

渭北旱原农业资源高效利用模式和技术措施

High-Efficient Use of Natural Resources and the Sustainable Development of Agriculture in Semiarid Areas of Shaanxi Province

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作者	单位
徐福利	陕西省旱地农业研究所
王渭玲	陕西省旱地农业研究所
李立科	陕西省旱地农业研究所
严菊芳	陕西省旱地农业研究所

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中文摘要:

针对渭北旱原地域辽阔,土地资源丰富,光热资源充足,但降水有限,且年季分布不均,旱灾发生频繁,生态环境脆弱,土壤瘠薄,资源利用率低,土地生产力低等客观条件,陕西省农科院在合阳甘井建立旱地农业研究试验站,长期进行了渭北旱原资源高效利用模式和旱地农业可持续发展攻关研究,先后构建了多种资源高效开发利用模式和与此相适应的技术体系。实践证明,该项目研究成果对消除这一地区贫困,保证粮食供给,减少和控制环境污染,提高土地生产力,优化农田生态,合理利用自然资源等有重要作用。

英文摘要:

Analysis the nature resources superiority and inferior of soil, light, heat and weather of Weibei dry plateau land. The light and heat is abundant. The rainfall is short and unevenly distributed. The dry disaster happens often, and soil fertility is distorted. Natural resources use efficiency and land production level are low. From the long time study the high-efficiency use of natural resources model and sustainable agricultural development technology and method were studied. The result showed that the potential natural resources were exploited in Weibei dry plateau. The model of high-efficiency use of natural resources and main method of sustainable agricultural development were developed. This model can help to supply enough food, rise soil fertility, control soil and water erosion and environmental pollution, develop farmers economy, and reasonable use nature resources.

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主办单位: 中国农业工程学会 单位地址: 北京朝阳区麦子店街41号

服务热线: 010-65929451 传真: 010-65929451 邮编: 100026 Email: tcsae@tcsae.org

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