

Little Kanawha River Watershed CSP Enhancements

	Practice Name	Component - Items to Perform	Unit Type	Unit Cost
Air Resource Management Enhancement				
1	Enhancement - Air Resource Management	EAM06 Use windbreaks to reduce spray drift and/or reduce dust (one row min.)	Acre	\$ 3.00
2	Enhancement - Air Resource Management	EAM07 Inject or incorporate manure to minimize odors	Acre	\$ 1.00
3	Enhancement - Air Resource Management	EAM40 Investigate Greenhouse Gas/Carbon sequestration scenarios using the Voluntary Reporting (COMET-VR) online web tool.	Each	\$ 500.00
4	Enhancement - Air Resource Management	EAM18 Reduce tillage operations to achieve a STIR <10 to reduce hydrocarbon, GHG, and PM 10/2.5 emissions.	Acre	\$ 4.00
Drainage Management Enhancement				
1	Enhancement - Drainage Management	EDR40 Drainage Water Mgt Level 1 - 20 - 29	Acre	\$ 2.00
2	Enhancement - Drainage Management	EDR40 Drainage Water Mgt Level 2 - 30 - 39	Acre	\$ 4.00
3	Enhancement - Drainage Management	EDR40 Drainage Water Mgt Level 3 - 40 - 49	Acre	\$ 6.00
4	Enhancement - Drainage Management	EDR40 Drainage Water Mgt Level 4 - 50 - 59	Acre	\$ 8.00
5	Enhancement - Drainage Management	EDR40 Drainage Water Mgt Level 5 - 60 or more	Acre	\$ 10.00
Energy Management Enhancement				
1	Enhancement - Energy Management	EEM40 Energy Audit	Each	\$ 500.00
2	Enhancement - Energy Management	EEM41 Recycling of all used motor oil for tractors and lubricating oil for other farm equipment such as irrigation pumps or grain drying motors	Year	\$ 200.00
3	Enhancement - Energy Management	EEM42 Use of perennial legumes in the crop rotation to reduce enrgy need for production of nitrogen	Acre	\$ 0.70
4	Enhancement - Energy Management	EEM43 Use of annual legumes in the crop rotation to reduce enrgy need for production of nitrogen	Acre	\$ 0.10
5	Enhancement - Energy Management	EEM44 Use of manure to supply at least 90% of nutrient needs of plants	Acre	\$ 1.10
6	Enhancement - Energy Management	EEM45 Soil Tillage Intensity Rating (STIR) is less than 60	Acre	\$ 0.50
7	Enhancement - Energy Management	EEM45 Soil Tillage Intensity Rating (STIR) is less than 30	Acre	\$ 0.70
8	Enhancement - Energy Management	EEM45 Soil Tillage Intensity Rating (STIR) is less than 15	Acre	\$ 0.90
9	Enhancement - Energy Management	EEM46 Use of renewable energy fuel (Biodiesel or Ethanol). Payments are made in \$25 increments for each 100 gallons <u>actual</u> biofuel used per year.	100 gal	\$ 25.00
10	Enhancement - Energy Management	EEM47 Renewable energy generation (solar, wind, water, geothermal, methane).	100 KWh	\$ 2.50
11	Enhancement - Energy Management	EEM48 5% energy reduction	BTU's	\$ 100.00
12	Enhancement - Energy Management	EEM48 10% energy reduction	BTU's	\$ 200.00
13	Enhancement - Energy Management	EEM48 20% energy reduction	BTU's	\$ 500.00
Grazing Management Enhancement				
1	Enhancement - Grazing Management	EGM04 Exclude livestock from all riparian areas	Acre	\$ 50.00
2	Enhancement - Grazing Management	EGM05 Rotate livestock through at least 8 paddocks	Acre	\$ 5.00
3	Enhancement - Grazing Management	EGM05 Rotate livestock at least every 2 days	Acre	\$ 7.00
4	Enhancement - Grazing Management	EGM06 Use Nutrient Balance Analyzer to balance forage with animal demand	Acre	\$ 3.00
5	Enhancement - Grazing Management	EGM09 Use alternative Annual forages to extend grazing period	Acre	\$ 30.00
6	Enhancement - Grazing Management	EGM09 Use alternative Perennial forages to extend grazing period	Acre	\$ 30.00
7	Enhancement - Grazing Management	EGM10 Manage water supply to prevent travel for more than 800 ft for 90% of pasture	Acre	\$ 2.00
8	Enhancement - Grazing Management	EGM11 Stockpile forage to extend grazing season at least 60 days	Acre	\$ 5.00
9	Enhancement - Grazing Management	EGM12 Rotate feeding, loafing or sacrifice areas within pasture every 30 days to reduce soil compaction.	Acre	\$ 2.00
10	Enhancement - Grazing Management	EGM18 Use tissue sampling results to improve animal forage balance	Acre	\$ 1.00

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Habitat Management Enhancement				
1	Enhancement - Habitat Management	EHM02 Maintain 40 foot buffers on all streams and ditches	Acre	\$ 1.50
2	Enhancement - Habitat Management	EHM02 Maintain 60 foot buffers on all streams and ditches	Acre	\$ 2.50
3	Enhancement - Habitat Management	EHM03 Do not hay or mow between 4-15 and 7-15 to protect Eastern Meadowlark grassland nesting area (limited to 25% of hayland on farm with 5 AC. Minimum)	Acre	\$ 100.00
4	Enhancement - Habitat Management	EHM 03 Leave 100 ft min. strip uncut in hayfield as nesting and feeding habitat for native pollinators	Acre	\$ 100.00
5	Enhancement - Habitat Management	EHM08 Maintain 60 foot buffers on all ditches and 60 foot riparian tree buffer on all perennial streams	Acre	\$ 3.50
6	Enhancement - Habitat Management	EHM09 Maintain a min. 20 ft wide strip of forb/legume mix adjacent to waterways, fencerows or woodlots	Acre	\$ 10.00
7	Enhancement - Habitat Management	EHM09 Manage cropland using 30 - 60 ft. grass/forb field borders adjacent to crop fields (50% of borders native grass) (Payment limited to area in border.)	Acre	\$ 80.00
8	Enhancement - Habitat Management	EHM12 Manage and maintain brush pile habitat for wildlife shelter @ 4 brush piles per acre	Acre	\$ 25.00
9	Enhancement - Habitat Management	EHM13 Manage for wildlife friendly species by replace non-beneficial grasses with recommended wildlife species	Acre	\$ 30.00
10	Enhancement - Habitat Management	EHM23 Manage nesting structures for cavity nesting birds and mammals. (Limit of 6 Acres per contract)	Acre	\$ 25.00
11	Enhancement - Habitat Management	EHM23 Manage and maintain habitat for barn owls by maintaining a barn owl nest structure. (Total contract acres)	Acre	\$ 0.50
Nutrient Management Enhancement				
1	Enhancement - Nutrient Management	ENM03 Maintain 40 foot buffers on all streams and ditches	Acre	\$ 1.00
2	Enhancement - Nutrient Management	ENM03 Maintain 60 foot buffers on all streams and ditches	Acre	\$ 2.00
3	Enhancement - Nutrient Management	ENM03 Maintain 60 foot buffers on all ditches and 60 foot riparian tree buffer on all perennial streams	Acre	\$ 3.00
4	Enhancement - Nutrient Management	ENM07 Yearly soil test for pH and crop fertility	Acre	\$ 1.00
5	Enhancement - Nutrient Management	ENM10 Inject or incorporate manure with low- or no-residue disturbing equipment	Acre	\$ 1.50
6	Enhancement - Nutrient Management	ENM13 Split nitrogen applications at intervals of 30 or more days	Acre	\$ 2.00
7	Enhancement - Nutrient Management	ENM15 Convert row crop to perennial forage or increase hay in rotation. (Cropland and Grazed Cropland only)	Acre	\$ 8.00
8	Enhancement - Nutrient Management	ENM16 Mange for high residue by establishing cover crop after all low residue crops	Acre	\$ 1.50
9	Enhancement - Nutrient Management	ENM17 Grow crops 100% no-till to reduce phosphorus runoff	Acre	\$ 6.00
10	Enhancement - Nutrient Management	ENM20 Use manure in place of fertilizer at least once every four years to improve soil quality. (Payment only on those acres receiving manure.)	Acre	\$ 1.00
11	Enhancement - Nutrient Management	ENM21 Use at least 30% legumes on 90% of pasture to reduce need for nitrogen fertilizer	Acre	\$ 2.00
12	Enhancement - Nutrient Management	ENM27 Manage surface runoff to filter nutrients from surface runoff through restored wetland	Acre	\$ 2.00
13	Enhancement - Nutrient Management	ENM 09 No winter manure application during period Dec. 1st thru Mar. 15th This will reduce nutrient loss due to runoff, leaching and volatilization.	Acre	\$ 2.00
Pest Management Enhancement				
1	Enhancement - Pest Management	EPM09 Use Conservation Crop Rotation of at least three crops in rotation to break pest cycles, no crop grown 2 years in a row	Acre	\$ 6.00
2	Enhancement - Pest Management	EPM16 Manages crops as an Integrated Pest Management (IPM) Practitioner.	Acre	\$ 4.00
3	Enhancement - Pest Management	EPM40 Reducing pesticide spray overlap through guided measure technology	Acre	\$ 8.00
Plant Management Enhancement				
1	Enhancement - Plant Management	EPL40 Improve plant management by establishing or maintaining native, culturally significant plants in field borders, etc.	Acre	\$ 50.00
2	Enhancement - Plant Management	EPL41 Improve plant health and vigor by establishing or maintaining nectar producing plant corridors in field borders, vegetative barriers, etc.	Acre	\$ 50.00
3	Enhancement - Plant Management	EPL43 Improve plant health and vigor by utilizing tubing (with or without vacuum)and health spout taps (≤ 5/16") based on the live circumference of each tree.	Acre	\$ 50.00
4	Enhancement - Plant Management	EPL44 Improve plant health and vigor by collecting sap in buckets using health spout taps (≤ 5/16") based on the live circumference of each tree	Acre	\$ 125.00
5	Enhancement - Plant Management	EPL45 Improve plant health and vigor by utilizing a minimum 28" dropline to evenly distribute taps along each tree trunk	Acre	\$ 20.00
6	Enhancement - Plant Management	EPL47 Improve plant health & vigor by selective thinning of cropped woodland & marshes to remove undesirable species &/or sustain the growth of the species	Acre	\$ 40.00
7	Enhancement - Plant Management	EPL48 Improve plant health and vigor by utilizing intercropping to increase biodiversity and minimize the number and intensity of pest and disease outbreaks.	Acre	\$ 20.00
Salinity Management Enhancement				
1	Enhancement - Salinity Management	ESL40 Significantly improve salinity management by annually implementing all recommendations that result from Electrical Conductivity (EC) soil and water testing.	Acre	\$ 2.00
2	Enhancement - Salinity Management	ESL40 Significantly improve salinity management by annually implementing all recommendations that result from before and after Electrical Conductivity (EC) mapping technology (Electro-Magnetic Induction (EMI) techniques)	Acre	\$ 6.00
Soil Management Enhancement				
1	Enhancement - Soil Management	ESM40 Improve soil conditioning and quality by implementing conservation measures that result in a Soil Conditioning Index (SCI) score of at least 0.1.	Acre	\$ 1.16

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2	Enhancement - Soil Management	ESM40 Improve soil conditioning and quality by implementing conservation measures that result in a Soil Conditioning Index (SCI) score of at least 0.2.	Acre	\$ 2.32
3	Enhancement - Soil Management	ESM40 Improve soil conditioning and quality by implementing conservation measures that result in a Soil Conditioning Index (SCI) score of at least 0.3.	Acre	\$ 3.48
4	Enhancement - Soil Management	ESM40 Improve soil conditioning and quality by implementing conservation measures that result in a Soil Conditioning Index (SCI) score of at least 0.4.	Acre	\$ 4.64
5	Enhancement - Soil Management	ESM40 Improve soil conditioning and quality by implementing conservation measures that result in a Soil Conditioning Index (SCI) score of at least 0.5.	Acre	\$ 5.80
6	Enhancement - Soil Management	ESM40 Improve soil conditioning and quality by implementing conservation measures that result in a Soil Conditioning Index (SCI) score of at least 0.6.	Acre	\$ 6.96
7	Enhancement - Soil Management	ESM40 Improve soil conditioning and quality by implementing conservation measures that result in a Soil Conditioning Index (SCI) score of at least 0.7.	Acre	\$ 8.12
8	Enhancement - Soil Management	ESM40 Improve soil conditioning and quality by implementing conservation measures that result in a Soil Conditioning Index (SCI) score of at least 0.8.	Acre	\$ 9.28
9	Enhancement - Soil Management	ESM40 Improve soil conditioning and quality by implementing conservation measures that result in a Soil Conditioning Index (SCI) score of at least 0.9.	Acre	\$ 10.44
10	Enhancement - Soil Management	ESM40 Improve soil conditioning and quality by implementing conservation measures that result in a Soil Conditioning Index (SCI) score of at least 1.0.	Acre	\$ 11.60
11	Enhancement - Soil Management	ESM40 Improve soil conditioning and quality by implementing conservation measures that result in a Soil Conditioning Index (SCI) score of at least 1.1.	Acre	\$ 12.76
12	Enhancement - Soil Management	ESM40 Improve soil conditioning and quality by implementing conservation measures that result in a Soil Conditioning Index (SCI) score of at least 1.2.	Acre	\$ 13.92
13	Enhancement - Soil Management	ESM40 Improve soil conditioning and quality by implementing conservation measures that result in a Soil Conditioning Index (SCI) score of at least 1.3.	Acre	\$ 15.08
14	Enhancement - Soil Management	ESM40 Improve soil conditioning and quality by implementing conservation measures that result in a Soil Conditioning Index (SCI) score of at least 1.4.	Acre	\$ 16.24
15	Enhancement - Soil Management	ESM40 Improve soil conditioning and quality by implementing conservation measures that result in a Soil Conditioning Index (SCI) score of at least 1.5.	Acre	\$ 17.40
16	Enhancement - Soil Management	ESM40 Improve soil conditioning and quality by implementing conservation measures that result in a Soil Conditioning Index (SCI) score of at least 1.6.	Acre	\$ 18.56
17	Enhancement - Soil Management	ESM40 Improve soil conditioning and quality by implementing conservation measures that result in a Soil Conditioning Index (SCI) score of at least 1.7.	Acre	\$ 19.72
18	Enhancement - Soil Management	ESM40 Improve soil conditioning and quality by implementing conservation measures that result in a Soil Conditioning Index (SCI) score of at least 1.8.	Acre	\$ 20.88
19	Enhancement - Soil Management	ESM40 Improve soil conditioning and quality by implementing conservation measures that result in a Soil Conditioning Index (SCI) score of at least 1.9.	Acre	\$ 22.04
20	Enhancement - Soil Management	ESM40 Improve soil conditioning and quality by implementing conservation measures that result in a Soil Conditioning Index (SCI) score of at least 2.0.	Acre	\$ 23.20
21	Enhancement - Soil Management	ESM40 Improve soil conditioning and quality by implementing conservation measures that result in a Soil Conditioning Index (SCI) score of at least 2.1.	Acre	\$ 24.36
22	Enhancement - Soil Management	ESM40 Improve soil conditioning and quality by implementing conservation measures that result in a Soil Conditioning Index (SCI) score of at least 2.2.	Acre	\$ 25.52

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23	Enhancement - Soil Management	ESM40 Improve soil conditioning and quality by implementing conservation measures that result in a Soil Conditioning Index (SCI) score of at least 2.3.	Acre	\$ 26.68
24	Enhancement - Soil Management	ESM40 Improve soil conditioning and quality by implementing conservation measures that result in a Soil Conditioning Index (SCI) score of at least 2.4.	Acre	\$ 27.84
25	Enhancement - Soil Management	ESM40 Improve soil conditioning and quality by implementing conservation measures that result in a Soil Conditioning Index (SCI) score of at least 2.5 or greater.	Acre	\$ 29.00
26	Enhancement - Soil Management	ESM41 Reduce soil compaction by controlling areas of traffic that result in a Soil Tillage Intensity Rating (STIR) between 31 and 60	Acre	\$ 0.50
27	Enhancement - Soil Management	ESM41 Reduce soil compaction by controlling areas of traffic that result in a Soil Tillage Intensity Rating (STIR) between 16 and 30	Acre	\$ 1.00
28	Enhancement - Soil Management	ESM41 Reduce soil compaction by controlling areas of traffic that result in a Soil Tillage Intensity Rating (STIR) of 15 or less	Acre	\$ 2.00
29	Enhancement - Soil Management	ESM42 Using GPS or other similar guided measure technology, reduce soil compaction by controlling areas of traffic that result in a Soil Tillage Intensity Rating (STIR) between 31 and 60	Acre	\$ 1.00
30	Enhancement - Soil Management	ESM42 Using GPS or other similar guided measure technology, reduce soil compaction by controlling areas of traffic that result in a Soil Tillage Intensity Rating (STIR) between 16 and 30	Acre	\$ 2.00
31	Enhancement - Soil Management	ESM42 Using GPS or other similar guided measure technology, reduce soil compaction by controlling areas of traffic that result in a Soil Tillage Intensity Rating (STIR) of 15 or less	Acre	\$ 4.00
Water Management Enhancement				
1	Enhancement - Water Management	EWM40 Irrigation Enhancement Index Level 1 - 60 - 64%.	Acre	\$ 2.00
2	Enhancement - Water Management	EWM40 Irrigation Enhancement Index Level 2 - 65 - 69%.	Acre	\$ 4.00
3	Enhancement - Water Management	EWM40 Irrigation Enhancement Index Level 3 - 70 - 74%.	Acre	\$ 6.00
4	Enhancement - Water Management	EWM40 Irrigation Enhancement Index Level 4 - 75 - 79%.	Acre	\$ 8.00
5	Enhancement - Water Management	EWM40 Irrigation Enhancement Index Level 5 - 80 - 84%.	Acre	\$ 10.00
6	Enhancement - Water Management	EWM40 Irrigation Enhancement Index Level 6 - 85% or greater.	Acre	\$ 12.00
7	Enhancement - Water Management	EWM 41 Participate in a field poly tubing recycling prog (participate in a formal annual recycling program for poly tubing such as polypipe/drip tape products)	Year	300
8	Enhancement - Water Management	EWM42 Remote Monitoring of Irrigation Pumping Plants (sensing and remote notification technology as an integral part of the water management system.)	Year	250
9	Enhancement - Water Management	EWM43 Using methods to reduce evaporative losses as an intregal part of an irrigation water management(IWM) system. (See Jobsheet)	Acre	3.00
10	Enhancement - Water Management	EWM43 Reduce evap losses as an intregal part of an IWM system such as irrig timing to avoid peak evap conditions or windbreaks/barriers to improve distributions	Acre	4.00