

Equipment / Consumable	Item Number	Agriscience Equipment List		Recommended	Industry Certification*
		Item Description			
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E	1	Air Compressor - Two stage compressor on 60 gal. tank, 150 psi, 9/5 CFM , pressure switch with air release valve for "load-free" starting, 5 hp motor overload protection; unit complete with belt guard, remote inlet and oil bath air cleaner, with complete hose assembly connect couplings		1	0
E	2	Altimeter, Haga - Pistol grip, controlled damp pivot pointer with six scales. Hermetically sealed in durable metal case. Include leather case.		1	0
E	3	Amp Meter, 0-25 amps clamp-on type		1	1
E	4	Animal Implant Gun		1	0
E	5	Antifreeze Tester- Glass tube with five floating balls, rubber bulb on top and rubber hose on bottom of tester, to indicate protection from freezing from 0 degrees to minus 40 degrees		1	0
E	6	Aprons- For use in meats lab		14	14
E	7	Aquaculture System- includes tank with drain, filter solids system, bio-filter system, pump, airstone		1	1
E	8	Aquaculture Test Kit- To furnish all materials for pond fish culture testing. Unit to be supplied with lab ware, sampling bottle, and reagents for 50 tests of each factor.		1	1
E	9	Aquaculture Unit- Complete closed loop system		1	1
E	10	Aquarium-10 gallon observation and holding unit, complete kits		4	2
E	11	Aquarium-29 gallon observation and holding unit, complete kits		4	2
E	12	Aquariums- 50 gallon or larger observation and holding units, complete kits		4	2
E	13	Aquatic Kick Net		16	6
E	14	Arc Welding Booths- Minimum size 48" X 48" X 76" with a see through vinyl fire resistant curtain.		1	1
E	15	Artificial Insemination Kit, Cattle- Includes box, rod, thermometer, thaw box, plastic gloves, and boots		1	1
E	16	Artificial Insemination Kits- Meat goats, horses and swine		1	1
E	17	Autoclave- Chamber size, approximately 7.5" X 15" deep		1	1
E	18	Baking Dishes, set of 3, 1 to 3 quarts, oven and microwave safe		5	4
E	19	Baking/Roasting Pan- Individual loaf size, aluminum, approximately 7" X 4" X 3" high		5	1
E	20	Balance- Electronic, LCD display, reading in grams, pounds and ounces, 2000 gram capacity in increments of 1 gram, full capacity tare, with AC adapter, may be battery operated		6	3
E	21	Balance- Triple beam laboratory balance, calibrated to 0.01 g, electronic analytical		2	1
E	22	Balling Gun for Cattle and Horses- Straight with spring, will take 1/2 and 1 oz. capsules, 17" long		1	0
E	23	Bark Gauge- Measures bark thickness from 0 to 2" in increments of 1/10". Spring handle covers bit when not in use. Constructed of non-corrosive materials.		2	1
C	24	Baster- Nylon, heat-resistant, with measure markings		5	3
E	25	Battery Tester- Glass tube with four multicolored balls that indicate, by the number of them floating in the battery solution, the state of the battery charge, rubber bulb for drawing the solution into the tube		1	0
C	26	Beaker sets- One each of 100 ml, 150 ml, and 250 ml, heat resistant, with lip and pouring spout		30	15
E	27	Beaker Tongs		14	6
E	28	Bench, Gas & Arc Welding- 1 side gas, one side electric arc, welded frame of channel and angle iron, framing to receive fire brick on gas welding side, built-in quenching tank. Back boards fire resistant, see thru welding curtain with frame, 35 3/4" (W), 41" (L) and 35" (H) to be used with arc welding booths.		1	0

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E	29	Bench, Greenhouse - Rolling/stationary, galvanized expanded metal top, 15 lb. psf load capacity. * Number of benches needed will be determined by size of greenhouse.		18*	0
E	30	Bench, Woodworking, 4 Station- Locker base type, hard maple laminated top 2 1/4" x 54" x 74" with four bolts through the body of the top for additional strength, steel base in two sections, each section to contain 6 lockers 21" long, 21" deep and 15" high with padlocks hasp and knockout plug for cylinder lock		3	0
E	31	Benches- Work, 54" X 64" with metal base		5	1
E	32	Binoculars- Wide view variable power 40 mm lens. Scratch resistant lens complete with neck strap and carrying case.		14	0
E	33	Bit Set- Electrification, 3/8"-1" by 8ths		1	0
E	34	Bits, High Speed Twist Drill- 29 fractional bits, 1/16 thru 1/2" by 64ths of an inch		1	0
E	35	Blow Dryer, hand held		1	0
E	36	Boat Oar		2	0
E	37	Boat, John		1	0
E	38	Botany Dissection Set- Stainless steel		28	14
C	39	Breed Charts- Cattle, Swine, Horses, Sheep, Goats, Poultry, Dairy		1	0
E	40	Brooder, Electric- For use with baby chicks		2	1
C	41	Brush Duster- Soft Pliable bristles 2 1/2" long set in hardwood block with handle, overall length 14 1/2"		12	4
C	42	Brush, Cup Type Carbon Removing - Brush diam. 1 5/8", crimped .013" steel wire looped into hub, 1/4" stem for use in electric drill		1	0
C	43	Buckets- Plastic 2 to 5 gallon capacity		10	5
E	44	Builders Calculator		2	1
E	45	Bunsen Burners		12	6
E	46	Cabinet, Flammable Liquid - 18 gauge steel panels, double wall top, bottom, sides and back with 1 1/2" air space between inner and outer panels. Unit should include screen flame arrestor vent, leak-proof sill at bottom; leveling feet on all 4 corners, 3 point lock; must meet National Fire Protection Association requirements.		1	1
E	47	Cabinet, Stationary Tool- Wooden two door tool cabinet equipped with custom designed tool holding devices, individual hold devices painted to match tool color coding scheme		1	0
E	48	Cabinet, Sterilization and Storage, for Safety Goggles- 40 pair capacity and safety glasses		1	1
C	49	Cable Ripper- For use in nonmetallic sheathed cable with outside diameter 5/8 inches or smaller		12	6
E	50	Calf Puller- Adjustable strap, ratchet winch, steel shaft		1	0
E	51	Caliper, Dial Vernier - 0 to 6 inches, .100" graduation		4	1
E	52	Calipers- Inside, 6", screw operated		3	0
E	53	Calipers- Outside, 6", screw operated		3	0
E	54	Calipers, Inside- "Yankee" spring type, solid nut, legs made from flat stock, hardened fulcrum stud, flexible box spring, 6" size		4	1
E	55	Calipers, Outside, 6"- "Yankee" spring type, solid nut, legs made from flat stock, hardened fulcrum stud, flexible box spring, 6" size		4	1
E	56	Camera, 35 mm- Automatic with carrying case.		1	1
E	57	Camera, Digital, with screw on UV Filter		2	1
E	58	Camera, Video, 8 mm, VHS or digital video		1	0
C	59	Can Opener- Gear driven, handheld		3	1
E	60	Canner, Boiling water		1	0
E	61	CD Player		1	0

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E	62	Cement Edger- Cast aluminum, wooden handle, cuts 2 3/4" X 5 3/4" with 5/8" radius each end.		1	0
E	63	Cement Groover- Cast aluminum, both ends curved, wooden handle, cuts 1/2" deep X 3/8" wide		1	0
E	64	Centrifuge- Bench top, accommodates standard 10 ml and 15 ml tubes, electric timer, 3400 RPM minimum		3	1
E	65	Chain- Obstetrical, Handle, Heavily chrome-plated, 30" to 60"		2	0
C	66	Chef Bowl Set- Kitchen type, double walled construction with 1 1/2" air space. Built in vents and flash arresters.		2	1
C	67	Chef's Aprons, 100% cotton or cotton blend, 36"L X 30"W, with ribbon ties		30	20
E	68	Chemical Fog Applicator		1	0
E	69	Chemical Respirator- For protection against common garden chemicals, insecticide dusts and sprays, to be furnished with 3 easy to replace dust filters and one chemical cartridge and 2 valves, adjustable headband.		2	0
E	70	Chemical Storage Cabinet- Double walled construction with 1 1/2" air space. Built in vents and flash arresters. *Depends on what needs to be stored based upon the program needs.		3	1*
E	71	Chisel, Wood- Set of 1/4", 1/2", 3/4" and 1", polished steel blades		1	0
E	72	Chisels, Cold Flat- 4 to a set- Alloy steel, hexagon stock, each set to consist of one each of the following sizes: 3/8", 1/2", 3/4" and 1"		1	0
E	73	Chute, Cattle Squeeze- Portable, includes wheels and tongue		1	0
E	74	Circuit Test Lamps- 120 volts with GFCI tripulation		6	3
E	75	Clamp, "C" - Set of 10", 2 1/2", 4", 6" and 8", sliding pin handle, heat treated acme screw, ball and socket tip, frame made of high grade malleable iron		8	2
E	76	Clamp, Welding - Plier type, vise grip, alloy steel, toggle action and positive lock, U-shaped jaws, release lever in handle, jaw width 2 3/4", length 9", jaws adjustable to 1 5/8".		1	0
C	77	Cleaners- Tip, oxyacetylene welding		1	0
E	78	Clinometer- Housing of corrosion resistant lightweight metal, scale supported jeweled bearing assembly, moving parts, immersed in dampening liquid in sealed plastic container. Percent and Topographic scales to read to 150%, 1200' at 66' baseline with leather carrying case.		7	2
E	79	Clipper, Electric Small Animal - Detachable cutting head, ribbed bakelite housing, shock proof, length 7 1/2", diameter 1 3/4", to operate on 115 volts AC or DC, complete with cord and plug		1	0
E	80	Clippers, Large Animal Electric - Easy-grip handle, on-off switch, snap out filter screen, 2,500 - 3,000, cutting cycles per minute, fan cooled, hair cutting head and sheep shearing head		1	0
C	81	Colander- 3 quart capacity minimum, stainless steel		6	3
E	82	Combination Square, 12"- Grooved steel blade graduated in eight, sixteenths and thirty seconds on both sides; cast iron head with machined faces and one level glass		6	3
E	83	Compass, Silva Type Ranger- Graduated 0-360 degrees, liquid filled, transparent protractor plate, sighting mirror, declination offsetting device, transparent housing, magnetized needle encased in liquid, engineer's scale in inches and tenths on one side, millimeter scale on other side, 4" X 2 1/2" X 3/4", with case.		10	8
E	84	Compass, Staff - Azimuth and Quadrant graduations to one degree with declination adjustment. Needle lock with thumb screw. Folding sights with interchangeable scales. Circular spirit level mounted permanently on compass face. Complete with ball and joint socket and carrying case.		1	0
E	85	Computer Cart- With casters, includes surge protector, electrical outlets, adjustable shelves		1	1

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E	86	Computer Printer, color		7	3
E	87	Computer, Desktop or Tower Configuration, IBM compatible or MacIntosh		14	7
E	88	Concrete Finishing (metal) Float- made of very hard magnesium, equipped with smooth wood handle, 16" x 3 1/8"		2	0
E	89	Concrete Finishing (wood) Float- Clear seasoned wood, 3/4" thick, 12" x 5", finished smooth and equipped with hardwood handle.		2	0
E	90	Concrete Mixer		1	0
E	91	Conduit Bender- (EMT), One each of 1/2" and 3/4"		1	0
E	92	Conduit Bender- Offset, One each of 1/2" and 3/4"		1	0
E	93	Continuity Tester- Battery powered.		1	1
E	94	Convection Oven- View-glass door, insulated for cool exterior surfaces, fully adjustable temperature up to 450 degrees F, continuous cleaning, adjustable cooking levels		2	1
C	95	Cookie Sheet- Approximately 15" X 10" X 3/4" high, dishwasher safe, aluminum or stainless steel		10	5
C	96	Cooler- 48 qt. capacity removal tray, folding handles. 21" long, 14" wide 13" high.		1	1
C	97	Cooler- 60 qt. capacity with refreeze bottle in lid or as horizontal divider in chest. Folding handles 17" wide 16 3/8 " high, 25" long.		1	1
E	98	Cordless Drill- 3/8" variable speed, reversible, adjustable torque setting with rechargeable battery and charger.		1	0
E	99	Cordless Screwdriver/Nut Driver Bits and Sets- Nut driver and screwdriver bit set includes: #1, #2, #3 Phillips, 6-8, 8-10 and 10-12 slotted screwdriver bits plus 7 nut drivers- 3/16", 1/4", 9/32", 5/16", 11/32", 3/8" and 7/16".		1	0
C	100	Crock, 3 gallon (for fermenting pickles)		1	0
E	101	Crock-pot- 4 quart, slow cooking, 5 heat settings, pot separate from cook top, separate pot immersible and dishwasher safe, separate cook top may be used as range top cooker, 200W, 120V AC, heat resistant handles and base		1	1
C	102	Crop Seed Identification Kit		1	1
E	103	Cutting Board, extra strength poly type, dishwasher safe, 7" X 14" minimum		14	7
E	104	Dehorner, Calf, 2"- Barnes types, tool steel cutting blades, cutting edges on inside permitting operator to cup out horn button, overall length 12"		1	0
E	105	Dehorner, Electric - 320 W, 110 volt, AC, 9 1/2"		1	0
E	106	Dehorner, Large, 17 1/2"- Barnes type, tool steel cutting blades, cutting edges on inside permitting operator to cut out horn button, overall length 17 1/2"		1	0
E	107	Dehorner, Tube , 3/4"- For removing horns on small calves up to about four months old, size number 2, 3/4"		1	0
E	108	Dehorner, Tube, 7/8", 1", 1 1/8"		1	0
E	109	Desiccator Pump		1	0
E	110	Dibble- For planting container stock. Foot step. 1" to 1 3/4" diameter X 4" to 6" head.		4	1
E	111	Digital Planimeter- 14" measuring range, 1 digit equals 0.01 sq. in. AC/DC with adapter and charger. Complete with carrying case.		1	0
E	112	Disc Grinder- 9" 2 H.P. minimum, 4600 RPM, no load speed, spindle lock, spiral bevel gears, ball and roller bearings. Handle that mounts on either side		1	0
C	113	Dish Set- Corelle or equivalent, break resistant, dishwasher and microwave safe, to include 4 dinner plates, 4 soup bowls, 4 bread plates		4	1
E	114	Dishwasher- Large capacity, water heating ability for sanitizing dishes and equipment		1	1
E	115	Display and Storage Unit For Biological Models		1	0

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C	116	Disposable Coveralls- Made of Tyvek protects from pesticides, paints and grease. Long sleeves, zipper front, collar, sewn. *As needed.		12	6*
E	117	Dissecting Kit for Zoology, stainless steel with bone splitter and pins		28	14
E	118	Dissection Kits- standard		12	12
C	119	Dissectograms- For frog, fish, and fetal pig. Laminated wall chart		2	2
E	120	Disinfecting Trays, with covers		28	14
E	121	Double Boiler- 1.5 quart capacity minimum, aluminum or stainless steel, with lids for each		5	2
E	122	Draining and Drying Rack- For laboratory glassware, with galvanized metal drain pan, 90 piece capacity, vinyl coated wire racks		2	1
E	123	Drawing Instruments- Professional grade contained in foam padded metal and to consist of the following items: 1ea. Big bow combination, center wheel, compass 11" maximum circle; 1 ea. Small bow pencil, center wheel, compass 5" maximum circle; 1 ea. Friction divider, 6" capacity; 1 ea. Square beam bar to fit big bow compass that will accept pen, pencil and technical pen attachments. *Required for landscape.		2	2
E	124	Drawing Kit- 1 ea. 18" x 24" Drawing board; 1 ea. 24" T-square; 1 ea. 30 x 60 degrees 10" Triangle; 45 degrees 8" Triangle; Architects Scale; 1 ea. Semicircular Protractor; Irregular Curve; 3/4" 1 roll Drafting Tape; 2H + 4H pencil; 1 ea. Pink Eraser; 1 ea. 1" x 1" x 2" 1 Lettering Chart. *Required for landscape.		2	2
C	125	Drench Gun- To dispense a 2 ounce dose, designed so smaller doses may be dispensed by setting dose pin as desired, complete with rubber container and strainer funnel for filling		1	0
E	126	Drill, Portable Electric, 1/2"- With piston grip, spade handle and pipe handle; ball and needle bearings; reversible; 450 RPM; 1/2" heavy duty geared chuck; 115 bolt AC/DC; complete with cord and plug; double insulated		1	0
E	127	Drill, Portable Electric, 3/8"- Pistol grip handle, ball and roller bearings, variable speed from 0 to 1000 RPM, reversible, 3/8" Jacobs chuck, 115 volt AC, complete with cord and plug; double insulated		1	0
E	128	Drill, Portable Electric/Cordless- Heavy duty, 550 RPM no load speed, 3/8" chuck, variable speed, reversible.		1	0
E	129	Dust Pesticide Applicator- For gardens fruit trees		1	0
E	130	Ear Notcher- Designed to cut V-shaped notch in ears of large animals for identification purposes, small size that will notch up to 3/8" to 1/2" deep		2	1
E	131	Ear Tag Applicator- Aluminum construction, two handles with spring release		2	1
C	132	Egg Beater- Stainless steel, one each size		3	1
E	133	Egg Candling Light- High and low intensity light, 32 candle power, 110 volt AC		2	1
E	134	Egg Incubator- Still air, constant temperature, constant humidity, including thermometer and thermostat, 110 volt AC		2	1
E	135	Elastrator- Aluminum construction with wire fingers for stretching rings for placement on animal		1	0
E	136	Electric Extension Cord- Heavy duty, three conductor, single outlet, No. 12 wire, Type JFT, 125 volts, 15 amp., 50 ft. and/or 100 ft. long, complete with male and female plugs, GFCI protected		4	2
E	137	Electric Extension Cords, 50 Ft.- All vinyl, molded on plug and single outlet connector, flat parallel blades, wired with 3 AWG 12 copper conductors		2	2
E	138	Electric Motor- 1/2 hp, capacitor start		1	0
E	139	Electric Motor- 1/2 hp, split phase		1	0
E	140	Electric Skillet- Nonstick coating		4	4

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E	141	Electric Soil Sterilizer- Capacity: 1/2 cu. yd. per sterilization, 4 cu. yd. per 24 hr. period. Electrical: 6 KW, 25 ampere, 240 volts, 60 cycle, single phase, built in thermostat adjustable from 100-200 degrees Fahrenheit.		1	0
C	142	Electrical Template- Made of .030" plastic, to contain most commonly used electrical symbols arranged for drafting application, size 9" x 5 1/2"		28	14
C	143	Electrician's Wire Strippers		12	6
E	144	Electronic Tachometer- For use on magneto, battery or solid state ignition systems, measure 0-10,000 rpm.		2	1
E	145	Electrophoresis Kit, with UV transilluminator		1	1
E	146	Engine Compression Gauge- Designed to fit all cars, quick release, air tight coupling, dial 300 lbs., master stem with 18" long flexible hose and ball grip, to include 1 each 7 1/2" straight stem adapter and 1 each 8" 45 degree offset stem adapter.		2	1
E	147	Engine- Gasoline, four-stroke-cycle, 3.5 hp, horizontal crankshaft		1	0
E	148	Engine- Gasoline, four-stroke-cycle, 3.5 hp, vertical crankshaft		1	0
E	149	Engine- Gasoline, two-stroke-cycle, 3.5 hp, vertical crankshaft		1	0
C	150	Erlenmeyer Flasks- 1 Liter, heat resistant		6	3
C	151	Erlenmeyer Flasks- 250 mL, heat resistant		10	5
C	152	Erlenmeyer Flasks- 500 mL, heat resistant		10	5
E	153	Extension Rules, 12 Ft.- Tape type, chrome plated plastic case with belt clip. Manual operation with spring blade action return. Blade locking device, 3/4" wide blade, graduated in inches on 1/64's.		6	2
E	154	Extension Watering Handle, 24"- Aluminum extension handle to permit watering in hard to reach areas. 3/4 in. diameter with 65 degree bend at male end. Rubber grip on handle.		4	2
E	155	Extinguisher, Fire and Foam Type - For class A and class B fir hazards, wood, paper, rubbish, gasoline, oil, paint, varnish and all flammable liquids; 2 1/2" gal. capacity, stainless steel construction, tested to 500 lbs. pressure		1	1
E	156	Eye Wash Bottle- Portable 16 oz. capacity with eye cup, air vent and drain tube		1	1
E	157	Eye Wash Station		3	3
E	158	Fertilizer Injector- I.P. size 3/4 ", flow rate min./max. 3/12 std. prop 1:100, exterior adjustable.		1	0
E	159	File Cabinet- Metal four drawers, letter size with lock.		4	2
E	160	Fire Extinguishers- Type A, B, C, industrial type, rechargeable		3	3
E	161	First Aid Kit- Industrial type, for use by up to 30 people, to contain the items which comply with State School Standards. *One for lab, and one for the classroom.		2	2*
E	162	Flask Tongs- Stainless steel		5	2
C	163	Flatware Sets -Stainless steel		10	5
E	164	Flour Sifter, 5 cup, stainless steel		5	1
E	165	Flywheel Holder Set		5	1
E	166	Flywheel Puller, Small Engine type- Slide hammer type, for removing flywheels from small engines. Adapter to have holes threaded 1/2" - 20 and 7/16" - 20 threads per inch and an unthreaded .510" hold for Briggs and Stratton shafts, also, adapter for outboard engines.		1	0
C	167	Fogger Nozzle- Heavy duty, solid brass jets, 1 gal. per. min. capacity.		4	2
C	168	Food Dehydrator- Adjustable thermostat, quartz timer with LCD display		4	2
E	169	Food Processor- Heavy-duty, stainless steel metal blades, slicing and shredding disks, citrus juicer attachment, 120V AC, suitable for grinding/chopping coffee beans, vegetables, ice, etc. all parts are dishwasher safe except motor base		3	1

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E	170	Food Storage Canister Set- Set of 3 approximately 1.5 quart to 1.3 gallon, see-through, durable plastic/rubber, seal-tight lids		6	3
E	171	Forage Moisture Meter		1	0
E	172	Forceps- Artery, stainless steel, 5 3/4"		1	0
E	173	Framing Square, 24"- Blued steel, 24" x 2" body with 1/16" and 1/8" graduations on face and 1/16" graduations on back, 16" x 1 1/2" tongue with 1/16" and 1/8" graduations on face and 1/12" and 1/10" graduations on back, rafter tables, brace measure, octagon scale, board measure and 100th scale		4	2
E	174	Freeze Dryer or Vacuum Oven		1	0
E	175	Freezer- Chest or upright, 15 cubic foot capacity minimum, for storage of non-eatable laboratory consumables		1	1
E	176	Freezer- Home frozen food type, chest or upright, 15 cubic foot capacity minimum		1	1
C	177	Funnel- Kitchen type, 4" and 1/2" spout, durable plastic or stainless steel, dishwasher safe		16	8
C	178	Funnel, set of 3 up to 2 quarts		1	1
E	179	Gasoline Can, 2 1/2 Gallon- Safety type spout controlled by spring to hold cap closed tightly. Filtered pouring spout. Red with yellow precautionary lettering.		2	0
E	180	Gasoline Can, 5 Gallon Safety Type- Non flashback brass flame arrestor screen, red with yellow precautionary lettering		1	0
E	181	Gauge, Screw & Wire- Screw gauge 0 to 30, wire gauge (English Std.) 17 to 0000, wire gauge (Am. Std.) 15 to 0000, spring tempered steel, 4 1/2" long, 1 7/16" wide, polished finish		1	0
E	182	Gauge, Screw Pitch- V American National and U.S. Standard 60 degree threads, 30 pitches from 6 to 60 threads per inch and 11 1/2 and 27 pipe thread pitches, positive stop		1	0
E	183	Gauge, Sheet Metal- US Standard, range 0 to 36, hardened, satin finish		1	0
E	184	Gauge, Spark Plug - To contain 8 wires in sizes: .002, .025, .030, .032, .035, .038 and .040 plus electrode bender		1	0
E	185	Gauge, Steel Wire- American Steel and Wire Co., range 0 to 36, hardened, satin finish		1	0
E	186	Gauge, Thickness- 25 leaves ranging from .0015 to .040 inches thick, leaves 1/2" wide and 3 1/16" long, locking device		1	0
E	187	Gauge, Tire- For cars and light trucks, calibrated in 1 lb. units to 100 lbs., round head with button to depress valve core, 5 3/4" long		1	0
E	188	Gauges, Small Hole- Adjustable to size, hardened contacts, accurate gauging by two point contact, safety stop, approximately 2" long, five to set, one each in the following ranges: .125" to .150", .150" to .200", .200" to .300", .300" to .400", and .400" to .500"		1	0
E	189	Gauges, Telescoping- To consist of a handle on a fixed contact within which a contact plunger telescopes under spring tension, contacts are locked by a turn of the knurled screw, five to set: 1/2" to 3/4" to 1 1/4", 1 1/4" to 2 1/8", 2 1/8" to 3 1/2" and 3 1/3" to 6"		1	0
E	190	Gear and Wheel Puller- Reversible jaws, up to 6", reach 3 1/4"		1	0
E	191	Global Positioning System, Hand Held Receiver Unit to include attribute labeling of entries, data storage, capable of accepting GPS correction, output format to link to CAD of GIS systems. Accuracy Single fix 15 meter or industry standard. Time of fix position is less than 1 minute. Battery operated Backlit display.		1	0
C	192	Gloves, Chemical Resistant		12	12
C	193	Gloves, Steel Reinforced- for use cutting meats		10	1

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C	194	Gloves, Welding - Made of leather, with insulated liner, min. overall length 13" with wide cuff for protection		4	2
E	195	Glue Gun- Heat-resistant plastic housing, handle, 110-120 volt, 60 cycle, AC, UL listed		1	1
C	196	Goggles, Chemical Splash - Soft frame, single lens, stack strap vents, clear lens, elastic headband. May be worn over glasses. Meets ANSI Spec Z87.1.		28	28
E	197	Goggles, Welding - Rubber fixable frame, adjustable headband, ventilated, with 2" x 4 1/4" shade, No. 5 filter plate		4	0
C	198	Graduated Cylinder- 50 ml, heat resistant, polypropylene, autoclavable		14	7
E	199	Grain Grinder- Suitable for wheat, corn, rice, nuts, peanuts, etc., adjustable texture settings, table mount with clamping screw		1	0
E	200	Grain Moisture Meter		1	0
E	201	Grater/Shredder- 4 sided with various shredder sizes and styles, suitable for grating cheese, potatoes, etc.		2	1
E	202	Greenhouse- Poly carbonate ultraviolet resistant glazing, complete with benches, concrete walkway, floor drains, fully automated environmental controls.		1	1
E	203	Grinder, Electric Meat		1	0
E	204	Grinder, Hand Meat		1	0
E	205	Guards, Clipper- plastic, clip on No. 2, plucking blades		1	0
E	206	Hacksaw, Adjustable - Nickel plated steel frame, adjustable for 8", 10", or 12" blades, plastic pistol grip handle, complete with one blade		2	1
E	207	Hammer- Dead blow, one each 14 and 24 oz.		1	0
E	208	Hammer, Ball Peen- Set of 4, one each if approximate 12, 16, 24, and 48 oz.; drop forged ally steel, polished face and peen, wood handle		1	0
E	209	Hammer, Chipping - Standard duty cone and chisel head brazed to spiral steel handle		3	0
E	210	Hammer, Curved Claw, 16 Oz.		6	3
E	211	Hand Cards- Metal framed, 4" X 6", for illustrating manufacturing step in wool processing		1	0
E	212	Hand Saw, Crosscut, 8 Pt.- Hardened and tempered steel blade, taper ground, wood handle, 8 points per inch, 26" blade		1	0
E	213	Hand Truck- 1000 lb. capacity		1	1
E	214	Hands Lens		20	14
E	215	Heat Lamp, for swine or other animals		5	2
E	216	Heater- bucket water heater		1	0
E	217	Hoe, Garden Type- Heavy duty type, 6 1/4 " X 4 3/4" beveled blade, one piece forging		6	2
E	218	Hog Holder		1	0
E	219	Honey Bee Module Unit- complete with observation hive		1	0
E	220	Hoof Nipper- Double cutting jaws thin enough to cut through hoofs with little effort, suitable for cutting horseshoe nails, 14" long, cushion grip handles		1	0
C	221	Hose Connectors- Quick detachable, bayonet lock type, set to consist of 16 pieces as follows: 8 ea. Connector Valve, 1/4" NPT (female), 8 ea. Connector Stem, 1/4" NPT (female)		1	0
C	222	Hose Nozzle- Pistol-grip with automatic shut off, brass valves. Chrome plated.		3	0
E	223	Hose Reel- Durable poly frame, holds up to 200 ft. of 5/8" diameter hose, 3 ft. connector hose, stationary mount or wheel mount		4	0
C	224	Hose, Soaker- 25' vinyl construction, one end fitted with 3/4" female hose swivel adapter, other end with removable end for flushing.		8	0

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E	225	Hot plate, Laboratory Quality, Single Unit Buffet- Single range-type tubular, self-cleaning heating element, 1000 watts, 120V AC		7	4
E	226	Ice Cream Maker - 2 quart capacity, quick freeze type, 120 V. electric motor driven, or manual crank type.		5	3
E	227	Ignition Spark Tester *Landscaping		6	1
E	228	Increment Borer- High quality steel, three thread design, Teflon coated. Will extract .200 inch core. Six to twelve inch length. Complete with holster.		6	1
E	229	Increment Borer Sharpening Kit- Includes assortment of stones and lubricant with cork.		1	0
E	230	Incubators- Teaching unit, complete, for incubating microorganism cultures.		4	2
E	231	Insect Net- Sweep type		14	7
E	232	Instructors Demonstration Desk- Complete with water, gas, sink electricity, overhead mirror as needed for specific course		1	1
E	233	Jar lifter		1	1
E	234	Juice Extractor- Heavy duty, suitable for juicing carrots, apples, and other vegetables and fruits		1	0
E	235	Knife, Shearing - made from tool steel. Grooved wood safety handle. 14" blade, 5" handle.		1	0
E	236	Knives, Budding, 6 1/2"- Stationary hand forged blade		1	0
E	237	Knives, Grafting, 6 1/2"- Stationary hand forged blade		1	0
E	238	Knives, Meat Cutting		10	4
E	239	Knives, Paring- 3" blade, dishwasher safe, stainless steel		14	5
C	240	Laboratory Kit for Student Biological Studies		28	20
C	241	Laboratory Safety Chart for Animal Science- Approximately 36" X 36"		1	1
E	242	Laboratory Tables- To accommodate 4 students, with sinks, water and gas connections, student storage, and standard laboratory		7	6
E	243	Laboratory Techniques Chart Animals- Approximately 36" X 36"		1	1
E	244	Ladder, Fiberglass, Step, 6 Ft.- 300 lb. rating, high strength extended channel rails with slip resistant safety shoe, 6' standing height		1	0
E	245	Laminar Flow Hood, with UV light		1	0
E	246	Land Measuring Wheel- Heavy duty, long distance for agriculture measurement, records up to 100,000 ft. without resetting		1	1
C	247	Landscape Template		1	0
E	248	Laser Range finder- Measures yards or meters		1	1
E	249	Lawn Mower Blade Balancer		1	0
E	250	Level, Farm Type-12 power erecting telescope, 4 ft. minimum focus, rack and pinion external focusing and fixed cross hairs, 5 ft. stiff-leg tripod, leveling rod carrying case, plumb bob and direction hook.		1	1
E	251	Leveling Rod- Fiberglass, 25' extended, increments of feet, tenths and hundredths.		1	1
E	252	Light Garden- 4 tier, 3 tier, lighted, minimum of 4 foot 40 watt florescent bulbs watch tier, approximately 62" high, 49" long and 23" wide, complete with trays and automatic timer		3	0
E	253	Light Meter- To measure over a range of 10 to 10,000 foot candles.		1	0
E	254	Log Rule- Hickory stock, stainless steel oval head. Scales logs up to 36" diameter. Scribner Decimal C Scale.		1	0
C	255	Loin Eye Grid, USDA		1	0
E	256	Loom- 12", for illustrating the weaving in process in wool		1	0
E	257	Lopping Shears- Professional grade for heavy duty use. Teflon coated draw cut blades, wooden		1	0
E	258	Magnifier- Extension arm type, with built-in light unit, 5" 3 diopter glass lens		1	1

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E	259	Mallet, Carpenter's Wood - Barrel shaped head 2 1/2" x 3" diameter and 6" long, wood handle		1	0
C	260	Measuring Cup Set- glass or durable plastic, one each 8 oz, 16 oz, and 32 oz		14	7
C	261	Measuring Spoon Set- Durable plastic, graduated to 1/8 teaspoon		14	7
E	262	Measuring Stick- measures up to 76", built in spirit level, for measuring height of cattle and horses		1	0
E	263	Measuring Wheel- Steel 15" to 25" diameter wheel with resettable counter to 100,000. Folding handle with built in stand. Neoprene tire. Automatic brake to prevent back tracking.		1	0
E	264	Meat Cutting Board- Wood or plastic		1	0
C	265	Meat Quality Grading Cards (Set)- USDA		1	1
E	266	Meter, Dissolved Oxygen, LCD read-out w/ 12' cable		1	0
C	267	Metric System Laboratory Chart- Approximately 36" X 36"		1	1
E	268	Micro Video Projector, for use with microscope		1	1
E	269	Micrometer Depth Gauge- Satin-chrom finish on thimble and sleeve, graduated in thousands of an inch, hardened and ground screw and base, ratchet stop and lock nut, range 0" to 3", base length 3", to be furnished with three round rods and contained in wood case		1	0
E	270	Micrometer,(set), Outside (0-1", 1"-2",2"-3", 3"-4".)		1	0
E	271	Micrometers, Set, Inside Type- Graduated in thousands of an inch, 1 1/2" to 8" range, 5 tubular measuring rods, satin-chrome finish on head, hardened threads, handle for use in reaching deep holes, packed in wooden box.		1	0
E	272	Micro-Pipetter- Standard 4" medicine dropper with rubber bulb		1	1
E	273	Microscope Lens- Oil immersion		2	1
C	274	Microscope Slides- Glass with cover slips		4	1
E	275	Microscope- Stereo, 10X ocular lens, 4X, 10X, and 40X objective lens (par focal), stage with stage clips and iris diaphragm, coarse and fine adjustment, external light source such as 10W gooseneck lamp, removable lens for attachment of oil immersion lens		10	5
E	276	Microscope, Dissecting - With illuminator, 2X and 4X ratable objectives, adjustable interpupillary distance of 55 to 75 mm, large field of view and working distance		14	3
E	277	Microwave Oven- 1 cubic foot capacity minimum, 900 watts cooking power, electronic digital display		2	1
E	278	Mini Hydroponic Greenhouse		2	1
E	279	Mist Propagation/ Time Switch Controlled Unit		1	0
E	280	Mixer- Laboratory style, handheld electric, 5 speed		3	1
C	281	Mixing Bowl Sets- Unbreakable, odor and stain resistant, 1 each approximately 1.5, 2 and 3 quart size with sealing lids		14	7
C	282	Mixing Spoon Set, 3 spoons of various sizes, heat, odor and stain resistant, microwave and dishwasher safe		14	7
E	283	Module- Training, Agricultural Controls, system contains a complete set of components to carry out experiments in controlling electrical systems in agricultural applications		1	0
E	284	Module- Training, Basic Electricity and Electronics, includes the following: training board with all pre-mounted components, AC/DC power supply; courseware; computer assisted instruction package		1	0
E	285	Module- Training, CD-1 Exploring Power Technology, includes: complete workstation, steel workbench, 60" X 30" X 33", bench carrel, 60" X 16.5" X 20", 2 stools, 2 headsets, includes all engines, tools, assemblies and components for one workstation module		1	0

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E	286	Module- Training, Engineering Technology, includes student and instructor courseware, A/V and computer related instructional materials and all necessary supplies and equipment		1	0
E	287	Module- Training, Hydraulics, includes the following: premounted components with ball check quick disconnect fittings; courseware; computer sided instructional software		1	0
E	288	Module- Training, Mechanisms, includes the following: test panel, motor driven; hardware components; courseware; technology software		1	0
E	289	Module- Training, Precision Measuring, includes the following: student console; bench carrel; A/V equipment (2 persons); courseware; equipment package; automated lecture program		1	0
E	290	Module- Training, Wiring Skills, for 2 students, includes the following: mounting board; hardware components with trays; courseware; tool package. 4 to 8 student modules optional		1	0
E	291	Mortar, pestil, glass		7	4
E	292	Multi Media Kits- Including computer software, video and CD ROM for 15 modules in plant science		14	7
E	293	Multimedia Kits for Teaching Animal Science and Biotechnology- Including CD ROM, video computer software		14	7
E	294	Multimedia Workstations- IBM compatible or Macintosh		14	7
E	295	Multimeter- Volt, Ohm, ammeter		6	2
E	296	Multimeter, Digital, Hand-Held- General purpose model for a wide range of application; high resolution count display; protective holster with flex stand; Voltage AC-DC, Current Amps Ac-DC, Resistance (Ohms) Automatic touch hold; diode test, Audible Continuity beeper. Voltage - AC range 3.2/ 32 / 320 / 600; Dc range 320mV/ 3.2 / 32 / 320 / 600; Current - Amps AC 32m / 320m / 10 Amps DC 32m / 320m / 10; Resistance (Ohms) 320 / 3.2k / 32k / 320k / 3.2m / 32m.		1	1
E	297	Nose Tongs For cattle		1	0
C	298	Nozzle, Water Breaker		2	0
C	299	Nozzle, Water Hose- Pistol grip, chrome plated non-corroding zinc body, brass and chrome plated steel parts, plunger and trigger type valve control, lock-on device, filter end		2	0
E	300	Nursery Cart		1	0
E	301	Nursery Spade		1	1
C	302	Oven Mitts- All Teflon, quilted		14	7
E	303	Oven, Toaster Convection - .9 cubic feet minimum capacity, view glass door, insulated for cool exterior surfaces, fully adjustable temperature range up to 450 degrees F, continuous cleaning, adjustable cooking levels		1	0
E	304	Oxyacetylene Welding & Cutting Outfit- to consist of torch body; cutting attachment; set welding tips 1/16" to 1/8", 1/8" to 3/16" and 1/4" to 3/8" range; 1 set cutting tips 1/8" to 1/2", 1/4" to 7/8" and 1/2" to 1 1/2" range; 2 stage; 2 stage; 1 25 ft. hose; lighter, 10 pr. shields, vinyl cover; combination wrench		1	0
E	305	Peanut Butter Maker		2	0
E	306	Pelvimeter- for use in cattle to predict/prevent calving problems		1	0
E	307	pH Meter, portable		1	0
E	308	pH Tester- Pocket-size meter, waterproof		2	1
E	309	Pick-Up Tool- Designed to position and retrieve small objects, two claw finger that will open to 1", flexible section 8" long, overall length 17 3/4"		1	0
E	310	Pig Tooth Nipper- Designed to nip any teeth without cutting interior of pig's mouth, hinged spring in handles so instrument may be closed and carried in pocket, cutting jaws of surgical steel, chrome plated		1	0
E	311	Pipetter- 10 ML, 1/10 ml subdivisions		1	0

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E	312	Piston Ring, Compressor, Small Engine - Made especially for small engines, 1 1/2" to 3" diameter pistons, 2" high blue steel compression band, single tension band.		1	0
E	313	Plain Emasculator- Made from surgical steel, removable wing nut disassemble and cleaning and also for adjusting blades, chrome plated and polished, not to have double crushing blade		1	0
C	314	Plankton Net		2	1
E	315	Plant Display Cart- 5 tilting shelves, accommodates 1020 flats, 5" nylon or rubber wheels, pivoting front wheels for easy steering, fixed rear wheels, stainless/galvanized steel		1	0
E	316	Plant Study Center- 3 shelves with lights		1	0
E	317	Plant Tissue Testing Kit		14	1
C	318	Planting Bag, Tree - Neoprene coated nylon that is puncture, tear, abrasion and mildew resistant. Silicon coated stitches at all stress points. Double bottom with stay open corners. Nylon belt with no slip buckles.		1	0
E	319	Planting Bar, Tree- All metal alloy steel construction. Blade and footstep one-piece construction. Flat or pointed blade. 3" to 4" wide, 10" to 12" long blade. Bar 38" to 40" long.		1	0
E	320	Pliers, Combination, 6"- Slip joint, chrome plated, flat and curved jaws with sharp matching teeth, 6" long		6	6
E	321	Pliers, Diagonal Cutting, 8"- Side cutting, keen edged cutters and spring tempered handles, drop forged alloy steel, polished head, insulated and cushioned handles, milled teeth, long nose		14	7
E	322	Pliers, Interlocking Channel, 10"- Seven parallel jaw positions up to 2", chrome finish, 10" long		6	2
E	323	Pliers, Lineman's, 9"- Side cutting, keen edged cutters and spring tempered handles, drop forged alloy steel, polished head, insulated and cushioned handles, milled teeth		8	2
E	324	Pliers, Long Nose, 7"- Long nose with side cutter, natural steel finish with full polish, 7" long		10	2
E	325	Pliers, Vise Grip, 10"- Lever action to hold jaws in holding position, quick release for removing pressure, straight jaws, 1 5/8"		1	0
E	326	Plow, Push		1	0
E	327	Polarity and Circuit Tester- Direct current capacity from 2 to 18 volts, prod anchored in plastic handle, replaceable neon bulb, built in diode for polarity test, positive current to ignite bulb, but not negative current, 6 ft lead with bootied clip		4	1
E	328	Pole, Pruner		1	0
E	329	Post Hole Digger- Hinge type, 9" steel blades riveted to tell frame, 48" handles, to dig 6" diameter holes		1	1
E	330	Poultry cages- for holding birds 2'X2'		1	1
E	331	Preparation Cart- Three shelf cart for teacher demonstration materials, 800lb. capacity, 32" high, 5" rubber/nylon wheels, two rigid two swivel		1	0
E	332	Pressure Cooker/Canner- 8 quart capacity minimum, with tray, removable pressure control, selective pressure control, safety fuse, self-sealing gasket		1	1
E	333	Pressure Washer		1	0
E	334	Printer, Laser- 600 DPI resolution, 10 PPM output		2	1
E	335	Prism- English 10 factor, leather case.		1	0
E	336	Projection Screen		1	1
E	337	Propagation Mats- Electric with thermostat		2	1
C	338	Protractor Ruler- Plastic, protractor plus inches in 10ths and 20ths, 6"long.		10	0
E	339	Pruner, Hand		14	4

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E	340	Pruner, Tree - Lightweight aluminum or fiberglass, revolving arm. Teflon blades. Reach increased by additional add-on sections.		1	1
E	341	Pruning Shears, 8"- Anvil action V-shaped teflon coated blade, steel handles with cushion grips.		2	1
E	342	Punch and Chisel (12 pieces)- Set consisting of one each of 1/16", 3/32", 3/16", 1/8" pin punches, 3/8" center punch, 3/8" prick punch, 3/16" x 9" aligning punch, 5/32" x 7" aligning punch, 1/4", 1/2", 5/8" and 3/4" cold chisels, Chrome steel.		1	0
E	343	Rake, Garden - Heavy duty type.		6	2
E	344	Rake, Grading, 24"- Beveled teeth and back grading edge, 6 ft. tubular handle.		6	2
E	345	Rake, Lawn and Leaf - 60 in. long, fan-type, 22 tempered spring steel tines, 19 1/2 in. wide.		6	2
E	346	Rangefinder, impulse laser-Distance or height measurements up to 1640'		1	0
E	347	Refrigerator- 20 Cubic foot capacity minimum, with freezer compartment, for storage of non-eatable laboratory consumables		1	0
E	348	Refrigerator, 20 cubic foot capacity minimum, with freezer compartment		1	1
E	349	Relaskop, American scale- Reads in English units with a 66' correction scale		1	0
E	350	Reproductive Teaching Models- Including cow, chicken and swine		1	1
C	351	Reproductive Tract- preserved, cow		1	0
E	352	Respirator, Full Face- Wide vision polycarbonate scratch resistant anti-fog lens, low resistance filters and cartridges, perspiration relief port, face piece of silicon rubber. Replaceable cartridges to filter organic vapor and pesticides and assorted vapors/mists applications.		3	2
E	353	Ring Stand Lamps		1	0
E	354	Root Growth Chamber- walls slope inward to view growth of roots, 11" x 19 1/2" x 16 3/4".		1	1
C	355	Rubber Stoppers- Laboratory quality, #6		25	10
E	356	Safety Glass Storage Cabinet- Metal cabinet with door locks, UL approved electrical system. Timer controlled built in germicidal lamp for minimum of 28 pairs of safety glasses.		1	1
E	357	Sauce Pans- With cover, non-stick, 2 quart capacity		5	5
E	358	Saw Horse Folding		12	0
E	359	Saw, Portable Electric, 7 1/4" - Circular blade, continuous duty rating, ball-needle bearing, 5500 R.P.M. no-load speed, electric brake, 2 1/2" depth of cut at 90 degree blade setting, blade guard, complete with one combination blade. Electrical: 12.5 AMPS, 120V, 60 cycle A.C.		2	0
E	360	Saw, Rip Hand , 5 1/2 Pt.- Hardened and tempered steel blade, taper ground, wood handle, 5 1/2 points per inch, 26" blade		1	0
C	361	Scale Stick, Tree and Log- Scribner scale designed to measure tree diameter, tree height, board foot volume of trees and board foot volume of logs		4	1
C	362	Scale, Fuel Moisture - Universal type meets U.S. Forest Service Spec. 461 to include 10 hour fuel moisture sticks and support bracket		1	0
C	363	Scales, Architect and/or Engineers		28	2
E	364	Scanner		1	0
C	365	Scapal, Safety- 10 K, with replacement blades		1	1
E	366	Screen Sieve Set		2	1
E	367	Screwdriver - Assorted set (flat/phillips)		1	1
E	368	Screwdriver, Standard Blade Sets		1	0
E	369	Secchi Disk, with 30' nylon rope		2	1
E	370	Seine Net		1	0
E	371	Semen Tank- Complete with liquid nitrogen and management equipment.		1	0

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E	372	Service Floor Jack, 5 Ton- Hydraulic operated, heavy metal construction, with 5 ton minimum capacity		1	0
C	373	Serving Spoon- Perforated spoon, 14", stainless steel		10	5
E	374	Shaper, Hoof or Horn- Circular grinder for trimming cattle hooves		1	0
E	375	Shear, Kitchen Type- Suitable for vegetables, fruits, trimming meat, fish and poultry		5	3
E	376	Shears, Foot Rot - Sharp pointed, double blades. 8 3/4" or 9 3/4" long.		1	0
E	377	Shears, Sheep- Rigged pattern with buck strap, Sheffield steel, level ground, 6 1/2" size		1	0
E	378	Sheep Blocking Stand- Designed with adjustable headrest with small chain to secure head. Total size, 19" high x 48" long x 24" wide		1	0
E	379	Sheep Card- Straight tooth or bent wire, sizes #1 through 9		1	0
E	380	Shop Vacuum Cleaner- Industrial type		1	1
E	381	Shovel, Round Point		2	1
E	382	Shovel, Round Point D Handle - Heat treated steel blade 9 1/4" X 1/2" with forward turned step. 47" fiberglass handle.		8	4
E	383	Shovel, Square Point, 12"- 47", "D" fiberglass handle with rivets.		2	1
E	384	Shovel, Tile Spade Planting- High quality steel with 14" long 5" wide blade, full gusset along backspine with shoulder reinforcement. Fiberglass reinforced D handle.		4	2
E	385	Show,Box,Cattle/Swine/Sheep- Used to store, transport show supplies		1	0
E	386	Sieves- 20, 28, and 60 mesh		2	0
E	387	Simulator- Welding, computer controlled, simulates MIG, TIG and ARC welding conditions. Complete unit for English language, other languages available		1	0
C	388	Siphon Mixer- Sprays plant foods, chemicals and detergents. Connects to faucet and garden hose line. Brass suction tube, stainless steel strainer with backflow preventive check valve.		3	0
E	389	Sling Psychrometer- To measure relative humidity		2	1
E	390	Small Animal Teaching Unit- Complete with 15 units of various sizes ranging from 2 to 27 cubic feet, with sanitation equipment		1	1
E	391	Socket Set, Metric- 1/4", 3/8", 1/2" drives		2	1
E	392	Socket Sets, standard 1/4", 3/8", and 1/2" drives		2	1
E	393	Soil Auger- For tree feeding and soil testing, 2 in. diameter, 40 in. long with 6 in. twist, wood handle.		1	1
E	394	Soil Heating Cable, 60'- Lead-covered Electrical: 115 volts, 400 watts, 3.33 amperes, 60 cycle, single phase, thermostatic control furnished.		1	0
E	395	Soil Moisture Meter- Instantaneous reading, battery powered with 9 inch probe, battery included		1	0
E	396	Soil Sampler, 21"- Draw cut, chormium plated. T-handle of tublar steel.		1	1
E	397	Soil Test Kit- Reagents and equipment necessary to perform 100 to 300 diagnostic tests for the following chemicals: nitrates, phosphorous, potassium, acidity, magnesium, iron, aluminum, calcium, chloride, manganese.		1	1
E	398	Soil Thermometers- 20 to 180 degrees F., 4" probe, rust and water proof		4	2
E	399	Soluble Salts Tester- Designed to determine total soluble salts contents of soils. Calibrated for greenhouse soils. Accessories to be furnished: 1 ea. Epoxy dip conductivity cell with cell constant of 2.00/cm. 1 ea. Plantinize gold plated nicket electrodes.		1	0
E	400	Solvent Can, 5 Gallon- Made from material that will not be attacked by solvents, safety type equipped with non-flash-back flame arrestor, 5 gal. capacity.		1	1
E	401	Spark Plug Socket Set- One each 3/4", 5/8" and 13/16", 3/8" drive, chrome plated		1	1

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C	402	Spatula, Stainless Steel		6	4
E	403	Spinning Wheel- For illustration of spinning in the processing of wool		1	0
E	404	Sprayer, 2-3 Gallon- Polyethylene tank, brass pump, hose, extension tube and adjustable shoulder strap.		3	1
E	405	Sprayer, Backpack		2	0
E	406	Sprayer, Electrostatic - Low volume, hand held, uses water base pesticide mixtures. Three to five gal. capacity. Uses compressed air to spray a charged water mixture.		1	0
E	407	Spreader, Piston Ring - to install piston rings from 3/64" to 1/4" thick, ring opening in jaws of tool and closing handles to expand ring		1	0
E	408	Spreader, Seed and Fertilizer		1	0
E	409	Stereo Microscope- 10 X ocular lens, 4X, 10X and 40X objective lens (parfocal), stage clips and iris diaphragm, coarse and fine adjustment, external light source such as 10W gooseneck lamp, removable lens for attachment of oil immersion lens and cabinet		10	5
C	410	Stirring Rods- Polypropylene coated metal, 9mm X 300 mm long		5	1
E	411	Stirring Unit- Separate stirring and heating controls, 80-1400 rpm, 120 V		1	1
E	412	Stopwatch- Water and impact resistant. Displays hours down to 1/100 seconds. Lanyard and battery included. Digital display.		14	1
E	413	Storage Bin, Soil/Soil Ingredients		3	0
E	414	Storage Cabinet- Steel, 36" X 42" X 73" with adjustable shelves for storing and securing instructional materials.		3	1
E	415	Storage Cabinet, Metal Eyewear - Factory assembled with door locks and UL approved three-wire electrical system. Timer-controlled, built-in germicidal lamp. Size: 24 1/2" W X 9 1/4" D X 28" H		1	1
E	416	Stove, Standard- With oven and cooktop burners		1	1
E	417	Strainer Set- Stainless steel, one each size approximately 3", 6", and 8"		3	1
C	418	Syringe, Vet- 20 cc and 10 cc		1	0
E	419	Table, Hoof Trimming, Cattle Portable		1	0
E	420	Tables, Combination Arc and Gas- 1/2 table fire brick surface and 1/2 table steel grating. Heavy duty angle-iron construction.		1	0
E	421	Tachometer, Electronic		1	0
E	422	Tape, Diameter - Direct reading of diameter , increments in tenths, other side linear in feet 10ths and 100ths.		2	1
E	423	Tape, Logger's - Automatic rewind, 75' long. Spring wind automatic in to steel case hardened steel gears. Combination tape feet, 10ths, 100ths, one side. Other side 120" diameter inches, 10ths. Steel tape.		5	1
E	424	Tape, Measuring, 3/4" x 25' - Polished chrome case, togglelock control positioned on front of case, 3/4" wide steel blade on bearing supported nylon spool, black numerals oin white background, divided feet and inches to 16ths, foot marks and 16" centers clearly indentified.		1	0
E	425	Tape, Surveyor's- 100' graduated in 10ths and 100ths, fiberglass or me		1	1
E	426	Tattoo Set- Digit type, with automatic ear releast, tongs to handle 1/4" and 3/8" digits interchangeable and to hold four dies in a row; complete set to include tongs, 3/8" numbers from 0 to 9 and letter, with tattoo ink		1	0
E	427	Television Monitor- 25" screen cable ready 120 volts		1	1
C	428	Test Tube Brush- Multifan tip, brush 3", overall 10"		10	6
C	429	Test Tube Caps, different colors		50	50
E	430	Test Tube Holder- For up to 1" diameter test tubes		12	12
E	431	Test Tube Rack- 16 test tube capacity with drying pins Plastic autoclavable		6	6
C	432	Test Tubes- Standard 20 X 150 mm		100	25
E	433	Thermometer- High-low, records highest and lowest temperatures reached since previous settings and indicates current temperature, alcohol		2	0

Equipment / Consumable	Item Number	Agriscience Equipment List		Recommended	Industry Certification*
		Item Description			
		E=Equipment (life expectancy 5 or more years) C= Consumable (life expectancy less than 5 years) <i>*Contact Region Agricultural Education office for Industry Certification</i>			
E	434	Thermometer- Hydrometer- Float gauge in three colors with "Recharge", "Fair" and "Good" markings, range 1060 to 1320; recessed thermometer with range of 0 to 160 degrees, alcohol		2	0
E	435	Thermometer, Combination Confectionery/Deep Fry- 100o to 400o range, Fahrenheit and Celsius scales, alcohol		2	1
E	436	Thermometer, Meat- 6.75"L, recommended by National Livestock and Meat Board, Fahrenheit and Celsius scales, alcohol		1	1
E	437	Thermometer, Meat, alcohol		1	0
E	438	Thermometer, Veterinary, alcohol		1	0
E	439	Time Clock- 24 hour, 110 volt		2	1
E	440	Timer, LCD Electronic Display		6	3
E	441	Tongs, Utility- Stainless steel, plastic coated handles, dishwasher safe		6	3
E	442	Torch, Gas - Alcohol portable or Bunsen burner		1	1
E	443	Transit Level- Designed for use on any job where vertical and horizontal alignment or measuring is required. 20x power, length 10 1/2", min. focus 4' aperture 750", polyethylene case, plump bob, tripod and instruction manual included		1	0
E	444	Tree Caliper- Aluminum 24" capacity, graduated inches, and 10ths on both sides.		1	0
E	445	Tree Injector- Designed with cutting bit on the end of the injector which when thrown through the outer and inner bark or into the inner three will form a pocket into which is released the herbicide mixed with diesel, 1 gal. capacity tube, weight 11 lbs. when empty		1	0
E	446	Trouble Lamp- Three-conductor 16 gauge rubber covered cord 25' long, equipped with three-prong grounding plug, contoured rubber handle, swing-open guard with hook, 13 amps, 125 volts		3	0
E	447	Trowel, Cementer's - Spring steel blade, smooth turned natural finish wood handle, tang extends through handle, 14" long, 4" wide, 23 gauge		1	0
C	448	Trowel, Hand Soil		10	5
E	449	Turf Plunger- 2 in. diameter core 32 in. long handle with vinyl grips.		1	1
E	450	Ultraviolet Lamp		1	1
E	451	Utility Trailer- Two wheel, pneumatic tires, all-steel construction, 17 cu. ft., 1500 lb. capacity, lift-out tail gate.		1	0
E	452	Vacuum Cleaner, Industrial Type - Dry-wet model, 6 gallon steel tank mounted on two large wheels and one small swivel wheel, equipped with sturdy push handle, air flow of 100 CFM; powered by 1 1/2 H.P., 120 volt, AC motor, complete with cord and plug.		1	1
E	453	Vacuum Desiccator- Dry seal with sleeve valve		1	1
E	454	Valve Spring Compressor- Universal type, "C" - clamp, self-locking cam handle, full length threaded screw adjusting post, 7/8" through 2 1/2" spring diameters, 10 1/2" high, 9 1/2" wide; complete with low offset, medium offset and large straight jaws.		3	1
E	455	VCR and DVD Recorder/Player		2	1
E	456	Vegetable Peeler- Stainless steel, dishwasher safe		5	1
E	457	Video Zoom System, Micro- 27" monitor/receiver, CCD camera, zoom optics with stand, fiber optics, illuminator, power supply, annular light ring illuminator		1	0
E	458	Vise, Machinist- 4" jaws, 6" opening		3	0
E	459	Vise, Woodworking, 4" x 10" - Heavy semi-steel castings, solid aluminum handle, continuous screw type, size of jaws 4" x 10", maximum jaw opening 12", dog type front jaw.		4	0
E	460	Waders		4	3
E	461	wand, Lid (canning tool with magnet to remove lid from hot water)		8	2

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C	462	Water Hose- Double-reinforced rubber with permanently attached brass couplings.		4	2
E	463	Water Test Laboratory Module Kit- Complete for testing pH, dissolved oxygen, carbon dioxide, nitrates, phosphates, silica, calcium, magnesium, ammonia, chlorine, iron, nitrite, sulfate, sulfide, hardness, etc.		5	5
E	464	Watt Meter- AC/DC		1	0
E	465	Weed Cutter- Replaceable serrated blade 14" X 2 1/2", oval handle. Length 30" to 40".		1	0
E	466	Welder- Electric arc, 225 amp. AC, Transformer type, portable with wheels, machine to be furnished with the following accessories: input cable with wall plug, output cables, ground clamp, electrode holder and headshield		1	0
E	467	Welder's Helmet- Fiberglass, fixed front lens, 4 1/2" x 5 1/4" lens, with floating headgear and sweat band with minimum number 10 shade lens (number 12 preferred)		6	0
E	468	Welding Apron- Durable high quality leather constructed		6	0
E	469	Welding Tongs		3	0
E	470	Welding Torch Lighters		1	0
E	471	Wheelbarrow, Heavy duty		1	0
E	472	Wind Speed Indicator- Turbine suspended on jeweled bearings with rotations sensed by infrared light beam. Four settings include mph, knots, fpm, and mps. Accuracy 3% or 1/10 mph. Range 0-99 mph.		1	0
C	473	Wire Brush- All purpose, bent handle, brush part 1" wide and 6" long, overall length 14"		3	0
E	474	Wool Grading Kit- Seven samples		1	0
E	475	Wrecking Bar, 18"- Forged from high carbon octagon steel, standard bend, polished point and claw, 18 in. long, 3/4" hex stock		1	0
E	476	Wrenches, Combination (14)- Hot forged alloy steel, chrome plated 14 pcs. consisting of one each from 3/8" to 1 1/4" by 1/16ths.		1	0
E	477	Wrenches, Hex - "L" shape, long pattern, 14 pcs. ranging in size from .050" to 5/16"		1	0
E	478	Wrenches, Hex - "L" shape, long pattern, 9 pcs. ranging in size from 5/64" to 1/4"		1	0
E	479	Wrenches, Open End (6) - Hot forged alloy steel, chrome plated, 6 pieces, consisting of one each of the following: 1/4" x 5/16", 3/8" x 7/16", 1/2" x 9/16", 5/8" x 11/16", 3/4" x 13/16", 7/8" x 15/16".		1	0
E	480	Yogurt Maker, Electric- Thermostatically controlled, with five or more individual covered storage jars, 120V AC motor.		1	1