Materials	Unit	Cost per Unit	SOURCE
GRASS SEEDING:			
Alfalfa Forage Queen	lb	$ 3.85	Southern States Gassaway 4/30/09
Aliske Clover	lb	$ 1.79	Southern States Gassaway 4/30/09
American beechgrass culms	per culm	$ 0.25	Plant Materials Center - Alderson
Annual Ryegrass	lb	$ 0.78	
Aroostock rye certified	bushel (56 lb)	$ 13.00	Ernstseed.com March 2009
Big Bluestem, Niagra, certified	lb	$ 14.00	Ernstseed.com March 2009
Bluegrass, Kentucky SD	lb	$ 1.40	Braxton Farm Supply - 3/8/2010
Cinnamon Plus Clover	lb	$ 4.29	Southern States Gassaway 4/30/09
Critical Area Seed mix from NRCS payment schedule	acre	$ 1,204.90	
Crownvetch, "Penngift"	lb	$ 19.99	Southern States Gassaway 4/30/09
Crownvetch, "Hairy"	lb	$ 2.50	
Indiangrass "Rumsey"	lb	$ 11.00	Ernstseed.com March 2009
Japanese Millet	lb	$ 0.90	Ernstseed.com March 2009
Kentucky 31 tall fescue	lb	$ 0.80	Braxton Farm Supply - 3/8/2010
Ladino. Clover, white	lb	$ 4.17	$4.39 Southern States Beckley 3/09; $4.56 Southern States Philippi; $4.40 Southern States Moorefield; $3.34 C&H Feed Ripley 3/09
Lespedeza, bicolor	lb	$ 8.00	Ernstseed.com March 2009
Max Q fescue	lb	$ 4.50	Southern States Gassaway 4/30/09
Mammoth red clover	lb	$ 2.42	
Meadow / Pasture Mix	lb	$ 1.98	Braxton Farm Supply - 3/8/2010
Orchard grass, common	lb	$ 3.76	$3.88 Southern States Beckley 3/09; $3.60 Southern States Philippi; $3.80 Southern States Moorefield 3/09
Perennial Ryegrass	lb	$ 1.67	Braxton Farm Supply - 3/8/2010
Red clover	lb	$ 4.31	Southern States Gassaway 4/30/09
Red top	lb	$ 10.00	Ernstseed.com March 2009
Red Top 3	lb	$ 10.00	$10 Ernst Spring '08; $10.00 Southern States Philippi; $10.00 Southern States Moorefield 3/09
Switchgrass,"shelter", WV ecotype	lb	$ 6.00	Ernstseed.com March 2009
Timothy, common	lb	$ 1.49	Braxton Farm Supply - 3/8/2010
White Clover	lb	$ 3.59	Braxton Farm Supply - 3/8/2010
Wildflower-Forb Pollinator Mix (Custom seed mix)	lb	$ 250.00	Casey Shrader - personal communication
FORESTRY AND WILDLIFE MATERIALS			
25' roll 24" high chicken wire	lin ft	$ 0.39	Bruceton SS 05/09
3"-5" largemouth bass fingerlings	no	$ 0.90	WVU, Ken Semmens, May '08 Market Bulletin- price ok for 2009
3'+ rock and soil fill	cu yd	$ 20.00	personal communication - Keith Cranst
4' Tree shelter - direct seeding only, standard size	no	$ 5.39	Tree Pro 03/17/09
5' Tree shelter - tree planting, standard size	no	$ 6.50	Tree Pro 03/17/09
8"-12" certified sterile grass carp	no	$ 13.00	WVU, Ken Semmens, May '08 Market Bulletin- price ok for 2009
Alder & silky dogwood bareroot seedlings	sq ft	$ 14.17	Horseshoe Run sites
Bio Eng. Brush mattress	ft	$ 3.00	Horseshoe Run sites
Bio Eng. Dead stakes	no	$ 2.25	Horseshoe Run sites
Bio Eng. Fascine	ft	$ 1.67	Horseshoe Run sites
Bio Eng. Live stakes	no	$ 3.00	Horseshoe Run sites
Bio Eng. Root wads (covers about 5 linear feet of streambank)	no	$ 400.00	Knapps Creek sites
Bio Eng. Tree stake	no	$ 1.30	Tree Pro 05/07/08
Bluegill fingerlings	no	$ 0.50	WVU, Ken Semmens, May '08 Market Bulletin- price ok for 2009
Chicken Wire	ft	$ 0.19	
Conifer Tree/Shrubs, Bare Root	seedling	$ 0.88	Source: Musser and WV, VA, OH DOF Nurseries
Dam Removal	sq ft	$ 90.00	American Rivers
Deciduous Tree/Shrubs, Bare Root	seedling	$ 2.55	Source: Musser and WV, VA, OH DOF Nurseries
Fish ladder	vertical ft	$ 25,000.00	Univ. of Rhode Island
Fish Pond Habitat Structure	no	$ 56.38	WVDNR District Fisheries Biologist; '07 costs applicable to '08
Heavy Seed - acorn collection/purchase, storage	seedling	$ 0.02	Forestry expertise
Live Stakes	no	$ 3.00	
NSD in-stream structures	no.	$ 1,572.31	Multiple agency sources based on all types of NSD structures
Red spruce tubling (<500 quantity)	tubling	$ 2.30	Highland Conservancy
Red spruce tubling (>500 quantity)	tubling	$ 1.02	Highland Conservancy
Tree Shelter	no	$ 2.86	
Tree stake for 4' shelter - direct seeding only	no	$ 3.05	Tree Pro 03/17/09
Tree stake for 5' tree shelter	no	$ 3.64	Tree Pro 03/17/09

Materials	Unit	Cost per Unit	SOURCE
HERBICIDES/PESTICIDES/CHEMICALS			
Ag Lime, 40 # no..	no	$ 2.85	$3.20 Southern States Beckley 3/09; $2.49 Southern States Philippi 3/09
Ag Lime, by the bag, ton minimum, pickup price	ton	$ 120.00	
Crossbow	gallon	$ 71.00	Southern States Gassaway 4/30/09
Cull tree removal chemical	gallon	$ 100.00	WVDF, FLEP, contractors, personal communication, cost accurate for '09
Fertilizer 0-0-60 Potash, pickup price	ton	$ 530.00	Braxton Farm Supply 3/8/10
Fertilizer 10-10-10, bulk, pickup price	ton	$ 340.00	Braxton Farm Supply 3/8/10
Fertilizer 10-20-20, 50 # no..	no	$ 15.66	$16.99 Southern States Beckley 3/09; $16.99 Southern States Philippi; $12.99 Southern States Moorefield
Fertilizer 10-20-20, pickup price	ton	$ 455.00	Braxton Farm Supply 3/8/10
Fertilizer 18-46-0 DAP, pickup price	ton	$ 580.00	Braxton Farm Supply 3/8/10
Fertilizer 19-19-19, pickup price	ton	$ 510.00	Braxton Farm Supply 3/8/10
Fertilizer 5-10-10, bulk, pickup price	ton	$ 290.00	Braxton Farm Supply 3/8/10
Gly-4 (generic of Round Up)	gallon	$ 38.77	Southern States Gassaway 4/30/09
Grapevine removal chemical	gallon	$ 1.80	WVDF, FLEP, contractors, personal communication, cost accurate for '09
Greer Ag Lime, delivered 20 miles and spread	ton	$ 39.00	Bruceton SS 05/09
Greer Ag Lime, delivered over 20 miles and spread	ton	$ 33.33	
Hi Mag Lime, by the bag, ton minimum, pickup price	ton	$ 121.00	Southern States Gassaway 4/30/09
Inoculant (treats up to 60# seed)	acre	$ 5.00	Innoculant.com 4/30/09
Pellet Lime, by the bag, ton minimum, pickup price	ton	$ 179.50	Southern States Gassaway 4/30/09
Reward Aquatic Herbicide	gallon	$ 169.00	Ponds Rx website May 2009
Round Up (48% glyphosate formulation)	gallon	$ 43.06	Southern States Gassaway 4/30/09
Site prep/forest management chemical	gallon	$ 100.00	WVDF, FLEP, contractors, personal communication, cost accurate for '09
Urea 46-0-0, by the bag, ton minimum	ton	$ 582.00	Southern States Gassaway 4/30/09
WATER WELLS / PONDS			
12-2 pump wire	ft	$ 0.99	Beckley Tractor Supply 3/09
50 gallon pressure tank	no	$ 264.99	Beckley Tractor Supply 3/09
Bentonite, dry powdered (for pond sealing) 50 LB. bag	no	$ 15.33	NEMSCO, M-I Gel, Bridgeport WV 2/25/10
Electric box w/ weather proof breakers	no	$ 175.00	Buckeye FO 05/08;
Pump test for well yield	hour	$ 163.40	See Attached Drilling Information Sheet 3/09
Rope for water well	ft	$ 0.10	
Water well cap	no	$ 48.75	See Attached Drilling Information Sheet 3/09
Water well, casing	ft	$ 11.70	See Attached Drilling Information Sheet 3/09
Water well, drilling	ft	$ 12.60	See Attached Drilling Information Sheet 3/09
Water well, grouting	no	$ 218.30	See Attached Drilling Information Sheet 3/09
Water well, lining	ft	$ 5.10	See Attached Drilling Information Sheet 3/09
Well Decommissioning	no	$ 1,000.00	Remove pump, Grout and Cap Paul Hofe Drilling 12/08
STONE:			
#4 Stone -not delivered	ton	$ 12.56	See Cost Table
#1 gravel ASTM C33 -not delivered	ton	$ 19.95	See Cost Table
#57 Limerock gravel; not delivered	ton	$ 12.56	See Cost Table
#67 Limerock gravel; not delivered	ton	$ 12.56	See Cost Table
#8 Gravel, ASTM C-33 -not delivered	ton	$ 13.94	See Cost Table
1.5" Crusher Run Gravel - not delivered	ton	$ 10.07	See Cost Table
3"-9" riprap or field stone -not delivered	ton	$ 11.72	See Cost Table
3/4" Crusher Run Gravel -not delivered	ton	$ 10.07	See Cost Table
6"-15" rock D50-not delivered	ton	$ 14.50	See Cost Table
Boulders	ton	$ 23.00	
Chert/shale -not delivered	ton	$ 10.00	Dan Lynch local price for localized product
Clean sand (washed sand) #50 no-not delivered	no	$ 3.33	n/a from Greer by the ton; Lowes 983-3100 Morgantown
Delivery RipRap per ton - 20 miles	ton	$ 6.80	Greer; 3/28/09
Delivery stone per ton - 20 miles	ton	$ 5.00	Greer; 3/28/09
Delivery sand per ton - 20 miles	ton	$ 5.00	Greer; 3/28/10
Flat rate delivery charges for stone - job within 20 miles	ton	$ 6.00	
Flat rate delivery charges for stone - job within 40 miles	ton	$ 8.00	
Gabion Baskets (thickness >= 12 in., installed with rock)	cu yd	$ 300.00	D. Dodd's estimate
Gabion Mattresses (thickness < 32 in., installed with rock)	cu yd	$ 300.00	D. Dodd's estimate
Geotextile Fabric, Class II, Woven (500 SY/roll)	sq ft	$ 0.07	$0.06 Foster Supply, Scott Depot, WV 2/19/10
Geotextile Filter Fabric Class II Woven	sq ft	$ 0.12	Greenbrier Conservation District 3/09

Materials	Unit	Cost per Unit	SOURCE
Non-woven Filter Fabric - applicable for riprap (600 sq.yards)	roll	$ 400.00	
Screenings or Sand -not delivered	ton	$ 8.50	Greer; pickup price; delivery extra
CONCRETE PRODUCTS:			
3000 psi Concrete, bulk, w/ air (4+ yd3) w/in 20 miles of supplier	cu yd	$ 99.75	Central Supply, Elkins 2/25/10
4 Mil. Plastic sheeting (1 roll covers 150 sq ft.)	roll	$ 11.00	
4" PVC Waterstop, ribbed w/center bulb	ft	$ 0.83	Central Supply, Elkins, 50' roll (Model #RB4316) 2/25/10
4" x 1/2" Bituminous Material	ft	$ 0.50	Central Supply, Elkins, 10' joint 2/25/10
4000 psi Concrete, bulk, w/ air (4+ yd3) w/in 20 miles of supplier	cu yd	$ 103.75	Central Supply, Elkins 2/25/10
6 Mil. Perforated Plastic (28'x100')	no	$ 72.09	Builders Center Inc., Philippi ($51.49/2000 SF roll x 1.4) 2/25/10
6" PVC Waterstop, 3/8" thick, ribbed w/center bulb	ft	$ 2.80	Central Supply, Elkins, 50' roll (Model # RB638H) 2/25/10
Bituminous expansion joint- 1/2"	ft	$ 1.50	$1.50 D. Sweeney May 2008
CONCRETE COLUMN FORMS 16" DIA. X 4' LENGTH	no	$ 20.00	2/19/10 FOSTER SUPPLY; CENTRAL SUPPLY; WOLFORD CONTRACTORS SUPPLY
CONCRETE COLUMN FORMS 16" DIA. X 5' LENGTH	no	$ 25.00	2/19/10 FOSTER SUPPLY; CENTRAL SUPPLY; WOLFORD CONTRACTORS SUPPLY
CONCRETE COLUMN FORMS 18" DIA. X 4' LENGTH	no	$ 23.36	2/19/10 FOSTER SUPPLY; CENTRAL SUPPLY; WOLFORD CONTRACTORS SUPPLY
CONCRETE COLUMN FORMS 18" DIA. X 5' LENGTH	no	$ 29.20	2/19/10 FOSTER SUPPLY; CENTRAL SUPPLY; WOLFORD CONTRACTORS SUPPLY
CONCRETE COLUMN FORMS 20" DIA. X 4' LENGTH	no	$ 30.00	2/19/10 FOSTER SUPPLY; CENTRAL SUPPLY; WOLFORD CONTRACTORS SUPPLY
CONCRETE COLUMN FORMS 20" DIA. X 5' LENGTH	no	$ 37.50	2/19/10 FOSTER SUPPLY; CENTRAL SUPPLY; WOLFORD CONTRACTORS SUPPLY
CONCRETE COLUMN FORMS 24" DIA. X 4' LENGTH	no	$ 36.00	2/19/10 FOSTER SUPPLY; CENTRAL SUPPLY; WOLFORD CONTRACTORS SUPPLY
CONCRETE COLUMN FORMS 24" DIA. X 5' LENGTH	no	$ 45.00	2/19/10 FOSTER SUPPLY; CENTRAL SUPPLY; WOLFORD CONTRACTORS SUPPLY
CONCRETE COLUMN FORMS 30" DIA. X 4' LENGTH	no	$ 53.36	2/19/10 FOSTER SUPPLY; CENTRAL SUPPLY; WOLFORD CONTRACTORS SUPPLY
CONCRETE COLUMN FORMS 30" DIA. X 5' LENGTH	no	$ 66.70	2/19/10 FOSTER SUPPLY; CENTRAL SUPPLY; WOLFORD CONTRACTORS SUPPLY
CONCRETE COLUMN FORMS 36" DIA. X 4' LENGTH	no	$ 68.00	2/19/10 FOSTER SUPPLY; CENTRAL SUPPLY; WOLFORD CONTRACTORS SUPPLY
CONCRETE COLUMN FORMS 36" DIA. X 5' LENGTH	no	$ 85.00	2/19/10 FOSTER SUPPLY; CENTRAL SUPPLY; WOLFORD CONTRACTORS SUPPLY
Concrete collection box (7,480 gallon) built on site	no	$ 8,000.00	
Concrete Sealer (epoxy resin based coating for chem. resistance)	sq ft	$ 0.85	ChemMasters / Madison, Ohio, Duraguard 100 & 310 Parts A&B, 3/16/09
Concrete splash pad 2'x2'x1'	no	$ 17.63	
Concrete Sump Box, 32"x32"x3', 8" walls, reinf.,Type1 grate,DOH 18-24G	no	$ 950.00	2/19/10 Foster Supply, Scott Depot, price incl. ship 50mi. @ $150.00
Curing Compound, ASTM C-309, 5-gal. pail	gallon	$ 13.50	Central Supply, Elkins 2/25/10
ELASTOMERIC JOINT SEALER, 11 oz. tube	no	$ 4.27	Central Supply, Elkins, (Model #'s NP-1 & SL-1) 2/25/10
Level Gage for Concrete Manure Storage Tank	no	$ 100.00	Bill Smith design, Preston Co. WV; Area 3 est. 2/10
REBAR # 3 - Precut	ft	$ 0.32	2008 cost (need to verify for FY 10)
Rebar- 1/2" (#4-20' length)	ft	$ 0.25	Central Supply, Elkins 2/25/10
Rebar- 5/8" (#5-20' length)	ft	$ 0.38	Central Supply, Elkins 2/25/10
Rebar- 5/8" (#5) x 14"	ft	$ 1.38	Area 3 est. 2/10
Rebar- 5/8" (#5) x 20"	ft	$ 1.75	Area 3 est. 2/10
Sakrete, 80# no	no	$ 4.82	$4.49 S.J. Neathawk Lumber, Lewisburg 3/09
Welded Wire Fabric 6"x 6"x 8-gage	sq ft	$ 0.23	Central Supply, Elkins, 5'x10' sheets, 2/25/10
Welded Wire Fabric 6"x 6"x10-gage	sq ft	$ 0.09	Central Supply, Elkins, 5'x10' sheets, 2/25/10
FENCING:			
1.75" staples, #11230	lb	$ 2.29	Agri Supply April 2009
2.5" staples (25 lb box)	lb	$ 0.71	Tractor Supply Elkins 4/30/09
8 FOOT 6 BAR HVY. DUTY BULL GATE (GREEN)	no	$ 114.99	SOUTHERN STATES COOP. PHILIPPI WV. 2/16/10
10 FOOT 6 BAR HVY. DUTY BULL GATE (GREEN)	no	$ 129.99	SOUTHERN STATES COOP. PHILIPPI WV. 2/16/10
12 FOOT 6 BAR HVY. DUTY BULL GATE (GREEN)	no	$ 145.99	SOUTHERN STATES COOP. PHILIPPI WV. 2/16/10
12' x 8' gate for deer fence	num	$ 338.00	Pro Fence 1-800-433-6236
12 volt solar fence charger & panel (controls 200 acres) #55067	no	$ 218.95	Agri Supply April 2009
12.5 gauge high tensile wire, 4000 foot roll, 175,000 psi #11275	roll	$ 93.95	Agri Supply April 2009
14 FOOT 6 BAR HVY. DUTY BULL GATE (GREEN)	no	$ 157.99	SOUTHERN STATES COOP. PHILIPPI WV. 2/16/10
16 FOOT 6 BAR HVY. DUTY BULL GATE (GREEN)	no	$ 179.99	SOUTHERN STATES COOP. PHILIPPI WV. 2/16/10
18 FOOT 6 BAR HVY. DUTY BULL GATE (GREEN)	no	$ 203.99	SOUTHERN STATES COOP. PHILIPPI WV. 2/16/10
20 FOOT 6 BAR HVY. DUTY BULL GATE (GREEN)	no	$ 232.99	SOUTHERN STATES COOP. PHILIPPI WV. 2/16/10
36" pigtail step-in posts (10 pack)	package	$ 19.98	Tractor Supply Elkins 4/30/09
4 point barb wire, 15.5 gauge, 1320 foot roll (80 rods)	roll	$ 49.99	Tractor Supply Elkins 4/30/09
6 ' Metal t posts	no	$ 4.29	Tractor Supply Elkins 4/30/09
6 joule plug in fence charger (100 mile coverage)	no	$ 194.99	Tractor Supply Summersville 4/30/09
6 joule plugin battery fence charger (controls 600 acres) #55070	no	$ 175.95	Agri Supply April 2009
6 joule solar fence charge & panel (30 mile coverage) 12v, .5 joule	no	$ 349.99	Tractor Supply Beckley May 2008
6 volt 25 mile solar fence charger & solar panel #24888	no	$ 187.95	Agri Supply April 2009
8' Chain link safety fence inst. top of concrete tank, incl 2 no6' gates	ft	$ 51.00	Reeves Mt. State Fence, Aurora, WV $10,702; Alco Fence, Fairmont WV $10700, based on 210' wall, 3/17/09

Materials	Unit	Cost per Unit	SOURCE
Corner Knob Insulator H.D. 10 BAG #28119	bag	$ 1.79	Agri Supply April 2009
Corner Post Insulator, Black (10 per bag) #11346	bag	$ 7.68	Agri Supply April 2009
Crimp sleeve #43721 (100 per bag)	bag	$ 11.49	Agri Supply April 2009
Cut off double pole swtich	no	$ 9.49	Agri Supply April 2009
Electric 110V plug in fence charger .75 joule output, #55072	no	$ 99.95	Agri Supply April 2009
Grounding rod, 8' copper clad	no	$ 23.99	Huntington Coop 4/30/09
Grounding system clamp	no	$ 2.49	
Handle for strainer #11303	each	$ 4.99	Agri Supply April 2009
High tensile fence taps (10/pack) #36596	pack	$ 3.49	Agri Supply April 2009
Insulator lightning arrester kit with clamp #62365	no	$ 7.49	Agri Supply April 2009
Polyrope, 660 feet per roll	roll	$ 57.49	Agri Supply April 2009
Polywire reel, 1320 feet per roll, #38543	roll	$ 37.49	Agri Supply April 2009
Posts, pressure treated, 4-5" diameter, 6.5 feet long	no	$ 13.09	Huntington Coop 4/30/08
Posts, pressure treated, 4-5" diameter, 7 feet long	no	$ 7.65	Huntington Coop 4/30/09
Posts, pressure treated, 5-6" diameter, 7 feet long	no	$ 9.35	Huntington Coop 4/30/09
Posts, pressure treated, 4-5" diameter, 10 feet long	no	$ 12.25	Moorefield Southern States 4/30/09
Posts, pressure treated, 4-5" diameter, 8 feet long	no	$ 8.49	Tractor Supply Elkins 4/30/09
Posts, pressure treated, 4x4x8	no	$ 13.09	
Posts, pressure treated, 5-6" diameter, 8 feet long	no	$ 11.99	Tractor Supply Elkins 4/30/09
Posts, pressure treated, 6-7" diameter, 8 feet long	no	$ 14.98	Tractor Supply Elkins 4/30/09
Spring gate handle #28118	no	$ 4.49	Agri Supply April 2009
Temporary electric fence	ft	$ 1.20	NRCS estimate based on individual fence component prices May 2008
Tension measuring springs #11310	num	$ 5.49	Agri Supply April 2009
Tighteners	no	$ 3.00	
Welded woven wire, 48" tall, galvanized, 330 foot roll	roll	$ 159.99	Tractor Supply Elkins 4/30/09
Wire strainer #11304, #11303	each	$ 2.49	Agri Supply April 2009
Wrap Around Insulators #11354 (10 per bag)	bag	$ 9.99	Agri Supply April 2009
LUMBER:			
2"X 4"X 8' SYP #2	no	$ 3.21	Rigidply Rafters 2/18/10
2"X 4"X 10' SYP #2	no	$ 4.57	Rigidply Rafters 2/18/10
2"X 4"X 12' SYP #2	no	$ 5.47	Rigidply Rafters 2/18/10
2"X 4"X 14' SYP #2	no	$ 6.44	Rigidply Rafters 2/18/10
2"X 4"X 16' SYP #2	no	$ 8.28	Rigidply Rafters 2/18/10
2"X 4"X 18' SYP #2	no	$ 12.75	Rigidply RaFTers 2/19/09; Kennedy Konstruction 8/20/08
2"X 4"X 8' SPF #2	no	$ 2.83	Rigidply Rafters 2/18/10
2"X 4"X 10' SPF #2	no	$ 3.31	Rigidply Rafters 2/18/10
2"X 4"X 12' SPF #2	no	$ 3.98	Rigidply Rafters 2/18/10
2"X 4"X 14' SPF #2	no	$ 4.64	Rigidply Rafters 2/18/10
2"X 4"X 16' SPF #2	no	$ 5.30	Rigidply Rafters 2/18/10
2"X 4"X 18' SPF #2	no	$ 5.96	Rigidply Rafters 2/18/10
2"X 4"X 20' SPF #2	no	$ 6.72	Rigidply Rafters 2/18/10
2"X 4"X 8' SYP #2 OR SPF #2 PPT (AWPA - UC4A)	no	$ 3.46	Rigidply Rafters 2/18/10
2"X 4"X 10' SYP #2 OR SPF #2 PPT (AWPA - UC4A)	no	$ 4.27	Rigidply Rafters 2/18/10
2"X 4"X 12' SYP #2 OR SPF #2 PPT (AWPA - UC4A)	no	$ 5.16	Rigidply Rafters 2/18/10
2"X 4"X 16' SYP #2 OR SPF #2 PPT (AWPA - UC4A)	no	$ 7.48	Rigidply Rafters 2/18/10
2"X 4"X 18' SYP #2 OR SPF #2 PPT (AWPA - UC4A)	no	$ 16.50	Rigidply RaFTers 2/19/09; Kennedy Konstruction 8/20/08
2"X 6"X 8' SYP #2	no	$ 4.97	Rigidply Rafters 2/18/10
2"X 6"X 10' SYP #2	no	$ 6.48	Rigidply Rafters 2/18/10
2"X 6"X 12' SYP #2	no	$ 7.42	Rigidply Rafters 2/18/10
2"X 6"X 14' SYP #2	no	$ 8.84	Rigidply Rafters 2/18/10
2"X 6"X 16' SYP #2	no	$ 11.48	Rigidply Rafters 2/18/10
2"X 6"X 18' SYP #2	no	$ 14.63	Rigidply RaFTers 2/19/09; Kennedy Konstruction 8/20/08
2"X 6"X 8' SYP #2 PPT (AWPA - UC4A)	no	$ 5.46	Rigidply Rafters 2/18/10
2"X 6"X 10' SYP #2 PPT (AWPA - UC4A)	no	$ 6.86	Rigidply Rafters 2/18/10
2"X 6"X 12' SYP #2 PPT (AWPA - UC4A)	no	$ 8.23	Rigidply Rafters 2/18/10
2"X 6"X 14' SYP #2 PPT (AWPA - UC4A)	no	$ 9.62	Rigidply Rafters 2/18/10
2"X 6"X 16' SYP #2 PPT (AWPA - UC4A)	no	$ 11.21	Rigidply Rafters 2/18/10
2"X 6"X 18' SYP #2 PPT (AWPA - UC4A)	no	$ 16.88	Rigidply RaFTers 2/19/09; Kennedy Konstruction 8/20/08
2"X 8"X 8' SYP #2	no	$ 4.88	Rigidply RaFTers 2/19/09; Kennedy Konstruction 8/20/08
2"X 8"X 10' SYP #2	no	$ 9.34	Rigidply Rafters 2/18/10

Materials	Unit	Cost per Unit	SOURCE
2"X 8"X 12' SYP #2	no	$ 11.27	Rigidply Rafters 2/18/10
2"X 8"X 14' SYP #2	no	$ 13.37	Rigidply Rafters 2/18/10
2"X 8"X 16' SYP #2	no	$ 15.27	Rigidply Rafters 2/18/10
2"X 8"X 18' SYP #2	no	$ 17.47	Rigidply Rafters 2/18/10
2"X 8"X 20' SYP #2	no	$ 19.37	Rigidply Rafters 2/18/10
2"X 8"X 8' SYP #2 PPT (AWPA - UC4A)	no	$ 7.59	Rigidply Rafters 2/18/10
2"X 8"X 10' SYP #2 PPT (AWPA - UC4A)	no	$ 9.40	Rigidply Rafters 2/18/10
2"X 8"X 12' SYP #2 PPT (AWPA - UC4A)	no	$ 11.28	Rigidply Rafters 2/18/10
2"X 8"X 14' SYP #2 PPT (AWPA - UC4A)	no	$ 13.07	Rigidply Rafters 2/18/10
2"X 8"X 16' SYP #2 PPT (AWPA - UC4A)	no	$ 14.56	Rigidply Rafters 2/18/10
2"X 8"X 18' SYP #2 PPT (AWPA - UC4A)	no	$ 24.00	Rigidply RaFTers 2/19/09; Kennedy Konstruction 8/20/08
2"x10"x 8' SYP #2	no	$ 5.75	Rigidply RaFTers 2/19/09; Kennedy Konstruction 8/20/08
2"x10"x10' SYP #2	no	$ 13.80	Rigidply Rafters 2/18/10
2"x10"x12' SYP #2	no	$ 17.38	Rigidply Rafters 2/18/10
2"x10"x14' SYP #2	no	$ 20.91	Rigidply Rafters 2/18/10
2"x10"x16' SYP #2	no	$ 24.62	Rigidply Rafters 2/18/10
2"x10"x18' SYP #2	no	$ 27.30	Rigidply Rafters 2/18/10
2"x10"x 20' SYP #2	no	$ 30.77	Rigidply Rafters 2/18/10
2"x10"x 22' SYP #2	no	$ 36.90	Rigidply RaFTers 2/19/09; Kennedy Konstruction 8/20/08
2"X 10"X 8' SYP #2 PPT (AWPA - UC4A)	no	$ 10.29	Rigidply Rafters 2/18/10
2"X 10"X 10' SYP #2 PPT (AWPA - UC4A)	no	$ 12.80	Rigidply Rafters 2/18/10
2"X 10"X 12' SYP #2 PPT (AWPA - UC4A)	no	$ 15.60	Rigidply Rafters 2/18/10
2"X 10"X 14' SYP #2 PPT (AWPA - UC4A)	no	$ 17.85	Rigidply Rafters 2/18/10
2"X 10"X 16' SYP #2 PPT (AWPA - UC4A)	no	$ 20.80	Rigidply Rafters 2/18/10
2"X 10"X 18' SYP #2 PPT (AWPA - UC4A)	no	$ 28.13	Rigidply RaFTers 2/19/09; Kennedy Konstruction 8/20/08
2"X 10"X 20' SYP #2 PPT (AWPA - UC4A)	no	$ 34.49	Rigidply Rafters 2/18/10
2"X 10"X 22' SYP #2 PPT (AWPA - UC4A)	no	$ 48.13	Rigidply RaFTers 2/19/09; Kennedy Konstruction 8/20/08
2"x 12"x 8' SYP #2	no	$ 8.40	Rigidply RaFTers 2/19/09; Kennedy Konstruction 8/20/08
2"x 12"x 10' SYP #2	no	$ 18.18	Rigidply Rafters 2/18/10
2"x 12"x 12' SYP #2	no	$ 22.89	Rigidply Rafters 2/18/10
2"x 12"x 14' SYP #2	no	$ 25.94	Rigidply Rafters 2/18/10
2"x 12"x 16' SYP #2	no	$ 32.52	Rigidply Rafters 2/18/10
2"x 12"x 18' SYP #2	no	$ 38.93	Rigidply Rafters 2/18/10
2"x 12"x 20' SYP #2	no	$ 43.16	Rigidply Rafters 2/18/10
2"X 12"X 22' SYP #2	no	$ 44.27	Rigidply Rafters 2/18/10
2"X 12"X 24' SYP #2	no	$ 48.60	Rigidply Rafters 2/18/10
2"X 12"X 8' SYP #2 PPT (AWPA - UC4A)	no	$ 13.37	Rigidply Rafters 2/18/10
2"X 12"X 10' SYP #2 PPT (AWPA - UC4A)	no	$ 16.05	Rigidply Rafters 2/18/10
2"X 12"X 12' SYP #2 PPT (AWPA - UC4A)	no	$ 20.70	Rigidply Rafters 2/18/10
2"X 12"X 14' SYP #2 PPT (AWPA - UC4A)	no	$ 22.89	Rigidply Rafters 2/18/10
2"X 12"X 16' SYP #2 PPT (AWPA - UC4A)	no	$ 28.32	Rigidply Rafters 2/18/10
2"X 12"X 18' SYP #2 PPT (AWPA - UC4A)	no	$ 38.25	Rigidply RaFTers 2/19/09; Kennedy Konstruction 8/20/08
2"X 12"X 20' SYP #2 PPT (AWPA - UC4A)	no	$ 47.50	Rigidply RaFTers 2/19/09; Kennedy Konstruction 8/20/08
2"X 12"X 22' SYP #2 PPT (AWPA - UC4A)	no	$ 55.00	Rigidply RaFTers 2/19/09; Kennedy Konstruction 8/20/08
2"X 6"X 8' SYP #2 T&G PPT (AWPA - UC4A)	no	$ 6.86	Rigidply RaFTers 2/19/09; Kennedy Konstruction 8/20/08
2"X 6"X 10' SYP #2 T&G PPT (AWPA - UC4A)	no	$ 9.39	Rigidply Rafters 2/18/10
2"X 6"X 12' SYP #2 T&G PPT (AWPA - UC4A)	no	$ 11.21	Rigidply Rafters 2/18/10
2"X 6"X 14' SYP #2 T&G PPT (AWPA - UC4A)	no	$ 14.88	Rigidply RaFTers 2/19/09; Kennedy Konstruction 8/20/08
2"X 6"X 16' SYP #2 T&G PPT (AWPA - UC4A)	no	$ 15.10	Rigidply Rafters 2/18/10
POST, 6"X 6" X 8' SYP #2 PPT (AWPA - UC4B)	no	$ 16.96	Rigidply Rafters 2/18/10
POST, 6" X 6" X 10' SYP #2 PPT (AWPA - UC4B)	no	$ 21.42	Rigidply Rafters 2/18/10
POST, 6" X 6" X 12' SYP #2 PPT (AWPA - UC4B)	no	$ 27.59	Rigidply Rafters 2/18/10
POST, 6" X 6" X 14' SYP #2 PPT (AWPA - UC4B)	no	$ 30.30	Rigidply Rafters 2/18/10
POST, 6" X 6" X 16' SYP #2 PPT (AWPA - UC4B)	no	$ 34.99	Rigidply Rafters 2/18/10
POST, 6" X 6" X 18' SYP #2 PPT (AWPA - UC4B)	no	$ 54.03	Rigidply Rafters 2/18/10
POST, 6" X 6" X 20' SYP #2 PPT (AWPA - UC4B)	no	$ 66.12	Rigidply Rafters 2/18/10
POST, 6" X 6" X 22' SYP #2 PPT (AWPA - UC4B)	no	$ 79.56	Rigidply Rafters 2/18/10
POST, 6" X 6" X 24' SYP #2 PPT (AWPA - UC4B)	no	$ 98.28	Rigidply Rafters 2/18/10
POST, 6" X 6" X 26' SYP #2 PPT (AWPA - UC4B)	no	$ 125.78	Rigidply Rafters 2/18/10
POST, 6" X 6" X 28' SYP #2 PPT (AWPA - UC4B)	no	$ 142.85	Rigidply RaFTers 6/23/09
POST, 6" X 6" X 8' SYP #1 PPT (AWPA - UC4B)	no	$ 16.96	Rigidply Rafters 2/18/10
POST, 6" X 6" X 10' SYP #1 PPT (AWPA - UC4B)	no	$ 21.42	Rigidply Rafters 2/18/10

Materials	Unit	Cost per Unit	SOURCE
POST, 6" X 6" X 12' SYP #1 PPT (AWPA - UC4B)	no	$ 27.59	Rigidply Rafters 2/18/10
POST, 6" X 6" X 14' SYP #1 PPT (AWPA - UC4B)	no	$ 30.30	Rigidply Rafters 2/18/10
POST, 6" X 6" X 16' SYP #1 PPT (AWPA - UC4B)	no	$ 34.99	Rigidply Rafters 2/18/10
POST, 6" X 6" X 18' SYP #1 PPT (AWPA - UC4B)	no	$ 54.03	Rigidply Rafters 2/18/10
POST, 6" X 6" X 20' SYP #1 PPT (AWPA - UC4B)	no	$ 66.12	Rigidply Rafters 2/18/10
POST, 6" X 6" X 22' SYP #1 PPT (AWPA - UC4B)	no	$ 79.56	Rigidply Rafters 2/18/10
POST, 6" X 6" X 24' SYP #1 PPT (AWPA - UC4B)	no	$ 98.28	Rigidply Rafters 2/18/10
POST, 6" X 6" X 26' SYP #1 PPT (AWPA - UC4B)	no	$ 125.78	Rigidply Rafters 2/18/10
POST, 8"X 8" X 8' SYP #2 PPT (AWPA - UC4B)	no	$ 45.34	Rigidply RaFTers 2/19/09; Kennedy Konstruction 8/20/08
POST, 8" X 8" X 10' SYP #2 PPT (AWPA - UC4B)	no	$ 56.66	Rigidply RaFTers 2/19/09; Kennedy Konstruction 8/20/08
POST, 8" X 8" X 12' SYP #2 PPT (AWPA - UC4B)	no	$ 60.00	Rigidply RaFTers 2/19/09; Kennedy Konstruction 8/20/08
POST, 8" X 8" X 14' SYP #2 PPT (AWPA - UC4B)	no	$ 79.34	Rigidply RaFTers 2/19/09; Kennedy Konstruction 8/20/08
POST, 8" X 8" X 16' SYP #2 PPT (AWPA - UC4B)	no	$ 85.30	Rigidply RaFTers 2/19/09; Kennedy Konstruction 8/20/08
POST, 8' X 4 PLY 2"X 6" GLULAM PPT ENTIRE LENGTH	no	$ 47.76	Rigidply Rafters 2/18/10
POST, 10' X 4 PLY 2"X 6" GLULAM PPT ENTIRE LENGTH	no	$ 59.70	Rigidply Rafters 2/18/10
POST, 12' X 4 PLY 2"X 6" GLULAM PPT ENTIRE LENGTH	no	$ 71.64	Rigidply Rafters 2/18/10
POST, 14' X 4 PLY 2"X 6" GLULAM PPT ENTIRE LENGTH	no	$ 83.58	Rigidply Rafters 2/18/10
POST, 16' X 4 PLY 2"X 6" GLULAM PPT ENTIRE LENGTH	no	$ 95.52	Rigidply Rafters 2/18/10
POST, 18' X 4 PLY 2"X 6" GLULAM PPT ENTIRE LENGTH	no	$ 107.46	Rigidply Rafters 2/18/10
POST, 20' X 4 PLY 2"X 6" GLULAM PPT ENTIRE LENGTH	no	$ 119.40	Rigidply Rafters 2/18/10
POST, 22' X 4 PLY 2"X 6" GLULAM PPT ENTIRE LENGTH	no	$ 131.34	Rigidply Rafters 2/18/10
POST, 24' X 4 PLY 2"X 6" GLULAM PPT ENTIRE LENGTH	no	$ 143.28	Rigidply Rafters 2/18/10
POST, 26' X 4 PLY 2"X 6" GLULAM PPT ENTIRE LENGTH	no	$ 155.22	Rigidply Rafters 2/18/10
POST, 28' X 4 PLY 2"X 6" GLULAM PPT ENTIRE LENGTH	no	$ 167.16	Rigidply Rafters 2/18/10
POST, 30' X 4 PLY 2"X 6" GLULAM PPT ENTIRE LENGTH	no	$ 179.10	Rigidply Rafters 2/18/10
TRUSS, 20' SPAN W/1' O.H., 3:12, 4' C-C, MEETS WV-ENG 65, 82, 84	no	$ 43.55	Rigidply Rafters 2/18/10
TRUSS, 24' SPAN W/1' O.H., 3:12, 4' C-C, MEETS WV-ENG 65, 82, 84	no	$ 72.79	Rigidply Rafters 2/18/10
TRUSS, 30' SPAN W/1' O.H., 3:12, 4' C-C, MEETS WV-ENG 65, 82, 84	no	$ 94.23	Rigidply Rafters 2/18/10
TRUSS, 40' SPAN W/1' O.H., 3:12, 4' C-C, MEETS WV-ENG 65, 82, 84	no	$ 154.44	Rigidply Rafters 2/18/10
TRUSS, 40' SPAN W/3' O.H., 3:12, 4' C-C, MEETS WV-ENG 65, 82, 84	no	$ 162.19	Rigidply Rafters 2/18/10
TRUSS, 50' SPAN W/3' O.H., 3:12, 4' C-C, MEETS WV-ENG 65, 82, 84	no	$ 229.72	Rigidply Rafters 2/18/10
TRUSS, 54' SPAN W/1' O.H., 3:12, 4' C-C, MEETS WV-ENG 65, 82, 84	no	$ 248.09	Rigidply Rafters 2/18/10
MISCELLANEOUS BLDG. PRODUCTS:			
1 1/2" SIDING SCREWS / WASHER, Ptd. Galv.	lb	$ 5.73	Rigidply Rafters 2/22/10
1.75" Roofing Nails, galv.	lb	$ 2.53	Rigidply Rafters 2/22/10
29 GA. GRANDRIB 3 PLUS (36" Wide, Ptd. Galv.)	ft	$ 2.74	Rigidply Rafters 2/18/10
3/4" OSB Sheets, 4' x 8' sheet	no	$ 16.57	Rigidply Rafters 2/22/10
PVC Cleaner	quart	$ 8.60	
DOUBLE TRACK COVER (10' 2", 29 GA., Ptd. Galv.)	no	$ 14.31	Rigidply Rafters 2/18/10
Glue- 8 oz	no	$ 6.62	Plumping Supplies 03/09
Metal roof 3' wide, 29 Gage	ft	$ 3.26	
Metal siding for side (3' length) 29 Gage, sold by the foot	ft	$ 3.26	
Metal siding for side (12' length) 29 Gage	sheet	$ 36.37	
NAILS (COMMON WIRE) 12d	lb	$ 1.99	Rigidply Rafters 2/22/10
NAILS (COMMON WIRE) 16d	lb	$ 1.89	Rigidply Rafters 2/22/10
NAILS (COMMON WIRE) 20d	lb	$ 2.17	Rigidply Rafters 2/22/10
NAILS (HOT DIPPED GALV., THREADED) 10d	lb	$ 3.32	Rigidply Rafters 2/22/10
NAILS (HOT DIPPED GALV., THREADED) 16d	lb	$ 3.15	Rigidply Rafters 2/22/10
NAILS (HOT DIPPED GALV., THREADED) 20d	lb	$ 3.10	Rigidply Rafters 2/22/10
OUTSIDE CORNER / GABLE RAKE (10.5 FT., 29 GA., Ptd. Galv.)	no	$ 14.49	Rigidply Rafters 2/18/10
RIDGE CAP (10.5 FT., 29 GA., Ptd. Galv.)	no	$ 18.02	Rigidply Rafters 2/18/10
Trash Rack	no	$ 75.00	
ZEE TRIM (10.5 FT., 29 GA., Ptd. Galv.)	no	$ 5.36	Rigidply Rafters 2/18/10
TANKS / WATERING FACILITIES			
2' frost free yard hydrant	no	$ 49.99	Greenbrier Conservation District 3/09
Above ground plastic storage tanks 1,550 gallon	no	$ 729.99	Beckley Tractor Supply 3/09
Above ground plastic storage tanks 550 gallon	no	$ 379.99	Beckley Tractor Supply 3/09
Automatic waterer - 2 Hole Trough, heavy plastic	no	$ 622.46	$619.92 Beckley Tractor Supply 3/09

Materials	Unit	Cost per Unit	SOURCE
Automatic waterer - 4 Hole Trough, heavy plastic	no	$ 799.95	Beckley Tractor Supply 3/09
Concrete lid 18"x30"	no	$ 9.75	$12 Greenbrier Conservation District 3/09
Concrete reservoir, 1300 gal	no	$ 991.10	Princeton Pre-cast 3/09
Concrete reservoir, 1800 gal	no	$ 1,101.34	Princeton Pre-cast 3/09
Concrete reservoir, 2600 gal	no	$ 1,264.58	Princeton Pre-cast 3/09
Concrete reservoir, 900 gal	no	$ 793.94	Princeton Pre-cast 3/09
Concrete Trough (100gal) includes delivery	no	$ 633.00	Lewisburg Sibold Construction 3/09
Concrete Trough (400gal) includes delivery	no	$ 700.00	$694.30 Lewisburg Sibold Construction 3/09
Heavy equipment tire - 400 Gallon	no	$ 250.00	Lewisburg Gary Truex $200, Earl Tuckwiller $300 Avg $250
In ground poly tank 1200 gallon	no	$ 859.00	Beckley Priddy's Lumber Company 3/09
Plastic spring box 18"x36"	no	$ 40.00	$40 Greenbrier Conservation District 3/09
Spring Box Lid	no	$ 9.75	
Spring pipe kit	no	$ 55.00	
Portable heavy duty rubber stock tank 110 gallon	no	$ 59.95	Beckley Tractor Supply 3/09
Portable heavy duty rubber stock tank 150 gallon	no	$ 124.99	Beckley Tractor Supply 3/09
Portable heavy duty rubber stock tank 300 gallon	no	$ 209.99	Beckley Tractor Supply 3/09
Water trough pipe kit (adaptors, ells, clamps, standpipes)	no	$ 84.00	$84 Greenbrier Conservation District 3/09
FITTINGS, ETC.:			
1.25" metal to plastic adaptor	no	$ 3.50	Lewisburg Hajoca Pipe Supply 3/09
1.25" plastic valve	no	$ 14.10	CSV1 1" (BH)+3 S&H 03/10 - BB
1" Ell 90 degree, galvanized	no	$ 3.00	Mt. Clare field office May 2008
1"x6" stand pipe nipple, galvanized	no	$ 5.00	Mt. Clare field office May 2008
1.25" brass collars (needed for rubber tire trough, not in pipe kit	no	$ 7.64	West Fork CD 3/09
1.25" to .75" reducer/brushing (Galvanized)	no	$ 7.00	Lewisburg Martin Hardware 3/09
1.25" to 1.0" reducer/brushing	no	$ 3.00	
1" to 0.75" reducer/brushing	no	$ 3.00	
1" brass tee	no	$ 32.00	
1" brass gate valve	no	$ 20.00	
2" brass gate valve	no	$ 24.57	Koval's Morgantown May 2008
Irrigation MI 1/2" Swivel Tee, Self-flushing end	no	$ 1.35	Item no.. CEFCH Model R Berry Hill 03/09
Irrometer-12"	no	$ 65.00	Item no.. 112 Model R Berry Hill 03/09
spring box strainer plastic schedule 40 with cap	no	$ 6.00	Greenbrier District 3/09
Swing pvc check valves upto 3"	no	$ 42.01	
Watering Facility Float valve kit	no	$ 52.00	Lewisburg Martin Hardware $65, Greenbrier Conservation District $43 3/09
Irrigation Cycle Stop Valves 1 1/4 CSV 1.25 preset 40, 50, 60 psi with Antileak coupling	no	$ 170.00	CSV1 1" (BH)+3 S&H 03/10 - BB
Irrigation 2" intake strainer for surface pump	no	$ 9.50	Item no. RHS 2 Berry Hill 03/10 - BB
Watering Facility trough stand pipe nipple	no	$ 2.00	Lewisburg Martin Hardware 3/09
Well Pitless adaptor	no	$ 40.00	Lewisburg Tutwiller Drilling
PUMPS			
3/4 hp water well pump, 10 gpm	no	$ 755.00	
Irrigation PP Pump 2" intake strainer	no	$ 9.50	Item no.. RHS 2 Berry Hill 03/09
Irrigation Pump 3 HP @" In/Out Single Phase, w Control Box and Check Valve	no	$ 2,100.00	21300R3+$50 S&H 01/09
Irrigation Pump V-60 Goulds Water tank	no	$ 181.00	V-60+$20.00 S&H 04/09
Manure Trans Piston Pump, 7.5hp 1-ph, slurry-semisolid, 12"dischg.	no	$ 27,500.00	Jamesway Semi-Trans Piston Pump, hydraulic, w/inlet elbow, 4 valves, power pack, clamps; Penn Jersey Products, New Holland, Pa. 2/24/10
Manure transfer pump w/top agitation, tank side mount ESPC, PTO (goes w/31'&50' dia. tanks)	no	$ 25,000.00	Penn Jersey Products, Inc. New Holland, PA 2/24/10, incl.concr.walls and all labor
Manure transfer pump, center agitation, tank side mount ESPC, PTO (for the 73' dia. tank)	no	$ 34,000.00	Penn Jersey Products, Inc. New Holland, PA 2/24/10, incl.concr.walls and all labor
Pump hose 2"X20' flixible suction with strainer and pump connection	no	$ 85.96	Beckley Tractor Supply 3/09
Pump Valve 2" brass butterfly Sch 80 w/lever	no	$ 91.90	Berry Hill product no.. 017-02581 (phone 1-800-345-3747)01/09
Pump, ram (water) 2-inch	no	$ 498.00	The Ram Company (800)227-8511 3/09
Self priming 40 hp Honda motor mounted on cart w/ filter (TG IRRIGATION)	no	$ 1,250.00	TICO MANUFACTURING + $100 DELIVERY 2/10
Self Priming gas-, 5.5 HP 80 psi, 134 GPM, 141 head	no	$ 749.00	Beckley Honda 3/10
Slurry tractor pump w/ hoses, sprinkler irr., valves, cart	no	$ 6,500.00	Columbus Irrigation 04/09
Solar Pump System Complete 100' LiFT	no	$ 2,220.00	The Ram Company 2375, ETA Engineering 2065; Avg $2220 3/09
Solar Pump System Complete 230' LiFT	no	$ 2,980.00	The Ram Company 3550, ETA Engineering 2410; Avg $2980 3/09
Solar Pump System Complete 400' LiFT	no	$ 5,000.00	The Ram Company 3/09
Submersible sewage pump, 1/2 hp, 115v.elec., 3" dischg. pipe, w/float	no	$ 692.00	STA-RITE SCC750120M, Dairymen Specialty Co., Harrisonburg, VA, 2/19/10
Submersible, 2 hp - 7gpm	no	$ 1,583.00	Lewisburg Pro Well and Pump, LLC 3/09
Vert. Manure Slurry Pump, 15hp.3-phase elect., agitator, 4"dischg., 8' shaft	no	$ 8,000.00	Jamesway Vert.Elect. w/12" pump from Penn Jersey Products, 8,500, 2/24/10; Doda ME120, Doda USA, 7,400, 2/19/10;
Water well 1 hp- 7gpm	no	$ 915.00	Lewisburg Pro Well and Pump, LLC 3/09

Materials	Unit	Cost per Unit	SOURCE
Water Well -1.5 hp- 7gpm	no	$ 1,209.00	Lewisburg Pro Well and Pump, LLC 3/09
Water well 1/2 hp, 7 GPM	no	$ 638.00	Lewisburg Pro Well and Pump, LLC 3/09
Water well 3/4 hp-7 GPM	no	$ 797.00	Lewisburg Pro Well and Pump, LLC 3/09
MISC.:			
2x3 Downspout	ft	$ 1.03	Guttersupply.com internet includes 6% tax and 10% shipping 3/23/09
2x3 Downspout Leader	no	$ 0.99	Guttersupply.com internet includes 6% tax and 10% shipping 3/23/09
3x4 Downspout	ft	$ 1.61	Guttersupply.com internet includes 6% tax and 10% shipping 3/23/09
3x4 Downspout Leader	no	$ 2.26	Guttersupply.com internet includes 6% tax and 10% shipping 3/23/09
5K Alumino ELBOW	no	$ 1.36	Guttersupply.com internet includes 6% tax and 10% shipping 3/23/09
5K Alumino Gutter	ft	$ 3.85	Guttersupply.com internet includes 6% tax and 10% shipping 3/23/09
5K Alumino Gutter End Cap	no	$ 0.77	Guttersupply.com internet includes 6% tax and 10% shipping 3/23/09
5K Alumino Gutter Hanger	no	$ 0.50	Guttersupply.com internet includes 6% tax and 10% shipping 3/23/09
6K Alumino ELB.ow	no	$ 2.19	Guttersupply.com internet includes 6% tax and 10% shipping 3/23/09
6K Alumino Gutter	ft	$ 5.30	Guttersupply.com internet includes 6% tax and 10% shipping 3/23/09
6K Alumino Gutter End Cap	no	$ 1.82	Guttersupply.com internet includes 6% tax and 10% shipping 3/23/09
6K Alumino Gutter Hanger	no	$ 2.53	Guttersupply.com internet includes 6% tax and 10% shipping 3/23/09
Ben seal #50 no	no	$ 9.20	Braxton F.O... estimate
Compost Thermometer, stainless steel, 48" stem	no	$ 129.00	Forestry Suppliers catalogue #61, 2010-11
Construction of Water Bars	ft	$ 28.00	4-'15' long, 2' wide, 6" high, 2 hour to shape, grade and install -equation
Mulch hay	ton	$ 150.00	WVU Ext. hay4sale site 5/6/08; Market Bulletins '08
Plastic Mulch Row Cover 42" x 4,000 1.0 Mil	ft	$ 1.29	$109.00 + $20.00 shipping, Berry Hill 01/09
Rodent Guard - 6"	no	$ 2.00	$2.00 Kno.tts estimate; Bennett estimate in '04
Silt Fence DOT Grade 2- 3' x 100' roll, w/stakes 10'	ft	$ 0.87	www.Hardwareandtools.com (57.19+24.40)/100 01/09
Straw bale, 40#	no	$ 5.67	$6.25 Beckley Southern States 3/09
Waste Storage Tank, glass-lined steel panels, 31' dia. x 19' ht., no pump	no	$ 59,000.00	Penn Jersey Products, Inc., New Holland, Pa., 2/24/10
Waste Storage Tank, glass-lined steel panels, 50' dia. x 19' ht., no pump	no	$ 86,000.00	Penn Jersey Products, Inc., New Holland, Pa., 2/24/10
Waste Storage Tank, glass-lined steel panels, 73' dia. x 19' ht., no pump	no	$ 136,000.00	Penn Jersey Products, Inc., New Holland, Pa., 2/24/10
15' x 48' - Catamount Seriers manufactured by Rimol w/strapping system, ground posts 1.66", 14 ga. 1 315" box, 17 ga steel tubing, 6 mil 4 year polyethylene, 4ft box spacing, 5 purlins, roll up sides, end wall framing, wind brace kit, meets engineering IBC codes	no	$ 1,656.00	Rimol 2010
20' x 48' -Eastpoint Seriers manufactured by Rimol w/strapping system, plated ground posts 1.66", 14 ga. steel tubing, 6 mil 4 year polyethylene, 4ft box spacing, 5 purlins, roll up sides, end wall framing, wind brace kit, meets engineering	no	$ 4,494.00	Rimol 2010
30' x 72' -Nor'Eastpoint Seriers manufactured by Rimol w/strapping system, plated ground posts 1.90", 13 ga. steel tubing, 6 mil 4 year polyethylene, 4ft box spacing, 5 purlins, roll up sides, end wall framing, wind brace kit, meets engineering	no	$ 9,510.00	Rimol 2010
Headquarters- Energy Audit of Greenhouse < 5000 sq ft to evaluate heating, cooling, ventilation, lighting, water use, etc.	sq ft	$ 4,500.00	
Headquarters- Energy Audit of Greenhouse > 5000 sq ft to evaluate heating, cooling, ventilation, lighting, water use, etc.	sq ft	$ 13,500.00	
Plastic Barrel	no	$ 15.00	Sam Ware 5/10
TILE / PIPE:			
1" DIA polyethylene waterline, 500' roll	ft	$ 0.23	
2" AL. Line, 20' with bank and hook	no	$ 120.00	
Backwater, Flap Valve, 8" Diameter, PVC	no	$ 490.00	C.I.Thornburg, Huntingdon, W.V., Model #79BBWV08, 2/22/10
Couplers, 4", Sch. 40	no	$ 1.93	$2.64 AE Summit Supply Beckley
Couplers, 6", Sch. 40	no	$ 9.57	Lowes East Charleston 5/08; $8.39 AE Summit Supply Beckley; averaged
Coupler - Quick	no	$ 50.00	
Culvert 12" Dian. Corrugated Metal Pipe:- 16 gage - Galvanized	ft	$ 7.66	$6.40 HD Waterworks Supply Stonewood, WV May 2008
Culvert 18" Dia, Corrugated Metal Pipe: 16 gage - Galvanized	ft	$ 10.27	$8.70 HD Waterworks Supply Stonewood, WV May 2008
Culvert Pipe 7.25'x5.25'Alumino Pipe Arch	ft	$ 103.50	Contech Construction Products 3/09
Culvert Pipe, 24" Dia. HDPE, N12 -corrugated outside, smooth inside, 20' Jt.	ft	$ 14.00	Foster Supply, Scott Depot; H.D.Waterworks, Stonewood, WV, 2/19/10
Double Wall Polyethylene Pipe, corrugated out/smooth inside, 12"	ft	$ 4.90	
Drain Corrugated Plastic Pipe: 4"-non-perforated	ft	$ 0.48	Lowes 4/24/09 - $4.76 for 10', LOWES 304-983-3100
Drain Pipe 4" sock (netting material)	ft	$ 0.40	Lowes 4/24/09 - $3.97 for 10', LOWES 304-983-3100
Drain Pipe 6" sock (netting material)	ft	$ 0.90	Lowes 4/24/09 - $8.97 for 10', LOWES 304-983-3100
Drain Pipe Corrugated Plastic Pipe: 6"-Perforated and non-perforated	ft	$ 1.67	Lowes 4/24/09 - $166.77 for 100', LOWES 304-983-3100
Drain Tile, 4 inch flexible perforated tile line	ft	$ 0.49	Lewisburg S.J. Neathawk Lumber
Drain Tile, 4 inch, smooth wall PE	ft	$ 6.10	
Plastic Y, 4"	no	$ 3.00	
Drainage/Filter Diaphragm (sand collar, installed)	cu yd	$ 36.75	
Gate Valve, 8" Mech.Jt., epoxy-coated, cast iron w/gasket, flanges, bolts, handwheel	no	$ 719.00	C.I.Thornburg, Huntingdon, WV 2/19/10, Mueller Model A2360-6 or Clow Model F6102
Install pipeline >4" 2'-3' deep	per in dia	$ 1.20	
Install pipeline <=4" 2'-3' deep	per in dia	$ 1.00	
Irrigation Tape-non-Pressure compensated dripline,8 mil (6600' roll)	ft	$ 0.03	Aquatraxx , 12" spacing 10 mil 6000' roll-$170+ $25 shipping 01/09
Irrigation 1" Blue Strip (53 # (22 psi) 12 GPM, Blue Strip Poly Tubing	ft	$ 0.23	Item no.. POL010 660 Berry Hill (660' roll $130) + $20.00 shipping 01/09
Irrigation 1/2" Blue Strip (56# (26 psi), 4.5 GPM) Poly Tubing	ft	$ 0.12	Item no.. POL007 050 Berry Hill $48 (500' roll) + $10.00 shipping 03/09

Materials	Unit	Cost per Unit	SOURCE
Irrigation 2" Guardian AV w/ tee and riser 2x2x1.5"	no	$ 54.00	air vent at manifold and end 01/09
Irrigation 2" oval/flat tube	ft	$ 0.40	Item no.. FLAT020 450 Berry Hill (450' roll) 01/09
Irrigation 3/4" Blue Strip (56# (24 psi), 8GPM) Poly Tubing	ft	$ 0.16	Item no.. POL007 050 Berry Hill $73.00 (500' roll) + $10.00 shipping 03/09
Irrigation DP-400 S Punch	no	$ 24.50	Berry Hill Punch +3.50 ship 01/09
Irrigation Flowmeter 2"	no	$ 630.00	2" Netafim Flow meter, 36WMR2T10, 5-80 GPM Berryhill +$20.00 S&H 01/09
Irrigation MI 9 psi Pressure Regulator	no	$ 37.00	32PRV1.5-09V2K 01/09
Irrigation N-PC Microirrigation Kit,1,000 FT N PC tape, level, good for hoop structure (	no	$ 285.40	Berry Hill, GD500$265.4), includes Manifold, $20.00 ship
Irrigation PC Microirrigation Kit,1,000 FT PC tape, sloped terrain, filter	FT	$ 0.08	Berry Hill, GD600$310.4), $20.00 ship
Irrigation Microirrigation Kit,9,000 sq. FT area, AC., flat area, no pressure compensating	sq ft	$ 0.03	Berry Hill, GD500$269), includes Manifold, $20.00 ship, w 2 AV 01/09
Irrigation PC Microirrigation Kit,9,000 sq. FT area, AC., undulating area, pressure compensating	sq ft	$ 0.04	Berry Hill, GD500$269), includes Manifold, $20.00 ship+ 3 PR, 2 AV 01/09
Irrigation Pressure compensated dripline, 10 mil, 12" spacing	ft	$ 0.05	PC Aquatraxx , 12" spacing 10 mil 6000' roll-$245+ $25 shipping 04/09
Irrigation Rain and Timer (Battery Operated)-two valves	no	(100+30+10)	The Ace # 8410 + rain sensor ($30.00) + $8.00 S&H 4/09
Irrigation Sprinkler Head-Frost Control for 1" riser with tee	no	$ 19.00	Berry Hill, $6.50 +tees and riser +$ 0.50 S&H 4/09
Irrigation Valve Off/on	no	$ 1.75	Berry Hill, P6, .$1.50, $0.25 ship 3/09
Irrigation 2" AV/PRV	no	$ 29.50	Netafim 2" Guardian Berry Hill 03/09
Irrigation IWM Irrometer liquid filled pressure gauge 0-100 psi	no	$ 26.75	Model no.. #7-100LF 03/09
Irrigation MI 1.5" standard pressure regulator 7-40gpm	no	$ 37.00	Model no.. 32PRV1.5 Berry Hill 03/09
Micro Irrigation Plastic disc filter (100 GPM max, 140 mesh)	no	$ 250.00	Model no.. #PAL100 03/09
Micro Irrigation 2" Spin 200 Mesh disc filter	no	$ 260.00	API4 EH 2P 200 + $20S&H Berry Hill 03/09
Pressure Gages-Liquid Filled	no	$ 23.70	Berry Hill, page 18 & 21+ assembly 6.95 attachment) + 2.75 ship, 2/10
Irrigation PP Adjustable Pressure Switch (Heavy Duty)	no	$ 290.00	AB836C7A Bradley (BH)+20 S&H 03/09
Micro Irrigation Triton fiberglass sand filter -2 tanks, manual flush& valve max 70 GPM, with Filter Sand	no	$ 850.32	Model no.. TR60 (1551)+600 #Filter Sand +$500.00 trailer + shipping and installation 3-acres Berry Hill 03/09
Misc. couplers	no	$ 0.75	
Pipe 6" SCH 40 PVC TEE	no	$ 39.13	Hugharts 4/28/09 304-296-3121 (Elmo)
Pipe 6" SCH 40 PVC-6"x4" TEE	no	$ 43.25	Hugharts 4/28/09 304-296-3121 (Elmo)
Pipe 1" SCH 40 PVC Tee	no	$ 0.97	Hugharts 4/28/09 304-296-3121 (Elmo)
Pipe 1" SCH 40 PVC	ft	$ 0.66	Hugharts 4/28/09 304-296-3121 (Elmo);$6.55-10' section, Lowes $4.23/10'
Pipe 1" SCH 40 PVC 90 ell	no	$ 0.59	Hugharts 4/28/09 304-296-3121 (Elmo)
Pipe 1" SCH 40 PVC- Cap	no	$ 1.00	4/28/09 Lowes $1.13 4/28/09
Pipe 1" PVC SDR 32.5 psi	ft	$ 0.19	
Pipe 1.5" SCH 40 PVC 90 ell	no	$ 0.82	Hugharts 4/28/09 304-296-3121 (Elmo)
Pipe 1.5" SCH 40 PVC	ft	$ 0.54	Hugharts 4/28/09 304-296-3121 (Elmo);$5.4-10' section
Pipe 1.5" SCH 40 PVC-TEE	no	$ 0.97	Hugharts 4/28/09 304-296-3121 (Elmo)
Pipe 12" PVC SCH 40, bell end	ft	$ 12.75	HD Supply Waterworks, Stonewood, WV 2/19/10, 20' joint
Pipe 16" PVC SCH 40, bell end	ft	$ 23.75	HD Supply Waterworks, Stonewood, WV 2/19/10, 20' joint
Pipe 2" SCH 40 PVC 90 Deg. Ell	no	$ 1.57	4/28/09 Lowes $1.57 4/28/09
Pipe 2" SCH 40 PVC, bell end	ft	$ 0.61	HD Supply Waterworks, Stonewood, WV 2/19/10, 20' joint
Pipe 2" SCH 40 PVC- Cap	no	$ 0.53	4/28/09 Lowes $1.13 4/28/09
Pipe 2" SCH 40 PVC, 90 Deg Ell	no	$ 1.57	Lowes 4/24/09 - LOWES 304-983-3100
Pipe 2" SCH 40 PVC-TEE	no	$ 2.33	4/28/09 Lowes $2.33 4/28/09
Pipe 3" SCH 40 PVC	ft	$ 0.67	Hugharts 4/28/09 304-296-3121 (Elmo)-.$6.61/10'
Pipe 3" SCH 40 PVC	ft	$ 1.50	Hugharts 4/28/09 304-296-3121 (Elmo) $14.95/10' section
Pipe 3" SCH 40 PVC 90deg. Ell	no	$ 3.79	Hugharts 4/28/09 304-296-3121 (Elmo)
Pipe 3" SCH 40 PVC Endcap	no	$ 5.08	Hugharts 4/28/09 304-296-3121 (Elmo)
Pipe 3" SCH 40 PVC-TEE	no	$ 5.15	Hugharts 4/28/09 304-296-3121 (Elmo)
Pipe 3" SCH 40 PVC-WYE	no	$ 6.61	304-296-3121 (Elmo)- Gasketed High Pressure
Pipe 4" SCH 40 PVC	ft	$ 1.43	$0.85 Lowes Bridgeport; $1.38 Hardman Hardware Spencer 3/09, Hugharts 4/28/09 304-296-3121 (Elmo) $20.50/10' section
Pipe 4" SCH 40 PVC 90deg. Ell	no	$ 6.92	Hugharts 4/28/09 304-296-3121 (Elmo)
Pipe 4" SCH 40 PVC 45deg. Ell	no	$ 5.52	
Pipe 4" SCH 40 PVC Endcap	no	$ 7.26	Hugharts 4/28/09 304-296-3121 (Elmo)
Pipe 4" SCH 40 PVC-TEE	no	$ 4.96	Hugharts 4/28/09 304-296-3121 (Elmo)
Pipe 4" SCH 40 PVC-WYE	no	$ 8.99	$5.89 Lewisburg S.J. Neathawk Lumber, $11.99 Hugharts 4/28/09 304-296-3121 (Elmo)-Gasketed High Pressure
Pipe 4" SDR 35 PVC	ft	$ 0.87	Hugharts 4/28/09 304-296-3121 (Elmo)- Gasketed High Pressure 10' section
Pipe 4" SDR 35 PVC, 90 DEG ELL	no	$ 11.70	Hugharts 4/28/09 304-296-3121 (Elmo)- Gasketed High Pressure
Pipe 4"SDR 35 PVC - TEE	no	$ 17.86	Hugharts 4/28/09 304-296-3121 (Elmo)- Gasketed High Pressure
Pipe 6" PVC, Sch.40 PVC, bell end	ft	$ 3.95	HD Supply Waterworks, Stonewood, WV 2/19/10, 20' section
Pipe 6" SCH 40 PVC- 6" TO 4" Bushing Reducer	no	$ 16.84	Hugharts 4/28/09 304-296-3121 (Elmo)
Pipe 6" SCH 40 PVC 90deg. Ell	no	$ 24.26	Hugharts 4/28/09 304-296-3121 (Elmo)
Pipe 6" SCH 40 PVC bushing 4" X 6"	no	$ 16.84	$9.75 HD Waterworks Supply Stonewood 5/08; $17.59 AE Summit Supply Beckley; averaged
Pipe 6" SCH 40 PVC Endcap	no	$ 13.68	Hugharts 4/28/09 304-296-3121 (Elmo)
Pipe 6" SCH 40 PVC -WYE	no	$ 36.19	Hugharts 4/28/09 304-296-3121 (Elmo)
Pipe 6" SCH 40 PVC-TEE	no	$ 39.13	Hugharts 4/28/09 304-296-3121 (Elmo)
Pipe 6" SDR 35 PVC 90 Ell - Gasketed High Pressure	no	$ 21.50	Hugharts 4/28/09 304-296-3121 (Elmo), Gasketed High Pressure
Pipe 6" SDR 35 PVC- 6" TO 4" Bushing Reducer	no	$ 16.70	Hugharts 4/14/09 304-296-3121 (Elmo), Gasketed High Pressure

Materials	Unit	Cost per Unit	SOURCE
Pipe 6" SDR 35 PVC Pipe	ft	$ 2.33	Hugharts 4/14/09 23.25/10' 304-296-3121 (Elmo), -$23.25/10' section -Gasketed High Pressure
Pipe 6" SDR 35 PVC TEE	no	$ 45.05	Hugharts 4/14/09 23.25/10' 304-296-3121 (Elmo), -$45.05 Gasketed High Pressure
Pipe 8" PVC SCH 40, bell end	ft	$ 5.55	HD Supply Waterworks, Stonewood, WV 2/19/10, 20' section
Pipe Water 1.25" Black PE, 160 psi	ft	$ 1.07	$1.25 Lewisburg S.J. Neathawk Lumber
Pipe Water 1.25" galvanized couple	no	$ 2.59	Lewisburg S.J. Neathawk Lumber 3/09
Pipe Water 1.25" galvanized ell	no	$ 4.38	$3.49 Lewisburg S.J. Neathawk Lumber 3/09
Pipe Water 1.25" galvanized pipe	ft	$ 2.85	Lewisburg S.J. Neathawk Lumber 3/09
Pipe water 1.25" plastic couple (water supply)	no	$ 0.99	Lewisburg S.J. Neathawk Lumber 3/09
Pipe Water 1.25" plastic T (water supply)	no	$ 2.39	Lewisburg S.J. Neathawk Lumber 3/09
Pipe Water 1.25" schedule 40 couple	no	$ 1.10	Lewisburg Hajoca Pipe Supply 3/09
Pipe Water 1.25" schedule 40 ell	no	$ 1.80	Lewisburg Hajoca Pipe Supply 3/09
Pipe Water 1.25" schedule 40 pipe	ft	$ 0.50	Lewisburg Hajoca Pipe Supply 3/09
Pipe Water 1.25" schedule 40 T	no	$ 2.10	Lewisburg Hajoca Pipe Supply 3/09
Removable steel post caps	no	$ 35.00	East Area estimate, 2/10
Small Traveling Gun System w/drag hose for > 5 ac.	no	$ 6,000.00	Irrigation Traveling Gun, Reel & Cart, B140x350' hose, 1.4" ID, Nelson SR75 Gun, 27-60 GPM, 147'-191' , 3 risers -serve 5 AC.s or more Mid Atlantic 434-390-7385 5600+400 freight, 4./28/09
Steel Pipe, 5" diameter, 10' length (Removable Steel Post)	no	$ 95.00	Cumberland Pipe & Steel, 3/13/09
EQUIPMENT:			
4 wheeler or equivalent w/ attachment; no labor	hour	$ 24.00	WVCD rates; local rates; +5% for fuel increases
Chainsaw, equipment only; no labor	hour	$ 5.00	source: rental rate blue book - A. Deichert; May 2008
Chainsaw, 20-in 6Cl no labor	hour	$ 4.04	source: 2009 1st half Rental Rate Blue Book - BB 05/09
Electric backpack sprayer #59540	each	$ 187.50	Agri Supply 4/30/09
Heavy duty blade weedeater	each	$ 300.00	estimated from various models
On Highway Light Duty Truck, 1.5 ton, gasoline 4x4; no labor	hour	$ 31.85	source: rental rate blue book - 2008 2nd, BB 0509
Tractor 30+ HP w/ attachment; no labor	hour	$ 37.00	WVCD rates; local rates; +5% for fuel increases
CONSTRUCTION EQUIPMENT:			
Dozer D4 Standard Crawler Caterpiller D4GXL 80 HP (use for <90HP) V-1, Sect9;p.49	hour	$57.71	source: rental rate blue book - 2008 2nd, BB 0509
Dozer D5 Standard Crawler - Caterpiller D5M 110 HP, (use for >=90HP<130HP) V-1, weekly adjusted; no labor	hour	$70.18	source: rental rate blue book - 2008 2nd, BB 0509
Dozer D6 Standard Crawler - Caterpiller D6MXL 140 HP, (use for >130HP) V-1, weekly adjusted; no labor	hour	$ 86.50	source: rental rate blue book - 2008 2nd, BB 0509
<30 HP Excavator Crawler Mounted Compact ; 2.3 CF, 27.5 HP, V-1, weekly adjusted; no labor	hour	$16.72	source: rental rate blue book - 2008 2nd, BB 0509
30-80 HP Excavator Crawler Mounted Hydraulic 0.39 CY, 79 HP, 311 C L, Cat, weekly adjusted; no	hour	$57.67	source: MPE Rental 304-366-4700 $60.00/day and rental rate blue book - 2008 2nd, BB 0509
81-130 HP-Excavator Crawler Mounted Hydraulic , 318 CL, Cat, 125 HP, 0.71 CY, weekly adjusted;	hour	$86.86	source: rental rate blue book - 2008 2nd, BB 0509
>130 HP- Excavator Crawler Mounted Hydraulic , 318 CL, Cat, 168 HP, 1.5 CY, weekly adjusted; no	hour	$117.17	source: rental rate blue book - 2008 2nd, BB 0509
Backhoe (Rubber Tire) 580 Tractor Loader Super M 4WD 1 CY 90 HP,	hour	$43.76	source: rental rate blue book - 2008 2nd, BB 0509V1 Sect 9; p23
Tandem rear dump - 50,000 GVW 10-12 CY-400 hp diesel	hour	$80.90	source: rental rate blue book - 2008 2nd, BB 0509
Articulated crane (only) for truck mounting; adjusted daily, no labor	hour	$13.37	source: 2009 1st half Rental Rate Blue Book - BB 05/09
Wacker -Packard Hand Held Rammer 13"-17"Shoe Plate Compactor ,5,200; 4.5 HP, daily adjusted,	hour	$10.10	source: Used MPE Rentals $60.00/day 304-296-6155 a + operation costs $2.60- BB 05/09
Self Priming Traash 8.5 HPpump, 3" suction/discharge hose	hour	$9.10	source: 2009 1st half Rental Rate Blue Book - BB 05/09
Sakrete, 80# no	hour	$ 13.37	source: rental rate blue book - A. Deichert; May 2008
PUMP FOR DEWATERING & AUX. GENERATOR	hour	$ 150.00	
Hand Held 21" Vib. Plate Compactor 4,000 to 5,900 #/blow 6 HP, Gas, daily adjusted, no labor	hour	$ 7.00	source: 2009 1st half Rental Rate Blue Book - BB 05/09
LABOR:			
1 Day Grazing Training	each	$ 200.00	NRCS agronomist
1 Day Nutrient Management Training	each	$ 200.00	NRCS agronomist
AgEMP Development Cost - Field Crop 1 - 49 acres	each	$ 950.00	NRCS agronomist
AgEMP Development Cost - Field Crop 50 - 499 acres	each	$ 1,200.00	NRCS agronomist
AgEMP Development Cost - Livestock <70 AU	each	$ 1,250.00	NRCS agronomist
AgEMP Development Cost - Livestock 211 - 3000 AU	each	$ 2,000.00	NRCS agronomist
AgEMP Development Cost - Livestock 70 - 210 AU	each	$ 1,500.00	NRCS agronomist
Calibration	hour	$ 19.00	NRCS agronomist
CNMP Development Cost - Large Beef and Dairy	each	$ 9,000.00	NRCS agronomist
CNMP Development Cost - Large Poultry	each	$ 8,000.00	NRCS agronomist
CNMP Development Cost - Medium Beef and Dairy	each	$ 7,500.00	NRCS agronomist
CNMP Development Cost - Medium Poultry	each	$ 6,500.00	NRCS agronomist
CNMP Development Cost - Small Beef and Dairy	each	$ 4,800.00	NRCS agronomist
CNMP Development Cost - Small Poultry	each	$ 3,800.00	NRCS agronomist
Conservation Plan Supporting Organic Transition	hour	$ 50.00	NRCS agronomist

Materials	Unit	Cost per Unit	SOURCE
Construction Equipment Operator	hour	$ 26.00	WV econo.mic summary 3rd quarter '07;
Custom Smart Spray 10	acre	$ 41.57	NRCS agronomist
Custom Smart Spray 6	acre	$ 33.00	NRCS agronomist
Custom Smart Spray 8	acre	$ 38.00	NRCS agronomist
Goats, dog, herder for eight hours	acre	$ 720.00	Source: WVU Ext (R. Chandrin & T. Basden '07)
IPM Development Cost - Tree and Truck	hour	$ 19.00	NRCS agronomist
IPM Resource Data Collection	each	$ 1,000.00	NRCS agronomist
Irrigation water management - 30 minutes per AC	acre	$ 14.00	Professional Service hourly wage - WV Economic Summary March 2009
Manual Labor	hour	$ 15.00	WV econo.mic summary 3rd quarter '07;Southern Conservation District 3/09;
Nitrogen Testing	acre	$ 3.00	NRCS agronomist
NMP Development Cost - Small CAP	each	$ 2,000.00	NRCS agronomist
NMP Development Cost - Large CAP	each	$ 3,750.00	NRCS agronomist
Precision Soil Sampling and Mapping	acre	$ 12.00	NRCS agronomist
Precision Variable Rate Spreading	acre	$ 15.00	NRCS agronomist
Precision Yield Monitoring and Data Collection	acre	$ 3.00	NRCS agronomist
Skilled labor / Farm Machinery Operator	hour	$ 19.00	WV econo.mic summary 3rd quarter '07;Southern Conservation District 3/09;
MOBILIZATION /DE-MOBILIZATION OPTIONS	**Unit**	**Cost per Unit**	
Mobilization for construction equipment - <=2 pieces equipment	no.	$ 250.00	estimated
MANAGEMENT PRACTICES			
Application of reduced- risk pesticides	acre	$ 60.00	Professional Services hourly wage - WV Economic Summary March 2009;
Certified Applicator License CEUs	hour	$ 17.00	Professional Services hourly wage - WV Economic Summary March 2009;
Complete a minimum of 300 pts on scoresheet	acre	$ 48.00	Source: Dr. H. Hogmire, WVU Ext. & Professor of Entomology; wage applicable for 2009
Conference registration costs	hour	$ 17.00	Professional Services hourly wage - WV Economic Summary March 2009;
Design, supervise, and site visits for IPM plan	acre	$ 14.00	Professional Services hourly wage - WV Economic Summary March 2009;
Energy Audits for Greenhouses	sq ft	$ 0.20	Rebecca McLeod
Field checks, control competing vegetation, replant	seedling	$ 0.06	formula B. McWhorter
Irrigation water management - 15 minutes per AC.	hour	$ 19.00	Professional Services hourly wage - WV Econo.mic Summary 3rd quarter 2007; applicable for 2009
Manure sampling & analysis	sample	$ 17.00	Professional Services hourly wage - WV Economic Summary March 2009;
Mgt Plan Development	hour	$ 17.00	Professional Services hourly wage - WV Economic Summary March 2009;
On-site weather instrumentation or SkyBit subscription	acre	$ 23.00	2009
Weather Station	no	$ 70.00	
Weather Station 150' range	no	$ 68.00	www.vantagevue 3/21/10 BB
Phermone mating disruption dispenser	acre	$ 153.00	Source: Dr. H. Hogmire, WVU Ext. & Professor of Entomology; wage applicable for 2009
Professional forester technical assistance costs	hour	$ 17.00	Professional Services hourly wage - WV Economic Summary March 2009;
Record Keeping	hour	$ 17.00	Professional Services hourly wage - WV Economic Summary March 2009;
Research	hour	$ 17.00	Professional Services hourly wage - WV Economic Summary March 2009;
Learn to Run System	hour	$ 17.00	
Soil Sampling & Analysis	sample	$ 17.00	Professional Services hourly wage - WV Economic Summary March 2009;
Training to implement IPM plans-Level 1	acre	$ 1.00	Source: Dr. H. Hogmire, WVU Ext. & Professor of Entomology; wage applicable for 2009
Training to implement IPM plans-Level 2	acre	$ 2.00	Source: Dr. H. Hogmire, WVU Ext. & Professor of Entomology; wage applicable for 2009
Training to implement IPM plans-Level 3	acre	$ 3.00	Source: Dr. H. Hogmire, WVU Ext. & Professor of Entomology; wage applicable for 2009
Use WVU-KTFREC website	acre	$ 9.00	Source: Dr. H. Hogmire, WVU Ext. & Professor of Entomology; wage applicable for 2009
Utilization of degree day egg hatch model	acre	$ 18.00	Source: Dr. H. Hogmire, WVU Ext. & Professor of Entomology; wage applicable for 2009
Weekly phermone trap monitoring	acre	$ 33.00	Professional Services hourly wage - WV Economic Summary March 2009;
Wireless Weather Station - rain, wind, barometric, 1000' range	no	$ 395.00	www.vantagevue 3/21/10 BB
Yield sampling & analysis	sample	$ 17.00	Professional Services hourly wage - WV Economic Summary March 2009;
Ag Water Testing for Microirrigation Systems	each	$ 60.00	Penn State Testing Lab ($55.00 +$5.00 to ship) 5/18/20
OTHER CONSTRUCTION ADJUSTMENT COSTS			
Contractor Oversite of Installation	per job		Materials 6% Tax + 15% Contractor Cost + 15% Labor
Engineering O&M (Based on Construction Cost) 1%<$40,000, 0.5%>$40,000&>$100,000, 0.1%>$100,000	no		
IWM by Outside Consultant (4 hours travel, 4 hours to write report)	no	$ 152.00	Cost of travel, review IWM and write report on irrigation system
EQUATIONS:			
Concrete Thrust Block - sacrete -Installed	CY	**$ 95.84**	Sacrete-12 bags and 2 hour (20 to install)
4" Thick Concrete Pad - 3000 psi w/WWF, no joint -Installed	sq ft	$ 3.54	equation- '20'*30' pad, includes Material, Labor and Eq.
4" Thick Concrete Pad - 4000 psi w/ WWF, no joint - Installed	sq ft	$ 3.58	equation-'20'*30' pad, includes Material, Labor and Eq.
4" Thick Concrete Pad - 4000 psi w/ #3 Re-bar& joint-Installed	sq ft	$ 4.14	equation-'20'*30' pad, includes Material, Labor and Eq.
5" Thick Concrete Pad - 4000 psi w/ #3 Grade 40 Re-bar&joint -Installed	sq ft	$ 4.46	equation-'20'*30' pad, includes Material, Labor and Eq.
5" Thick Concrete Pad - 4000 psi w/ #8 ga. WWF, no joint -Installed	sq ft	$ 3.91	equation-'20'*30' pad, includes Material, Labor and Eq.
Critical Area Seeding -Construction- Includes labor	acre	$ 1,149.46	12# OG, 2 # LC, 3# RT, 2T Lime, 1000#-(25 no..s-40# no..s)10-20-20, 2ton Hay Mulch, Prepare seed bed, fertilize 4 hr, Labor 6 hr (seed and mulch)*20% overhead