

resources, thereby ensuring the safety of maize in these growing areas. In the future, selection of assessment indices and establishment of a comprehensive assessment system still needs further in-depth exploration.

CONFLICT OF INTEREST

The authors confirm that this article content has no conflict of interest.

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REFERENCES

- [1] Deng B. Statistical analysis of test data. Tsinghua University Press, Beijing, 1994.
- [2] Huo ZG, Li SK, Wang SY. Study on the risk evaluation technologies of main agrometeorological disasters and their application. *J Nat Resour* 2003; 18: 692-703.
- [3] Li SK, Huo ZG, Wang SY. Risk evaluation system and models of agrometeorological disasters. *J Nat Disaster* 2004; 13: 77-87.
- [4] Li YJ, Wang CY. An integrated maize chilling damage forecast model based on the multi-prediction model. *J Catastrophol* 2006; 21: 1-7.
- [5] Li YJ, Wang CY. Research on comprehensive index of chilling damage to corn in Northeast China. *J Nat Disaster* 2007; 16: 15-20.
- [6] Li YJ, Wang YH, Zhang XF, Wang CY. Research on chilling damage of maize in northeast China. *J Nat Disaster* 2011; 20: 74-80.
- [7] Liu XZ, He WL, Li YL, Bai QF, Liang T, Zhang T. A Study on the risk index design of agricultural insurance on apple florescence freezing injury in shaanxi fruit zone. *Chin J Agrometeorol* 2010; 31: 125-129.
- [8] Ma SH, Liu YY, Wang Q. Dynamic prediction and evaluation method of maize chilling damage. *Chin J Appl Ecol* 2006; 17: 1905-1910.
- [9] Wang CY. Studies on cold damage to crops in Northeast China. China Meteorological Press, Beijing, 2008.
- [10] Wang RC, Huang JF. Rice yield estimation using remote sensing. China Agriculture Press, Beijing, 2009.
- [11] Wang SL. Review of the progress in methods of agrometeorological disaster prediction in China. *J Appl Meteorol Sci* 2003; 14: 574-582.
- [12] Wang SL, Ma YP, Zhuang LW. Improvement study on prediction and assessment model for chilling damage of maize in Northeast China. *J Nat Disast* 2008; 17: 12-18.
- [13] Wu DL, Wang CY, Xue HX. Drought risk map for winter wheat in North China. *Acta Ecol Sin* 2010; 31: 760-767.
- [14] Wu WL. Changes in cold damage to rice in NHAR under the background of global warming. *NHAR Agric For Sci Technol* 2008; 14(1), 54-59.
- [15] Tang YJ, Pan J. Characteristics of agro-meteorological and agrobiological disasters in China in recent years. *J Nat Disaster* 2012; 21: 26-30.
- [16] Yang LP, Feng M, Liu AG. Research on sensitivity of rice to chilling injury in summer in hubei province. *Chin J Agrometeorol*, 2009; 30: 324-327.
- [17] Li YJ, Zhang QF, Shang YA, Qi, and X.Z. Wang. Analysis of agricultural risk factors in Gansu Province. *J Nat Disaster* 2006; 15: 144-148.

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