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References

Abu-Zeid M. 1988. Egypt's policies to use low-quality water for irrigation. Proc. Symp. Re-use of Low-quality Water for Irrigation. Water Research Centre, Cairo.

Adams W.M. and Hughes F.M.R. 1990. Irrigation development in desert environments. In: Techniques for Desert Reclamation. A.S. Goudie (ed.). John Wiley, New York. pp. 135-160.

Amer M.H. and Ridder N.A. 1988. Land drainage in Egypt. Drainage Research Institute, Water Research Center, Cairo. 376 pp.

Ayers R.S. and Westcot D.W. 1985. Water quality for agriculture. Irrigation and Drainage Paper 29, Rev. 1. FAO, Rome. 174 pp.

Beek K.J., Blokhuis N.A., Driessen P., Van Breeman N., Brinkman R. and Pons L.J. 1980. Problem soils: their reclamation and management. ILRI Pub. No. 27, Wageningen. pp. 47-72.

Bernstein L. 1974. Crop growth and salinity. In: Drainage for Agriculture. J. van Schilfgaarde (ed.). Agronomy 17: 39-54.

Bernstein L. 1975. Effects of salinity and sodicity on plant growth. Ann. Rev. Phytopathology 13: 295-312.

Bernstein L. and Fireman M. 1957. Laboratory studies on salt distribution in furrow-irrigated soil with special reference to the pre-emergence period. Soil Sci. 83: 249-263.

Bernstein L. 1980. Salt tolerance of fruit crops. US Dept. Agr. Info. Bull. 292, 8 pp.

Bernstein L. and Francois L.E. 1973a. Comparison of drip, furrow, and sprinkler irrigation. Soil Sci. 115: 73-86.

Bernstein L. and Francois L.E. 1973b. Leaching requirement studies: Sensitivity of alfalfa to salinity of irrigation and drainage waters. Soil Sci. Soc. Amer. Proc. 37: 931-943.

Bernstein L. and Pearson G.A. 1956. Influence of exchangeable sodium on the yield and chemical composition of plants. I. Greenbeans, garden beets, clover, and alfalfa. Soil Sci. 82: 247-258.

Bernstein L., Fireman M. and Reeve R.C. 1955. Control of salinity in the Imperial Valley, California. US Dept. Agric. ARS-41-4. 16 pp.

References Page 2 of 13

Bhatti H.M. 1986. Management of irrigation water qualities for crop production. Final Technical Report PL-480. USDA Grant FG-Pa-266/PK-ARS-76. 115 pp.

Bielorai H., Shalhavet J. and Levy Y. 1978. Grapefruit response to variable salinity in irrigation water and soil. Irrig. Sci. 1: 61-70.

Bingham F.T., Peryea F.J. and Rhoades J.D. 1981. Boron tolerance character of wheat. Proc. Inter-American Salinity and Water Management Technology, 11-12 December 1980, Juarez, Mexico. pp. 208-216.

Bishop A.A., Walker W.R., Alien N.L. and Poole G.J. 1981. Furrow advance rates under surge flow systems. J. irrig. and Drainage Div., ASCE 107 (IR3): 257-264.

Biswas A.K. 1990. Conservation and management of water resources. In: Techniques for Desert Reclamation. A.S. Goudie (ed.). John Wiley, New York. pp. 251-265.

Bos R. 1991. Water quality, disease and human health. Paper presented at the Water Quality Conference, Bratislava.

Boumans J.H., van Hoorn J.W., Kruseman G.P. and Tenwar B.S. 1988. Water table control, reuse and disposal of drainage water in Haryana. Agric. Water Mgmt. 14: 537-545.

Bower C.A., Ogata G. and Tucker J.M. 1969. Rootzone salt profiles and alfalfa growth as influenced by irrigation water quality. Agron. J. 61: 783-785.

Bower C.A., Ogata G. and Tucker J.M. 1970. Growth of Sudan and tall fescue grasses as influenced by irrigation water salinity and leaching fraction. Agron. J. 62: 793-794.

Bresler E. 1987. Application of a conceptual model to irrigation water requirement and salt tolerance of crops. Soil Sci. Soc. Am. J. 51: 788-793.

Bresler E. and Hoffman G.J. 1986. Irrigation management for salinity control: Theories and tests. Soil Sci. Soc. Am. J. 50: 1552-1560.

Bresler E. and Yaron D. 1972. Soil water regime in economic evaluation of salinity in irrigation. Water Resources Research 8: 791-800.

CAST (Council for Agricultural Science Technology). 1988. Effective use of water in irrigated agriculture. Report No. 113, Ames, Iowa.

Cervinka V., Finch C., Beyer J., Menezens F. and Ramirez R. 1987. The agroforestry demonstration program in the San Joaquin Valley. Progress Report. California Dept. of Food and Agriculture, Agricultural Resources Branch, Sacramento, California.

Corwin D.L. and Waggoner B.L. 1990. TETRANS: Solute transport modeling software user's guide (Macintosh Version 1.4). US Salinity Laboratory Report No. 121. pp. 1-50.

Craig J.R. 1980. Saline waters: genesis and relationship to sediments and host rocks. In: Saline Water Proc. Symp. Groundwater Salinity, 46th Annual Meeting. R.B. Mattox (ed.). Amer. Assoc. Adv. Sci (AAAS), Las Vegas, Nevada.

References Page 3 of 13

Dalton F.N. and Poss J.A. 1990. Soil water content and salinity assessment for irrigation scheduling using time-domain reflectometry: principles and applications. Acta Horticulturae. (Submitted).

De-Malach Y., Pasternak D., Twersky M. and Borovic I. 1978. Irrigation of sugarbeet with brackish water. Itasadeh 59: 418-424.

Dinar A. and D. Zilberman (eds.). 1991. The Economics and Management of Water and Drainage in Agriculture. Kluwer Academic Publishers, Norwell, Massachusetts. 946 pp.

Dinar A., Knapp K.C. and Rhoades J.D. 1986. Production functions for cotton with dated irrigation water quantities and qualities. Water Resources Res. 22: 1519-1525.

Doorenbos J. and Kassam A.H. 1979. Yield response to water. Irrigation and Drainage Paper 33. FAO, Rome. 193 pp.

Dutt G.R., Pennington D.A. and Turner F. Jr. 1984. Irrigation as a solution to salinity problems of river basins. In: Salinity in Watercourses and Reservoirs. R.H. French (ed.). Ann Arbor Science, Michigan, pp. 465-472.

Dutt G.R., Schaffer M.J. and Moore W.J. 1972. Computer simulation model of dynamic bio-physicochemical processes in soils. Univ. Arizona Agric. Exp. Stn., Tech. Bull. 196.

Emerson W.W. 1984. Soil Structure in Saline and Sodic Soils. Springer Verlag, New York. pp. 65-76.

Erickson J.R. 1980. Using high salinity waters in the Southwest. Proc. 1980 Speciality Conference on Irrigation and Drainage, Today's Challenges. 23-25 July 1980, Boise, Idaho. ASCE, New York. pp. 198-204.

Fan A.M. and Jackson R.J. 1987. Health assessment of human dietary selenium intake from agricultural crops. A report of the UC Salinity/Drainage Task Force. Div. of Agric. and Natural Resources, Univ. California. 22 pp.

FAO. 1976. Prognosis of salinity and alkalinity. Soils Bulletin 31. Rome.

FAO. 1979. Yield response to water. J. Doorenbos and A.H. Kassam. Irrigation and Drainage Paper 33. Rome. 193 pp.

FAO. 1984. Guidelines for predicting crop water requirements. J. Doorenbos and W.O. Pruitt. Irrigation and Drainage Paper 24. Rome.

FAO. 1985. Water quality for agriculture. R.S. Ayers and D.W. Westcot. Irrigation and Drainage Paper 29, Rev. 1. Rome. 174 pp.

FAO. 1985. Environmental management for vector control in rice fields. T. Mather. Irrigation and Drainage Paper 41. Rome.

FAO. 1988. World Agriculture Toward 2000: An FAO Study. N. Alexandratos (ed.). Bellhaven Press, London. 338 pp.

FAO. 1989. Sustainable development and natural resources. 25th Conference of FAO. Document C89/2. Rome.

References Page 4 of 13

FAO. 1990. An international action programme on water and sustainable agricultural development. A strategy for the implementation of the Mar del Plata Action Plan for the 1990s. Rome. 42 pp.

FAO. 1992. CROPWAT: a computer program for irrigation planning and management. M. Smith. Irrigation and Drainage Paper 46. Rome.

FAO. 1991. CLIMWAT for CROPWAT - a climatic database. AGLW/FAO, Rome.

Fierotti G., LoCascio B. and Lombardo V. 1984. Effects of irrigation with saline waters in soil and crops. In: Trans. 12th Congress on Irrigation and Drainage, ICID, Fort Collins, Colorado, 28 May - 2 June 1984. pp. 199-214.

Fleming G.A. 1962. Selenium in Irish soils and plants. Soil Sci. 94: 28-35.

Frenkel H. and Shainberg I. 1975. Chemical and hydraulic changes in soils irrigated with brackish water under cotton production. Proc. Internal. Symposium on Irrigation with Brackish Water, Beer Sheva, Israel. Negev Press, pp. 175-183.

Goldberg S. and Forster H.S. 1990. Flocculation of reference clays and arid zone soil clays. Soil Sci. Soc. Am. J. 54: 714-718.

Goldberg D. and Gornet B. 1971. Drip irrigation agricultural development. Presented at the Internal. Expert Panel on Irrigation-Drip (Trickle) and Automated Pressure Irrigation. Herzilya-on-Sea, Israel, 6-13 September 1971.

Goldberg S., Forster H.S. and Heick E.L. 1991. Flocculation of illite/kaolinite and illite/montmorillonite mixtures as affected by sodium adsorption ratio and pH. Clays and Clay Minerals 39: 375-380.

Gornet B., Goldberg D., Rimon D. and Ben Asher I. 1971. The physiological effect of water quality and method of application on a number of field crops: II. The effects of sprinkler and trickle irrigation. J. Amer. Soc. Hort. Sci. (Submitted for publication).

Grattan S.R. and Rhoades J.D. 1990. Irrigation with saline groundwater and drainage water. In: Agricultural Salinity Assessment and Management Manual. K.K. Tanji (ed.). ASCE, New York. pp. 432-449.

Grattan S.R., Shennan C., May D.M., Mitchell J.P. and Burau R.G. 1987. Use of drainage water for irrigation of melons and tomatoes. California Agriculture 41: 27-28.

Gupta I.C. 1990. Use of Saline Water in Agriculture. A study of arid and semiarid zones in India. Revised edition. Oxford and IBH Publishing, New Delhi.

Gupta I.C. and Pahwa K.N. 1981. A Century of Soil Salinity Research in India - Annotated Bibliography 1863-1976. Oxford and IBH Publishing, New Delhi. 400 pp.

Hadas A. and Frenkel H. 1982. Infiltration as affected by long-term use of sodic-saline water for irrigation. Soil Sci. Soc. Am. J. 46: 524-530.

Hanks R.J., Neilson R.F., Cartee R.L. and Willardson L.S. 1984. Use of saline waste water from electrical power plants for irrigation. In: Salinity in

References Page 5 of 13

Watercourses and Reservoirs. R.H. French (ed.). pp. 473-492.

Hatcher J.T., Blair G.Y. and Bower C.A. 1959. Response of beans to dissolved and adsorbed boron. Soil Sci. 88: 98-100.

Hoffman G.J. and van Genuchten M.T. 1983. Soil properties and efficient water use: water management for salinity control. In: Limitations to Efficient Water Use in Crop Production. H.M. Taylor *et al.* (eds.). American Society of Agronomy, Madison, Wisconsin, pp. 73-85.

Hoffman G.J., Rhoades J.D., Letey J. and Sheng F. 1990. Salinity management. In: Management of Farm Irrigation Systems. G.J. Hoffman, T.A. Howell and K.H. Solomon (eds.). ASCE, St. Joseph, Michigan, pp. 667-715.

Ingvalson R.D., Rhoades J.D. and Page A.L. 1976. Correlation of alfalfa yield with various indices of salinity. Soil Sci. 122: 145-153.

Jain B.L. 1981. Salt balance studies in saline water irrigated soils. J. Indian Soc. Soil Sci. 29: 160-166.

Jensen M.E., Rangeley W.R. and Dieleman P.J. 1990. Irrigation trends in world agriculture. In: Irrigation of Agricultural Crops. American Society of Agronomy, Madison, Wisconsin, pp. 31-67.

Jurinak J.J. and Suarez D.L. 1990. The chemistry of salt-affected soils and waters. In: Agricultural Salinity Assessment and Management Manual. K.K. Tanji (ed.). ASCE, New York. pp. 42-63.

Jury W.A. 1984. Field scale water and solute transport through unsaturated soils. In: Soil Salinity under Irrigation. I. Shainberg and J. Shalhevet (eds.). Springer Verlag, New York. pp. 115-125.

Jury W.A., Frenkel H., Fluhler H., Devitt D. and Stolzy L.H. 1978. Use of saline irrigation waters and minimal leaching for crop production. Hilgardia 46: 169-192.

Kaddah M.T. and Rhoades J.D. 1976. Salt and water balance in Imperial Valley, California. Soil Sci. Soc. Am. J. 40: 93-100.

Kandiah A. 1990. Environmental impacts of irrigation development with special reference to saline water use. In: Water, Soil and Crop Management Relating to the Use of Saline Water. AGL/MISC/16, FAO, Rome. pp. 152-165.

Keren R. and Miyamoto S. 1990. Reclamation of saline-, sodic- and boron-affected soils. In: Agricultural Salinity Assessment and Management Manual. K.K. Tanji (ed.). ASCE, - - pp. 410-431.

Keren R. and Shainberg I. 1978. Irrigation with sodic and brackish water and its effect on the soil and on cotton fields. Hassade 58: 963-976.

Keren R. and Shainberg I. 1984. Colloidal properties of clay minerals in saline and sodic solution. In: Soil Salinity under Irrigation. I. Shainberg and J. Shalhavet (eds.). Springer Verlag, New York. pp. 32-45.

Kruse E.G., Willardson L. and Ayars J. 1990. On-farm irrigation and drainage practices. In: Agricultural Salinity Assessment and Management Manual. K.K. Tanji (ed.). ASCE, New York. pp. 349-371.

References Page 6 of 13

Lacey L.A. and Lacey C.M. 1990. The medical importance of riceland mosquitoes and their control using alternatives to chemical insecticides. J. Amer. Mosquito Control Assoc. Supplement 2.

Lagerwerff J.V. and Holland J.P. 1960. Growth and mineral content of carrots and beans as related to varying osmotic and ionic-composition effects in saline-sodic sand cultures. Agron. J. 52: 603-608.

Lal R. 1990. Sustainable land and water resources development and management. FAO/Netherlands Conference on Sustainable Agriculture and Rural Development, FAO, Rome.

Lauchli A. and Epstein E. 1990. Plant responses to saline and sodic conditions. In: Agricultural Salinity Assessment and Management Manual. K.K. Tanji (ed.). ASCE, New York. pp. 113-137.

Law J.P., Skogerboe G.V. and Denit J.D. 1972. The need for implementing irrigation return flow control. Proc. Nat. Conf. on Managing Irrigated Agriculture to Improve Water Quality, pp. 1-17.

Letey J. and Dinar A. 1986. Simulated crop-water production functions for several crops when irrigated with saline waters. Hilgardia 54: 1-32.

Letey J., Dinar A. and Knapp K.C. 1985. Crop-water production function model for saline irrigation waters. Soil Sci. Soc. Am. J. 49: 1005-1009.

Letey J., Knapp K. and Solomon K. 1990. Crop production functions. In: Agricultural Salinity Assessment and Management Manual. K.K. Tanji (ed.). ASCE, New York. pp. 305-326.

Letey J., Roberts C., Penberth M. and Vasek C. 1986. An agricultural dilemma: drainage water and toxics disposal in the San Joaquin Valley. Special Publication 3319, University of California, Oakland.

Maas E.V. 1986. Salt tolerance of plants. Applied Agricultural Research 1: 12-26.

Maas E.V. 1990. Crop salt tolerance. In: Agricultural Salinity Assessment and Management Manual. K.K. Tanji (ed.). ASCE, New York. pp. 262-304.

Maas E.V. and Hoffmann G.J. 1977. Crop salt tolerance - current assessment. ASCE J. Irrig. and Drainage Div. 103 (IR2): 115-134.

Maas E.V. and Nieman R.H. 1978. Physiology of plant tolerance to salinity. In: Crop Tolerance to Suboptimal Land Conditions. G.A. Jung (ed.). ASA Special Publication 32: 227-299.

Manchanda H.R. and Chawla K.L. 1981. Salt profile variations and wheat growth under irrigation with highly saline waters on coarse-loamy soils in South Western Haryana. J. Indian Soc. Soil Sci. 29: 504-511.

Mashali A.M. 1985. Amelioration and development of deteriorated soils - Egypt. Technical Report, Project FAO/UNDP EGY/79/020. Cairo, Egypt. 1984-1985.

Mashali A.M. 1989. Salinization as a major process of soil degradation in the Near East. 10th Session of the Regional Commission on Land and Water Use in the Near East, Amman, Jordan. 10-14 December 1989.

References Page 7 of 13

Mather T.H. 1985. Environmental management for vector control in rice fields. Irrigation and Drainage Paper 41. FAO, Rome.

Meiri A. 1984. Plant response to salinity: experimental methodology and application to field. In: Soil Salinity under Irrigation. I. Shainberg and J. Shalhevet (ed.). Springer Verlag, New York. pp. 284-297.

Meiri A., Plant Z. and Pincas L. 1981. Salt tolerance of greenhouse grown muskmelon. Soil Sci. 131: 189-193.

Meiri A., Shalhevet J., Stolzy L.H., Sinai G. and Steinhardt R. 1986. Managing multi-source irrigation water of different salinities for optimum crop production. BARD Technical Report #1.-402-91. Volcani Center, Bet Dagan, Israel. 172 pp.

Mikkelson R.L., Page A.L. and Bingham F.T. 1988. Factors affecting selenium accumulation by agricultural crops. In: Selenium in Agriculture and the Environment. L.W. Jacobs (ed.). Special Publication. American Society of Agronomy, Madison, Wisconsin.

Miles D.L. 1977. Salinity in the Arkansas Valley of Colorado. Interagency Agreement Report EPA-IAG-D4-0544. Environmental Protection Agency, Denver, Colorado. 80 pp.

Minhas P.S., Sharma D.R. and Khosla B.K. 1989. Response to sorghum to the use of saline waters. J. Indian Soc. Soil Sci. 37: 140-146.

Minhas P.S., Sharma D.R. and Khosla B.K. 1990a. Mungbean response to irrigation with waters of different salinities. Irrig. Sci. 11: 57-62.

Minhas P.S., Sharma D.R. and Khosla B.K. 1990b. Effect of alleviation of salinity stress at different growth stages of Indian mustard (*Brassica juncea*). Indian J. Agric. Sci. 60: 343-346.

Miyamoto S., Moore J. and Stichler C. 1984. Overview of saline water irrigation in Far West Texas. In: Water Today and Tomorrow. J.R. Replogle and K.G. Renard (eds.). Proc. Speciality Conf. Irrigation and Drainage Division of ASCE, Flagstaff, Arizona, 24-26 July 1984. ASCE, New York. pp. 222-230.

Moore J. and Hefner J.J. 1977. Irrigation with saline water in the Pecos Valley of West Texas. Proc. Internal. Salinity Conf. Managing Saline Waters for Irrigation. Texas Tech. Univ., Lubbock, Texas, pp. 339-344.

National Research Council. 1989. Irrigation-induced water quality problems: what can be learned from the San Joaquin Valley experience. Nat. Acad. Press, Washington DC.

Nimah M.N. and Hanks R.J. 1973. Model for soil water, plant and atmospheric interrelations. I. Description and sensitivity. Soil Sci. Soc. Amer. Proc. 37: 522-527.

O'Leary J.W. 1984. High productivity from halophytic crops using highly saline irrigation water. In: Water Today and Tomorrow. J.R. Replogle and K.G. Renard (eds.). Proc. Speciality Conf. Irrigation and Drainage Division of ASCE, Flagstaff, Arizona, 24-26 July 1984. ASCE, New York. pp. 213-217.

Oster J.D. and Rhoades J.D. 1975. Calculated drainage water compositions and salt burdens resulting from irrigation with river waters in the Western United

References Page 8 of 13

States, J. Environ, Qual. 4: 73-79.

Oster J.D. and Rhoades J.D. 1977. Various indices for evaluating the effective salinity and sodicity of irrigation waters. Proc. Internal. Salinity Conf. on Managing Saline Water for Irrigation, Texas Tech. Univ., Lubbock, Texas, pp. 1-14.

Oster J.D. and Rhoades J.D. 1990. Steady state root zone salt balance. In: Agricultural Salinity Assessment and Management Manual. K.K. Tanji (ed.). ASCE, New York. pp. 469-481.

Pal B., Singh C. and Singh H. 1984. Barley yield under saline water cultivation. Plant and Soil 81: 221-228.

Pearson G.A. 1960. Tolerance of crops to exchangeable sodium. US Dept. Agric. Info. Bull. 216. 4 pp.

Pearson G.A. and Bernstein L. 1958. Influence of exchangeable sodium on yield and chemical composition of plants. II. Wheat, barley, oats, rice, tall fescue, and tall wheatgrass. Soil Sci. 86: 254-261.

Pitcairn M.J., Washino R.K. and Palchik S. 1987. Factors affecting larval mosquito abundance in northern California rice fields. Proc. 55th Annual Conf. of the Calif. Mosquito and Vector Control Association.

Postel S. 1989. Water for agriculture: facing the limits. Worldwatch Paper 93. Worldwatch Institute, Washington DC.

Prasad R. 1967. Survey of the nitrogen rice saline tank and drain waters in the Unnao district of Uttar Pradesh. J. Indian Soc. Soil Sci. Vol. 97-101.

Pratt P.F. and Suarez D.L. 1990. Irrigation water quality assessments. In: Agricultural Salinity Assessment and Management Manual. K.K. Tanji (ed.). ASCE, New York. pp. 220-236.

Raats P.A.C. 1974. Movement of water and salts under high frequency irrigation. Proc. 2nd. Internal. Drip Irrig. Conf., San Diego, California. 7-14 July. pp. 222-227.

Rady A.H.M. 1990. Water, soil and crop management relating to the use of saline water. In: Proc. Expert Cons. on Water Soil and Crop Management relating to the Use of Saline Water, October 1989. AGL/MISC/16/90. FAO, Rome.

Rains D.W., Goyal S., Weyranch R. and Lauchli A. 1987. Saline drainage water reuse in a cotton rotation system. California Agriculture 41: 24-26.

Rawlins S.L. 1977. Uniform irrigation with a low-head bubbler system. Agric. Water Management 1: 167-178.

Rawlins S.L. and Raats P.A.C. 1975. Prospects for high-frequency irrigation. Science 188: 604-610.

Rhoades J.D. 1972. Quality of water for irrigation. Soil Sci. 113: 277-284.

Rhoades J.D. 1974. Drainage for salinity control. In: Drainage and Agriculture. J. van Schilfgaarde (ed.). Agronomy 17, American Society of Agronomy, pp.

References Page 9 of 13

433-461.

Rhoades J.D. 1977. Potential for using saline agricultural drainage waters for irrigation. Proc. Water Management for Irrigation and Drainage, ASCE, Reno, Nevada, July. 177: 85-116.

Rhoades J.D. 1980. Determining leaching fraction from field measurements of soil electrical conductivity. Agric. Water Mgmt. 3: 205-215.

Rhoades J.D. 1982. Reclamation and management of salt-affected soils after drainage. Proc. First Annual Western Provincial Conf. Rationalization of Water and Soil Resources and Management, Lethbridge, Alberta, Canada. 29 November-2 December 1982. pp. 123-197.

Rhoades J.D. 1984a. Using saline water for irrigation. Proc. Internal Workshop on Salt Affected Soils of Latin America, Maracay, Venezuela, 23-30 October 1983. pp. 22-52. Publ. in Scientific Review on Arid Zone Research, 1984, Vol. 2, pp. 233-264.

Rhoades J.D. 1984b. Reusing saline drainage waters for irrigation: a strategy to reduce salt loading of rivers. In: Salinity in Watercourses and Reservoirs. R.H. French (ed.). Proc. Internal. Symp. State-of-the-Art Control of Salinity. Salt Lake City, Utah, 12-15 July 1983. pp. 455-464.

Rhoades J.D. 1984c. New strategy for using saline waters for irrigation. Proc. ASCE Irrigation and Drainage Specialty Cong., Water Today and Tomorrow, 24-26 July 1984, Flagstaff, Arizona. pp. 231-236.

Rhoades J.D. 1987a. Principles of salinity control on food production in North America. In: Water and Water Policy in World Food Supplies. W.R. Jordan (ed.). Proc. Conf. 26-30 May 1985. Texas A&M Univ. Press, pp. 141-151.

Rhoades J.D. 1987b. Use of saline water for irrigation. Water Quality Bulletin 12: 14-20.

Rhoades J.D. 1988a. Evidence of the potential to use saline water for irrigation. Proc. Symp. Reuse of Low Quality Water for Irrigation. R. Bouchet (ed.). Water Research Centre, Egypt, pp. 133-146.

Rhoades J.D. 1988b. The problem of salt in agriculture. Yearbook of Science and the Future Encyclopaedia Britannica. pp. 118-135.

Rhoades J.D. 1989. Intercepting, isolating and reusing drainage waters for irrigation to conserve water and protect water quality. Agric. Water Mgmt. 16: 37-52.

Rhoades J.D. 1990a. Blending saline and non-saline waters reduces water usable for crop production. In: Proc. 1990 Conf. Irrigation and Drainage. S.C. Harris (ed.). 11-13 July 1990, Durango, Colorado, pp. 442-452.

Rhoades J.D. 1990b. Determining soil salinity from measurements of electrical conductivity. Commun. Soil Sci. Plant Anal. 21: 1887-1926.

Rhoades J.D. 1992. Instrumental field methods of salinity appraisal. In: Advances in Measurement of Soil Physical Properties: bringing theory into practice. G.C. Topp, W.D. Reynolds and R.E. Green (eds). SSSA Special Publ. 30, ASA, CSSA and SSSA, Madison, Wisconsin. (In press).

References Page 10 of 13

Rhoades J.D. and Dinar A. 1991. Reuse of agricultural drainage water to maximize the beneficial use of multiple water supplies for irrigation. In: The Economics and Management of Water and Drainage in Agriculture. A. Dinar and D. Zilberman (eds.). Kluwer Academic Publ. pp. 99-115.

Rhoades J.D. and Loveday. 1990. Salinity in irrigated agriculture. In: Irrigation of Agricultural Crops. B.A. Stewart and D.R. Nielsen (eds.). ASA Monograph, pp. 1089-1142.

Rhoades J.D. and Merrill S.D. 1976. Assessing the suitability of water for irrigation: theoretical and empirical approaches. In: Prognosis of salinity and alkalinity. Soils Bulletin 31. FAO, Rome. pp. 69-109.

Rhoades J.D. and Suarez D.L. 1977. Reducing water quality degradation through minimized leaching management. Agric. Water Mgmt. 1: 127-142.

Rhoades J.D., Corwin D.L. and Hoffman G.J. 1981 Scheduling and controlling irrigations from measurements of soil electrical conductivity. Proc. ASAE Irrigation Scheduling Conf., Chicago, Illinois, 14 December 1981. pp. 106-115.

Rhoades J.D., Rawlins S.L. and Phene C.J. 1980. Irrigation of cotton with saline drainage water. ASCE Cong. and Exposition, Portland, Oregon, April 1980. Preprint 80-119.

Rhoades J.D., Ingvalson R.D., Tucker J.M. and dark M. 1973. Salts in irrigation drainage water. I. Effects of irrigation water composition, leaching fraction, and time of year on the salt compositions of irrigation drainage waters. Soil Sci. Soc. Amer. Proc. 37: 770-774.

Rhoades J.D., Oster J.D., Ingvalson R.D., Tucker J.M. and dark M. 1974. Minimizing the salt burdens of irrigation drainage waters. J. Environ. Qual. 3: 311-316.

Rhoades J.D., Bingham F.T., Letey J., Hoffman G.J., Dedrick A.R., Pinter P.J. and Replogle J.A. 1989a. Use of saline drainage water for irrigation: Imperial Valley study. Agric. Water Mgmt. 16: 25-36.

Rhoades J.D., Bingham F.T., Letey J., Dedrick A.R., Bean M., Hoffman G.J., Alves W.J., Swain R.V., Pacheco P.G. and LeMert R.D. 1989b. Reuse of drainage water for irrigation: results of Imperial Valley study. I. Hypothesis, experimental procedures and cropping results. Hilgardia 56: 1-16.

Rhoades J.D., Bingham F.T., Letey J., Pinter P.J. Jr., Le Mert R.D., Alves W.J., Hoffman G.J., Replogle J.A., Swain R.V. and Pacheco P.G. 1989c. Reuse of drainage water for irrigation: results of Imperial Valley study. II. Soil salinity and water balance. Hilgardia 56: 17-44.

Richards L.A. and Wadleigh C.H. 1952. Soil water and plant growth. In. Soil Physical Conditions and Plant Growth. B.T. Shaw (ed.). Agronomy 2: 73-251.

Rolston D.E., Rains D.W., Biggar J.W. and Lauchli A. 1988 Reuse of saline drain water for irrigation. Paper presented at UCD/INIFAP Conf. Guadalajara, Mexico. Mach 1988.

San Joaquin Valley Drainage Program. 1990. Fish and wildlife resources and agricultural drainage in the San Joaquin Valley, California. San Joaquin Valley Drainage Program, Sacramento, California.

References Page 11 of 13

Savva A.P. *et al.* 1984. Irrigation practices in relation to crop responses, water use and soil salinity (1980-1983). Technical Report No. 6. FAO/UNDP/UAE. FAO, Rome. 45 pp.

Shainberg I. 1984. The effect of electrolyte concentration on the hydraulic properties of sodic soils. In: Soil Salinity under Irrigation. I. Shainberg and J. Shalhevet (eds.). Springer Verlag, New York. pp. 49-64.

Shainberg I. and Letey J. 1984. Response of soils to sodic and saline conditions. Hilgardia 52: 1-57.

Shainberg I. and Singer M.J. 1990. Soil response to saline and sodic conditions. In: Agricultural Salinity Assessment and Management Manual. K.K. Tanji (ed.). ASCE, New York. pp. 91-112.

Shalhevet J. 1984. Management of irrigation with brackish water. In: Soil Salinity under Irrigation. I. Shainberg and J. Shalhevet (eds.). Springer Verlag, New York, pp. 298-318.

Shalhevet J., Reiniger P. and Shimshi D. 1969. Peanut response to uniform and non-uniform soil salinity Agron. J. 61: 384-387.

Shalhevet J. and Yaron B. 1973. Effect of soil and water salinity on tomato quality. Plant and Soil 39: 285-292.

Sinai G., Jury W.A. and Stolzy L.H. 1985. Application of automated flow and salinity control to dilution of saline irrigation water. Irrig. Sci. 6: 179-190.

Sinai G., Jury W.A. and Stolzy L.H. 1989. Methods for automated dilution of saline water sources for irrigation. J. Irrig. Drain. Div. ASCE. (In press).

Slayter R.D. 1969. Physiological significance of internal water relations to crop yield. In: Physiological Aspects of Crop Yields. American Society of Agronomy, Madison, Wisconsin. pp. 53-88.

Snellen W.B. 1988. A malaria epidemic caused by *Anopheles Iudlowi* in Java in 1933. In: Vector-borne Disease Control in Humans through Rice Agroecosystems Management. IRRI/PEEM, Manila.

Solomon K.H. 1985. Water - salinity - production functions. Trans ASAE 28: 1975-1980.

Stewart B. and Nielsen D. (eds.) 1990. Irrigation of Agricultural Crops. Agronomy Monograph No. 30. American Society of Agronomy, Madison, Wisconsin. 1218 pp.

Suarez D.L. 1981. Relationship between pH,; and SAR and an alternative method of estimating SAR of soil or drainage water. Soil Sci. Soc. Am. J. 45: 469-475.

Suarez D.L. 1982. Graphical calculation of ion concentrations in calcium carbonate and/or gypsum soil solutions. J. Environ. Qual. 11: 302-308.

Suarez D.L. 1990. Water quality criteria for irrigation. Proc. Speciality Conf. sponsored by Irrigation and Drainage Division, Water Resource Planning and Management Division, ASCE, University of Delaware, Newark, Delaware, 17-20 July 1989. pp. 57-66.

References Page 12 of 13

Suarez D.L. and van Genuchten M.T. 1981. Leaching and water-type effects on ground-water quality. ASCE Irrig. and Drainage Div. J. 107 (IR1): 35-52.

Suarez D.L., Rhoades J.D., Lavado R. and Grieve C.M. 1984. Effect of pH on saturated hydraulic conductivity and soil dispersion. Soil Sci. Soc. Am. J. 48: 50-55.

Szabolcs I. 1985. Salt affected soils as a world problem. In: Proc. Internat. Symp. Reclamation of Salt-affected Soils I. Jinan, China. 13-21 May 1985.

Tanji K.K. 1977. Irrigation tail water management. Water Science Report No. 4014 (1976-1977 Annual Report). University of California, Davis, June 1977.

Thomas J.R., Salinas F.G. and Oerther G.F. 1981. Use of saline water for supplemental irrigation of sugarcane. Agron J. 73: 1011-1017.

Tripathi B.R. and Pal B. 1979. Seasonal salt accumulation and tolerance of wheat to saline water in the semi-desert tract of Uttar Pradesh. Indian J. Agric. Sci. 49: 206-210.

UN. 1991. World population prospects 1990. Population Studies No. 120. United Nations, New York. 607 pp.

UN. 1990. Global Outlook 2000, An Economic, Social, and Environmental Perspective. United Nations, New York. 340 pp.

Unesco/UNDP. 1970. Research and training on irrigation with saline water. Tech. Report Tun. 5. Unesco, Paris. 256. pp.

UNEP. 1982. Worlds Soil Policy. UN Environment Programme, Nairobi.

UNEP. 1984. General Assessment of Progress in the Implementation of the Plan of Action to Combat Desertification. 1978-84. Mimeo. Governing Council, 12th Session, Nairobi.

US Salinity Laboratory Staff. 1954. In: Diagnosis and Improvement of Saline and Alkali Soil. L.A. Richards (ed.). US Dept. Agric. Handbook No. 60.

van Hoorn J.W. 1971. Quality of irrigation water, limits of use and prediction of long-term effects. In: Salinity Seminar, Baghdad. Irrigation and Drainage Paper 7. FAO, Rome. pp. 117-135.

van Schilfgaarde J. 1976. Water management and salinity. In: Prognosis of salinity and alkalinity. Soils Bulletin No. 31. FAO, Rome.

van Schilfgaarde J. 1979. Environmental and institutional aspects of irrigation agriculture. Trans. ASAE 22: 344-350.

van Schilfgaarde J. 1982. The Wellton-Mohawk Dilemma. Internal. J. Water Supply and Mgmt. 6: 115-127.

van Schilfgaarde J. and Rawlins S.L. 1980. Water resources management in a growing society. In: Efficient Water Use in Crop Production. T.W. Tibbitts and T.T. Kozlowski (eds.). American Society of Agronomy 12: 517-530.

van Schilfgaarde J. and Rhoades J.D. 1984. Coping with salinity. In: Water

References Page 13 of 13

Scarcity, Impacts in Western Agriculture. E.A. Englebert (ed.). University of California Press 6: 157-179.

van Schilfgaarde J., Bernstein L., Rhoades J.D. and Rawlins S.L. 1974. Irrigation management for salt control. J. Irrig. and Drainage Div., ASCE 100 (IR3). Proc. Paper 10822. pp. 321-338.

Van't Leven J.A. and Haddad M.A. 1968. Surface irrigation with saline water on a heavy clay soil in the Medjerda Valley, Tunisia. Institute for Land and Water Management Research, Technical Bulletin No. 54, The Netherlands. J. Agriculture, Wageningen 15: 281-303.

Wadleigh C.H. and Ayers A.D. 1945. Growth and biochemical composition of bean plants as conditioned by soil moisture tension and salt concentration. Plant Physiol. 20: 106-132.

Wagenet R.J. 1984. Salt and water movement in the soil profile. In: Soil Salinity under Irrigation. I. Shainberg and J. Shalhevet (eds). Springer Verlag, New York. pp. 100-114.

Westcot D.W. 1988. Reuse and disposal of higher salinity subsurface drainage water - a review. Agric. Water Mgmt. 14: 483-512.

WHO 1982. Manual on Environmental Management for Mosquito Control. WHO Offset Pub. No. 66, Geneva.

World Bank. 1988. World Development Report. Washington DC.

World Commission on Environment and Development. 1987. Our Common Future. Oxford University Press, Oxford.

Worstell R.V. 1979. Selecting a buried gravity irrigation system. Trans. ASAE 22: 110-114.

Wu L., Burau R.G. and Epstein E. 1987. Study of selenium accumulation and selenium-salinity cotolerance in turf, forage, and salt march species for crop production in deteriorated soils and water quality improvement in the San Joaquin Valley. Technical Progress Report, UC Salinity/Drainage Task Force. Div. Agric. and Natural Resources, University of California.

Yaron D., Bielorai H., Shalhevet J. and Gavish Y. 1972. Estimation procedures for response functions of crops to soil water content and salinity. Water Resources Research 8: 291-300.

Zur B. and Bresler E. 1973. A model for the water and salt economy, in irrigated agriculture. In: Physical Aspects of Soil Water and Salts in Ecosystems. A. Hadas, D. Swartzendruber, P.E. Rijtema, Fuchs M. and B Yaron (eds.). Springer Verlag, New York. pp. 395-407.

