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[1] 顾鑫. 气象因素对三江平原大豆菌核病的影响及预测模型的创建[J]. 大豆科学, 2013, 32(05): 680-682. [doi:10.11861/j.issn.1000-9841.2013.05.0680]  
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## 气象因素对三江平原大豆菌核病的影响及预测模型的创建

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Title: Effects of Meteorological Factors on Soybean Sclerotinia sclerotiorum in Sanjiang Plain and Related Prediction Model Establishment

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关键词: 大豆菌核病 (KeySearch.aspx?type=Keyword&Sel=大豆菌核病); 气象因子 (KeySearch.aspx?type=Keyword&Sel=气象因子); 通径分析 (KeySearch.aspx?type=Keyword&Sel=通径分析); 回归方程 (KeySearch.aspx?type=Keyword&Sel=回归方程)

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摘要: ?为了准确及时地预测大豆菌核病的发生发展, 于2004~2012年在三江平原定点、定期调查大豆田大豆菌核病的发生情况, 并采用逐步回归分析和通径分析研究了大豆开花期6个气象因子及田间子囊盘个数与大豆菌核病发病率的关系, 同时还建立了大豆菌核病的逐步回归预测模型。结果表明: 大豆开花期间7月降雨量、7月平均气温以及7月田间子囊盘个数3个因子对大豆菌核病的发病率影响最为关键, 预测模型可以提前20 d左右对大豆菌核病的发生进行中期预测, 2012年预测发病率与实际发病率基本相符。

Abstract: ?In order to predict the development of soybean Sclerotinia sclerotiorum accurately and timely, the occurrence of sclerotia at fixed point in Sanjiang Plain from 2004 to 2012 was surveyed, and the relations between the incidence of sclerotia stem rot and 6 meteorological factors at soybean flowering as well as the apothecium number was studied by stepwise regression and path analysis. And the stepwise regression prediction model of soybean sclerotia stem rot was established. Results showed the precipitation, average temperature and apothecium number in July had vital impact on the incidence of soybean sclerotia. The prediction model could forecast the occurrence of sclerotia for about 20 days in advance, and the forecasting incidence was basically consistent with the actual results in 2012.

### 相似文献/References:

- [1] 宗春美, 邵广忠, 齐玉鑫, 等. 大豆杂交期间气象因子对杂交成活率影响的通径分析[J]. (DArticle.aspx?type=view&id=201204035) 大豆科学, 2012, 31(04): 685. [doi:10.3969/j.issn.1000-9841.2012.04.035]  
ZONG Chun-mei, SHAO Guang-zhong, QI Yu-xin, et al. Effect of Meteorological Factors on Hybrid Survival Rate during Soybean Hybridizing[J]. Soybean Science, 2012, 31(05): 685. [doi:10.3969/j.issn.1000-9841.2012.04.035]
- [2] 顾鑫. 不同施肥条件下大豆菌核病病情指数与影响因素的通径分析[J]. (DArticle.aspx?type=view&id=201404030) 大豆科学, 2014, 33(04): 607. [doi:10.11861/j.issn.1000-9841.2014.04.0607]  
GU Xin. Path Analysis of the Sclerotinia Sclerotiorum Index of Soybean with Influencing Factors under Different Fertilization Conditions[J]. Soybean Science, 2014, 33(05): 607. [doi:10.11861/j.issn.1000-9841.2014.04.0607]
- [3] 张毅麟, 滕卫丽, 李文滨. 国内外大豆菌核病鉴定方法研究现状[J]. (DArticle.aspx?type=view&id=201001037) 大豆科学, 2010, 29(01): 161. [doi:10.11861/j.issn.1000-9841.2010.01.0161]  
ZHANG Yi-rui, TENG Wei-li, LI Wen-bin. Comparison on the Methods of Evaluating Soybean Sclerotinia sclerotiorum in China and Foreign Countries[J]. Soybean Science, 2010, 29(05): 161. [doi:10.11861/j.issn.1000-9841.2010.01.0161]
- [4] 丁俊杰. 影响大豆灰斑病主要气象因子的通径分析[J]. (DArticle.aspx?type=view&id=201004041) 大豆科学, 2010, 29(04): 727. [doi:10.11861/j.issn.1000-9841.2010.04.0727]  
DING Jun-jie. Path Analysis on Main Meteorological Factors Affecting Soybean Frogeye Leaf Spot[J]. Soybean Science, 2010, 29(05): 727. [doi:10.11861/j.issn.1000-9841.2010.04.0727]
- [5] 姜翠兰, 胡国华, 丁俊杰, 等. 气象因子对黑龙江省大豆灰斑病发生的影响[J]. (DArticle.aspx?type=view&id=200902022) 大豆科学, 2009, 28(02): 276. [doi:10.11861/j.issn.1000-9841.2009.02.0276]  
JIANG Cui-lan, HU Guo-hua, DING Jun-jie, et al. Effect of Meteorological Factors on Frogeye Leafspot of Soybean in Heilongjiang Province[J]. Soybean Science, 2009, 28(05): 276. [doi:10.11861/j.issn.1000-9841.2009.02.0276]
- [6] 董志敏, 王曙明, 刘玉芝, 等. 大豆抗菌核病研究进展[J]. (DArticle.aspx?type=view&id=200806032) 大豆科学, 2008, 27(06): 1053. [doi:10.11861/j.issn.1000-9841.2008.06.1053]  
DONG Zhi-min, WANG Shu-ming, LIU Yu-zhi, et al. Progress on Resistance to Sclerotinia Sclerotiorum in Soybean

- [J]. Soybean Science, 2008, 27 (05):1053. [doi:10.11861/j.issn.1000-9841.2008.06.1053]
- [7] 孙明明, 韩英鹏, 陈浩, 等. 大豆菌核病鉴定方法比较及分析[J]. (darticle.aspx?type=view&id=200705018) 大豆科学, 2007, 26 (05):728. [doi:10.3969/j.issn.1000-9841.2007.05.018]
- SUN Ming-ming, HAN Ying-peng, CHEN Hao, et al. COMPARISONS AND ANALYSES ON THE METHODS OF EVALUATING TOLERANCE TO SOYBEAN WHITE MOULD[J]. Soybean Science, 2007, 26 (05):728. [doi:10.3969/j.issn.1000-9841.2007.05.018]
- [8] 李易初, 张俊华. 大豆菌核病菌不同菌株系群的遗传差异性研究[J]. (darticle.aspx?type=view&id=201405017) 大豆科学, 2014, 33 (05):718. [doi:10.11861/j.issn.1000-9841.2014.05.0718]
- LI Yi-chu, ZHANG Jun-hua. Genetic Diversity of Sclerotinia Sclerotiorum in Soybean in Different Mycelia Compatibility Groups[J]. Soybean Science, 2014, 33 (05):718. [doi:10.11861/j.issn.1000-9841.2014.05.0718]
- [9] 董利东, 王金生, 吴俊江, 等. 野生大豆种质资源对大豆菌核病抗性评价[J]. (darticle.aspx?type=view&id=201406021) 大豆科学, 2014, 33 (06):900. [doi:10.11861/j.issn.1000-9841.2014.06.0900]
- DONG Li-dong, WANG Jin-sheng, WU Jun-jiang, et al. Identification the Resistance of Wild Soybean Germplasm to Sclerotinia sclerotiorum[J]. Soybean Science, 2014, 33 (06):900. [doi:10.11861/j.issn.1000-9841.2014.06.0900]
- [10] 时新瑞, 赵云彤, 王克勤. 吸虫塔监测中有翅蚜迁飞数量动态及其与气象因子的关系[J]. (darticle.aspx?type=view&id=201406032) 大豆科学, 2014, 33 (06):949. [doi:10.11861/j.issn.1000-9841.2014.06.0950]
- SHI Xin-rui, ZHAO Yun-tong, WANG Ke-qin. Migration Quantitative Dynamic of Winged Aphids in the Suction Trap Monitor and Its Relationship with Meteorological Factors[J]. Soybean Science, 2014, 33 (06):949. [doi:10.11861/j.issn.1000-9841.2014.06.0950]
- [11] 丁俊杰. 通径分析在大豆菌核病流行中的应用[J]. (darticle.aspx?type=view&id=201202036) 大豆科学, 2012, 31 (02):327. [doi:10.3969/j.issn.1000-9841.2012.02.036]
- DING Jun-jie. Application of Path Analysis in Soybean Sclerotinia Sclerotiorum Prevalence[J]. Soybean Science, 2012, 31 (02):327. [doi:10.3969/j.issn.1000-9841.2012.02.036]

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