

## LIST OF PUBLICATIONS AND SOFTWARE SINCE 1980

R.J.Oosterbaan

The list contains references to:

- (1) articles in annual reports of the International Institute for Land Reclamation and Improvement, ILRI, Wageningen, The Netherlands
- (2) papers/chapters (often presented at workshops, symposia, and conferences, published in journals or as chapters in books)
- (3) technical mission reports (if not of confidential)
- (4) software

Publications with environmental emphasis are indicated by an asterisk (\*).

See also website: <http://www.waterlog.info>

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### **1. Articles**

(\* R.J.Oosterbaan 1996. Land drainage and soil salinity: some Mexican experiences. In: Annual Report 1996, p. 44 - 52. ILRI, Wageningen, The Netherlands.

On line: <http://www.waterlog.info/pdf/mexican.pdf>

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(\* R.J. Oosterbaan, 1992. Agricultural land drainage: a wider application through caution and restraint. In: Annual Report 1991, p. 9 - 21. ILRI, Wageningen, The Netherlands.

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(\* W. van Immerzeel and R.J. Oosterbaan, 1990. Irrigation and flood/erosion control at high altitudes in the Andes. In: Annual Report 1989, p. 8 - 24. ILRI, Wageningen, The Netherlands.

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(\* R.J. Oosterbaan, and M. Abu-Senna, 1990. Drainage and salinity predictions, Mashtul area, Nile Delta, using Saltmod. Symposium on Land Drainage for Salinity Control, Vol. 3, p. 274 - 286. Cairo, Egypt. Reprinted as "Using saltmod to predict drainage and salinity in the Nile Delta" in Annual Report 1989, p. 63 - 74. ILRI, Wageningen, The Netherlands.

(\* R.J. Oosterbaan, 1989. Effectiveness and environmental impacts of irrigation projects. Paper presented at the 3rd National Irrigation and Drainage Symposium held in Izmir, Turkey, September 1988. 18 pp. Reprinted in: Annual Report 1988, p. 18 - 34. ILRI, Wageningen, The Netherlands. On line: <http://www.waterlog.info/pdf/irreff.pdf>

(\*) R.J. Oosterbaan, L.F. Kortenhorst and L. Spreij, 1987. Development of flood-recession cropping in the molapo's of the Okavango Delta. In: Annual Report 1986, p. 9-29. ILRI, Wageningen, The Netherlands. On line: <http://www.waterlog.info/pdf/molapos.pdf>

(\*)R.J. Oosterbaan, H.A. Gunneweg, and A. Huizing, 1987. Water control for rice cultivation in small valleys of West Africa. In: Annual Report 1986, p 30-49. ILRI, Wageningen, The Netherlands. On line: <http://www.waterlog.info/pdf/smallvalleys.pdf>

(\*) R.J. Oosterbaan, 1986. Effects of irrigation systems on the natural and social environment (in Dutch). Paper presented at the symposium "Ecology and Development Cooperation", Amsterdam, 1985. Published in Vakblad voor Biologen, Vol.66 no.22, p. 29-33.

(\*) R.J. Oosterbaan, 1985. Modern water control systems for agriculture in developing countries: or grief? In: J.F. Mock (ed.), Traditional Irrigation Schemes and Potential for their Improvement. DVWK Bull.9, p. 181-201. P. Parey Verlag, Berlin.

(\*) R.J. Oosterbaan, 1985. Monitoring programs in drainage projects: their importance, objectives, elements and possible results. In: Annual Report 1984, p. 8-11. ILRI, Wageningen, The Netherlands.

(\*) R.J. Oosterbaan, 1983. Modern interferences in traditional water resources in Baluchistan. In: Annual Report 1982, p.23-34. ILRI, Wageningen, The Netherlands. Reprinted in Water International 9 (1984), p.106- 111. Elsevier Sequoia, Amsterdam. Also reprinted in Water Research Journal (1983) 139, p. 53-60. On line: <http://www.waterlog.info/pdf/baluchistan.pdf>

(\*) R.J. Oosterbaan, 1982. Natural and social constraints to polder development in Guinea-Bissau. In: Polders of the World, Vol.I, p. 146-160. ILRI, Wageningen, The Netherlands. On line: <http://www.waterlog.info/pdf/bolanhas.pdf>

(\*) R.J. Oosterbaan, 1980. The study of effects of drainage on agriculture. In: Land Reclamation an Water Management, p. 160 - 170. Publ.27, ILRI, Wageningen, The Netherlands.

## **2. Papers and chapters**

(\* R.J.Oosterbaan 2010. Papers (in Spanish) submitted to the Land Drainage Workshop, Tapachula, Mexico, 11-15 Oct. 2010. To be viewed at: <http://www.waterlog.info/articulos.htm>

(\* R.J.Oosterbaan 2010. Water Harvesting and Agricultural Land Development Options in the NWFR of Pakistan. Paper submitted to the International Policy Workshop “Water Management and Land Rehabilitation, NW Frontier Region, Pakistan”, Islamabad, December 6-8, 2010. *This paper is about spate-irrigation and is published on the web:* <http://www.waterlog.info/pdf/nwfr3.pdf>

(\* R.J.Oosterbaan 1997. Saltmod: a Tool for Interweaving of Irrigation and Drainage for Salinity Control. In: W.B.Snellen (Ed.), Towards Integration of Irrigation and Drainage Management. Proceedings of the Jubilee Symposium at the Occasion of the fortieth Anniversary of ILRI, p. 43-49. ILRI, Wageningen, The Netherlands.  
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D.P.Sharma, K.V.G.K.Rao and R.J.Oosterbaan, 1997. Soil salinity-wheat yield relationship on farmer's fields. Journ. Indian Soc. Soil Sc., Vol 45, No.2, p. 406-409

R.J.Oosterbaan, 1997. The energy balance of groundwater flow applied to subsurface drainage in anisotropic soils by pipes or ditches with entrance resistance. International Institute for Land Reclamation and Improvement (ILRI), Wageningen, The Netherlands.  
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(\* R.J. Oosterbaan, 1994. Agricultural Drainage criteria. In: H.P. Ritzema (Ed.), Drainage Principles and Applications. Publ. 16, 2nd revised edition, p. 635 - 6903. ILRI, Wageningen, The Netherlands. ISBN 90 70754 3 39. On line: <http://www.waterlog.info/pdf/chap17.pdf>

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(\*) K.V.G.K. Rao, D.P. Sharma and R.J. Oosterbaan, 1992. Sub-irrigation by groundwater management with controlled subsurface drainage in semi-arid areas. In: International Conference on Supplementary Irrigation and Drought Management, Vol. III, p. S6-7, 1-9. Valenzano, Bari, Italy.

(\*) K.V.G.K. Rao, G. Ramesh, H.S. Chauhan and R.J. Oosterbaan, 1992. Salt and water balance studies to evaluate remedial measures for waterlogged saline irrigated soils. In: W. Vlotman (ed.), Proceedings 5th International Drainage Workshop, Vol. II, p. 2.67 -2.77. WAPDA/ICID, Lahore, Pakistan.

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S.K. Gupta and R.J. Oosterbaan, 1987. Design of subsurface disposal structures: assessment of storage capacity. In: Irrigation and Drainage Systems, Vol.I, No.3, p. 231-237.

(\*) R.J. Oosterbaan, 1987. Agricultural criteria for subsurface drainage: a systems analysis. In: J.W van Hoorn (Ed.), *Agrohydrology - Recent Developments*, Agricultural Watermanagement Journal, Vol. 14, No. 1-4, p. 79-90. Elsevier, Amsterdam.

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(\*) M. Jurriens and R.J. Oosterbaan, 1986. Irrigation development in the third world: results, problems and remedies. Paper presented at the Joint Dutch-Hungarian Seminar on Flatland and Inland Drainage and Irrigation. Ministry of Transport and Public Works, RIJP, Lelystad, The Netherlands.

H.J. Nijland, S. El Guindy, I.A. Risseeuw and R.J. Oosterbaan, 1986. Crop production and topsoil/surface water salinity in farmer's rice fields, the Nile delta. Paper prepared for the International Conference on Land Drainage, Southampton.

(\*) R.J. Oosterbaan, 1985. Modern water control systems for agriculture in developing countries: relief or grief? In: J.F. Mock (ed.), *Traditional Irrigation Schemes and Potential for their Improvement*. DVWK Bull.9, p. 181-201. P. Parey Verlag, Berlin.

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(\*) R.J. Oosterbaan, 1982. Natural and social constraints to polder development in Guinea-Bissau. In: *Polders of the World*, Vol.I, p. 146-160. ILRI, Wageningen, The Netherlands.

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### **3. Technical mission reports (excluding project progress and planning reports)**

- (\*) R.J. Oosterbaan, 2007. Reclamation of the Nanfen iron mine tailings deposit, Benxi Government, Liaoning province, China. Report of a senior expert consultancy under PUM project 42806, The Hague, The Netherlands.
- (\*) R.J.Oosterbaan, 2004. Improvement of tidal irrigation, drainage and reclamation of salinized lands under date palms in the Abadan Island, Iran. Report of an Abvarzan Co. consultancy assignment, Tehran, Iran. On line: <http://www.waterlog.info/pdf/abadan.pdf>
- (\*) R.J.Oosterbaan, 2001. Drainage and Land Reclamation in the Garmsar Irrigation Project, Iran, Report of an FAO follow-up consultancy assignment. Wageningen, 19 p.  
On line: <http://www.waterlog.info/pdf/garmsar.pdf>
- (\*) R.J.Oosterbaan, 2000. Drainage, Soil Conservation and Land Reclamation in the Garmsar Irrigation Project, Iran, Report of an FAO consultancy assignment. Wageningen, 22 p.
- (\*) R.J.Oosterbaan, 1999. Hydrological and Environmental Impacts of the Irrigation Improvement Projects in Egypt. ILRI, Wageningen, 51 pp. Report of an Egyptian-Dutch Drainage Panel consultancy assignment. On line: <http://www.waterlog.info/pdf/irrimpr.pdf>
- (\*) R.J.Oosterbaan, 1995. Report of a consultancy assignment on water logging and flood control in sugar cane lands to the Sugar Research and Development Corporation, Australia. ILRI, Wageningen. 13 pp.
- (\*) R.J. Oosterbaan, 1991 (June) Report of a consultancy assignment to the Central Soil Salinity Research Institute at Canning Town, India, on reclamation and water management of the salt affected soils in the coastal lowlands of the Sunderbans. 15 pp.
- (\*) R.J. Oosterbaan, 1990 (Aug.) Review of water management aspects, Pulau Petak, South Kalimantan, Indonesia. Mission Report 39, Research on Acid Sulphate Soils in the Humid Tropics (an Indonesian-Dutch research project). ILRI/LAWOO, Wageningen, 29 pp., 3 Appendices. On line: <http://www.waterlog.info/pdf/pulaupetak.pdf>
- R.J. Oosterbaan, 1989. Drainage parameters, criteria and design in Mexican irrigation projects and districts. Technical working paper drafted at the occasion of an FAO/CP-WB mission to Mexico to evaluate the irrigation and drainage sub-sector programme eligible for WB funding. ILRI, Wageningen. 12 pp.
- (\*) D. Sifuentes, E. Sal y Rosas, M. Calle, J. Apaza, J.D. van der Ploeg, R.J. Oosterbaan, 1989. Informe de la mision de evaluacion del Proyecto de Desarrollo Rural en Micro Regiones del Departamento de Cuzco (PRODERM), Peru. 65 pp., 8 appendices.
- R.J. Oosterbaan, 1989 (Feb.). Proposals for drainage research through pilot areas in the fringes of the Nile Delta. Report of a consultancy assignment to the Pilot Areas and Drainage Technology Project of the Drainage Research Institute, Cairo, Egypt. ILRI, Wageningen. 30 pp.

R.J. Oosterbaan, 1988 (Dec.). Subsurface Drainage for Salinity Control in Irrigated Agricultural Lands of (Semi)Arid Regions: A conceptual framework for diagnostic and project oriented research. ILRI, Wageningen. 14 pp.

(\*) R.J. Sevenhuysen, R.J. Oosterbaan and K. Zijderveld, 1987. Report on a consultancy assignment to the Punata Irrigation Project near Cochabamba, Bolivia. ILRI, Wageningen, and KfW, Frankfurt. 71 pp., 5 appendices. On line: <http://www.waterlog.info/pdf/punata.pdf>

(\*) L.F. Kortenhorst, R.J. Oosterbaan and L. Spreij, 1986. The Molapo Development Project, Okavango Delta, Botswana: project evaluation report and proposal for continuation. ILRI, Wageningen, and GTZ, Eschborn. 91 pp, resp. 34 pp., 2 appendices.

(\*) R.J. Oosterbaan, 1985. Report of a consultancy assignment to the Wetlands (small valleys) Utilization Research Project of IITA in Sierra Leone and Nigeria. ILRI, Wageningen. 25 pp.

R.J. Oosterbaan and V. Sorbello-Herrendorf, 1982. Programmed guidelines for the evaluation of drainage techniques in standardized experimental fields. ILRI, Wageningen. 17 pp., 8 appendices.

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(\*) R.J. Oosterbaan and F.P.M. van de Ven, 1982. The Baluchistan Minor Irrigation and Agricultural Development Project. Appraisal Mission Report. ILRI, Wageningen. 12 pp., 3 appendices.

(\*) R.J. Oosterbaan, B.P. Beuming, J. Vos and D.F. Quispel, 1981. Report of a consultancy assignment to the Land Reclamation Project, Guinea-Bissau. ILRI, Wageningen. 16 pp. (in Dutch), 5 appendices (in French).

#### **4. Software**

- CumFreq for (dis)continuous cumulative frequency analysis with confidence intervals:  
<http://www.waterlog.info/cumfreq.htm>
- SegReg for segmented linear regression with breakpoint with 1 or 2 independent variables and confidence intervals: <http://www.waterlog.info/segreg.htm>
- RainOff for simulation of rainfall-runoff relations using the concept of a non-linear reservoir:  
<http://www.waterlog.info/rainoff.htm>
- EnDrain for design of horizontal subsurface drainage systems using the energy balance of groundwater flow <http://www.waterlog.info/endrains.htm>
- WellDrain for design of vertical subsurface drainage systems using deep wells  
<http://www.waterlog.info/welldrain.htm>
- SaltMod: integrated agro-hydro-salinity model: <http://www.waterlog.info/saltmod.htm>  
SaltMod manual: <http://www.waterlog.info/pdf/saltmod.pdf>
- SahysMod spatial SaltMod model using a polygonal network:  
<http://www.waterlog.info/sahysmod.htm>  
SahysMod manual: <http://www.waterlog.info/pdf/sahysmod.pdf>