

Materials List for:

Measuring and Mapping Patterns of Soil Erosion and Deposition Related to Soil Carbonate Concentrations Under Agricultural Management

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Materials

Name	Company	Catalog Number	Comments
Real-time kinematic GPS system	Trimble	Model 5800	
GPS field data collector	Trimble	Model TSC2	
GPS field software	Trimble		Trimble Access (Trimble Survey Controller used in 2001 for site calibration but this software is no longer supported)
Hydraulic soil coring machine	Giddings Machine Company		
Utility vehicle	John Deere	Gator 6x4	
GIS software	ESRI		ArcGIS for Desktop with Spatial Analyst and Geostatistical Analyst Extensions
Statistical software	SAS		SAS Institute Inc.
Pressure transducer 0-105 kPa	Serta	Model 280E	Setra Systems, In., Boxborough, MA
Volt meter	WaveTek	5XL	Digital meter set to read volts
Serum Bottles	Wheaton	223747	100 mL
Serum Bottles	Wheaton	223762	20 mL
Sealing Cap 20 mm Aluminum	Wheaton	224183-01	Case of 1,000
20 mm gray butyl stopper (2-prong)	Wheaton	224100-192	Septum; Case of 1,000
Hand crimper	Wheaton	W225303	20 mm size
Hand Decapper	Wheaton	W225353	20 mm size
Acid vials	Wheaton	224881	0.50 dram size (2-mL)
Power supply	SR Components	DDU240060	Class 2 Transformer AC adaptor; Input 120VAC , Output 24VDC
Calcium carbonate	Fisher	471-34-1	500 g of 100% w/w CaCO ₃