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Classification by subject.

Some papers have been classified under more the one subject due to overlap

1. Irrigation
2. Subsurface drainage by ditches, drains and wells
3. Soil salinity control, leaching
4. Groundwater and salt balances, hydraulics
5. Crop production, soil salinity, depth of the water table, regression analysis
6. Agro-hydro-soil-salinity models
7. Rainfall-runoff/drainage relations in time, non linear reservoir
8. Land and water management
9. Segmented linear regression
10. Curved regression
11. Probability distribution fitting
12. Free models and software.

1. Irrigation

[Soil Salinity and Water Table Data in Irrigated Farm Lands in the Arid Aral Sea Basin, Uzbekistan, explained with a Salt Leaching Model including the Determination of Actual Evaporation and Capillary Rise](#)

[Irrigation, groundwater, wells, drainage and soil salinity control in the alluvial fan of Garmsar, Iran -assessments with the Sahysmod model](#)

[Methods to evaluate crop salt tolerance from field trials, a critical review of the Salt Farm Texel article](#)

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[Variations of leaching efficiency determined with soil salinity models calibrated in farm lands and related to soil texture](#)

[Saltmod: a Tool for Interweaving of Irrigation and Drainage for Salinity Control.](#)

[Water Harvesting and Agricultural Land Development Options in the NWFR of Pakistan](#)

[Effectiveness and Social/Environmental Impacts of Irrigation Projects: a Critical Review.](#)

[Irrigation and flood/erosion control at high altitudes in the Andes.](#)

[Reclamation of a Coastal Saline Vertisol by Irrigated Rice Cropping, Interpretation of the data with a Salt Leaching Model](#)

[Huarmey drainage project, conceptual phase. Consultancy report to Ground Water International, Lima, Peru](#)

[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.](#)

[SALTMOD Model Validation and Application in Segwa Minor Canal Command Area](#)

[Research on the control of waterlogging and salinization in irrigated agricultural lands: recommendations on waterlogging and salinity control based on pilot area drainage research](#)

[Computer modeling in irrigation and drainage](#)

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[Drainage and Land Reclamation in the Garmsar Irrigation Project, Iran, Report of an FAO follow-up consultancy assignment. Wageningen, 19 p.](#)

[SALTMOD: A Tool for the Interweaving of Irrigation and Drainage for Salinity Control](#)

[Workplan 1997, Report of an ILRI Coordination Mission, Part 1. Indo-Dutch Network Programme for Operational Research on the Control of Waterlogging and Salinization in Irrigated Agricultural Lands](#)

[Conjunctive use of saline and non-saline waters in semi arid regions](#)

[Sub-irrigation by groundwater management with controlled subsurface drainage in semi arid areas](#)

Salt and water balance studies to evaluate remedial measures for waterlogged saline irrigated soils

Research on water management and control in the Sunderbans, India

2. Subsurface drainage by ditches, drains and wells

Free EnDrain software designed to calculate parameters of agricultural subsurface drainage systems using the energy balance of groundwater flow

Determination of the soil's hydraulic conductivity based on measurements of drain discharge and water table level in subsurface drainage systems

RainOff, a rainfall-runoff model applied to a subsurface drainage system by calibration and validation

Simulating subsurface drain discharge and depth of the water table in transient (non-steady) state using the RainOff model

Drainage by wells

Subsurface drainage

Drainage equation

DRAINAGE CRITERIA The development of criteria for agricultural subsurface drainage incorporates the study of drainage systems and their effects on the soil and agriculture with the aim to obtain an optimal design of the system

Agricultural hydrology is the study of water balance components intervening in agricultural water management, especially in irrigation and drainage

Comparing steady and non-steady state subsurface drainage using calculations with relevant models

Comparing drain and well spacings in deep semi-confined aquifers for water table and soil salinity control

Variations of leaching efficiency determined with soil salinity models calibrated in farm lands and related to soil texture

The study of effects of drainage on agriculture

THE ENERGY BALANCE OF GROUNDWATER FLOW APPLIED TO DITCH DRAINAGE IN (AN)ISOTROPIC SOILS

Saltmod: a Tool for Interweaving of Irrigation and Drainage for Salinity Control.

Huarmey drainage project, conceptual phase. Consultancy report to Ground Water International, Lima, Peru

Computer modeling in irrigation and drainage

Integrated pilot area research course, CSSRI, Karnal, 25 June – 14 July 2001 - Mission Report.

Drainage research in farmers' fields: analysis of data

SALTMOD; description of principles, user manual, and examples of application, Version 1.1

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Report on the Drainage Research Course. Training Course on Drainage Research: Principles and Applications, CSSRI, Karnal, 3 -21 February 1997. March 1997

Indo-Dutch Network Programme, All-India Training Course on Subsurface Drainage for Groundwater and Salinity Control

The energy balance of groundwater flow applied to subsurface drainage in anisotropic soils by pipes or ditches with entrance resistance

Land drainage and soil salinity: some Mexican experiences

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[Using SALTMOD to predict drainage and salinity in the Nile Delta](#)

[Agricultural criteria for subsurface drainage: A systems analysis](#)

[SUBSURFACE LAND DRAINAGE BY TUBE WELLS WELL SPACING EQUATIONS FOR FULLY AND PARTIALLY PENETRATING WELLS IN UNIFORM OR LAYERED AQUIFERS WITH OR WITHOUT ANISOTROPY AND ENTRANCE RESISTANCE](#)

[Tubewell-Spacing Formulas for Subsurface Drainage](#)

[Agricultural Land Drainage: a wider application through caution and restraint](#)

[Indo-Dutch Network Programme for Operational Research on the Control of Waterlogging and Salinization in Irrigated Agricultural Lands. Report of a Coordination Mission. May 1997](#)

[Agricultural Drainage criteria.](#)

3. Soil salinity control

[Soil salinity](#)

[Irrigation, groundwater, wells, drainage and soil salinity control in the alluvial fan of Garmsar, Iran -assessments with the Sahysmod model](#)

[Agro-hydro-soil-salinity characteristics of the irrigated Garmsar alluvial fan, Iran, described with the SahysMod model](#)

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[Reclamation of a Coastal Saline Vertisol by Irrigated Rice Cropping, Interpretation of the data with a Salt Leaching Model](#)

[Salt and water balance studies using SALTMOD for Tungabhadra command, peninsular India](#)

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[Using SALTMOD to predict drainage and salinity in the Nile Delta](#)

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4. Groundwater and salt balances, hydraulics

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[The groundwater hydraulics of the Garmsar alluvial fan, Iran, assessed with the SahysMod model](#)

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[Hydraulic equivalent of the law of Joule in electricity for steady state groundwater flow to drains and](#)

energy supply by percolating water

Methods to evaluate crop salt tolerance from field trials, a critical review of the Salt Farm Texel article

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Saltmod: a Tool for Interweaving of Irrigation and Drainage for Salinity Control.

The Energy Balance of Groundwater Flow

Determining the saturated hydraulic conductivity

Salt and water balance studies to evaluate remedial measures for waterlogged saline irrigated soils

5. Crop production, soil salinity, depth of the water table, regression analysis

Methods to evaluate crop salt tolerance from field trials, a critical review of the Salt Farm Texel article entitled: “An improved methodology to evaluate crop salt tolerance from field trials”, which gives no improvement at all, to the contrary.

Free software for the determination of positive and inverted S-curves for the response function of influential treatments or conditions with examples of crop yield versus soil salinity and depth of the water table

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CROP PRODUCTION AND SOIL SALINITY: EVALUATION OF FIELD DATA FROM INDIA BY SEGMENTED LINEAR REGRESSION WITH BREAKPOINT

CROP TOLERANCE TO SOIL SALINITY, STATISTICAL ANALYSIS OF DATA MEASURED IN FARM LANDS

Soil Salinity - Wheat Yield Relationship on Farmers' Fields

6. Agro-hydro-soil-salinity models

A new version of the agro-hydro-soil-salinity model SaltMod allowing for annually varied seasonal inputs of hydrological conditions

Soil Salinity and Water Table Data in Irrigated Farm Lands in the Arid Aral Sea Basin, Uzbekistan, explained with a Salt Leaching Model including the Determination of Actual Evaporation and Capillary Rise

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Mapping facilities of the spatial agro-hydro-soil-salinity model SahysMod

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Salt and water balance studies using SALTMOD for Tungabhadra command, peninsular India

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SALTMOD; description of principles, user manual, and examples of application, Version 1.1

Regional agro-hydro-salinity model

Using SALTMOD to predict drainage and salinity in the Nile Delta

7. Rainfall-runoff/drainage relations in time, non linear reservoir

RainOff, a rainfall-runoff model applied to a subsurface drainage system by calibration and validation

Rainfall and runoff data of the "Herbornseelbach" catchment (watershed), Hesse, Germany, evaluated with the RainOff model by calibration and validation of catchment parameters

Rainfall and runoff data of the "Martinsthal" catchment, Hesse, Germany, evaluated with the RainOff model by calibration and validation of catchment parameters

Simulating subsurface drain discharge and depth of the water table in transient (non-steady) state using the RainOff model

Comparing steady and non-steady state subsurface drainage using calculations with relevant models

Comparing steady and non-steady state subsurface drainage using calculations with relevant models

RAINFALL-RUNOFF RELATIONS OF A SMALL VALLEY ASSESSED WITH A NON-LINEAR RESERVOIR MODEL

8. Land and water management

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[Water control for rice cultivation in small valleys of West Africa.](#)

[Development of flood-recession cropping in the molapos of the Okavango Delta, Botswana.](#)

[Agricultural Land Drainage: a wider application through caution and restraint](#)

[Indo-Dutch Network Programme for Operational Research on the Control of Waterlogging and Salinization in Irrigated Agricultural Lands. Report of a Coordination Mission. May 1997](#)

[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.](#)

[Modern Interferences in Traditional Water Resources in Baluchistan](#)

[REVIEW OF WATER MANAGEMENT ASPECTS PULAU PETAK, SOUTH KALIMANTAN, INDONESIA Mission Report 39 Research Project on Acid Sulphate \(Sulfate\) Soils in the Humid Tropics](#)

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9. Segmented linear regression

[Methods to evaluate crop salt tolerance from field trials, a critical review of the Salt Farm Texel article entitled: “An improved methodology to evaluate crop salt tolerance from field trials”, which gives no improvement at all, to the contrary.](#)

[Statistical significance of segmented linear regression with break-point using variance analysis and F-tests](#)

[Software calculator with graphics for the confidence intervals of R squared \(coefficient of determination, explanation, correlation\)](#)

[F-test calculator, free two-way calculator with graphics for Fisher’s F-test used in the statistical analysis of explained and unexplained variance.](#)

[t-Tester, free two-way calculator for Student's t-test with graphics](#)

[The potato variety "927" tested at the Salt Farm Texel, The Netherlands, proved to be highly salt tolerant](#)

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[Crop production and soil salinity: Evaluation of field data from India by segmented linear regression with breakpoint](#)

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10. Curved regression

[Analysis of different curved regressions using free software and selection of the appropriate type based on statistical tests for goodness of fit and analysis of variance](#)

[Comparing the regressions of Y-X data by means of the amplified power function using Solver in Excel and SegRegA](#)

[Questionable mirrored S-curves used in literature on crop yield relations with soil salinity to determine salt tolerance of crops](#)

[Software calculator with graphics for the confidence intervals of R squared \(coefficient of determination, explanation, correlation\)](#)

[Polynomial regressions with 3 or 4 terms having variable exponents solved with the SegRegA software](#)

[Testing the statistical significance of the improvement of cubic regression compared to quadratic regression using analysis of variance \(ANOVA\)](#)

[Free software for the determination of positive and inverted S-curves for the response function of influential treatments or conditions with examples of crop yield versus soil salinity and depth of the water table](#)

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[Crop yield and depth of water table, statistical analysis of data measured in farm lands](#)

11. Probability distribution fitting

[Left \(negatively\) skewed frequency histograms can be fitted to square Normal or mirrored Gumbel probability functions](#)

[NormDis, free two-way calculator for the normal probability distribution and the Z-test with graphics.](#)

[Example of an approximately normally distributed data set to which a large number of different probability distributions can be fitted](#)

[Discontinuities in time series and probability distributions of temperature in the Netherlands as a result of global warming; analyses with SegReg and CumFreq models](#)

Trend of annual averages of daily average temperatures in the Netherlands since 1900 first showing slow and then fast increases

FITTING THE VERSATILE LINEARIZED, COMPOSITE, AND GENERALIZED LOGISTIC PROBABILITY DISTRIBUTION TO A DATA SET

SOFTWARE FOR GENERALIZED AND COMPOSITE PROBABILITY DISTRIBUTIONS

Frequency and regression analysis

12. Free models and software

Models and software offered in website waterlog.info for agricultural land, soil, and water management

Mapping facilities of the spatial agro-hydro-soil-salinity model SahysMod

Saltmod: a Tool for Interweaving of Irrigation and Drainage for Salinity Control.

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