

目次

□试验研究□

- Philip 入渗模型参数的非线性预报模型 郭 华 樊贵盛(1)
- 东北寒地不同土质对玉米生长发育和耗水量的影响研究 李 欢 王忠波 李蔚新 等(5)
- 水分调控对于旱山地苹果树生长发育和结实的影响 徐 巧 王延平 韩明玉 等(9)
- 塔里木灌区膜下滴灌棉田土壤水分动态与耗水特性 吴 程 胡顺军 赵成义(14)
- 水分胁迫对赤霞珠葡萄光合特性的影响 胡宏远 王振平(18)
- 水稻水肥耦合效应研究 张 超 林彦宇 聂堂哲(23)
- 内蒙古河套灌区不同灌溉模式对土壤温度及盐分的影响 孙贯芳 屈忠义 杜 斌 等(28)
- 流道结构对非旋转折射式喷头水力性能影响的试验研究 杨 雯 朱德兰(32)
- 滴灌条件下鲜食葡萄红地球合理灌水量研究 杜宇旭 施 明 纪立东 等(35)
- 膜下滴灌灌水频率对高寒地区温室黄瓜生长效应研究 刘淑艳 于振良 马占岳(40)
- 滴灌肥不同施用量对设施灵武长枣生长、产量和品质的影响 朱 钰 芮长春 王 锐 等(43)
- 添加剂对回收废弃 PE 材质滴灌带再生材料力学性能的影响 郭 斌 吴守军 朱德兰(47)
- 陇中半干旱地区地膜覆盖和补灌对玉米及土壤温湿度的影响 张开乾 郑立龙(51)

□水环境与水资源□

- 沙管深度对盐碱土壤孔灌土壤水盐运移的影响 刘思琦 程东娟 费良军(55)
- 基于多目标模糊优化模型的兰州市水资源优化配置研究 张 芮 乔延丽 禄芳霞 等(59)
- 长期膜下滴灌棉田土壤水盐分布变化及其对棉花生长影响 于晓瑞 虎胆·吐马尔白 杨鹏年 等(63)
- 平原水库周边天然生态林地水盐动态变化特征分析 肖 让 姚宝林 叶含春 等(67)
- 长岭县地下水流场时空变化特征与驱动力分析 肖 霄 闫佰忠 肖长来 等(70)
- 利益相关者视角下农村水资源管理模式实证分析 赵文杰 唐丽霞 刘鑫森 等(75)

□工程管理□

- 雷州青年运河灌区农业节水补偿实践研究 李 铁 王海丽 黄明高 等(79)
- 轻小型喷灌机组评价指标及评价方法现状 包振琪 朱宝文 徐雨竹 等(84)
- 贵州大型灌区续建配套与节水改造综合效益指标体系构建研究 雷 薇 张 超 王永涛 等(88)
- 河西绿洲林果业灌溉制度研究 王文娟 王以兵 丁 林(92)
- 西北干旱区农业高效节水区域效益评价指标体系研究 朱美玲 刘 军(95)
- 长江流域高效节水灌溉的现状、制约因素与对策建议 张小林 姚付启(101)

□信 息□

- 喷灌喷泉百家合作专业市场 (50)

Water Saving Irrigation (Monthly)

February 2016

No.2(2016), Total No.246

Contents

A Nonlinear Prediction Model for Philip Infiltration Parameters	GUO Hua, FAN Gui-sheng(1)
Effects of Different Soil Property on Corn Growth and Water Consumption of Maize in Cold Area of Northeast	LI Huan, WANG Zhong-bo, LI Wei-xin, et al.(5)
Effect of Moisture Regulation on Growth and Development of Apple Trees at Arid Hilly Region	XU Qiao, WANG Yan-ping, HAN Ming-yu, et al.(9)
Dynamic Change of Soil Moisture and Water Consumption of Cotton Under Drip Irrigation Patterns in Tarim Irrigation Area	WU Cheng, HU Shun-jun, ZHAO Cheng-yi(14)
The Effects of Water Stress on Photosynthetic Characteristics of Cabernet Sauvignon	HU Hong-yuan, WANG Zhen-ping(18)
Application of BP Neural Network in Coupling Effect of Water and Fertilizer on Rice Based on Saturated Design and RAGA	ZHANG Chao, LIN Yan-yu, NIE Tang-zhe(23)
Effects of Different Irrigation Modes on Soil Temperature and Salinity in Hetao Irrigation District of Inner Mongolia	SUN Guan-fang, QU Zhong-yi, DU Bin, et al.(28)
An Experimental Study on Influence of Flow Channel Structure on Hydraulic Performance of Fixed Spray Plate Sprinkler	YANG Wen, ZHU De-lan(32)
A Study on Reasonable Drip Irrigation Amount of Red Globe Grape	DU Yu-xu, SHI Ming, JI Li-dong, et al.(35)
Effects of Drip Irrigation under Mulch Frequency on the Growth of Cucumber in Alpine Area Greenhouse	LIU Shu-yan, YU Zhen-liang, MA Zhan-yue(40)
The Effect of Different Dosages of Drip Irrigation Fertilizer on Growth, Yield and Quality of Facility Lingwu Long Jujube	ZHU Yu, RUI Chang-chun, WANG Rui, et al.(43)
Effect of Additives on the Mechanical Properties of Recycling Material of Waste PE Drip Tape	GUO Bin, WU Shou-jun, ZHU De-lan(47)
Effect of Plastic Film Mulching and Supplementary Irrigation on Water Use Efficiency and Soil Moisture Temperature Dynamic of Corn in Semi-arid Area	ZHANG Kai-qian, ZHENG Li-long(51)
Effects of Sand Pipe Depth in Film-hole Irrigation on Water and Salt Transport Characteristics	LIU Si-qi, CHENG Dong-juan, FEI Liang-jun(55)
Optimal Allocation of Lanzhou Water Resource Based on a Multi-objective Fuzzy Optimization Model	ZHANG Rui, QIAO Yan-li, LU Fang-xia, et al.(59)
A Study on the Changes of Distribution of Soil Moisture and Salinity and its Impact on the Growth of Cotton in Long-term drip Irrigation Cotton Field	YU Xiao-rui, Hudan • Tumarbay, YANG Peng-nian, et al.(63)
The Analysis of Water and Salt Dynamic Characteristics of Natural Ecological Forest Land around Plain Reservoir	XIAO Rang, YAO Bao-lin, YE Han-chun, et al.(67)
Evaluation of Spatial-temporal Characteristics and Driving Forces of Groundwater flow Field in Changling County	XIAO Xiao, YAN Bai-zhong, XIAO Chang-lai, et al.(70)
Empirical Analysis on Rural Water Resource Management Mode in Perspective of Stakeholders	ZHAO Wen-jie, TANG Li-xia, LIU Xin-miao, et al.(75)
Agricultural Water Saving Compensation Practice in Leizhou Youth Canal Irrigation District	LI Tie, WANG Hai-li, HUANG Ming-gao, et al.(79)
Current Situation of Evaluation Indicator and Evaluation Methodology for Small-scale Sprinkler Irrigation Machine	BAO Zhen-qi, ZHU Bao-wen, XU Yu-zhu, et al.(84)
Establishment of Comprehensive Benefit Evaluation System of Engineering Corollary and Water-saving Reconstruction of Large Irrigation Districts in Guizhou	LEI Wei, ZHANG Chao, WANG Yong-tao, et al.(88)
Studies on Irrigation Technology of the Horticulture in Arid Zone	WANG Wen-juan, WANG Yi-bing, DING Lin(92)

Competent Authorities : Ministry of Water Resources

Sponsor : Chinese National Committee on Irrigation and Drainage

China Irrigation and Drainage Development Centre

Wuhan University

National Center of Efficient Irrigation Engineering and Technology Research -Beijing

Publisher and editor : Editorial Department of Water Saving Irrigation

(Wuhan University, Wuhan, 430072, China)

Editor in Chief : Li Yuanhua

Distribute Scope : Worldwide

Domestic Subscription : Every Post Office in China

E-mail : jieshuiguanga@188.com

Homepage : [http:// www.irrigate.com.cn](http://www.irrigate.com.cn)