

Appendix E: Best Management Practices (BMPs) Available for Cost-Share Funding

Conservation Practice	Pollutants Addressed	BWCWA % Cost-Share	Big Walnut Cap	Notes
GENERAL PRACTICES				
Filter Strips (393)	sediment, nutrients	75%	\$109/ac - cool season; \$195/ac - warm season	
Riparian Forest Buffer(391)	sediment, nutrients	75%	\$399/ac	
Riparian Herbaceous Cover (390)	sediment, nutrients	75%		
Streambank and Shoreline Protection (580)	sediment, nutrients	75%	75% of cost, no cap	Permit may be needed; consult with IDEM Project Manager before implementing
Stream Channel Stabilization (584)	sediment, nutrients	75%	75% of cost, no cap	Permit may be needed; consult with IDEM Project Manager before implementing
Wetland Restoration (657) and Creation (658)	sediment, nutrients, E.coli	75%		Permit may be needed; consult with IDEM Project Manager before implementing
Critical Area Treatment & Seeding (342)	sediment, nutrients	75%	\$622/ac.	
Grade Stabilization Structure (410):	sediment, nutrients	75%		Consult with IDEM Project Manager before implementing; permit may be needed
<i>Rock chute</i>		75%		
<i>Straight pipe</i>		75%		
<i>Concrete tow wall</i>		75%		
Pipeline (516)	E.coli, nutrients, sediment	75%	\$0.88/ft	In conjunction with Watering Facility (614)
Tree and Shrub Establishment (612)	sediment, nutrients	75%	\$399/ac; second yr weed control \$34/ac	Minimum 1 ac

Conservation Practice	Pollutants Addressed	BWCWA % Cost-Share	Big Walnut Cap	Notes
Diversion (362)	sediment, nutrients, E.coli	75%		Permit may be needed
Stream Restoration (daylighting) (NRCS Publication NEH-654)	sediment, nutrients	75%	\$100/ft	Permit may be needed; http://www.nrcs.usda.gov/technical/ENG/stream-docs.html
AGRICULTURAL PRACTICES				
Alternative Watering System (614):	E.coli, nutrients, sediment	75%		Requires fencing out of stream (IDEM)
<i>Spring Development</i>		75%	\$1094/each	
<i>Watering Facility Portable</i>		75%	\$94/each	
<i>Ball or Fountain tank</i>		75%	\$615/each	
Cover Crops (340)	sediment, nutrients	75%	\$25/ac	
No-Till* (equipment modification or pre-emergent chemicals) (329)	sediment, nutrients	75%	\$22/ac	
Nutrient Management Planning (Row Crop) (590)	sediment, nutrients	75%	\$4/ac basic; \$15/ac high	
Comprehensive Nutrient Management Plan	sediment, nutrients, E.coli	90%		Use TSP process to perform CNMPs; CNMPs pay at 90%
Pest Management Planning (Row Crop) (595)	nutrients, E.coli,	75%	\$2/ac basic; \$10/ac precision	
Waste Storage Facility (313):	E.coli, nutrients	75%		No new facilities; Not installed at CAFOs; Above & beyond permit requirements
<i>concrete pit</i>		75%	\$0.71 cu ft	
<i>earthen pit</i>		75%	\$0.14/cu ft	
<i>dumpster/trailer</i>		75%		
Pasture/Hayland Seeding (512)	sediment, nutrients	75%	\$60/ac interseeding; \$123/ac cool or warm season	

Conservation Practice	Pollutants Addressed	BWCWA % Cost-Share	Big Walnut Cap	Notes
Streambank Crossing (578)	sediment, nutrients, E.coli	75%	75% of cost, no cap	Requires fencing animals from stream; permit may be needed
Streambank Fencing (382)	sediment, E.coli	75%	\$0.55/ft	Requires grazing plan; permit may be needed; no temporary fencing (IDNR-LARE)
Grassed Waterways (412)	sediment, nutrients	75%		Use native vegetation
Two-Stage Agriculture Ditch (582)	sediment, nutrients	75%	TBD by NRCS, 75% total cost	Permit may be needed
Heavy Use Area Protection (561)	sediment, nutrients	75%	\$0.50/sq ft	
Livestock Composting Facility (317)	nutrients, E.coli,	75%	\$0.50/ sq ft	Livestock must currently be present on the property
Prescribed Grazing Plan (528)	sediment, nutrients, E.coli	75%	\$17/ac.	Livestock must currently be present on the property
Water and Sediment Control Basin (638)	sediment, nutrients	75%		A Nutrient and Pest Mgmt Plan (590 & 595) must have been completed or be completed in conjunction with the WASCOD. Must be used in conjunction with a grassed waterway (412).
URBAN PRACTICES				Consult with IDEM Project Manager before implementing
Bioretention/Rain Garden (City of Indianapolis Technical Design Standards)	sediment, nutrients	75%	\$15/sq ft	Section 4.5, pgs 82-95
Bioswale/Swales (City of Indianapolis Technical Design Standards)	sediment, nutrients	75%	\$7/sq ft	Section 4.7, pages 104-111
Infiltration Basin or Trench (City of Indianapolis Technical Design Standards)	sediment, nutrients	75%	\$5/sq ft	Section 4.8, pages 113-119

Conservation Practice	Pollutants Addressed	BWCWA % Cost-Share	Big Walnut Cap	Notes
Media Filtration – Sand Filter (City of Indianapolis Technical Design Standards)	sediment, nutrients	75%	\$7/sq ft	Section 4.10, pages 130-138
Permeable Pavement (City of Indianapolis Technical Design Standards)	sediment, nutrients	75%	\$8/sq ft	Section 4.2, pages 47-63
Naturalize/Retrofit Wet Detention Basin** (City of Indianapolis Technical Design Standards)	sediment, nutrients	75%	\$15/ln ft	Section 4.12, pages 145-153; preliminary cost estimates have been given in linear feet; permit may be needed
Green Roof (City of Indianapolis Technical Design Standards)	sediment, nutrients	75%	\$20/sq ft	Section 4.1, pages 32-45
Parking Lot Retrofits/Curb Cuts (City of Indianapolis Technical Design Standards)	sediment, nutrients	75%	\$7/sq ft	Section 4.9, pages 121-129

*No-till equipment modifications include, but are not limited to the following: chaff spreader on combine, no-till coulter, row cleaners, split nitrogen applications, variable rate phosphorus, potassium, and lime applications.

**Applications will only be considered to retrofit existing basins in order to add a water quality benefit. The grant cannot pay for practices that are primarily used to create water quantity benefit.