

Grassland Reserve Program Conservation Practice Guide Notes

Massachusetts 2010

Practice Code	Practice Name	Practice Unit	Lifespan (years)	Scenario	Payment Unit	Scenario Notes	State Program Rules
314	Brush Management	AC	3	Mowing, Brush-hogging	AC	<ul style="list-style-type: none"> Cost per acre for mowing pasture with a rotary mower to reduce encroachment of woody species and brush. 	<ul style="list-style-type: none"> Practice eligible on pasture – not cropland or hayland.
				Light clearing – heavy brush	AC	<ul style="list-style-type: none"> Cost per acre for controlling heavier brush (1-2" diameter) with a Davco mower, chain saw and hand tools 	
327	Conservation Cover	AC	3	Convert Cropland to Cool Season Grasses For Wildlife	AC	<ul style="list-style-type: none"> Cost includes seed bed prep, soil amendments and application, seed and seeding 	<ul style="list-style-type: none"> For land use conversion to wildlife.
				Convert Cropland to Warm Season Grasses For Wildlife	AC	<ul style="list-style-type: none"> Cost includes soil amendments and application, rental of no-till seeder, seed and seeding 	
342	Critical Area Planting	AC	10	Disturbed Areas	AC	<ul style="list-style-type: none"> For construction sites, disturbed areas, or steep eroding banks Small bulldozer used to prepare site and track seed Includes material and hand labor for lime, fertilizer, seed and mulch Seeding Mix #4 - Specification Guide (warm/cool season grass mix) 	
				Manual Herbaceous Seeding	AC	<ul style="list-style-type: none"> Steep eroding bank where conventional equipment cannot be used Hand tools and labor to prepare site, lime, fertilize, seed and mulch Attractive, low-maintenance herbaceous seeding mixture (Mix #10) 	
382	Fence	LF	20	Barbed Wire	LF	<ul style="list-style-type: none"> Cost assumes 4 strand barbed wire fence and includes all materials and labor including, but not limited to, corners, brace assemblies, posts at 16' spacing and all wire Gates are included in the cost 	<ul style="list-style-type: none"> If a fence system different from these scenarios is used, it must follow manufacturers' specifications (included in documentation) and match the closest scenario by price. Permanent fence is eligible when used in conjunction with a prescribed grazing system, or when excluding animals from
				Woven Wire	LF	<ul style="list-style-type: none"> Cost includes 48" woven wire with one strand of barbed wire on the top and includes all materials and labor including, but not limited to, corners, brace assemblies, posts at 16' spacing and all wire. Gates are included in the cost 	

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				High Tensile Electric	LF	<ul style="list-style-type: none"> Fence charger is included in the cost Cost includes 3 strand high tensile fence and all materials and labor to install, including, but not limited to, corners, brace assemblies, posts at approximately 35 ft. spacing and all wire. Gates are included in the cost Fence charger is included in the cost 	<ul style="list-style-type: none"> water resources, or for protecting practices or safety in association with a practice. Boundary or property line fences are ineligible, except as an integral part of a conservation management system that facilitates improved management of land, or protects certain areas from livestock when it is necessary for proper use of the area.
				High Tensile Non-electric	LF	<ul style="list-style-type: none"> Cost includes 6 strands high tensile fence and all materials and labor to install, including, but not limited to, corners, brace assemblies, posts at approximately 35 ft. spacing and all wire. Gates are included in the cost 	
391	Riparian Forest Buffer	AC	15	Zones 1 and 2	AC	<ul style="list-style-type: none"> Located adjacent to and up-gradient from watercourses or water bodies Planted to trees and shrubs at a density of 200 plants per acre. Trees have protectors 	<ul style="list-style-type: none"> Minimum widths of zones must meet standard
460	Land Clearing	AC	10	Cut & Chip trees	AC	<ul style="list-style-type: none"> Site preparation of a field with chainsaw operators to cut and chip trees (<6" and assumes no timber value) for pasture and hayland planting 	<ul style="list-style-type: none"> For heavy brush clearing on pasture.
				Brontosaurus	AC	<ul style="list-style-type: none"> Site preparation of a field using a brontosaurus to cut trees and loader to remove chips and slash. 	
500	Obstruction Removal	AC	10	Stump removal	AC	<ul style="list-style-type: none"> Stump removal – may be through grinding or grubbing with dozer. 	<ul style="list-style-type: none"> Eligible if required to achieve conservation objective
512	Pasture and Hayland Planting	AC	5	Convert Continuous Crops to Permanent Cool Season Grass/legumes	AC	<ul style="list-style-type: none"> Assumes that crop land is being converted to hay or pasture. 	<ul style="list-style-type: none"> Field must have Hay or Pasture land use for 5 year practice life or for the length of the contract, whichever is more.
				Establish Warm Season Grasses	AC	<ul style="list-style-type: none"> Assumes that cropland is being converted to hay or pasture; includes forgone income from crop rotation and long period of establishment Conventional establishment of warm season grasses, forbs and legumes 	

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				No-Till Establishment of Warm Season Grasses	AC	<ul style="list-style-type: none"> Assumes that cropland is being converted to hay or pasture; includes forgone income from crop rotation and long period of establishment 	
				No-Till Renovation of Cool season Pasture or Hayland	AC	<ul style="list-style-type: none"> Assumes custom rates 	<ul style="list-style-type: none"> For no-till or conventional pasture renovation.
				Frost Seeding for Pasture Rejuvenation	AC	<ul style="list-style-type: none"> Rates for frost seeding legumes and timothy are located in the Pasture and Hayland Planting (512) Specification Guide 	<ul style="list-style-type: none"> Field must be in a prescribed grazing system.
516	Pipeline	FT	20	Pipeline, Buried	LF	<ul style="list-style-type: none"> Includes pipe, hydrants, air valves, drain valve Refer to other practices for components making up a complete livestock watering system: spring development (574), watering facility (614), pumping plant (533) 	<ul style="list-style-type: none"> For livestock watering only.
				Pipeline, Above Ground	LF	<ul style="list-style-type: none"> Includes pipe only (material and installation) for situations where the pipe cannot be buried or to maintain flexibility with prescribed grazing plan. 	
528	Prescribed Grazing	AC	3	Implementation	AC	<ul style="list-style-type: none"> At least 75% of livestock forage needs must be obtained (based on forage animal balance) 	
533	Pumping Plant	No.	15	Centrifugal Pump & Motor	HP	<ul style="list-style-type: none"> Centrifugal pumping plants for irrigation (irrigation or livestock watering) priced by the pump horsepower (HP). Refer to Waste Transfer (634) for manure and wastewater pumps. Two price ranges for ≤ 5 hp and > 5hp 	
				Submersible Pump	HP	<ul style="list-style-type: none"> Submersible pumps for wells, including motor, priced by HP as above. Two price ranges for ≤ 3 hp and > 3 hp 	
				Solar / Wind Pump for Livestock Watering	EA	<ul style="list-style-type: none"> Solar or Wind pumping plants for livestock watering priced for each complete system 	
				Pump and Tank	EA	<ul style="list-style-type: none"> Used to pump water to a holding tank or pressure tank to provide water for livestock watering. Includes cost of pump and tank 	
574	Spring Development	No.	20	Well Tile	EA	<ul style="list-style-type: none"> Costs for the development of a spring using well tile or spring box, and includes PE tubing collector pipe and plumbing. 	<ul style="list-style-type: none"> Must meet all applicable provisions and permit requirements, including US Army

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						<ul style="list-style-type: none"> Refer to Pipeline (516) for the pipe, hydrant, and drain valve; Watering Facility (614) for the trough or tank, and Pumping Plant (533) for pumps. Add seeding (342) separately 	<ul style="list-style-type: none"> Corp of Engineers jurisdiction, National Food Security Act and any other federal, state and local regulations, prior to contract obligation.
				Tile Drain	LF	<ul style="list-style-type: none"> Same as above, but using buried PE tubing to collect seeps and deliver to a watering facility. 	<ul style="list-style-type: none"> Only for grazing systems
575	Animal Trails and Walkways	FT	10	Animal Trails & Walkways	SF	<ul style="list-style-type: none"> Priced per square foot of road surface. Cost includes excavation, grading and shaping, geotextile, gravel fill for the surface, and culvert to allow flows under the road. 12 ft wide with one 12" culvert per 500 ft of length assumed. Does not include subsurface drain (606) and seeding (342). 	
578	Stream Crossing	No.	10	Ford	EA	<ul style="list-style-type: none"> Stream fords priced each, complete, including excavation, fill, geotextile, and armoring. Does not include fence (382) for the cross stream fencing, exclusion fence and gates; and seeding (342). Add these practices separately. 	<ul style="list-style-type: none"> Only to facilitate restricted animal crossing while protecting stream and banks; not for forestry roads; Must be associated with a prescribed grazing system; Must meet all applicable provisions and permit requirements, including US Army Corp of Engineers jurisdiction, National Food Security Act and any other federal, state and local regulations, prior to contract obligation.
			Culvert, < 24" Culvert, 24" to 36" Culvert, > 36"	SF	<ul style="list-style-type: none"> Priced by the square foot of the travel portion of the crossing, top of bank to top of bank. Generally use in situations where MA Stream Crossing requirements do <u>not</u> apply. 		
			Arch Culvert, ≤ 15 ft. Arch Culvert, > 15 ft.	LF	<ul style="list-style-type: none"> Bottomless arch culverts installed to span the stream width to ensure passage of fish and other wildlife, according to MA Stream Crossing requirements. 		
			Bridge	SF	<ul style="list-style-type: none"> Priced by the square foot of the travel portion of the crossing, top of bank to top of bank. 		
580	Streambank and Shoreline Protection	FT	20	Bioengineering with Rock Toe	LF	<ul style="list-style-type: none"> Installation of streambank protection using a riprap toe with live stakes and/or other bioengineering techniques on the slope above the rock. Includes excavation, geotextile, riprap, wattles, live stakes, seeding and erosion control blanket 	<ul style="list-style-type: none"> Must meet all applicable provisions and permit requirements, including US Army Corp of Engineers jurisdiction, National Food Security Act and any other federal, state and local regulations, prior to contract

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							obligation.
595	Pest Management	AC	1	Invasive Plants—Chemical Control	AC	<ul style="list-style-type: none"> Treatment of invasive plants with chemicals (following mechanical control with CP 314), and re-treatment with chemical herbicides if necessary 	
614	Watering Facility	EA	20	Permanent – Tank & foundation	EA	<ul style="list-style-type: none"> Prices for permanent facilities, installed. See pipeline, spring development, and pumping plant for associated practices. 	<ul style="list-style-type: none"> Eligible only as part of a prescribed grazing system
				Moveable tank	EA	<ul style="list-style-type: none"> Prices for moveable tank and all components, installed. See pipeline, spring development, and pumping plant for associated practices. 	
				Frost free tank	EA	<ul style="list-style-type: none"> For a freeze protected tank, including valve. See pipeline, spring development, and pumping plant for associated practices. 	
				Waterer with Nose Pump	EA	<ul style="list-style-type: none"> Prices for installed nose pump system. See pipeline, spring development, and pumping plant for associated practices. 	
642	Water Well	No.	20	Well, All types	EA	<ul style="list-style-type: none"> One cost for all types of well 	<ul style="list-style-type: none"> Only for Livestock Watering To facilitate animal distribution for prescribed grazing Not for barnyard water.
				Well yield test	EA	<ul style="list-style-type: none"> One price for well yield test, authorized for new or existing wells to determine design yield and drawdown for irrigation or livestock wells. Use this only when the estimated yield is not sufficient to complete the design of the system. 	