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An Initial Investigation on the Distribution, Living Conditions and Traits of the Hazel in Great Xing' an Ridge Region

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ABSTRACT

To take full advantage of the natural hazel resources and improve its yield and quality in Great Xing' an Ridge region, we carried out an initial investigation. The result showed that: there are two species in this area: *Corylus heterophylla* and *Corylus mandshurica*. They mainly distribute from south of XinLin town, HuMa county, Heilongjiang province to south boundary of Great Xing' an Ridge in mountain and hilly areas. Most of hazel in this area was under the state of natural growth with no scientific man-management. Soil where *Corylus heterophylla* grew was about 40 cm to 50 cm and *Corylus mandshurica* was 30 cm to 45 cm. The main plant disease was powdery mildew and insect pest were *Curculio dieckmani*, *Zeuzera* sp. and Faust Cockchafer. 100-seed weight of *Corylus heterophylla* was more than twice of *Corylus mandshurica*. However, *Corylus mandshurica* was plumper, had much more kernel and much less empty shell than *Corylus heterophylla*, and what' s more, shell sickness of it turned to be significantly thinner than *Corylus heterophylla*, all of which showed great cultivation value and economic commodity value.

KEYWORDS

Corylus Heterophylla, *Corylus Mandshurica*, Distribution, Quality, Condition

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References

- [1] Y. Q. Pan, " Primarily Study on Economic Traits of Large Fruit Hazel and Its Introduction to Changbai Mountains," *Quarterly of Forest By-Product and Specialty in China*, Vol. 99, No. 2, 2009, p. 110.
- [2] M. Q. Wang, " Determination of Physical Chemical Properties and Fatty Acid Composition of Hazelnut Oil," *Vol. 28, No. 8, 2003, pp. 69-70. doi: 1003-7969(2003)08-0069-02*
- [3] F. Wang and X. S. Zhang, " Wild Plants-Hazelnut Cultivation," *Forestry Survey and Design*, Vol. 135, No. 3, 2005, p. 57.
- [4] C. Y. Xie and J. Bi, " Hazel," *China Soil and Water Conservation*, Shaanxi, 1994, pp. 31-32.
- [5] Y. B. Zhang and F. Li, " Survey on Wild Hazel Resources of Changbai Mountain," *Jilin Agricultural Sciences*, Vol. 32, No. 5, 2007, pp. 56-57. doi:1003-8701(2007)05-0056-026
- [6] Y. H. Zhang, L. Liu and W. J. Liang. " The Fruit Index of China, (Vol. Chestnut, Hazelnut)," *China Forestry Press*, Beijing, 2005, pp. 193-199.
- [7] Z. Y. Long and C. H. Lu, " Resource Distribution and Development Research Progress of *Corylus* in Heilongjiang Province," *Forest By-Product and Specialty in China*, Vol. 77, No. 4, 2005, pp. 41-42.
- [8] Z. X. Hou, M. D. Yuan, X. M. Liu and M. P. Zhai, " Survey of Production and Researches on Hazelnut in China," *Non-Wood Forest Research*, Vol. 26, No. 2, 2008, pp. 123-126. doi:1003-8981(2008)02-0123-04

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- [9] C. D. Wang, X. Y. Wang and L. C. Zhang, " Growth Characteristics and the Prospect of Researches and Utilizations on *Corylus heterophylla*," Forestry Survey and Design, Vol. 152, No. 4, 2009. pp. 83-84.
- [10] Y. H. Wang, G. Zhang and S. Y. Liu, " Initial Analysis on Development and Utilization of Hazelnut of Da Xing' an Ling," Modern Agriculture, Vol. 11, 2002, pp. 25-26.
- [11] Q. Y. Yu, " Specific Measures for Improving Quality and Yield of Hhazel in Daxing' anling," Quarterly of Forest By-Product and Specialty in China, Vol. 66, No. 3, 2003, p. 18.
- [12] L. Liu, Y. M. Ma and W. D. Zhang, " The Hazelnut Pest Survey and Control Measures of Heilongjiang Eastern Mountain," Forestry Survey and Design, Vol. 146, No. 2, 2008, pp. 66-67.
- [13] M. H. Che, X. Yang, S. S. Yang and Y. F. Han, " Situation and Development Strategies of Wild Hazel