



Fertilization Management of Horticultural Crops

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Message from the Guest Editor

Horticultural fertilization is moving toward a digitized, precision management through wireless remote-control solutions. To be sustainable, this approach requires fertility indexes that can provide information about the soil nutrient availability and tree nutritional status. The indexes should be easily measurable, economically affordable, and reliable to allow a precise fertilizer application rate for each crop in each environment. A number of methods can be employed to achieve this goal, for example, (1) probes to measure nutrients in soil solution, (2) sensors for xylem sap electric conductivity, (3) systems that can estimate nutrient concentration in xylem sap, leaf or fruits, etc. Research should provide information about the availability, precision, and possible application of these tools.

Keywords:

- soil solution
- nutrient availability
- fertility probes
- xylem sap
- electromagnetic wave
- leaf nutrient





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Message from the Editor-in-Chief

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