

小窗砖拱鸡舍的设计研究

Hen House of Brick Arch Structure With Small Windows

投稿时间: 2001-7-16

稿件编号: 20020221

中文关键词: 砖拱鸡舍;设计;环境因子;黄土高原山区

英文关键词: hen house of the brick arch structure; design; environment factors; mountainous area of the Loess Plateau

基金项目: 山西省扶贫局资助项目

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中文摘要:

针对我国黄土高原山区海拔高、冬季低温持续时间长、经济基础薄弱的特点,为了满足蛋鸡生产的要求,设计建造了小窗砖拱鸡舍,分析并测试了鸡舍的主要环境因子参数。结果表明,该鸡舍冬季无需人工供暖,采用自然通风,全年舍内月平均温度为10.2℃~26.5℃,相对湿度为53.9%~62.5%,CO₂浓度在0.15%以下,造价比同期砖木结构和水泥屋顶结构的鸡舍分别低29.4%和35.5%。蛋鸡生产率显著提高。适用于黄土高原地区发展养鸡业,有推广前景

英文摘要:

According to the characteristics of the high altitude, the long period of low temperature in winter and the poor economic base in the Loess Plateau mountainous areas, the hen house of the brick arch structure with small windows was designed and built. The parameters of the primary environmental factors in the hen house were analysed and measured. The results showed that adopting the natural ventilation system but not artificial heating installation, the average month temperature in a year was within 10.2 °C~26.5 °C, the relative humidity was within 53.9%~62.5% and the CO₂ concentration was below 0.15% in the hen house. Moreover, the cost of building the hen house of the brick arch structure was 29.4% lower than that of the brick log structure and 35.5% lower than that of the concrete roof structure. The production performance of layers in the hen house was improved. So the hen house was suitable in the Loess Plateau areas to develop the poultry industry.

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