Koths, J.S. (1976).
Hydrogel or calcined clay.
Connecticut Greenhouse Newsletter (No. 72):7-10.
- Loveday, J. (1974).
Methods for analysis of irrigated soils.
Technical Communication No. 54 of the Commonwealth
Bureau of Soils. Commonwealth Agricultural Bureaux.
- Marshall, T.J. (1959).
The diffusion of gases through porous media.
J. Soil Sci., 10, 70.
- Massoud, F.I. (1973).
Some physical properties of highly calcareous soils
and the related management practices.
FAO Soils Bulletin No. 21, "Sandy Soils": 73-93, Rome
(1975).
- Michael, A.M. (1978).
Irrigation, theory and practice.
1st edition, P.P. 624. Vikas publishing house PVT,
LTD, New Delhi.
- Miller, D.E. (1979).
Effect of H-SPAN on water retained by soils after
irrigation.
Soil Sci. Soc. Am. J., Vol. 43, 628-629.
- Mostajeran, A. (1976).
A study of the potential for increasing plant
available water in soils by the use of super slurper
(hydrolyzed starch-polyacrylanitrile).
M.Sc. Thesis, Iowa State University. In "Modification
of soil structure", Emerson *et al.*, 1978 (editors)
John Willey & Sons, Chichester, New York, Brisbane,
Toronto, page 283.
- Pasak, V. (1974).
Determination of the potential wind erosion of soil.
Trans. 10th cong. of Soil Science, Moscow, Part VI:
80.
- Piner, G (1985).
Possibilities for extension of the irrigation cycle in
citrus nurseries using a gel-forming polyacrylamide".
Citrus and Subtropical Fruit Journal, No. 614, May:
13-14.

- Poole, R.T. and Conover, C.A. (1986).
Response of Schefflera to variations in irrigation procedure.
Foliage Digest, 9(7): 7-8.
- Reeve, R.C. (1965).
Modulus of rupture in Black, C.A. *et al.* (1965).
Methods of Soil Analysis" Part 1: 466-471 Am. Soc.
Agon. Inc. Publisher Madison.
- Snedecor, G.W. (1967).
Statistical methods.
5th Ed., Iowa State Univ., Press, Iowa, U.S.A.
- Spiegel, M.R. (1961).
Theory and problems of statistics.
Mc.Grow-Hill Inter. Book Comp., New York.
- Still, S.M. (1976).
Growth of "Sunny Mandalay" chrysanthemums in hardwood-bark amended media as affected by insolubilized poly (ethylene oxide).
HortScience, 11(5): 483-484.
- Talha, M.; Hamdy, H. and Ghazy, A. (1979).
Water movement in highly calcareous soils.
Egypt. J. Soil Sci., 19, 133.
- Tayel, M.Y. and El-Hady, O.A. (1981).
Super gel as a soil conditioner. I- Its effect on some soil water relations.
Acta Horticulturae, 119, 247-256 and Short Notes in Egypt J. Soil Sci. Special Issue "Soil Conditioners". 105-106 (1981).
- Tu, Z.P.; Armitage, A.M. and Vines, H.M. (1985).
Influence of an antitranspirant and a hydrogel on net photosynthesis and water loss of cineraria during water stress.
HortScience, 20(3, section 1): 386-388.
- Vaindevelde, R.; De Boodt, M., Gabriels, D. (1974).
Determination of an erosion index for conditioned soils in accordance with data of the rainfall simulator, Pedologie 24(1): 5-16.

- Wofford, D.J. (1988).
Agricultural uses of corss-linked polyacrylamide in
the Western United States.
Proceedings of the Int. Conf. "Stand Establish-ment
for Horicultural Crops "Willow Valley Inn and
Convention Center.
Lancaster, Pennsylvania, U.S.a., 27-29 April: 221-226.