

# 폐송어 養殖場을 活用한 고추냉이 栽培모델 開發研究

작물경영연구과 김 두 열

## Studies on the Standard Cultural Model of Wasabi at the Abandoned Trout Farm.

### Summary

Water cultivation of Wasabi(*Wasabia japonica* MATSUM) is limited in Korea because of its particular conditions of cultural environment such as water qualities, its temperature, and the high cost requirements for preparing the cultural facilities.

To alleviate the high cost input and cultural risk, experiments were conducted to find out the standard cultural model which is easily approachable to farmers by developing the snow and wind resistant P.E film plastic house, and cost reducing by making use of the abandoned salmon trout farm.

Field surveys showed that eight wasabi farms in 6 cities and county produced 3,000kg per year with the average of 1 ha and the average of trout farm was 240,960 m<sup>2</sup> at 96 locations as of 2004 in Gangwon-do.

The trout farmers got the water from underground, river, naturally erupted spring, and the mixed one. The plastic house which developed for the resistant to snow and wind was tolerant to the weather disaster and wasabi in it were cultivated well.

The standard design of cultural bed was made for the cost saving composition of bed materials compared to the traditional bed for wasabi rearing.

## 적 요

고추냉이 물재배는 氣候, 用水 등의 栽培條件이 까다로우며 栽培條件이 適合해도 初期 施設費가 過多하게 요구되어 面積擴大가 어려운 작물이지만 폐송어양식장 등 栽培條件이 適合한 지역에서 初期施設費가 低廉하면서 氣象災害에 안전하여 농가가 쉽게 이용할 수 있는 農家普及型 고추냉이 재배 표준모델을 개발하고자 수행한 연구결과를 요약하면 다음과 같다.

1. '04년 현재 강원도내의 송어양식장은 94개소 240,960㎡로 地下水, 河川水, 湧出水, 地下水+湧出水 등이 양식장 用水로 이용되고 있다.
2. 강원도내 물고추냉이 栽培面積은 6개시군 8農家에서 100a정도 栽培되며 年間 生産량은 3,000kg정도이다.
3. 본도에서 開發한 耐雪, 耐風型 고추냉이 재배하우스는 각종 災害에 安全하며 고추냉이 生育도 良好하였다.
4. 災害에 安全한 耐雪, 耐風型 비닐하우스내에 고추냉이 品質과 收量面에서 가장 우수한 疊石式과 作土造成費를 節減할 수 있는 改善型의 設計圖面을 비교할 수 있도록 標準設計圖面을 製作하였다.