Equipment List for Mobile Lab, Irrigation Systems & Infrastructure, & Flow Monitoring.	
Description/Item Name	
Mobile Lab Equipment for Irrigation and Nutrient Management Assessments	
Suckets, 1 gallon	
Graduated Cylinders, 100-2000 mL	
lastic Funnels	
/2" pressure test fitting (coupler) Roberts	
/2" Spin loc barbed connectors (t-tape connectors)	
/2" pvc- Spin loc-schrader- Barbed connectors (custom-built	
/2" pressure test fitting (end) Roberts	
/2" pvc- Spin loc-schrader Barbed ends (custom-built)	
/2" Spin loc Barbed-low pressure release flush valve ends	
/4" Spin loc-Schrader-Barbed connectors (custom-built)	
/4" Spin loc-Barbed-Barbed connectors (t-tape connectors)	
/4" Spin loc Barbed-low pressure release flush valve ends	
/4" Sharp Barbed-1/4" Tubing-Brass Schrader connectors	
/2" Clear Tubing Cuffs (to guide drips into catch cans)	
/4" Garden Hose Cuffs (to guide drips into catch cans)	
assortment of 1/2" garden hose pieces, 2.5' to 4' in length (for sprinkler discharge evaluati	on)
Carboy or water jug, 5 gallons	
erial Port Cable	
Geflon tape, rolls, 1/2" and 3/4"	
/4" NPT thread tap	
/2" threaded Schrader valve stems	
/2" NPT thread tap	
Cordless Drill	
Orill bit set	
oughbook laptop computer	
mall Adjustable Crescent Wrench	
arge Adjustable Crescent Wrench	
Crescent Wrench set (Metric and SAE)	
ocket set (Metric and SAE)	
Counter, analog "clicker" style	
Vaterproof pH/EC/TDS/Temperature sensor	
Volt Meter	
Owyer Digital Pressure Gages with tubing and Schrader Clip-On Heads, 0-50 PSI	
analog, oil-filled pressure gages (for backup in case the digital pressure gages fail)	
Garmin Global Positioning System (GPS)	
hillips Screwdriver, small and large	
lathead Screwdriver, small	
cissors	
Volt Batteries for Pressure Gages	
AA/AAA Batteries for GPS and meters	
lectic tool hav Craftemen 16 1/4" tool argenizer	

Plastic tool box Craftsman 16-1/4" tool organizer

Large Plastic tool box, Craftsman sit/stand/tote truck
Plastic storage tubs with lids, 20 gallon size (to store Items 2-23)
Plastic Buckets, 5 gallon size
Γool bag
Water resistant Stop Watches
Field Notebooks
Jtility Knives
Caliper
Pipe wrench 10" and 18"
Thermo-anometer
Rainsuit (one pants w/suspenders, one jacket)
Goof plugs (pack of 50)
Calibration solution packets Hanna® (box)
Γape measure 300'
gloo Maxcold 5 gallon water cooler
Galvanized lateral coupler with gasket, full band, and latch 3
PVC bushings 1"
Fongue and groove pliers
Long nose pliers
Wire stripper/cutter
Ratcheting pvc pipe cutter
PVC hand saw 16-20"
PVC cement (gray, high-strength) and primer
rrigation System Infrastructure for Irrigation and Nutrient Management
Pressure gauges
Pressure gauges Layflat
Pressure gauges Layflat Drip tape
Pressure gauges Layflat Drip tape Drip-tape connectors
Pressure gauges Layflat Drip tape Drip-tape connectors Sprinkler nozzles
Pressure gauges Layflat Drip tape Drip-tape connectors Sprinkler nozzles Variable rate drive (for pump)
Pressure gauges Layflat Drip tape Drip-tape connectors Sprinkler nozzles Variable rate drive (for pump) Sprinkler pipe
Pressure gauges Layflat Drip tape Drip-tape connectors Sprinkler nozzles Variable rate drive (for pump) Sprinkler pipe Sprinkler heads
Pressure gauges Layflat Drip tape Drip tape Orip-tape connectors Sprinkler nozzles Variable rate drive (for pump) Sprinkler pipe Sprinkler heads Pressure regulating valves
Pressure gauges Layflat Drip tape Drip tape Drip-tape connectors Sprinkler nozzles Variable rate drive (for pump) Sprinkler pipe Sprinkler heads Pressure regulating valves Submain lines
Pressure gauges Layflat Drip tape Drip tape Orip-tape connectors Sprinkler nozzles Variable rate drive (for pump) Sprinkler pipe Sprinkler heads Pressure regulating valves Submain lines Backflow equipment
Pressure gauges Layflat Drip tape Drip-tape connectors Sprinkler nozzles Variable rate drive (for pump) Sprinkler pipe Sprinkler heads Pressure regulating valves Submain lines Backflow equipment Filter system
Pressure gauges Layflat Drip tape Drip-tape connectors Sprinkler nozzles Variable rate drive (for pump) Sprinkler pipe Sprinkler heads Pressure regulating valves Submain lines Backflow equipment Filter system Drip tape installation equipment
Pressure gauges Layflat Drip tape Drip-tape connectors Sprinkler nozzles Variable rate drive (for pump) Sprinkler pipe Sprinkler heads Pressure regulating valves Submain lines Backflow equipment Filter system Drip tape installation equipment Practices to improve DU (anything from moving pipe, infrastructure for pumps, etc.)
Pressure gauges Layflat Drip tape Drip-tape connectors Sprinkler nozzles Variable rate drive (for pump) Sprinkler pipe Sprinkler heads Pressure regulating valves Submain lines Backflow equipment Filter system Drip tape installation equipment Practices to improve DU (anything from moving pipe, infrastructure for pumps, etc.) Infrastructure improvements on wells (well head replacement, replace pumps, permeability of well,
Pressure gauges Layflat Drip tape Drip-tape connectors Sprinkler nozzles Variable rate drive (for pump) Sprinkler pipe Sprinkler heads Pressure regulating valves Submain lines Backflow equipment Filter system Drip tape installation equipment Practices to improve DU (anything from moving pipe, infrastructure for pumps, etc.)
Pressure gauges Layflat Drip tape Drip-tape connectors Sprinkler nozzles Variable rate drive (for pump) Sprinkler pipe Sprinkler heads Pressure regulating valves Submain lines Backflow equipment Filter system Drip tape installation equipment Practices to improve DU (anything from moving pipe, infrastructure for pumps, etc.) Infrastructure improvements on wells (well head replacement, replace pumps, permeability of well, pressure compensating well pumps) Frigation Scheduling Infrastructure for Irrigation and Nutrient Management
Pressure gauges Layflat Drip tape Drip tape Drip-tape connectors Sprinkler nozzles Variable rate drive (for pump) Sprinkler pipe Sprinkler heads Pressure regulating valves Submain lines Backflow equipment Filter system Drip tape installation equipment Practices to improve DU (anything from moving pipe, infrastructure for pumps, etc.) Infrastructure improvements on wells (well head replacement, replace pumps, permeability of well, pressure compensating well pumps) Irrigation Scheduling Infrastructure for Irrigation and Nutrient Management Flow meters and associated parts (pvc, couplers, clamps, cement, bolts, etc)
Pressure gauges Layflat Drip tape Drip-tape connectors Sprinkler nozzles Variable rate drive (for pump) Sprinkler pipe Sprinkler heads Pressure regulating valves Submain lines Backflow equipment Filter system Drip tape installation equipment Practices to improve DU (anything from moving pipe, infrastructure for pumps, etc.) Infrastructure improvements on wells (well head replacement, replace pumps, permeability of well, pressure compensating well pumps) Frigation Scheduling Infrastructure for Irrigation and Nutrient Management
Pressure gauges Layflat Drip tape Drip-tape connectors Sprinkler nozzles Variable rate drive (for pump) Sprinkler pipe Sprinkler heads Pressure regulating valves Submain lines Backflow equipment Filter system Drip tape installation equipment Practices to improve DU (anything from moving pipe, infrastructure for pumps, etc.) Infrastructure improvements on wells (well head replacement, replace pumps, permeability of well, pressure compensating well pumps) Irrigation Scheduling Infrastructure for Irrigation and Nutrient Management Flow meters and associated parts (pvc, couplers, clamps, cement, bolts, etc) Soil moisture sensors (and datalogger) Weather station
Pressure gauges Layflat Drip tape Drip-tape connectors Sprinkler nozzles Variable rate drive (for pump) Sprinkler pipe Sprinkler heads Pressure regulating valves Submain lines Backflow equipment Filter system Drip tape installation equipment Practices to improve DU (anything from moving pipe, infrastructure for pumps, etc.) Infrastructure improvements on wells (well head replacement, replace pumps, permeability of well, pressure compensating well pumps) Irrigation Scheduling Infrastructure for Irrigation and Nutrient Management Flow meters and associated parts (pvc, couplers, clamps, cement, bolts, etc) Soil moisture sensors (and datalogger)

Replace worn out sprinkler nozzles
Timer for turning off pump
Irrigation scheduling software
Equipment for Monitoring Flow for Irrigation and Nutrient Management
Flow meter with pulse output
Data logger
Data logger enclosure
Data logger battery
Solar panel including mounting bracket
Cell phone modem
Cell phone antenna
Cell phone mounting kit
Null modem cable
Call phone data plan
Call plan start-up fee
Practices to improve DU (anything from moving pipe, infrastructure for pumps, etc.)
Infrastructure improvements on wells (well head replacement, replace pumps, permeability of well,
pressure compensating well pumps)
CIMIS station
Hortau Sensors
Pressure compensating drip
Replace worn out sprinkler nozzles