

Goulden Lab Equipment and Facilities

Lab: 1400 ft² lab with hood and misc. equipment for electrical design and fabrication (multimeters, drill press, saws, tools). Approx 20 ft³ total of drying oven space. Miscellaneous balances, labware, etc.

Computers: Approx (20) Windows and LINUX computers of various ages and speeds. Software licensees include Office, Matlab, Splus, ArcGIS, IDL, ENVI.

Micrometeorological equipment: (12) full eddy covariance systems, including (12) Campbell CSAT sonic anemometers, (2) Solent HS sonic anemometers, (4) Licor 7500 open path IRGAs, (12) LiCor 7000 closed path IRGAS, (2) LiCor 6262 closed path IRGAS, (8) aluminum or steel towers ranging in height from 10' to 100', (70) 90 to 120 W solar panels.

General meteorology and data acquisition equipment: Approx (50) miscellaneous data loggers (mostly CR23x, CR5000, CR10x), approx (40) radiation and energy balance sensors (mostly REBS, LiCor, Kipp&Zonen), approx (100) soil moisture probes (mostly CS615), etc.

Physiological equipment: Licor 6400 leaf gas exchange system with LED source and CO₂ mixing system, Licor 6200 gas exchange system with soil and leaf chambers, Licor LAI2000 plant canopy analyzer, PMS pressure chamber.

Field research vehicle: 2003 4wd Dodge Dakota crew cab.