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Plant Tissue Methods

Total Nitrogen/Carbon: Combustion method using either a Carlo Erba 1500 C/N analyzer or a Elementar EL Cube C/N combustion analyzer. Method P2.02 from the "Soil, Plant, and Water Reference Methods for the Western Region" and AOAC 990.03

Minerals (P,K,Ca,Mg,Na,Al,B,Zn,Mn,Cu,Mo,S,Fe): Nitric Acid and Hydrogen Peroxide are used in a closed Teflon vessel and digested in a CEM Mars Microwave and analyzed on a Thermo 6500 Duo ICP. Method P-4.30 from the "Soil, Plant, and Water Reference Methods for the Western Region"

Extractable NO₃-N, NH₄-N, Cl: Samples are extracted with 2% Acetic Acid and then analyzed on a FIA Lab flow injection analyzer. Method P-3.10 from the "Soil, Plant, and Water Reference Methods for the Western Region"

Moisture: Samples are dried in a 60 degrees Celsius oven overnight

Drying: Samples are dried in at 130 degrees Celsius forced air oven for 1-2 hours

Grinding: Samples are ground through Cyclotech Mill with a 0.50mm screen