

PROJECT TITLE

Root Architecture of Potato Seedlings Under low N

CONSORTIUM

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SUMMARY OF THE REPORT

The goal in this project was to identify root traits in potato hybrids that improve growth under nutrient deficient conditions. For that purpose, a panel of 60 contrasting hybrids was selected. The parents of these hybrids already were genotyped. As roots of the potato seedlings were too fine to be measured in the aeroponics system, the seedlings were first grown in glue plugs. Cuttings from these seedlings were used to transplant into the aeroponics facility. The cuttings were grown under control and under nitrogen deficient conditions. Root characteristics were measured, we found variation for root length and lateral root growth between hybrids and between the treatments.