

EQIP Practice Guide Massachusetts 2010

Practice Code	Practice Name	Practice Unit	Lifespan (years)	Scenario	Payment Unit	Scenario Notes	State Program Rules
102	Comprehensive Nutrient Management CAP	No.	1	Small CNMP	No.	<ul style="list-style-type: none"> Small AFO with < 100 a.u. and < 100 acres of cropland. 	<ul style="list-style-type: none"> Conservation Activity Plans (CAP) must be prepared by a certified Technical Service Provider (TSP) to be eligible for payment. Plans must comply with CAP criteria listed in Section III of MA eFOTG. Includes evaluation of all components of plan as needed, plan write-up, and recordkeeping documents.
				Medium CNMP	No.	<ul style="list-style-type: none"> Medium sized AFO with 100-250 a.u. with 100-250 acres of cropland. 	
				Large CNMP	No.	<ul style="list-style-type: none"> CAFO with >250 animal units and >200 acres of cropland. 	
106	Forest Management CAP	No	1	10-36 Acres	No.	<ul style="list-style-type: none"> Forestry CAP for areas of 10-36 acres. 	
				36-100 Acres		<ul style="list-style-type: none"> Forestry CAP for areas of 36-100 acres. 	
				100-200 Acres		<ul style="list-style-type: none"> Forestry CAP for areas of 100-200 acres. 	
				>200 Acres		<ul style="list-style-type: none"> Forestry CAP for areas greater than 200 acres. 	
114	Integrated Pest Management CAP	No.	1	IPM CAP Vegetable/Small Fruit	No.	<ul style="list-style-type: none"> One size fits all operations. 	
309	Agrichemical Handling Facility	No.	15	Facility without Roof	SF	<ul style="list-style-type: none"> A curbed, concrete pad (drive-through type assumed) without a roof Includes excavation, sand or gravel for subgrade, concrete floor with curbs, sealant, pump, sump, etc; also rinsate tanks, eyewash, lockers, if needed. See Waste Facility Cover (367) for the roof. 	
313	Waste Storage Facility	No.	15	Stacking Facility	CF	<ul style="list-style-type: none"> Cost per cubic feet of nominal total structure capacity (H x W x L) 3-sided concrete facility with concrete floor assumed. Includes all excavation, gravel, and earthfill for construction 5 months storage used as average situation Other associated practices not included: drainage for walls (606), fence (382), seeding (342), roof (367). Add these practices separately as needed. 	<ul style="list-style-type: none"> Bedded pack, loose house barns that provide the combined functions of waste storage, barnyard area protection and housing, all in one, shall be prorated for 2/3 of the total eligible costs of the basic structure (Ref. CPM 440-V – Amendment MA-3).
				Concrete Liquid Storage	CF	<ul style="list-style-type: none"> Cost per cubic feet of nominal total structure capacity (H x W x L) 4-sided concrete facility with concrete floor assumed. 	

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						<ul style="list-style-type: none"> Includes all excavation, gravel, and earthfill for construction 6 months storage used as average situation Other associated practices not included: drainage for walls (606), fence (382), waste transfer (634), seeding (342), roof (367). Add these practices separately as needed. 	
				Relocated SlurryStore	CF	<ul style="list-style-type: none"> Cost per cubic feet of nominal total structure capacity <u>Used</u> (approved relocated structure), with foundation, concrete floor, new stainless steel starter ring, side-mount pump. Other associated practices not included: waste transfer (634 - reception pit, pump, and pipe), seeding (342). Add these practices separately. 	
				Glassed-Lined Steel Tank scenarios for: < 50,000 ft ³ 50,000 – 100,000 ft ³ 100,000 – 200,000 ft ³ 200,000 – 400,000 ft ³ > 400,000 ft ³	CF	<ul style="list-style-type: none"> Cost per cubic feet of nominal total structure capacity <u>New</u> glassed lined steel (GLS) tank (SlurryStore or comparable pre-approved structure); installed, with side-mount pump Other associated practices not included: waste transfer (634 - reception pit, pump, and pipe), seeding (342). Add these practices separately. 	
				Wastewater Storage Tank	Gallon	<ul style="list-style-type: none"> A storage tank to temporarily store silage leachate or milkhouse wastewater. Includes 50 ft of PVC pipe and sewage pump. See waste transfer (634) for associated pipes and/or pumps. 	
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 Land management practice payment (ref. 515.81).
				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 	
316	Animal Mortality Facility	No.	15	Concrete Paving	SF	<ul style="list-style-type: none"> For windrow composting of dead animals in an already enclosed facility, where only a concrete floor is required. 	

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				Mortality Bin Composter	SF	<ul style="list-style-type: none"> • Priced per sq. ft. of bin area, excluding apron (e.g., 4 bins @ 5'x5' = 100 sf) • Costs Include concrete floor and apron, timber bins, timber or concrete walls, roof 	
317	Compost Facility	No.	15	Concrete Paving	SF	<ul style="list-style-type: none"> • Costs per square foot for reinforced concrete paving, which includes all excavation, fill, and crushed stone. Add seeding (342) and roof (367) separately. 	
				Concrete Paving, Curbs	SF	<ul style="list-style-type: none"> • Costs per square foot for reinforced concrete paving, which includes all excavation, fill, and crushed stone. Add seeding (342) and roof (367) separately. • Concrete curbs included; combination of normal and drive-over curbs 	
				Asphalt Paving	SF	<ul style="list-style-type: none"> • Costs per square foot for asphalt paving (3" base and 2" top course), which includes all excavation, fill, and crushed stone. Add seeding (342) and roof (367) separately. 	
				Asphalt Paving, Curbs	SF	<ul style="list-style-type: none"> • Costs per square foot for asphalt paving (3" base and 2" top course), which includes all excavation, fill, and crushed stone. Add seeding (342) and roof (367) separately. • Asphalt curbs included; combination of normal and drive-over curbs 	
				Compacted Gravel Paving	SF	<ul style="list-style-type: none"> • Costs per square foot for compacted gravel paving, which includes all excavation, fill, geotextile, crushed stone, and stone dust. Add seeding (342) and roof (367) separately. 	
324	Deep Tillage	AC.	1	Chisel, Rip, Subsoiling > 10"	AC	<ul style="list-style-type: none"> • Deep plowing (10" or more). Benchmark condition for soil compaction shall be measured with a dial penetrometer and shall exceed 200 PSI to be considered a resource concern. 	<ul style="list-style-type: none"> • For compaction >200 psi (document penetrometer reading)
327	Conservation Cover	AC	3	Between Rows of Perennial Crops	AC	<ul style="list-style-type: none"> • Cost includes seed bed prep, soil amendments & application, seed and seeding 	<ul style="list-style-type: none"> • Vegetative practice rule (ref. 515.81).
				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 • Includes forgone income based on hay/corn rotation 	<ul style="list-style-type: none"> • For land use conversion.

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				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 Includes forgone income based on hay/corn rotation 	
328	Conservation Crop Rotation	AC	1	Hay/crop Rotation	AC	<ul style="list-style-type: none"> For livestock/forage systems Fields have been in continuous corn Costs DO NOT include the additional establishment of a hay rotation Planner should also schedule CP 512 Pasture & Hayland Planting. 	<ul style="list-style-type: none"> Length of rotation into hay must be a minimum of 5 years; vegetable rotations must include 1 year fallow (green manure). Planned rotation systems must meet soil tolerance criteria per RUSLE2 Limited to one payment, paid when rotation goes into hay or fallow/green manure for vegetables. Land management practice (ref. 515.81).
				Vegetable Rotation	AC	<ul style="list-style-type: none"> Costs DO NOT include the establishment of green manure during the one-year fallow period. Planner should schedule CP 340 Cover Crop for fallow period Costs include forgone income for fallow period 	
329	Residue Management, No Till/Direct Seed	AC	1	No-till Establishment of Row Crops	AC	<ul style="list-style-type: none"> Costs include spray-down, seed treatment and no-till planting (not the seed) 	<ul style="list-style-type: none"> Land management practice (ref. 515.81).
330	Contour Farming	AC	1	Establishment	AC	<ul style="list-style-type: none"> To establish practice. Baseline must be documented. 	<ul style="list-style-type: none"> Land management practice (ref. 515.81).
340	Cover Crop	AC	1	Summer Cover Crop / Green Manure	AC	<ul style="list-style-type: none"> Summer cover crops are grown throughout the growing season according to Cover Crop (340) Specification Guide Summer cover crops will be plowed down the following spring OR if plowed down in the same season, a winter cover crop must be established per 340 Specifications. Cover crop must be established by seeding date in the Cover Crop (340) Specification Guide 	<ul style="list-style-type: none"> Vegetative practice rule (ref. 515.81).
				Winter Rye w/ Disk Harrow	AC		
				Winter Rye w/ No Till Drill	AC		
				Vetch/Oats w/ Disk Harrow	AC		
				Vetch/Rye w/ Disk Harrow	AC		

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342	Critical Area Planting	AC	10	Field Erosion	AC	<ul style="list-style-type: none"> Severely eroding crop fields protected by permanent vegetation Use farm equipment to disk plow, harrow, seed and spread lime/fertilizer Manual labor to spread mulch Seeding Mix #5 - Specification Guide (cool season grasses) 	<ul style="list-style-type: none"> Vegetative practice (ref. 515.81).
				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) 	<ul style="list-style-type: none"> Funded under EQIP unless associated with an anaerobic digester (366), which is funded under EQIP-AQ.
				Spoil Banks	AC	<ul style="list-style-type: none"> Spoil banks, low embankments, sand/gravel pits, steep slopes, roadsides Small bulldozer used to prepare site and track seed Includes material and hand labor for lime, fertilizer, seed and mulch Seeding Mix #3 - Specification Guide (excessively droughty/low pH soils) 	
				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) 	
				Tree & Shrub Establishment	AC	<ul style="list-style-type: none"> Steep eroding bank (25+% slopes) Hand tools and labor to prepare site, lime, fertilize, plant, seed and mulch Wattles used at an offset of 10 feet Live stakes used at 8 ft on center to hold wattles in place Low rate grass seeding (conservation mix/oats) to help establish site 	

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350	Sediment Basin	No.	20	Settling Facility, Concrete	CF	<ul style="list-style-type: none"> For Ag waste purpose; Used primarily for barnyard runoff to settle solids prior to discharge to treatment strip Cost per cubic feet of nominal total structure capacity. Use Excel Barnyard Settling Facility Design worksheet (in WWTS workbook) to size facility. Includes screen box and filter Other associated practices not included: waste transfer (634), seeding (342). Add these practices separately. 	
356	Dike	FT	20	Cranberry Dike, mineral soils	LF	<ul style="list-style-type: none"> Cranberry dikes located over predominately mineral foundation soils, where little settlement is anticipated. Includes all work need to construct the dike. Add Seeding (342) separately. 	
				Cranberry Dike, organic soils	LF	<ul style="list-style-type: none"> Cranberry dikes on organic soils where significant settlement is expected; includes successive applications of fill to stabilize dike. Add Seeding (342) separately. 	
362	Diversion	FT	10	Diversion	LF	<ul style="list-style-type: none"> Includes all excavation and earthfill needed to construct the diversion. Does not include underground outlet and riser (620), subsurface drainage (606), and seeding (342). Add these practices separately. 	
366	Anaerobic Digester (Controlled Temp)	No.	25	Digester, Controlled Temperature	No. of milking cows	<ul style="list-style-type: none"> Projects will have feasibility study reviewed to determine feasibility and eligible costs prior to contract signing. Priced per milking cow for the design capacity Does not include generator, solids separation, or storage components. 	<ul style="list-style-type: none"> Generator not eligible for payment under 366
367	Waste Facility Cover	No.	10	Roof	SF	<ul style="list-style-type: none"> Cost per square foot of the roof footprint, including the roof overhangs. 	<ul style="list-style-type: none"> Can only add a roof to an existing facility (309, 313, 317, 561) if the facility meets the applicable NRCS standard.
370	Atmospheric Resource Quality Management	AC	10	Greenhouse Energy/Shade Screens Prices for 3 size ranges of jobs	SF	<ul style="list-style-type: none"> Truss-to-truss or gutter-to-gutter ceiling screens and side screens with mechanical system to close and open. 	<ul style="list-style-type: none"> Funded under EQIP-AQ only Energy Audit required prior to ranking and obligation of funds.
				Greenhouse HAF Fan	EA	<ul style="list-style-type: none"> Horizontal Air flow fan system, consisting of several high efficiency fans. 	
				Aquaculture Engine Removal	EA	<ul style="list-style-type: none"> Must certified termination of use via dump receipt. 	<ul style="list-style-type: none"> For remote aquaculture

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							operations
378	Pond	No.	20	Excavated, spread < 300'	CY	<ul style="list-style-type: none"> Excavated ponds only (not embankment ponds – see 378 standard) Costs per cubic yard of excavation. Choose the appropriate method of handling the spoil. Add seeding (342) separately 	<ul style="list-style-type: none"> For livestock watering ponds only; 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.
				Excavated, hauled & spread on-site	CY		
				Excavated, hauled off-site	CY		
380	Windbreak/ Shelterbelt Establishment	LF	15	2 – Row Windbreak	LF	<ul style="list-style-type: none"> Assumes 2 rows of plants (1 row of conifer trees and 1 row of deciduous shrubs) to be planted upwind of Headquarters 	
382	Fence	LF	20	Chain Link	LF	<ul style="list-style-type: none"> Permanent barrier fence constructed around a waste storage facility All materials and fixtures and labor included in price Gates included in price 	<ul style="list-style-type: none"> Safety fence for exclusion from a potentially dangerous area – not for grazing infrastructure
				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 Fence charger is included in 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.
				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 Fence charger is included in the cost 	<ul style="list-style-type: none"> Permanent fence is eligible when used in conjunction with a prescribed grazing system, or when excluding animals from water resources, or for protecting practices or safety in association with a practice.
				High Tensile Electric	LF	<ul style="list-style-type: none"> 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"> 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

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							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 	<ul style="list-style-type: none"> Ref. 515.91(B) Ineligible Cost Table.
				Board Fence	LF	<ul style="list-style-type: none"> Cost includes 3 boards and all labor and materials for a fence with 16' post spacing. Gates are included in the cost 	<ul style="list-style-type: none"> Eligible for barnyard or safety fence without a prescribed grazing system. Boundary or property line fence rule is same as above.
				Deer Fence	AC	<ul style="list-style-type: none"> Assumes documented damage to permanent vegetation (i.e. orchard trees) during establishment; not based on crop production. Assumes 8 ft. high fencing with 4x4 wooden posts; tubular metal gate Fence meets manufacturer's specifications 5-10 year lifespan 	<ul style="list-style-type: none"> Not eligible if sole purpose is for production. Landowners must be currently maintaining "High" IPM per UMass Guidesheets for the specific crop.
384	Forest Slash Treatment	AC	10	Slash treatment	AC	<ul style="list-style-type: none"> Includes all costs to treat slash (lopping, crushing, hauling, burning or chipping) so that ultimate conservation objective can be achieved. 	<ul style="list-style-type: none"> Only for situations where forest slash prevents conservation objective.
386	Field Border	LF	10	Establishment – corn silage	LF	<ul style="list-style-type: none"> Cost includes soil amendments and application, seed and seeding. Non native cool season grasses Includes forgone income based on conversion of silage corn land 	
				Establishment - vegetables	LF	<ul style="list-style-type: none"> Cost includes soil amendments and application, seed and seeding. Non native cool season grasses Includes forgone income based on conversion of sweet corn crop 	
				Establishment – pollinator habitat	LF	<ul style="list-style-type: none"> Cost includes soil amendments and application, seed and seeding. A minimum of 9 flowering plant species must be included in the seed mix and 30 shrubs/acre if applicable. 	
				Establishment – pollinator habitat (herbaceous + shrubs)		<ul style="list-style-type: none"> Includes forgone income based on conversion of sweet corn crop and loss of profit on 80 CWT. 	

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390	Riparian Herbaceous Buffer	AC		Establishment from vegetable crop	AC	<ul style="list-style-type: none"> Cost includes soil amendments and application, seed and seeding to a mix of native and non-native grasses/forbs Includes forgone income based on conversion of sweet corn 	<ul style="list-style-type: none"> For wood turtle habitat management; other scenarios will be determined on a case by case basis.
				Establishment from corn silage	AC	<ul style="list-style-type: none"> Cost includes soil amendments and application, seed and seeding to a mix of native and non-native grasses/forbs Includes forgone income based on conversion of silage corn 	
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
				Natural Regeneration	AC	<ul style="list-style-type: none"> Located adjacent to and up-gradient from watercourses or water bodies Control of invasive plants through mowing, chemical treatment and/or shrub/sapling management 	
				Buffer in Forest	AC	<ul style="list-style-type: none"> Cost includes on-the-ground designation of buffer and enhancement planting of 2-0 seedlings at density of 100 trees per acre Trees do NOT have protectors 	
393	Filter Strip	AC	10	Seeding and Mulch	AC	<ul style="list-style-type: none"> Costs of seeding and mulch taken from CAP for disturbed areas 	
394	Firebreak	LF		Construct Firebreak	LF	<ul style="list-style-type: none"> Cost includes clearing of woody vegetation/flammable material to create 50' wide firebreak and seeding to grass 	
410	Grade Stabilization Structure	No.	15	Pipe Detention Structure	EA	<ul style="list-style-type: none"> Pipe structure with earthfill, where sufficient temporary storage is available to handle the design flow while reducing the size of the principal spillway pipe. Consists of CMP or HDPE pipe with elbow and bands, and associated earthwork. Seeding included. 	
				Full Flow Pipe Structure	EA	<ul style="list-style-type: none"> Pipe structure with earthfill, with no temporary storage. Pipe takes the design flow. 	

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						<ul style="list-style-type: none"> Consists of CMP or HDPE pipe and riser, with associated excavation and earthfill. Seeding included. 	
				Rock Chute Structure	LF	<ul style="list-style-type: none"> Same price as Lined Waterway. Consists of excavation, filter (sand or geotextile), riprap. Seeding included. 	
				Catch basin, ≤ 24" pipe	LF	<ul style="list-style-type: none"> For grade control; structure might be detention or full flow. Includes catch basin, pipe, flap-type animal guard, if needed. Also includes earthwork required for berm to ensure pipe carries the flow. If structure is for surface drainage, use Underground Outlet (620) 	
				Catch basin, > 24" pipe	LF	<ul style="list-style-type: none"> For grade control; structure might be detention or full flow. Includes catch basin, pipe, flap-type animal guard, if needed. Also includes earthwork required for berm to ensure pipe carries the flow. If structure is for surface drainage, use Underground Outlet (620) 	
412	Grassed Waterway	AC	10	Grass	LF	<ul style="list-style-type: none"> Includes grading and shaping, excavation and fill, seeding, and an erosion control blanket. Does not include subsurface drainage (606). Add separately if needed. 	
				Stone Center	LF	<ul style="list-style-type: none"> Includes the above costs, but also includes a stone center (1/3 of total width), used to handle continuous low flows where vegetation cannot be established due to wetness. The price does not include larger rock for erosion control due to excess velocity, which would be handled under 468, Lined Waterway or Outlet. 	
430DD	Irrigation Water Conveyance	FT	20	Sprinkler, hi-flow systems	Diam. In-Ft	<ul style="list-style-type: none"> Irrigation mainline for higher flow systems, such as center pivot, traveling gun, big gun, and solid set (non-cranberry), where few hydrants are needed Includes valves, fittings, thrust blocks, and appurtenances Diam In-Ft = nominal pipe diameter (inches) x pipe length (feet). Example: 500 ft of 4 inch pipe = 2000 diam in-ft. 	
				Sprinkler, portable laterals	Diam. In-Ft	<ul style="list-style-type: none"> Same as above, except assumes more hydrants. Use for portable lateral or similar situations where many hydrants are needed. 	

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				Microirrigation systems (2 scenarios)	Diam. In-Ft	<ul style="list-style-type: none"> Mainline for micro systems, separate scenarios for $\leq 2''$ and for $> 2''$ mainline. Costs include manifolds, valves, valve boxes, and appurtenances. Includes screen or disk filter. If sand media filter is needed, add as a component. Diam In-Ft = nominal pipe diameter (inches) x pipe length (feet). Example: 500 ft of 2 inch pipe = 1000 diam in-ft. 		
				Media Filter, Single Tank Filter	EA	<ul style="list-style-type: none"> Add as a separate component for micro-irrigation systems that need a sand media filter. Small micro system with a single tank; no flushing manifold. 		
				Media Filter, Double Tank Filter	EA	<ul style="list-style-type: none"> Add as a separate component for micro-irrigation systems that need a sand media filter. For larger micro systems, and with flushing manifold. 		
				Cranberry, Mainline	AC	<ul style="list-style-type: none"> The mainline for a cranberry irrigation system that will achieve the minimum 85% CU. Different cost share rates for systems that meet the minimum criteria for washoff time (8 minutes maximum), and for those systems that meet the higher criteria for washoff time (5 minutes maximum). Includes all materials and labor to install the mainline. Sand filters for cranberry irrigation systems are covered under Irrigation System, Sprinkler (442) 		
				Cranberry Mainline Retrofit	Diam. In-Ft	<ul style="list-style-type: none"> Sub-mains brought into the bog to improve washoff times. Different cost share rates for meeting minimum (8 minutes) vs. higher criteria (5 minutes) for maximum washoff time. Diam In-Ft = nominal pipe diameter (inches) x pipe length (feet). Example: 500 ft of 4 inch pipe = 2000 diam in-ft. 		<ul style="list-style-type: none"> Cranberry retrofit for the purpose of reducing washoff time is eligible for systems not previously cost-shared under EQIP (1998-present).
				TW Recovery Conveyance	Diam. In-Ft	<ul style="list-style-type: none"> Mainlines to convey water from bogs to TW Recovery pond. Diam In-Ft = nominal pipe diameter (inches) x pipe length (feet). Example: 500 ft of 4 inch pipe = 2000 diam in-ft. 		
436	Irrigation	Ac-Ft	15	Excavated, spread < 300'	CY	<ul style="list-style-type: none"> Excavated ponds only (not embankment ponds - see 378) 	<ul style="list-style-type: none"> Must meet all applicable provisions 	

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	Storage Reservoir (Pit)					standard) <ul style="list-style-type: none"> Costs per cubic yard of excavation. Choose the appropriate method of handling the spoil. Add seeding (342) separately 	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.
				Excavated, hauled & spread on-site	CY		
				Excavated, hauled off-site	CY		
441	Irrigation System, Microirrigation	AC.	15	Orchards and small fruit, durable laterals	AC	<ul style="list-style-type: none"> Conversion of irrigation system to improve system efficiency (water conservation). 	
				Vegetables, durable laterals	AC	<ul style="list-style-type: none"> For durable laterals in the field (not disposable tape). Mainlines, submains, filters, valves, manifolds, etc. covered under 430DD Separate price for orchards and vegetables to account for crop spacing. 	
				Greenhouse, Microirrigation conversion	AC	<ul style="list-style-type: none"> Priced by acre of irrigated plant area for greenhouse irrigation; conversion from overhead. 	
442	Irrigation System, Sprinkler	AC.	15	Cranberry Systems <ul style="list-style-type: none"> Swap Heads with filter Retrofit Retrofit with filter System Replacement System Replacement with filter 	AC	<ul style="list-style-type: none"> Cranberry systems; priced by the acre Retrofit and System Replacement systems have different payment rates depending on meeting minimum or higher criteria as follows: <u>Minimum criteria:</u> CU ≥ 85%, DU ≥ 76%, SC ≤ 1.3, Min in/hr ≥ 0.095, Mean in/hr ≤ 0.25 <u>Higher criteria:</u> CU ≥ 87%, DU ≥ 78%, SC ≤ 1.2, Min in/hr ≥ 0.095, Mean in/hr ≤ 0.18 Prices also include cost of the risers, heads, and nozzles. Sand filter generally required for pop-up heads 	<ul style="list-style-type: none"> Retrofit only eligible for systems not previously cost-shared under EQIP (1998-present). Swapping heads and retrofitting heads & laterals require that the system meets the minimum criteria in the 442 standard plus minimum criteria for washoff time.
				Low Pressure (Center Pivot, Lateral Move)	AC	<ul style="list-style-type: none"> For conversion to low-pressure center pivot or lateral move systems for improvement of irrigation system efficiency 	
				Renozzle Existing Center Pivot to Low Pressure	LF	<ul style="list-style-type: none"> Cost for renozzling existing center pivots or lateral move systems to low pressure nozzles. 	
443	Irrigation System, Surface & Sub-surface	No.	15	Greenhouse Closed Irrigation System	SF	<ul style="list-style-type: none"> Examples include troughs, ebb & flow benches, flood floors, capillary mats, buoyant trays, and V-bottom beds. Price does <u>not</u> include the tailwater recovery system; Tailwater recovery is covered separately under 447. 	<ul style="list-style-type: none"> For closed (zero-runoff) sub-irrigation systems in greenhouses, where all runoff and leachate is collected and reused. Must include tailwater recovery (447).

Practice Code	Practice Name	Practice Unit	Lifespan (years)	Scenario	Payment Unit	Scenario Notes	State Program Rules
447	Irrigation Tailwater Recovery	No.	15	Excavated, spread < 300'	CY	<ul style="list-style-type: none"> Generally involves excavation of a new pond, or enlargement of an existing area to store water for reuse. 	<ul style="list-style-type: none"> For water quantity and/or water quality benefits. For cranberry pits, payment is for excavation up to the required storage volume for water recovery and re-use; not for hauling material off-site.
				Excavated, hauled & spread on-site	CY	<ul style="list-style-type: none"> Lift pump – see Pumping plant (533) Pipe to convey water to TW pond - see 430DD (TW Recovery Conveyance) 	
				Greenhouse Zero Discharge	SF	<ul style="list-style-type: none"> Used in conjunction with Surface and Subsurface Irrigation (443) to recover and reuse irrigation water from ebb and flow benches. Includes recovery tanks, sump, pipe, valves, controllers, pump as needed. Priced per square feet of flood benches served by the recovery system. 	
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 (<8") for pasture and hayland planting 	<ul style="list-style-type: none"> Cannot be used with 666 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. 	
466	Land Smoothing	AC	10	Cranberry Bog, Land Smoothing	AC	<ul style="list-style-type: none"> Leveling of the bog during bog renovation to reduce water needs for flooding. 	<ul style="list-style-type: none"> One payment per bog
468	Lined Waterway or Outlet	FT	15	Riprap Lined	LF	<ul style="list-style-type: none"> Includes grading and shaping, excavation and fill, delivery and installation of rock riprap, including filter (sand or geotextile), and seeding. This price is for rock riprap required to resist excess velocity, and not for stone center waterways, which are installed due to wetness. See Grassed Waterways (412), for stone centered waterways. 	
472	Access Control	AC	10	Standard Navigational Delineation	EA	<ul style="list-style-type: none"> Includes 20" Inflatable buoy, lines and anchor 	<ul style="list-style-type: none"> For marine shellfish operations, Use 382 for livestock exclusion
				Shellfish Buffer	LF	<ul style="list-style-type: none"> Assumes 5 ft. wide buffer x 832 linear feet/2 acre grant Foregone income included for area taken out of production 	
490	Tree/Shrub Site Preparation	AC	1	Chemical preparation –field	AC	<ul style="list-style-type: none"> Site prep for tree/shrub planting using herbicide to control competing vegetation 	

Practice Code	Practice Name	Practice Unit	Lifespan (years)	Scenario	Payment Unit	Scenario Notes	State Program Rules
				Disking preparation –field	AC	<ul style="list-style-type: none"> Site prep for tree/shrub planting by disking to control competing vegetation 	<ul style="list-style-type: none"> Eligible in forest only if landowner has a forest management plan
				Brontosaurus preparation	AC	<ul style="list-style-type: none"> Site prep for tree/shrub planting using brontosaurus to control competing vegetation (<5") 	
				Chemical prep - forest	AC	<ul style="list-style-type: none"> Site prep for tree/shrub planting using herbicide to kill competing trees. 	
				Dozer preparation	AC	<ul style="list-style-type: none"> Site prep for tree/shrub planting using dozer 	
				Tree shear preparation - forest	AC	<ul style="list-style-type: none"> Site prep for tree/shrub planting using tree shear to remove competing vegetation 	
				Manual preparation - forest	AC	<ul style="list-style-type: none"> Site prep for tree/shrub planting through manual removal of competing vegetation (i.e. chainsaw) 	
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 EQIP application is only for turtle habitat.
				Winter gear removal –epifaunal	AC	<ul style="list-style-type: none"> Assumes 300 lbs. plastic gear and 833 lbs. of heavy structural waste annually collected and disposed. 	<ul style="list-style-type: none"> Timely removal of shellfish gear to reduce the risk of accidental loss into the marine environment due to ice damage/hazardous weather. Must collect and dispose of waste nets and other gear within 7 days of removal and before hazardous weather.
				Winter gear removal –infaunal	AC	<ul style="list-style-type: none"> Assumes 1 ton/year waste gear collected and disposed 	
512	Pasture and Hayland Planting	AC	5	Rotate Continuous Crops to Hay/Crop Rotation	AC	<ul style="list-style-type: none"> Only for livestock forage systems Conservation Crop Rotation (328) should also be planned 	<ul style="list-style-type: none"> Length of rotation into hay must be a minimum of 5 years. Planned rotation systems must meet soil tolerance criteria per RUSLE2.
				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, which ever is more.

Practice Code	Practice Name	Practice Unit	Lifespan (years)	Scenario	Payment Unit	Scenario Notes	State Program Rules
				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 	
				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 	
				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. 	
521A	Pond Sealing or Lining	No.	20	Flexible Membrane Liner, Water	SF	<ul style="list-style-type: none"> To reduce seepage in a pond, for water conservation purposes. Includes liner, geotextile and installation. 	
				Flexible Membrane Liner, Waste	SF	<ul style="list-style-type: none"> For water quality purposes, generally ag-waste related. Includes heavier liner, geotextile and installation. 	
521C	Pond Sealing or Lining	No.	15	Bentonite Treatment	SF	<ul style="list-style-type: none"> To reduce seepage in a pond, for water conservation purposes. Includes bentonite material and installation (not for waste water) 	
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) 	<ul style="list-style-type: none"> Land management practice (ref. 515.81).
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 	

Practice Code	Practice Name	Practice Unit	Lifespan (years)	Scenario	Payment Unit	Scenario Notes	State Program Rules
				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 	
				Cranberry, Lift Pump, TW Recovery	EA	<ul style="list-style-type: none"> Lift pumps for cranberry tailwater recovery priced each (one price for all sizes) 	
				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 or small trickle irrigation. Includes cost of pump and tank 	
				Cranberry Auto-Start System, Basic	EA	<ul style="list-style-type: none"> Installation of a cranberry automation system to automate frost control irrigations. Basic unit allows grower to monitor pump and bogs remotely. Consists of pump auto-start kit, pump pressure sensor, at least one thermister temperature probe, remote monitoring system, software, and solar panel & battery (if needed). 	<ul style="list-style-type: none"> Funded under Cropland code.
				Cranberry Auto-Start System, Enhanced	EA	<ul style="list-style-type: none"> Installation of a cranberry automation system to automate frost control irrigations. Enhanced system allows grower to monitor and control the pump remotely. Consists of the same equipment as above, plus programmable controllers, additional pump sensors and controls.. 	
558	Roof Runoff Structure	No.	15	Gutters and downspouts	LF	<ul style="list-style-type: none"> Prices per foot of gutter, including installation and PVC cattle guard for downspouts Measure the roof edge distance for the length. The cost per foot includes the downspouts (do not add the length of the downspouts) Refer to Underground Outlet (620) for outlets for downspouts. 	<ul style="list-style-type: none"> Use 382 for livestock exclusion, as needed.
				Gutters and Drywell	LF	<ul style="list-style-type: none"> Same as gutters and downspouts, but also includes a dry well to serve as an outlet. 	
				French drain	LF	<ul style="list-style-type: none"> Used where gutters not feasible on a building, and where cattle are excluded from the drain. 	

Practice Code	Practice Name	Practice Unit	Lifespan (years)	Scenario	Payment Unit	Scenario Notes	State Program Rules
						<ul style="list-style-type: none"> The french drain price includes the perforated tubing within the gravel trench. Refer to Underground Outlet (620) for outlets for french drains. 	
				Dry Well	EA	<ul style="list-style-type: none"> As an outlet to an existing roof runoff system that is causing surface erosion 	
				Recovery Tank	Gallon	<ul style="list-style-type: none"> Used to recover rainwater for irrigation or other uses. Priced per gallon of capacity. 	
560	Access Road	FT	10	Access Road	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. 16 ft wide with one 12" culvert per 500 ft of length assumed. Does not include subsurface drain (606) and seeding (342). Add these practices separately as needed. 	<ul style="list-style-type: none"> New access roads--only for animal waste management systems. Existing access roads-- erosion control only.
				Forest Erosion Control	LF	<ul style="list-style-type: none"> Installation of broad based dips, ditching, and seeding to control erosion. 	<ul style="list-style-type: none"> Only on existing forest roads.
561	Heavy Use Protection	AC	10	Concrete Paving	SF	<ul style="list-style-type: none"> Costs per square foot for reinforced concrete paving, which includes all excavation, fill, and crushed stone. Add seeding (342), fence (382), & roof (367) separately. 	<ul style="list-style-type: none"> Bedded pack, loose house barns that provide the combined functions of waste storage, barnyard area protection and housing, all in one, shall be prorated for 2/3 of the total eligible costs of the basic structure (Ref. CPM 440-V – Amendment MA-3).
				Concrete Paving, Curbs	SF	<ul style="list-style-type: none"> Costs per square foot for reinforced concrete paving, which includes all excavation, fill, and crushed stone. Concrete curbs on three sides, including two 16 ft drive-over curbs Refer to Vegetated Treatment Area (635) for slotted curbs associated with barnyards. Add seeding (342), fence (382), & roof (367) separately. 	
				Concrete Paving, Curbs & Buckwall	SF	<ul style="list-style-type: none"> Same as Concrete Paving with Curbs, but also includes a 10 ft long x 4 ft. high reinforced concrete buckwall. Add seeding (342), fence (382), & roof (367) separately. 	
				Asphalt Paving	SF	<ul style="list-style-type: none"> Costs per square foot for asphalt paving (3" base and 2" top course), which includes all excavation, fill, and crushed stone. Add seeding (342), fence (382), & roof (367) separately. 	
				Asphalt Paving, Curbs	SF	<ul style="list-style-type: none"> Costs per square foot for asphalt paving (3" base and 2" 	

Practice Code	Practice Name	Practice Unit	Lifespan (years)	Scenario	Payment Unit	Scenario Notes	State Program Rules
						<ul style="list-style-type: none"> top course), which includes all excavation, fill, and crushed stone. Asphalt curbs on three sides, including two 16 ft drive-over curbs Add seeding (342), fence (382), & roof (367) separately. 	
				Compacted Gravel Paving	SF	<ul style="list-style-type: none"> Costs per square foot for compacted gravel paving, which includes all excavation, fill, geotextile, crushed stone, and stone dust. Add seeding (342), fence (382), & roof (367) separately. 	
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. 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"> 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. Only for grazing systems
				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. 	
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,
				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. 	

Practice Code	Practice Name	Practice Unit	Lifespan (years)	Scenario	Payment Unit	Scenario Notes	State Program Rules
				Culvert for Fish Passage	SF	<ul style="list-style-type: none"> Culvert(s) assumed to span the stream width to ensure passage of fish and other wildlife, according to MA Stream Crossing requirements. Priced by the square foot of the travel portion of the crossing, top of bank to top of bank. 	National Food Security Act and any other federal, state and local regulations, prior to contract obligation.
			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 	
582	Open Channel	FT	15	By-Pass Channel	LF	<ul style="list-style-type: none"> Priced by the lineal foot. No rock protection required. Refer to Structure for Water Control (587) and Critical Area Planting (342) for associated practices. 	<ul style="list-style-type: none"> For cranberry by-pass channels 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.
				By-Pass Channel with Rock	LF	<ul style="list-style-type: none"> As above, but with rock protection for excess velocities 	
585	Stripcropping	AC	5	Establishment	AC	<ul style="list-style-type: none"> Layout, installation and maintenance of strips Does not include planting strips – use 328 if a crop rotation is being implemented. 	<ul style="list-style-type: none"> Land management practice Strips must be maintained for the life of the practice (5 years).
587	Structure for Water Control	No.	20	PVC, In-line WCS, ≤ 10" barrel	EA	PVC structure with stop logs for water level control (for constructed wetland, for example)	
				PVC, In-line WCS, > 10" barrel	EA		
				Culvert, ≤ 24" Diameter	Diam. In-Ft	<ul style="list-style-type: none"> To convey surface water under a road. Do not add this 	

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				Culvert, > 24" Diameter	Diam. In-Ft	<p>scenario to Access Roads and Animal Trails since culverts already accounted for.</p> <ul style="list-style-type: none"> Includes excavation and installation of N-12 or CM Pipe Priced by diameter in- feet for ≤ 24" and > 24" diameter Diam In-Ft = nominal pipe diameter (inches) x pipe length (feet). Example: 40 ft of 18 inch pipe = 720 diam in-ft. 	
				Cranberry WCS 20 scenarios based on diameter of barrel and riser, and for extra pipe.	EA	<ul style="list-style-type: none"> Aluminum structures for Cranberry bogs, prices including riser, base plate, and side wings. Includes 20 ft of annular aluminum pipe. Includes installation. Scenarios that include 20 ft of extra pipe (beyond the 20 ft included with the structure), for aluminum or HDPE pipe. 	
590	Nutrient Management	AC	1	With Manure	AC	<ul style="list-style-type: none"> Manure/compost is managed along with synthetic fertilizers 	<ul style="list-style-type: none"> Land management practice, (ref. 515.81).
				No Manure	AC	<ul style="list-style-type: none"> No inputs of manure or compost are utilized, only synthetic fertilizers are managed. 	
595	Pest Management	AC	1	Vegetable and Small Fruit— Medium Level IPM	AC	<ul style="list-style-type: none"> Scouting records for pests must be submitted annually as part of the practice certification. Landowner will achieve a rating of "Medium" per UMass IPM Guidesheets for the specific crops grown 	<ul style="list-style-type: none"> Land management practice, (ref. 515.81).
				Vegetable and Small Fruit— High Level IPM	AC	<ul style="list-style-type: none"> Scouting records for pests must be submitted annually as part of the practice certification. Landowner will achieve a rating of "High" per UMass IPM Guidesheets for the specific crops grown 	
				Orchards—Medium Level IPM	AC	<ul style="list-style-type: none"> Scouting records for pests must be submitted annually as part of the practice certification. Landowner will achieve a rating of "Medium" per UMass IPM Guidesheets for the specific crop 	
				Orchards—High Level IPM	AC	<ul style="list-style-type: none"> Scouting records for pests must be submitted annually as part of the practice certification. Landowner will achieve a rating of "High" per UMass IPM Guidesheets for the specific crops grown 	

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				Old Orchard Removal	AC	<ul style="list-style-type: none"> Removal and destruction of old/standard orchard trees Root rake land followed by seedbed preparation Tree destruction may include burning or windrowing One year of annual crops/cover crop to break disease cycles May be replaced by new blocks of dwarf varieties following cover crop 	<ul style="list-style-type: none"> One practice payment Must achieve a rating of "Medium" per UMass IPM Guidesheets.
				Cranberry Sanding	AC	<ul style="list-style-type: none"> Landowner must achieve a rating of "Medium" per UMass IPM Guidesheet 	
				Cranberry—Medium Level IPM	AC	<ul style="list-style-type: none"> Landowner must achieve a rating of "Medium" per UMass IPM Guidesheet 	<ul style="list-style-type: none"> Land management practice, (ref. 515.81).
				Invasive Plants—Mechanical/Chemical Control	AC	<ul style="list-style-type: none"> Treatment of invasive plants with chemicals, and re-treatment if necessary 	
				Invasive Plants—Intensive Control	AC	<ul style="list-style-type: none"> Treatment of invasive plants with chainsaw immediately prior to herbicide application. Only one intensive treatment is allowed per area. 	
				Invasive Plants – Biological Control of Purple Loosestrife	AC	<ul style="list-style-type: none"> Treatment of purple loosestrife using biological control Entails release of 10,000 <i>Galerucella</i> beetles per acre 	
				Invasive Phragmites control	AC	<ul style="list-style-type: none"> Treatment of Phragmites using chemical and/or mechanical control 	
				Shellfish disease control	AC	<ul style="list-style-type: none"> Annual pathology test, data logger, monitoring and recordkeeping 	<ul style="list-style-type: none"> Marine shellfish growing areas Land management practice, (ref. 515.81).
600	Terrace	FT	10	Terrace	LF	<ul style="list-style-type: none"> Includes all excavation and earthfill needed to construct the terrace, including seeding. Refer to Underground Outlet (620) for riser and outlet. Refer to Subsurface Drainage (606) if needed. 	
606	Subsurface Drainage	FT	20	PE Tubing, Gravel Envelope	LF	<ul style="list-style-type: none"> Used in association with other practices to provide better suitability for vegetation, or as a cutoff drain to control seeps. Price listed is for all sizes (price for 6" assumed), with a gravel trench. 	<ul style="list-style-type: none"> Eligible only if the practice does not alter the hydrology of an existing wetland Eligible only in association with another practice such as waste

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						<ul style="list-style-type: none"> Refer to Underground Outlet (620) for tubing and outlet pipe to carry the flow to an outlet. 	storage facility, waterway, terrace, Stripcropping, or otherwise approved on a case by case basis.
			PE Tubing, No Envelope	LF	<ul style="list-style-type: none"> Used in association with other practices to provide better suitability for vegetation Price listed is for all sizes (price for 6" assumed). Refer to Underground Outlet (620) for tubing and outlet pipe to carry the flow to an outlet. 		
			Footing Drains 3 scenarios for Backfill cases	LF	<ul style="list-style-type: none"> Footing drains for behind concrete walls, especially waste storage facilities. Prices based on the backfill soil material, and include PE tubing, sock, crushed stone, and/or filter sand, depending on the backfill case. Payment schedule document contains the standard drawing for 313 backfill to determine the backfill case 		
612	Tree/Shrub Establishment	AC	15	200 Plants/Acre with Protectors	AC	<ul style="list-style-type: none"> Price includes plants, equipment and labor 200 trees/shrubs per acre, 2-3 ft bare root, with protectors, mats, stakes 	<ul style="list-style-type: none"> Eligible only to improve wildlife habitat Vegetative practice
				200 Plants/Acre without Protectors	AC	<ul style="list-style-type: none"> Price includes plants, equipment and labor 200 trees/shrubs per acre, 2-3ft bare root 	
				300 Plants/Acre with Protectors	AC	<ul style="list-style-type: none"> Price includes plants, equipment and labor 300 trees/shrubs per acre, 2-3 ft bare root, with protectors, mats, stakes 	
				300 Plants/Acre without Protectors	AC	<ul style="list-style-type: none"> Price includes plants, equipment and labor 300 trees/shrubs per acre, 2-3 ft bare root 	
				Forest Regeneration – conifer planting	AC	<ul style="list-style-type: none"> Price includes plants, equipment and labor 800 trees/acre, 2-0 seedlings, no protectors 	<ul style="list-style-type: none"> Eligible only if landowner has a forest management plan
				Forest Regeneration – hardwood planting	AC	<ul style="list-style-type: none"> Price includes plants, equipment and labor 700 trees/acre, 2-0 seedlings, no protectors 	
				Forest Regeneration – direct seeding	AC	<ul style="list-style-type: none"> Price includes seed and labor 4500 white pine seeds/acre (.167lb/ac) 	

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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. 	
620	Underground Outlet	FT	20	4" to 10" with outlet pipe	Diam. In-Ft	<ul style="list-style-type: none"> For outlets of roof runoff and subsurface drains, where no riser is required. Includes PE tubing, outlet pipe, and animal guard. Diam In-Ft = nominal pipe diameter (inches) x pipe length (feet). Example: 200 ft of 4 inch pipe = 800 diam in-ft. 	
				Surface Drain - riser, pipe, & outlet	LF	<ul style="list-style-type: none"> For outlets to terraces, WASCOB, and for surface drainage where a riser is needed. See 634 for riser and outlet for agwaste related applications. Includes riser assembly (plastic or metal pipe), non-perforated PE tubing, PVC or CMP outlet pipe, and flap-type animal guard. 	
				Surface Drain – catch basin, < 12" pipe	LF	<ul style="list-style-type: none"> For surface drainage. Includes catch basin, non-perforated PE tubing, PVC outlet pipe, and flap-type animal guard. See 410 practice for grade control structures that prevent gully erosion. 	
				Surface Drain – catch basin, 12" to 24" pipe	LF	<ul style="list-style-type: none"> For surface drainage. Includes catch basin, and N-12 pipe. No outlet pipe is generally needed. See 410 practice for grade control structures that prevent gully erosion. 	

Practice Code	Practice Name	Practice Unit	Lifespan (years)	Scenario	Payment Unit	Scenario Notes	State Program Rules
				Surface Drain – catch basin, > 24” pipe	LF	<ul style="list-style-type: none"> For surface drainage. Includes catch basin and N-12 pipe. No outlet pipe is generally needed. See 410 practice for grade control structures that prevent gully erosion. 	
629	Waste Treatment	No	10	Bark Bed	SF	<ul style="list-style-type: none"> For treatment of milkroom wastewater 	<ul style="list-style-type: none"> May use only under the conditions of the MOA between DAR and DEP.
				Mounded Bed	SF	<ul style="list-style-type: none"> Mounded bed used for treatment of milkroom wastewater when shallow to bedrock or water table 	
633	Waste Utilization	AC	1	Spreading on New Land	AC	<ul style="list-style-type: none"> Assumes manure (liquid or solid) is hauled to satellite fields that have not regularly received manure 	<ul style="list-style-type: none"> Land management practice, (ref. 515.81).
				Aquaculture gear cycling	AC	<ul style="list-style-type: none"> Cycle 20% of equipment with redundant gear for cleaning and air drying to remove fouling organisms. Biofoul organisms removed in upland areas will be composted and/or land applied. 	<ul style="list-style-type: none"> For marine shellfish operations
634	Waste Transfer	No.	15	Manure to Storage by Gravity	EA	<ul style="list-style-type: none"> To transfer manure from barn to storage Includes concrete hopper, 24” transfer pipe, and safety grating 	
				Manure to Storage, Pushoff	EA	<ul style="list-style-type: none"> Cantilever pushoff ramp from barn or HUA into a waste storage facility, with safety bar Uses Std drawing from Wisconsin (Dwg 590) 	
				Manure to Storage, Pumped	EA	<ul style="list-style-type: none"> Includes a reception pit and manure pump to transfer manure to a storage facility. Assumes a 3000 cf cast-in-place reception pit, pump and 6” PVC gasketed pipe 	
				Wastewater to Storage by Gravity	LF	<ul style="list-style-type: none"> To transfer liquid wastewater to storage facility by gravity. Includes PVC gasketed pipe (6” assumed), plumber’s trap, and cleanouts at 200 ft intervals. 	
				Silage Runoff Control	EA	<ul style="list-style-type: none"> Installation of a silage runoff system to direct concentrated leachate to a tank or storage facility and 	

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						<p>allow diluted runoff to divert to a treatment area.</p> <ul style="list-style-type: none"> Typically includes some curbing, concrete sediment basin, screen, trickle pipe and overflow weir. Includes up to 50 ft of gravity pipe to storage. Does not include the storage tank or storage structure, or pump and pump tank if required. See associated practices. 	
				Wastewater to Storage or Treatment, Pumped	EA	<ul style="list-style-type: none"> To transfer wastewater to a storage facility, or to a treatment facility where no pre-treatment is needed (from a sediment basin to a treatment strip) Assumes a 500 gallon pump tank, 3" sewage pump, and 2" PE pipe. 	
				Wastewater from Sediment Basin, Gravity, no dosing	LF	<ul style="list-style-type: none"> To transfer wastewater from a sediment basin by gravity without a dosing system (highly diluted silage runoff, for instance), to a VTA. Includes a riser assembly or collection box, and 6" PVC gasketed pipe See Sediment Basin (350) for the concrete basin and screen box. 	
				Wastewater to Treatment, Gravity, Pre-treated and Dosed	EA	<ul style="list-style-type: none"> To transfer wastewater (milkhouse waste, for example) to a VTA, with pretreatment using septic tank and grease trap, and dosed using a FLOUT or similar gravity method. Includes three 1500 gallon tanks (septic, grease, pump tanks), 6" PVC pipe between tanks, a FLOUT, and 4" PVC to VTA Level lip or manifold included with Vegetated Treatment Area (635) 	
				Wastewater to Treatment, Pumped, Pre-treated and Dosed	EA	<ul style="list-style-type: none"> To transfer wastewater (milkhouse waste, for example) to a VTA, with pretreatment using septic tank and grease trap, and dosed with a pump. Includes three 1500 gallon tanks (septic, grease, pump tanks), 6" PVC pipe between tanks, a 2" sewage pump, and 4" PVC to VTA 	

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635	Vegetated Treatment Area	AC	10	Vegetated Treatment Area (VTA) without distribution system	SF	<ul style="list-style-type: none"> Level lip or manifold included with Vegetated Treatment Area (635) A VTA where a level lip or manifold are not required (a small composting facility, for instance). Includes grading and shaping, topsoiling, and seeding. 	<ul style="list-style-type: none"> When planned for milkhouse milk wastewater, may use only under the conditions of the MOA between DAR and DEP.
				VTA with gravel trench distribution	SF	<ul style="list-style-type: none"> A VTA for a compost area where a gravel trench is used to distribute the flow. One gravel trench assumed per 100 ft of flow length. Includes grading, shaping, topsoiling, gravel trench and seeding. 	
				Barnyard VTA with Slotted Curb	SF	<ul style="list-style-type: none"> A VTA for a small barnyard, where a concrete slotted curb can be used. Includes strip construction, seeding, and a concrete slotted curb with a gravel splash pad 	
				VTA with Perforated Pipe Manifold	SF	<ul style="list-style-type: none"> A VTA where a perforated pipe manifold is used to distribute flow to the strip. Normally used when pressure dosing of the wastewater is needed. Includes strip construction, seeding, and the perforated pipe manifold system (posts, pipe, hangers, etc). Refer to Waste Transfer (634) for the costs of the pretreatment and dosing components. 	
				VTA with Perforated Pipe Manifold, Replace Soil	SF	<ul style="list-style-type: none"> Same as previous, except includes removing and replacing unsuitable soil within the VTA (percs too rapidly or slowly). 	
638	Water & Sediment Control Basin	No.	10	Water & Sediment Control Basin	LF	<ul style="list-style-type: none"> Includes all excavation and earthfill needed to construct the WASCOD, including seeding. Refer to Underground Outlet (620) for riser and outlet. Refer to Subsurface Drainage (606) if needed. 	
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. 	

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643	Restoration /Management of Rare or Declining Habitats	AC	1	Restore old growth forest characteristics	AC	<ul style="list-style-type: none"> Cost includes forester marking legacy trees, labor to create 8 snags per acre and to fell 4 trees per acre for coarse woody debris 	<ul style="list-style-type: none"> Eligible only if landowner has a forest management plan
				Shrub/sapling management	AC	<ul style="list-style-type: none"> Creation of shrubland for wildlife by selectively removing all tall growing tree species from a regenerating shrubland 	
				Oak regeneration, low intensity	AC	<ul style="list-style-type: none"> Costs include cutting 250-500 stems per acre and treating slash. Stems being cut are < 6" DBH and have no commercial value. Cuts may be done in conjunction with timber harvest. 	
				Oak regeneration, high intensity	AC	<ul style="list-style-type: none"> Costs include cutting >500 stems per acre and treating slash. Stems being cut are < 6" DBH and have no commercial value. Cuts may be done in conjunction with timber harvest. 	
				Oak regeneration, no timber	AC	<ul style="list-style-type: none"> Cost share is for cutting at least 350 stems per acre and the treatment of slash. Trees may be of all sizes, but there must be no commercial timber value as cordwood or pulpwood. 	
644	Wetland Wildlife Habitat Management	AC	1	Turtle nesting habitat creation	AC	<ul style="list-style-type: none"> The creation of turtle nesting habitat through a combination of the following activities: clearing vegetation, removing stumps, stripping loam, scarifying the soil, importing washed sandy/gravel soils. 	<ul style="list-style-type: none"> Land management practice, (ref. 515.81).
				Delayed Mowing-turtle	AC	<ul style="list-style-type: none"> Delayed mowing of a hay field (or portion of hayfield) to allow wetland wildlife species (especially wood turtles) to utilize the field without risk of injury/death. The field can be cut and baled after the targeted species has completed its seasonal use of the field (typically after September 15th). Will result in loss of one hay crop and reduced hay quality of second cutting. 	
645	Upland Wildlife Habitat Management	AC	1	Pollinator Planting – grass & herbaceous	AC	<ul style="list-style-type: none"> Cost includes seed bed prep, soil amendments and application, seed and seeding. A minimum of 9 flowering plants will be included in seed mix 	<ul style="list-style-type: none"> Land management practice, (ref. 515.81).

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				Pollinator planting – herbs, grass & shrubs	AC	<ul style="list-style-type: none"> Cost includes seed bed prep, soil amendments and application, seed, shrubs and seeding/planting. A minimum of 9 flowering herbaceous plants and 30 shrubs/acre will be planted 	
				Delayed Mowing	AC	<ul style="list-style-type: none"> Delayed mowing of hayfield until after nesting grassland species and/or other wildlife have completed their use of the field Included forgone income based on loss of 1 cutting and reduced value of 2nd cutting 	<ul style="list-style-type: none"> Must mow by May 31, then not for 65 days after.
				Snag creation	AC	<ul style="list-style-type: none"> Cost includes forester marking snag trees, and labor to girdle trees to create 8 snags per acre 	<ul style="list-style-type: none"> Land management practice, (ref. 515.81).
647	Early Successional Habitat Development / Management	AC	1	Herbaceous management	AC	<ul style="list-style-type: none"> Site is managed for early successional wildlife species Scenario includes mowing or strip disking 	<ul style="list-style-type: none"> Cost share allowed every other year only
				Liming	AC	<ul style="list-style-type: none"> Site is managed for early successional wildlife species 	<ul style="list-style-type: none"> Multiple treatments allowed if supported by soil test
655	Forest Trails and Landings	LF	5	Forest – Bridge	LF	<ul style="list-style-type: none"> Cost of wooden bridge, forwarder and labor to install temporary bridge 	<ul style="list-style-type: none"> For temporary skid trails only. Stream crossings must be removed within reasonable period after harvest is completed.
			Forest – Culvert		<ul style="list-style-type: none"> Cost of culvert, excavator and operator to install temporary culvert 		
			Forest – Erosion Control		<ul style="list-style-type: none"> Same as access road erosion control, except for skid trails 		
656	Constructed Wetland	Ac.	15	≤ 5000 square feet > 5000 square feet	SF	<ul style="list-style-type: none"> For treatment of wastewater. Costs for construction of the wetland cells and dikes around and within them. Includes topsoiling and earthmoving. All other components are priced separately. See Pond Sealing (521), Structure for Water Control (587), Critical Area Planting (342), Waste Transfer (634) for associated practices. 	
660	Tree/Shrub Pruning	AC	10	Pruning Pines	AC	<ul style="list-style-type: none"> Approximately 59 white pines will be pruned per acre to 17' high. 	<ul style="list-style-type: none"> Eligible only if landowner has a forest management plan or stewardship plan that prescribes pruning
666	Forest Stand Improvement	AC	10	High Intensity Thinning	AC	<ul style="list-style-type: none"> Payment for thinning more than 500 stems per acre. The stems to be thinned are <6" DBH and have no commercial value. 	<ul style="list-style-type: none"> Eligible only if landowner has a forest management plan or stewardship plan that prescribes

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						<ul style="list-style-type: none"> May be done in conjunction with a commercial timber harvest that removes stems >6" DBH 	thinning
				Low Intensity Thinning	AC	<ul style="list-style-type: none"> Payment for thinning between 250 and 500 stems/acre. The stems to be thinned are <6" DBH and have no commercial value. May be done in conjunction with a commercial timber harvest that removes stems >6" DBH 	<ul style="list-style-type: none"> Eligible only if landowner has a forest management plan or stewardship plan that prescribes thinning.
			Chemical release thinning	AC	<ul style="list-style-type: none"> Forester marks stand Chemical is applied as foliar spray or basal bark application. 		
			Thinning-girdling	AC	<ul style="list-style-type: none"> Forester marks stand Trees thinned by girdling trees > 8" 		
706	Shellfish Aquaculture Management	AC	1	Epifaunal Culture	AC	<ul style="list-style-type: none"> Oyster cages accessed by foot or off-road Management system includes: standard navigational delineation, gear cycling, monitoring/recordkeeping, annual pathology testing, gear cycling and removal of waste gear. 	<ul style="list-style-type: none"> Comprehensive management system for marine bivalve production; assumes all measures will be incorporated into the operation. If 706 is adopted, then participant is ineligible for payment of Individual component practices (370, 472, 500, 595, 633) for the same land.
				Remote Epifaunal	AC	<ul style="list-style-type: none"> Oyster cages accessed by boat Basic suite of management practices (same as above) Plus retiring high-pollution motors and carrying oil-spill kits 	
				Infaunal Culture	AC	<ul style="list-style-type: none"> Clam beds accessed by foot or off-road Basic suite of management practices: standard navigational delineation, gear cycling, monitoring and recordkeeping, annual pathology testing, gear cycling and removal of waste gear 	
				Infaunal with Buffer	AC	<ul style="list-style-type: none"> Clam beds accessed by foot or off-road Basic suite of management practices (same as above), Buffers (5 ft. wide) on sides abutting other growing plots 	
				Remote Infaunal	AC	<ul style="list-style-type: none"> Clam beds accessed by boat Basic suite of management practices (same as above), Retiring high-pollution motors and carrying oil-spill kits. 	
				Remote Infaunal with Buffer	AC	<ul style="list-style-type: none"> Clam beds accessed by boat Basic suite of management practices (same as above) 	

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						<ul style="list-style-type: none"> Retiring high-pollution motors, oil-spill kits on boats Buffers (5 ft. wide) on sides abutting other growing plots 	
716	Renewable Energy Production	No.	20	Solar Thermal scenarios for flat-plate collectors and evacuated tube collectors	SF	<ul style="list-style-type: none"> Price based on square feet of panels, and includes solar array, mounting structure, control system, and hot water storage system. 	<ul style="list-style-type: none"> Funded under EQIP-AQ only. Requires Energy Audit and renewable energy assessment, including feasibility of the renewable source. Eligible payment equals the design size for the current production agricultural energy use.
798	Seasonal High Tunnel for Crops	SF	4	High Tunnel	SF	<ul style="list-style-type: none"> No electricity or heating or venting is allowed. Installation must comply with manufacturer specifications. All runoff and snow loads must be properly managed for the lifespan of the practice. 	<ul style="list-style-type: none"> Financial assistance is limited to 5% of one acre (2,178 SF) Landowner report forms included with jobsheet must be submitted annually.