



FERTIGATION MONITORING

INCREASE CROP PRODUCTIVITY

Population growth and increasing production costs force the agriculture industry to look for innovative ways to optimize production, improve quality and deliver more quantity with the same resources. Our fertigation monitoring service will enable producers to reduce costs and optimize resources by controlling and improving harvests.

FERTIGATION MONITORING

Fertigation enables producers and growers to dose additional nutrients and fertilizers to plants, or to correct nutrient deficiencies. Better understanding starts with testing. Soil and water testing takes analysis one step further, increasing understanding of naturally occurring nutrients in the soil and the uptake of nutrients added through fertigation. Together, plant tissue, soil, water solution and water analyses empower growers to take decisive action to improve the health and productivity of their plants as well as reduce their costs.

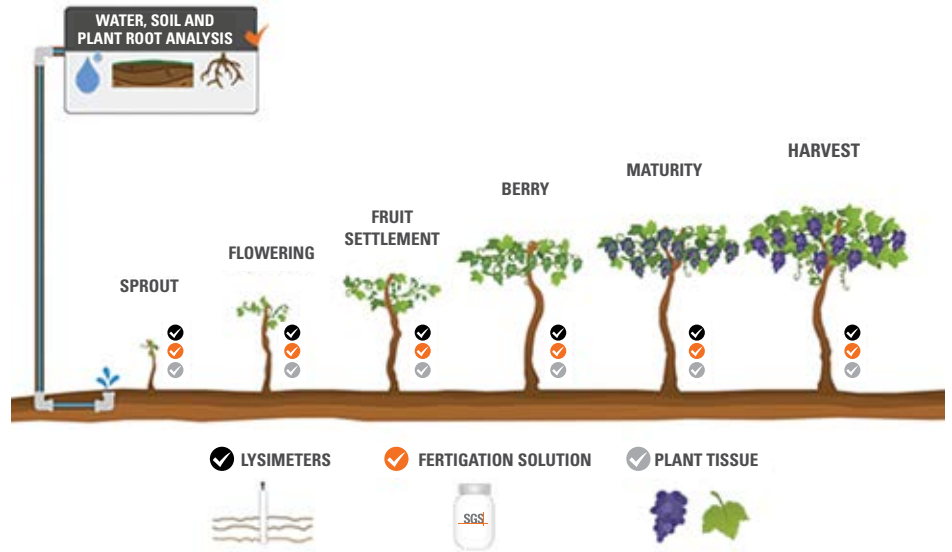
SERVICES

To get the most benefits from fertigation monitoring services, it is recommended to perform frequent testing and the following irrigation systems should be used:

- Drop-by-drop.
- Sprinkling.
- Micro-sprinkling.
- Exudation.

Using suction lysimeters, our experts quantify the actual chemical composition of the plant available for metabolic processes and their interaction with the tissue of the leaves and fruit. This process includes analysis of various parameters:

- Irrigation water and soil analysis at the beginning of the growing season
- Fertigation solution, soil solution (extracted at different depths), and leaf samples in each state of crop phenology.



ANALYSIS

To get the most appropriate and consistent results, the recommended analysis are:

Plant tissue testing

Plant tissue testing analysis identifies the concentration of elements, and guides decision making about the use of fertilizers. Typically, this testing will measure nitrogen, phosphorus, calcium, potassium, magnesium, sulphur, chlorine, sodium, manganese, zinc, copper, iron and boron.

Soil testing

In addition to looking at nutrients, soil testing also examines the texture, organic matter, available phosphorus and potassium, exchangeable cations and anions, CIC, calcium carbonate, pH and electrical conductivity.

Irrigation water/soil solution/fertigation water testing

The focus for this testing program is pH, electrical conductivity, nitrate levels, phosphorus, chlorine and sulphates. Soil solution samples are extracted using probes/lysimeters.

WHY SGS?

- Latest technology to perform analysis
- A global network of agronomists
- Standardised or customized approach

Contact details:

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SGS IS THE WORLD'S LEADING INSPECTION, VERIFICATION, TESTING AND CERTIFICATION COMPANY