

## Massachusetts AMA

### Approved Conservation Practice List - FY 2014

#### *Drought Mitigation Practices*

<i>Code</i>	<i>Practice</i>	<i>Unit</i>
342	Critical Area Planting	Ac
430	Irrigation Pipeline	Ft
436	Irrigation Reservoir	No
441	Irrigation System, Microirrigation	No
442	Irrigation System, Sprinkler	Ac
533	Pumping Plant	No
642	Water Well	No

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Massachusetts FY 2014 AMA  
Payment Schedule

Practice Code	Practice Name	Scenario	Payment Unit	Unit Cost	HU Unit Cost
342	Critical Area Planting	Cool Season	Ac	\$365.98	\$439.17
		Cool Season, Extra Site Preparation		\$893.89	\$1,072.67
		Hydroseeding		\$1,102.07	\$1,322.49
		Hydroseeding, Extra Site Preparation		\$1,578.31	\$1,893.97
430	Irrigation Pipeline	HDPE (Iron Pipe Size & Tubing) 10in or more diameter	Lb	\$3.25	\$3.90
		HDPE (Iron Pipe Size & Tubing) 8in or less diameter		\$3.97	\$4.76
		PVC (Iron Pipe Size) 10in or more diameter		\$1.46	\$1.75
		PVC (Iron Pipe Size) 10in or more diameter with 4 in sand bedding		\$1.48	\$1.78
		PVC (Iron Pipe Size) 8in or less diam		\$2.26	\$2.71
		PVC (Iron Pipe Size) 8in or less diameter with 4in sand bedding		\$2.42	\$2.90
		Surface HDPE (Iron Pipe Size & Tubing)		\$3.84	\$4.61
436	Irrigation Reservoir	Excavated Spread Off Site	CuYd	\$6.29	\$7.55
		Excavated Spread On Site	CuYd	\$5.09	\$6.11
		Fiberglass Tank	Gal	\$0.84	\$1.01
		Plastic Tank	Gal	\$0.96	\$1.15
		Plastic Tank Buried	Gal	\$1.13	\$1.36
		Steel Tank	Gal	\$0.81	\$0.97
		Tailwater Recovery Greenhouse	Gal	\$3.07	\$3.68
441	Irrigation System, Microirrigation	Automated Surface Drip Tape with Media Filter	Ac	\$903.92	\$1,084.71
		Automated Surface Permanent PE Tube with Media Filter Laterals 9 ft oc	Ac	\$4,383.41	\$5,260.09
		Automated Surface Permanent PE Tube with Media Filter Laterals 14 ft oc	Ac	\$3,134.53	\$3,761.43
		Greenhouse Irrigation	SqFt	\$0.82	\$0.98
		Microjet with Filter	Ac	\$1,943.25	\$2,331.90
		Surface Drip Tape with Disk Filter	Ac	\$928.44	\$1,114.12
		Surface Drip Tape with Media Filter	Ac	\$812.14	\$974.57
		Surface Permanent PE Tube with Disk Filter Laterals 9 ft oc	Ac	\$4,407.93	\$5,289.51
		Surface Permanent PE Tube with Disk filter laterals 14 ft oc	Ac	\$3,159.04	\$3,790.85
		Surface Permanent PE tube with Media Filter Laterals 9 ft oc	Ac	\$4,291.63	\$5,149.96
		Surface Permanent PE Tube with Media Filter Laterals 14 ft oc	Ac	\$3,042.74	\$3,651.29
442	Irrigation System, Sprinkler	Center Pivot System < or =1000 LF	LnFt	\$61.63	\$73.96
		Center Pivot System > 1000 LF	LnFt	\$56.58	\$67.89
		Center Pivot or Linear Move Renozzling < or = 1,000 LF	LnFt	\$5.02	\$6.02
		Center Pivot or Linear Move Renozzling > 1000 LF	LnFt	\$4.41	\$5.29
		Lateral Move System < or = 1000 LF	LnFt	\$86.05	\$103.26
		Lateral Move System > 1000 LF	LnFt	\$77.34	\$92.81
		Pod System	Ea	\$180.62	\$216.74
		Solid Set System	Ac	\$3,350.55	\$4,020.66
		Traveling Gun System, < 2" Hose	Ea	\$9,029.25	\$10,835.10
		Traveling Gun System, 2 inch to 3 inch Hose	Ea	\$16,374.51	\$19,649.41
		Traveling Gun System, > 3 inch Hose	Ea	\$32,398.11	\$38,877.73
533	Pumping Plant	Electric-Powered Pump upto 3 Hp	HP	\$1,069.17	\$1,283.00
		Electric-Powered Pump upto 3 HP with Pressure Tank	HP	\$1,393.26	\$1,671.92
		Electric-Powered Pump 3 to 10 HP	HP	\$532.52	\$639.02
		Electric-Powered Pump 3 to 10 HP with Pressure Tank	HP	\$593.66	\$712.39
		Electric-Powered Pump 10 to 40 HP	HP	\$378.87	\$454.64
		Electric-Powered Pump over 40 HP	HP	\$233.23	\$279.88
		Hollow Piston Manure Pump	Ea	\$19,822.63	\$23,787.16
		Internal Combustion-Powered Pump upto 7½ HP	HP	\$486.88	\$584.25
		Internal Combustion-Powered Pump 7½ to 75 HP	HP	\$484.20	\$581.04

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Payment Schedule

Practice Code	Practice Name	Scenario	Payment Unit	Unit Cost	HU Unit Cost
533	Pumping Plant (cont.)	Internal Combustion-Powered Pump over 75 HP	HP	\$293.32	\$351.99
		Livestock Nose Pump	Ea	\$971.38	\$1,165.65
		Manure PTO Vertical Shaft Pump	Ea	\$10,040.76	\$12,048.91
		Photovoltaic-Powered Pump 0.25 HP	Ea	\$2,839.63	\$3,407.56
		Photovoltaic-Powered Pump 0.5 to 1.0 HP	Ea	\$5,806.11	\$6,967.33
		Photovoltaic-Powered Pump 1.5 HP	Ea	\$7,796.86	\$9,356.23
		PTO Lagoon Trailer Pump	Ea	\$10,134.68	\$12,161.62
		PTO Side Mounted upto 50,000 CF	Ea	\$1,144.95	\$12,351.31
		PTO Side Mounted over 50,000 CF	Ea	\$10,292.76	\$1,373.94
		Solid Piston Manure Pump	Ea	\$32,919.77	\$39,503.72
		Solids Handling Wastewater Pump upto 2Hp	Ea	\$2,937.50	\$3,524.99
		Solids Handling Wastewater Pump over 2Hp	Ea	\$5,657.30	\$6,788.76
		Tractor Power Take Off (PTO) Pump	HP	\$138.32	\$165.98
		Variable Frequency Drive over 10 HP	HP	\$161.28	\$193.54
642	Water Well	Deep Well	Ea	\$8,085.97	\$9,703.16
		Dug Well		\$8,028.07	\$9,633.68
		High Volume Deep Well		\$12,099.31	\$14,519.17
		High Volume Shallow Well		\$3,913.37	\$4,696.05
		High Volume Typical Well		\$6,132.19	\$7,358.63
		Shallow Well		\$2,396.07	\$2,875.28
		Typical Well		\$4,181.57	\$5,017.88

## Application Ranking Summary 2014 AMA - Cropland Drought Mitigation

### *National Priorities Addressed*

Issue Questions	Responses
Clean and Abundant Water: Water Quality - Will the proposed project assist the producer to:	
1. a. Meet regulatory requirements relating to animal feeding operations, or proactively avoid the need for regulatory measures?	15 Point(s)
1. b. Reduce sediment, nutrients or pesticides from agricultural operations located within a field that adjoins a designated "impaired water body" (TMDL, 303d, etc.)?	15 Point(s)
1. c. Reduce sediment, nutrients or pesticides from agricultural operations located within a field that adjoins a "non-impaired water body"?	5 Point(s)
Clean and Abundant Water: Water Conservation - Will the proposed project assist the producer implement conservation practices which:	
2. a. Decrease aquifer overdraft?	15 Point(s)
2. b. Conserve water from irrigation system improvements and saved water will be available for other beneficial uses?	10 Point(s)
2. c. Conserve water in an area where the applicant participates in a geographically established or watershed-wide project?	5 Point(s)
Clean Air: Treatment of air quality from on-farm agricultural sources - Will the proposed project assist the producer to implement practice(s) which:	
3. a. Meet on-farm regulatory requirements relating to air quality or proactively avoid the need for regulatory measures?	15 Point(s)
3. b. Reduce on-farm generated green house gases such as CO <sub>2</sub> (Carbon Dioxide), CH <sub>4</sub> (Methane), and N <sub>2</sub> O (Nitrous Oxide)?	15 Point(s)
3. c. Increase on-farm carbon sequestration?	5 Point(s)
Soil Health: Will the proposed project assist the producer to implement practice(s) which:	
4. a. Reduce erosion to tolerable limits (Soil "T")?	15 Point(s)
4. b. Improve soil tilth, organic matter, structure, health, etc.?	5 Point(s)
Healthy Plant and Animal Communities: Wildlife Habitat Conservation - Will the proposed project assist the producer to implement practice(s) which:	
5. a. Benefit on-farm habitat associated with threatened and endangered, at-risk, candidate, or species of concern as identified in a State wildlife plan?	15 Point(s)
5. b. Help retain wildlife and plant habitat on land exiting the Conservation Reserve Program (CRP)?	10 Point(s)
High Quality, Productive Soils, Healthy Plant and Animal Communities: Will the proposed project assist the producer implement practices which:	
6. a. Help manage or control noxious or invasive species on non-cropland?	10 Point(s)
6. b. Increase, or improve habitat to benefit pollinator or other targeted wildlife species?	10 Point(s)
6. c. Properly dispose of livestock carcasses?	5 Point(s)
6. d. Are identified in an Integrated Pest Management plan?	10 Point(s)
6. e. Are identified in a Nutrient Management plan?	10 Point(s)
6. f. Apply principles of adaptive nutrient management?	5 Point(s)
Energy Conservation - Will the proposed project assist the producer to implement practices which:	
7. a. Reduce energy consumption on the agricultural operation?	15 Point(s)
7. b. Increase on-farm energy efficiency with practices and improvements identified in an approved energy audit equivalent to criteria required in Ag EMP?	10 Point(s)

7. c. Assist in implementing energy conservation measures that also reduce greenhouse gas emissions and other air pollutants?	10 Point(s)
<b>Business Lines - Conservation Implementation Additional Ranking Considerations - Will the proposed project result in:</b>	
8. a. Implementation of all conservation practices scheduled in the contract on the CPA-1155 within three years of date of obligation?	10 Point(s)
8. b. Improvement of existing conservation practices or conservation systems already in place at the time the application is accepted?	5 Point(s)
8. c. Implementation of practice(s) which will complete an existing conservation system or suite of practices?	5 Point(s)

*State Issues Addressed*

<b>Issue Questions</b>	<b>Responses</b>
<b>Abundant Water: Will the proposed project assist the producer to:</b>	
1. Construct or improve irrigation structures?	5 Point(s)
<b>High Quality, Productive Soils, Healthy Plant Communities: Will the proposed project assist the producer to:</b>	
2. Reduce the risk of crop loss due to drought?	5 Point(s)
<b>Answer one of the following based on the AMA Ranking &amp; Irrigation Planning Workbook score:</b>	
3. a. The total score of the AMA application evaluation worksheet is 45 or greater.	150 Point(s)
3. b. The total score of the AMA application evaluation worksheet is 42 - 44.	125 Point(s)
3. c. The total score of the AMA application evaluation worksheet is 39 - 41.	100 Point(s)
3. d. The total score of the AMA application evaluation worksheet is 36 - 38.	75 Point(s)
3. e. The total score of the AMA application evaluation worksheet is 33 - 35.	50 Point(s)
3. f. The total score of the AMA application evaluation worksheet is 30 - 32.	25 Point(s)
3. g. The total score of the AMA application evaluation worksheet is <30.	5 Point(s)
<b>Other considerations: Does the applicant meet the following conditions:</b>	
4. a. The applicant has never been selected for AMA funding.	10 Point(s)
4. b. The applicant has CANCELLED two or more Conservation Program Contract funded through the 2002 or 2008 Farm Bill?	-25 Point(s)
4. c. The applicant is currently OUT OF COMPLIANCE on an active conservation program contract?	-50 Point(s)
4. d. NRCS has TERMINATED a conservation program contract held by the applicant for non-compliance or cause?	-75 Point(s)

*Local Issues Addressed*

<b>Issue Questions</b>	<b>Responses</b>
<b>Abundant Water: Will the proposed project assist the producer to:</b>	
1. Reduce or eliminate the use of public water supply systems to irrigate crops?	100 Point(s)
<b>High Quality, Productive Soils, Healthy Plant and Animal Communities: Will the proposed project assist the producer to:</b>	
2. a. Improve PROTECTED LAND (i.e. APR or CR)?	25 Point(s)
2. b. Improve an Area of Critical Environmental Concern (ACEC)?	25 Point(s)
<b>Other considerations: Does the applicant meet the following conditions:</b>	
3. a. Received non-insured crop disaster assistance program payment for losses due to drought on enrolled land.	75 Point(s)
3. b. Formed partnerships among agencies (i.e. MDAR, DCR, NHESP, USFWS) to support financial and /or technical assistance for the proposed project?	25 Point(s)

**Practice & Resource Concern Associations**

Practices	Resource Concerns
Critical Area Planting	Degraded Plant Condition: Undesirable Plant Productivity and Health
Irrigation Pipeline	Degraded Plant Condition: Undesirable Plant Productivity and Health Insufficient Water: Inefficient Use of Irrigation Water
Irrigation Reservoir	Degraded Plant Condition: Undesirable Plant Productivity and Health Insufficient Water: Inefficient Use of Irrigation Water
Irrigation System, Microirrigation	Degraded Plant Condition: Undesirable Plant Productivity and Health Insufficient Water: Inefficient Use of Irrigation Water
Pumping Plant	Degraded Plant Condition: Undesirable Plant Productivity and Health Insufficient Water: Inefficient Use of Irrigation Water
Sprinkler System	Degraded Plant Condition: Undesirable Plant Productivity and Health Insufficient Water: Inefficient Use of Irrigation Water
Water Well	Degraded Plant Condition: Undesirable Plant Productivity and Health Insufficient Water: Inefficient Use of Irrigation Water