

## MO 2019 EQIP-MRBI Birds Point Alluvial Plain/Upper Birds Point

Environmental Quality Incentives Program Policy for the 2015 MRBI Project in the James Bayou-St. John's Diversion Ditch (HUC 080202010203) and Mud Ditch (HUC 080202010204) Watersheds and 2016 MRBI Project in the Brewer Lake (HUC 080202010101), O'Bryan Ridge-New Madrid Floodway (HUC 080202010201), Black Bayou-James Bayou (HUC 080202010202) Watersheds with New Madrid County SWCD and Mississippi County SWCD

October 26, 2018

This Policy is based on the Final Rule for EQIP, Federal Register 7 CFR Part 1466 published May 12, 2016.

NRCS will verify Beginning Farmer, Limited Resource Farmer, and/or Veteran Farmer status prior to contract obligation. There is no verification process for participants who self certify as Socially Disadvantaged. All practices must meet the minimum criteria in the Conservation Practice Standard (see the Missouri eFOTG) and the criteria listed below.

If the applicant is a tenant, the applicant must obtain written evidence or assurance of control from the landowner prior to contract obligation. Control may be a written lease, other legal agreement, or letter signed by the landowner indicating the length of control. Zero payment share landowner signature on the contract document does not demonstrate control of land.

Payment Scenarios - Each conservation practice listed in this policy has one or more payment scenarios available. The scenario nomenclature is determined by NRCS at the regional or national level. Where the scenario name is not descriptive enough to cover all the State Conservationist and State Technical Committee approved uses of the scenario for Missouri, a footnote has been added directly below the scenario name to clarify its use in planning and contract development.

Management Practices - Management practice payments are only available on acres where the practice has not been previously applied (with or without financial assistance), or where the practice will result in a higher level of conservation benefit.

Structural Practices - Structural practices include conservation practices that are either structural or vegetative, and have a multi-year lifespan. Structural practices involve the establishment, construction, or installation of site-specific measures. Payments are established as a one-time payment. In addition to control of land, tenants must obtain and provide to NRCS prior to obligation written concurrence from the landowner to apply a structural or vegetative practice. In lieu of written concurrence, the landowner may be a signatory to the contract with 0% payment shares to indicate their concurrence.

One Core Practice must be included in the Conservation Plan of Operations before any Supporting Practice can be included in the contract.

Practice Code	Conservation Practice	Maximum Payment	HU Maximum Payment	Practice Unit/ Payment Unit	Payment Rate	HU Payment Rate 1/	Lifespan (Years)
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327	<b>Conservation Cover Structural</b>	<b>Core</b>		<b>Acre</b>			<b>5</b>
	<b>Introduced with Forgone Income</b>			Acre	\$398.87	\$518.75	
	<i>Scenario is applicable to introduced grass/legumes and perennial green browse.</i>						
	<b>Native Species with Forgone Income</b>			Acre	\$445.16	\$574.30	
	<b>Pollinator Species with Forgone Income</b>			Acre	\$1,120.60	\$1,384.83	
	<i>Scenario is applicable to pollinator habitat and prairie restorations. For prairie restorations, payment is only authorized where the Ecological Site Description indicates a prairie, and is restored as specified within the 643 Restoration and Management of Rare and Declining Habitats conservation practice standard.</i>						
	<b>Monarch Species Mix with Forgone Income</b>			Acre	\$1,430.92	\$1,757.20	
	<b>Monarch Species Mix - Interseeding</b>			Acre	\$365.52	\$438.62	

- 1 Payment is authorized for the establishment and maintenance of permanent vegetative cover on land not utilized for forage production.
- 2 Payment includes site preparation equivalent to two activities or passes (spraying, disking, mowing, burning, etc). Where additional site preparation activities are needed through 314, 315 or 338 for adequate seedbed prep a waiver can be requested from the State Office.
- 3 Only one scenario is applicable per acre (i.e., multiple options such as native species and pollinator species cannot be stacked on the same acre).
- 4 For plantings addressing Inadequate Fish and Wildlife Habitat, refer to the (645) Upland Wildlife Habitat Management conservation practice standard.
- 5 See the (327) Conservation Cover conservation practice standard and (723) Vegetation Establishment, Herbaceous Seeding Specification

340	<b>Cover Crop Management</b>	<b>Core</b>		<b>Acre</b>			<b>1</b>
	<b>Cover Crop - Basic (Organic and Non-organic)</b>			Acre	\$51.58	\$61.90	

- 1 Practice is authorized for up to three payments per acre within the contract period.
- 2 Payment is not authorized for crops harvested for grain, seed or hay.
- 3 Payment is not authorized for wheat as a stand alone cover crop. Where the cover crop includes multi species, wheat cannot exceed 30% of the mix.
- 4 No more than three separate management practices may be combined per acre.
- 5 See the (340) Cover Crop conservation practice standard.

Practice Code	Conservation Practice	Maximum Payment	HU Maximum Payment	Practice Unit/ Payment Unit	Payment Rate	HU Payment Rate 1/	Lifespan (Years)
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443	<b>Irrigation System - Surface and Subsurface</b>						
	<i>Structural</i>	<b>Core</b>		Acre			15
	<b>Multiple Inlet Irrigation</b>			Acre	\$14.74	\$17.69	
	<b>Surge Valve &amp; Controller</b>			Each	\$1,711.94	\$2,054.32	

- 1 Flat-graded fields must have permanent levees established on all sides of the field (except the crown) to be eligible for payment.
- 2 Payment is only authorized where a reduction in water use as a result of the implementation of this practice is documented in an Irrigation Water Management Plan (IWMP) provided prior to contract obligation meeting the requirements for (449) Irrigation Water Management.
- 3 The contribution of N, P and K in irrigation water must be evaluated and included in a nutrient management plan that is documented through either MMP or 590 IR.
- 4 This practice is only available on land that has been irrigated 2 of the past 5 years prior to application for assistance.
- 5 See the (443) Irrigation System – Surface and Subsurface conservation practice standard.

449	<b>Irrigation Water Management</b>						
	<i>Management</i>	<b>Core</b>		Acre			1
	<b>IWM for row crops</b>			Acre	\$8.95	\$10.74	
	<i>Payment is authorized on existing irrigated acres when EQIP funds will be used to apply one or more of the following practices: (430) Irrigation Pipeline, (442) Sprinkler System, (443) Irrigation System - Surface and Subsurface, or (464) Irrigation Land Leveling.</i>						
	<b>Advanced IWM</b>			Acre	\$13.98	\$16.77	
	<i>Advanced IWM requires irrigation scheduling from use of evapotranspiration (ET) data from a regional network and/or from data from soil moisture sensor. Producer must supply record of actual irrigation events based on either the soil moisture sensor data or ET data from regional network.</i>						
	<b>Soil Moisture Sensors with Data Recorder</b>			Each	\$1,444.35	\$1,733.22	
	<i>Payment is only authorized one time per unit and must be contracted in conjunction with Advanced IWM.</i>						

- 1 Practice is only available on land that has been irrigated 2 of the past 5 years prior to application for assistance.
- 2 Practice is authorized for up to three payments per acre within the contract period for the "per acre" payment unit scenarios.
- 3 No more than three separate management practices may be combined per acre.
- 4 See the (449) Irrigation Water Management conservation practice standard.

Practice Code	Conservation Practice	Maximum Payment	HU Maximum Payment	Practice Unit/ Payment Unit	Payment Rate	HU Payment Rate 1/	Lifespan (Years)
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590	<b>Nutrient Management Management</b>						1
	<b>Core</b>			Acre			
	<b>Basic NM (Non-Organic/Organic)</b>			Acre	\$6.29	\$7.55	
	<b>Basic NM with Manure and/or Compost (Non-Organic/Organic)</b>			Acre	\$13.53	\$16.23	
	<i>Scenario is applicable to surface applications of manure and/or compost without incorporation.</i>						
	<b>Basic NM with Manure Injection or Incorporation</b>			Acre	\$26.51	\$31.81	
	<b>Basic Precision NM (Non-Organic/Organic)</b>			Acre	\$38.84	\$46.61	
	<i>Payment is authorized for the following activities under this scenario: Nitrification and urease inhibitors with nitrogen fertilizer applications; slow- and controlled-release fertilizer formulations; split applications of nitrogen fertilizers; tissue testing by chlorophyll meter or spectral reflectance sensors (see MO Agronomy Technical Note No. 35); and variable-rate applications of nitrogen fertilizers guided by spectral reflectance as specified in MO Agronomy Technical Note No. 35. See the MO EQIP Nutrient Management Activity Sheet for allowable products and specific implementation requirements.</i>						
	<i>Variable-rate applications of phosphorus and potassium are not authorized for payment under this scenario. Use Basic NM.</i>						

- 1 Payment is available when fertilizer nutrients are applied according to a budget for nitrogen, phosphorus, and potassium, plus or minus 10% by individual nutrient. When the soil test shows a lime requirement >600 lb ENM/acre, the specified amounts must be applied plus or minus 10%.
- 2 The budget specifies amounts of nitrogen, phosphate, and potash applied, utilized, and remaining in soil (nutrients supplied - nutrients utilized by crop = nutrients remaining).
- 3 Payment is not authorized for one-time nutrient applications to establish perennial crops.
- 4 Payment is available on land having subsurface drainage system only if (554) Drainage Water Management is applied on the same acres receiving any (590) payment.
- 5 Practice is only authorized for one payment per acre within the contract period.
- 6 No more than three separate management practices may be combined per acre.
- 7 See the applicable MO NRCS Nutrient Management Activity Sheet and the (590) Nutrient Management conservation practice standard.

Practice Code	Conservation Practice	Maximum Payment	HU Maximum Payment	Practice Unit/ Payment Unit	Payment Rate	HU Payment Rate 1/	Lifespan (Years)
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329	<b>Residue and Tillage Management, No Till Management</b>	Core		Acre			1
	<b>No-Till/Strip-Till</b>			Acre	\$16.95	\$20.34	

- 1 All crops planted will be no-tilled/strip-tilled to receive this payment, including double- or triple-cropped crops and cover crops.
- 2 Practice is authorized for up to three payments per acre within the contract period.
- 3 Option 1: Payment is authorized for acres where no crops in rotation have been no tilled/strip tilled and the producer will continuously no till/strip till all crops as indicated in footnote 1 above.
- 4 Option 2: Payment is authorized for acres where a portion of the rotation has been no tilled/strip tilled and the producer will continuously no till/strip till all crops as indicated in footnote 1 above.
- 5 Practice is eligible for payment after all crops in rotation have been no tilled according to the 329 CPS.
- 6 No more than three separate management practices may be combined per acre.
- 7 See (329) Residue and Tillage Management, No Till conservation practice standard.

442	<b>Sprinkler System</b>	Core		Acre			15
	<b>Conversion to Center Pivot or Linear Move System</b>			Foot	\$60.43	\$72.51	

*Payment for Conversion to Center Pivot System is authorized on fields with existing surface-flooded irrigation systems being converted to a center pivot irrigation system. This option is not authorized for converting from a 'traveling gun' system.*

	<b>Sprinkler Conversion to Low Pressure</b>			Foot	\$5.85	\$7.02	
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*Payment is only for conversion of high pressure to low pressure sprinkler system. Payment is not authorized for re-nozzling a low pressure system.*

- 1 Payment is only authorized where a reduction in water use as a result of the implementation of this practice is documented in an Irrigation Water Management Plan (IWMP) provided prior to contract obligation meeting the requirements for (449) Irrigation Water Management.
- 2 This practice is only available on land that has been irrigated 2 of the past 5 years prior to application for assistance; payment is not available for wells or power supplies.
- 3 The contribution of N, P and K in irrigation water must be evaluated and included in a nutrient management plan that is documented through either MMP or 590 IR.
- 4 See the (442) Sprinkler System conservation practice standard.

657	<b>Wetland Restoration</b>	Core		Acre			15
	<b>Riverine Levee Removal, ditch plugs and floodplain features</b>			Acre	\$1,017.14	\$1,260.67	

- 1 See the (657) Wetland Restoration conservation practice standard.

Practice Code	Conservation Practice	Maximum Payment	HU Maximum Payment	Practice Unit/ Payment Unit	Payment Rate	HU Payment Rate 1/	Lifespan (Years)
386	<b>Field Border</b> <i>Structural</i>						10
	<b>Supporting</b>			Acre			
	Field Border, Introduced Species, Forgone Income			Acre	\$306.47	\$399.66	
	Field Border, Native Species, Forgone Income			Acre	\$399.77	\$519.83	
	Field Border, Pollinator, Forgone Income			Acre	\$1,093.21	\$1,351.96	

1 Payment includes vegetation establishment. Payment is not available for natural regeneration.

2 Payment includes site preparation equivalent to two activities or passes (spraying, disking, mowing, burning, etc). Where additional site preparation activities are needed through 314, 315 or 338 for adequate seedbed prep a waiver can be requested from the State Office.

3 Only one scenario is applicable per acre (i.e., multiple options such as native species and pollinator species cannot be stacked on the same acre).

4 For plantings addressing Inadequate Fish and Wildlife Habitat, refer to the (645) Upland Wildlife Habitat Management conservation practice standard.

5 See the (386) Field Border conservation practice standard and (723) Vegetation Establishment, Herbaceous Seeding Specification

Practice Code	Conservation Practice	Maximum Payment	HU Maximum Payment	Practice Unit/ Payment Unit	Payment Rate	HU Payment Rate 1/	Lifespan (Years)
410	<b>Grade Stabilization Structure</b> <i>Structural</i> Supporting			Number			15
	<b>Embankment 8in-12in Pipe</b> <i>Scenario is applicable to any pipe size needed to meet standards and specifications</i>			Cu Yd Fill	\$3.53	\$4.24	
	<i>Payment is authorized for an embankment structure of the minimum size needed to address the resource concern in accordance with Conservation Planning policy contained within NRCS General Manual Title 180, Part 409, Section MO409.2(f). The plan must be provided to the Area Engineer for evaluation and concurrence, and receive written approval from the Area Conservationist prior to CPO development.</i>						
	<b>Pipe Drop, Smooth Steel or CMP, &lt;1,000 CY Earthfill</b> <i>Full Flow Drop Pipe Structure. Payment unit is riser weir length * barrel length.</i>			Sq Ft	\$8.60	\$10.32	
	<b>Pipe Drop, Smooth Steel or CMP, &gt;=1,000 CY Earthfill</b> <i>Full Flow Drop Pipe Structure. Payment unit is riser weir length * barrel length.</i>			Sq Ft	\$17.07	\$20.48	
	<b>Concrete Block Chute</b> <i>Payment unit is concrete block lined area</i>			Sq Ft	\$7.80	\$9.35	
	<b>Rock Rip Rap Chute</b>			Cu Yd Rock	\$55.10	\$66.12	
	<b>Concrete Drop Structure</b>			Cu Yd Conc	\$658.62	\$790.34	
	<b>Gabion Chute</b>			Cu Yd	\$240.97	\$289.16	
	<b>Geotextile Reinforced Vegetated Outlet</b>			Sq Ft	\$2.06	\$2.47	
	<b>Side Inlet</b> <i>Bottomland Drop Pipe. Payment is authorized as an outlet in conjunction with main, lateral and/or field ditches installed for surface drainage in bottomland fields.</i>			Foot	\$42.08	\$50.50	

1 See the (410) Grade Stabilization Structure conservation practice standard.

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464	<b>Irrigation Land Leveling</b>	Supporting		Acre	\$213.51	\$256.21	15
	<i>Structural</i>			Acre			

- 1 Payment is only authorized for re-grading cropland fields that are currently surface irrigated.
- 2 Payment is only authorized when landgrading cutsheets are provided to NRCS prior to the EQIP application cutoff date.
- 3 Payment is only authorized where a reduction in water use as a result of the implementation of this practice is documented in an Irrigation Water Management Plan (IWMP) provided prior to contract obligation meeting the requirements for (449) Irrigation Water Management.
- 4 The contribution of N, P and K in irrigation water must be evaluated and included in a nutrient management plan that meets the basic requirements of the (590) Nutrient Management conservation practice standard.
- 5 This practice is only available on land that has been irrigated 2 of the past 5 years prior to application for assistance.
- 6 See the (464) Irrigation Land Leveling conservation practice standard.

430	<b>Irrigation Pipeline</b>	Supporting		Feet			20		
	<i>Structural</i>			Foot					
	Pipe System <=8 in Diameter, >50 ft Installation			Foot				\$10.69	\$12.82
	Pipe System <= 8 in Diameter, <= 50 ft Installation			Foot				\$17.28	\$20.74
	Pipe System 10-12 in Diameter, >50 ft Installation			Foot				\$14.11	\$16.93
	Pipe System 10-12 in Diameter, <= 50ft Installation			Foot				\$21.25	\$25.50
	Pipe System >=15 in, >50 ft Installation			Foot				\$21.47	\$25.77
Pipe System >=15 in, <= 50ft Installation	Foot	\$33.25	\$39.90						

- 1 The pipeline shall be used to reorganize an existing irrigation system, or to replace a temporary water conveyance system (to convey water from a well or reservoir to the irrigation system).
- 2 Payment is only authorized where a reduction in water use as a result of the implementation of this practice on the operation is documented.
- 3 This practice is only available on land that has been irrigated 2 of the past 5 years prior to application for assistance.
- 4 See the (430) Irrigation Pipeline conservation practice standard.



Practice Code	Conservation Practice	Maximum Payment	HU Maximum Payment	Practice Unit/ Payment Unit	Payment Rate	HU Payment Rate 1/	Lifespan (Years)
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345	<b>Residue and Tillage Management, Reduced Till Management</b>			Acre			1
	<b>Supporting</b>			Acre	\$20.00	\$24.00	

1 Payment is authorized for reduced tillage techniques associated with no till furrow irrigation systems where disturbance is limited to the creation or cleaning out of furrows.

2 Practice is authorized for up to three payments per acre within the contract period.

3 See the (345) Residue and Tillage Management, Mulch Till conservation practice standard.

646	<b>Shallow Water Development and Management</b>			Acre			1
	<b>Management</b>			Acre	\$39.62	\$50.18	

1 Practice is authorized for up to three payments per acre within the contract period.

2 Shallow water impoundments require an adequate water supply for reflooding the impoundment during period of planned inundation of a minimum of 60 days between December 15 to February 15. The water supply can be as a result of flooding, overland run-off, or a pumped source.

3 See the (646) Shallow Water Development and Management conservation practice standard.

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**587 Structure for Water Control**

<i>Structural</i>	<i>Supporting</i>		<i>Number</i>				<i>20</i>
Inline Stoplog WCS, Surface Water Control, 6-10 in. dia. Pipe			Each	\$2,039.35	\$2,447.22		
Inline Stoplog WCS, Surface Water Control, 12-18 in. dia. Pipe			Each	\$3,395.07	\$4,074.09		
Inline Stoplog WCS, Surface Water Control, >18 in. dia. Pipe			Each	\$4,712.72	\$5,655.26		
Weir Box Inlet WCS, Surface Water Control, <=16 in. dia. Pipe.			Each	\$2,400.78	\$2,880.94		
Weir Box Inlet WCS, Surface Water Control, >16 in. dia. Pipe.			Each	\$3,277.84	\$3,933.40		
Weir Box Inlet WCS, Surface Water Control Using Existing Pipe (Box Only)			Each	\$408.91	\$490.69		
Watertight Flap gate Inflow WCS, Surface Water Control, <=15 in. dia. Pipe			Each	\$2,553.23	\$3,063.87		
<i>Stand alone water control structure that includes the pipe installation. Scenario is not authorized as a component of any other 587 scenario.</i>							
Watertight Flap gate Inflow WCS, Surface Water Control, >15 in. dia. Pipe			Each	\$3,117.08	\$3,740.50		
<i>Stand alone water control structure that includes the pipe installation. Scenario is not authorized as a component of any other 587 scenario.</i>							
Straight Pipe, Surface Water Control, <=10 in. dia. Pipe (w/o adjustable control)			Ft Pipe	\$34.89	\$41.87		
Straight Pipe, Surface Water Control, >=12 in. dia. Pipe (w/o adjustable control)			Ft Pipe	\$42.07	\$50.49		
Inline WCS, Subsurface Drainage Control, <=10 in. dia. Pipe			Each	\$1,345.26	\$1,614.31		
Inline WCS, Subsurface Drainage Control, >10 in. dia. Pipe			Each	\$1,848.57	\$2,218.28		

- 1 Payment is authorized for water control structures when needed for (554) Drainage Water Management, (443) Irrigation System - Surface and Subsurface, (449) Irrigation Water Management and/or (646) Shallow Water Development and Management
- 2 When used in conjunction with subsurface irrigation or drainage water management the existing subsurface tiles &/or surface ditches must be in place when the EQIP application is initiated (i.e., CPA1200 is signed).
- 3 See the (587) Structure for Water Control conservation practice standard.

**Footnotes and Acronym Information**

- 1/ HU Payment Rate refers to the payment rate for Historically Underserved Farmers (Limited Resource Farmers, Beginning Farmers, Socially Disadvantaged Farmers, and Veteran Farmers who also qualify as Beginning Farmers).

This Program Policy is approved for use in Missouri

Karen Brinkman, Acting

October 29, 2018

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Missouri State Conservationist

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Date