

INFLUENCE OF pH AND PHOTOPERIOD ON POTATO'S GROWTH, DEVELOPMENT AND YIELD OF FIRST GENERATION TUBER PRODUCTION AT DA LAT, LAM DONG CONDITIONS

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Summary

A study was conducted to determine optimal pH and photoperiod levels for increasing yield of first generation potato tuber production. Cultivars of Atlantic and PO3 were used for the experiments at the Potato, Vegetable and Flower Research Center. The results stated that changes of pH concentrations at 30, 35 and 40 days after transplanting for Atlantic cultivar and at 35, 40 and 45 after transplanting for PO3 cultivar affected on tuber yield of those cultivars. pH concentration at 4 gave a greatest tuber yield for Atlantic cultivar with 6.1 tubers/plant and 533.6 tubers/m² and for PO3 cultivar with 9.4 tubers/plant and 687.1 tubers/m². Photoperiod at 10 h per day showed a best result with 7.4 tubers/plant and 569.7 tubers/m² on Atlantic cultivar and 9.5 tubers/plant and 732 tubers/m² on PO3 cultivar.

Keywords: *Atlantic, pH, Photoperiod, PO3, potato.*