DETERMINATION OF THE NUTRIENT ABSORPTION CURVE, USING EXTRACTOMETRIC SONDA AND FOLIAR ANALYSIS IN HASS AVOCADO (*Persea americana* Mill)

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In the last years, fertigation has been incorporated as an important tool for fruit orchard management. By understanding the concept of fertigation as a way of providing nutrients to the crop according to requirements, an investigation was made during three seasons in 3 good productivity avocado orchards, located in the zone of Ovalle, Region of Coquimbo, Chile. Soil solution extraction was carried out at three different depths, along with a foliar sample for analysis. This was done with the objective of determining the concentration level for each nutrient contained in the soil solution, from where avocado tree absorbs. The concentration in which nitrate leaching in fertigation management is produced, was also determined. The foliar sample was used to find out if the disappearance of nutrient in soil solution from the 3 depths occurred because of plant absorption or because of organic matter absorption and fixation in the soil, in the case of cations; as well as interaction of nutrients with irrigation water, mainly with bicarbonates present in water. Besides, the foliar curve for each nutrient was determined during the crop cycle.