Cost Data

Scenario Description:

Development of a 122 Agricultural Energy Management Conservation Activity Plan (CAP) Livestock - Small < 70 AU

Natural Resource Concern:	Energy Conservation
Resource Setting:	Typical livestock operation has < 70 AU.
Before Practice Situation:	Agricultural producer currently has minimal knowledge of and no plan for energy conservation. Producer currently manages a small livestock operation with < 70 AU. Producer is willing to collaborate with a certified TSP to develop an AgEMP 122 CAP. The AgEMP is a grouping of conservation measures and management activities which, when implemented as part of a conservation system, will help to ensure that both production and natural resource protection goals are achieved. An AgEMP incorporates recommended measures to maximize energy conservation and efficiency. An EMP is developed to assist an owner/operator in meeting all applicable local, tribal, State, and Federal water quality goals or regulations.
After Practice Situation:	After EQIP contract approval, participant has obtained services from a certified TSP for development of the "Agricultural Energy Management - Headquarters" conservation activity plan. The CAP criteria requires the plan to meet quality criteria for energy conservation and efficiency. The CAP plan may include recommendations for associated conservation practices which address energy conservation. The CAP meets the basic quality criteria for the 122 plan as cited in the NRCS Field Office Technical Guide.
Associated Practices:	124 Agricultural Energy Management Plan - Landscape CAP, 374 Farmstead Energy Improvement, or other applicable practices approved in the NRCS Field Office Technical Guide.

Geographic Area: US States and Territories

Unit for Cost Estimate: No
Practice Life (Years): 1
Discount Rate (%/Year): 5%

	Cost/Unit
Materials	$0.00
Not Applicable	
Equipment/Installation	$0.00
Not Applicable	
Labor	$1,537.33

Name of Item	Unit	Cost/Unit	Number	Item Cost
CAP Labor, Administrative Assistant	Hour	$35.61	1	$35.61
CAP Labor, Energy Auditor	Hour	$42.99	8	$343.92
CAP Labor, Manager	Hour	$44.02	14	$616.28
CAP Labor, professional engineer	Hour	$77.36	7	$541.52
			30	$1,537.33

Mobilization	$0.00
Not Applicable	
Operation & Maintenance (Annual)	$0.00
Not Applicable	
Acquisition of Technical Knowledge	$0.00
Not Applicable	
Forgone Income (Annual)	$0.00
Not Applicable	
Risk	$0.00
Not Applicable	
Administration & Permit Costs	$0.00
Not Applicable	
Total Cost Estimate:	**$1,537.33**

Cost Data

Scenario Description:

Development of a 122 Agricultural Energy Management Conservation Activity Plan (CAP) Livestock - Medium 70-300 AU

Natural Resource Concern:	Energy Conservation
Resource Setting:	Typical livestock operation has 70 - 300 AU.
Before Practice Situation:	Agricultural producer currently has minimal knowledge of and no plan for energy conservation. Producer currently manages a small livestock operation with 70-300 AU. Producer is willing to collaborate with a certified TSP to develop an AgEMP 122 CAP. The AgEMP is a grouping of conservation measures and management activities which, when implemented as part of a conservation system, will help to ensure that both production and natural resource protection goals are achieved. An AgEMP incorporates recommended measures to maximize energy conservation and efficiency. An EMP is developed to assist an owner/operator in meeting all applicable local, tribal, State, and Federal water quality goals or regulations.
After Practice Situation:	After EQIP contract approval, participant has obtained services from a certified TSP for development of the "Agricultural Energy Management - Headquarters" conservation activity plan. The CAP criteria requires the plan to meet quality criteria for energy conservation and efficiency. The CAP plan may include recommendations for associated conservation practices which address energy conservation. The CAP meets the basic quality criteria for the 122 plan as cited in the NRCS Field Office Technical Guide.
Associated Practices:	124 Agricultural Energy Management Plan - Landscape CAP, 374 Farmstead Energy Improvement, or other applicable practices approved in the NRCS Field Office Technical Guide.

Geographic Area: US States and Territories

Unit for Cost Estimate: No
Practice Life (Years): 1
Discount Rate (%/Year): 5%

	Cost/Unit
Materials	$0.00
Not Applicable	
Equipment/Installation	$0.00
Not Applicable	
Labor	$2,013.88

Name of Item	Unit	Cost/Unit	Number	Item Cost
CAP Labor, Administrative Assistant	Hour	$35.61	1.5	$53.42
CAP Labor, Energy Auditor	Hour	$42.99	12	$515.88
CAP Labor, Manager	Hour	$44.02	17	$748.34
CAP Labor, professional engineer	Hour	$77.36	9	$696.24
			39.5	$2,013.88

Mobilization	$0.00
Not Applicable	
Operation & Maintenance (Annual)	$0.00
Not Applicable	
Acquisition of Technical Knowledge	$0.00
Not Applicable	
Forgone Income (Annual)	$0.00
Not Applicable	
Risk	$0.00
Not Applicable	
Administration & Permit Costs	$0.00
Not Applicable	
Total Cost Estimate:	**$2,013.88**

Cost Data

Scenario Description:

Development of a 122 Agricultural Energy Management Conservation Activity Plan (CAP) Livestock - Large 301-2,500 AU

Natural Resource Concern:	Energy Conservation
Resource Setting:	Typical livestock operation has 301 - 2,500 AU.
Before Practice Situation:	Agricultural producer currently has minimal knowledge of and no plan for energy conservation. Producer currently manages a small livestock operation with 301-2,500 AU. Producer is willing to collaborate with a certified TSP to develop an AgEMP 122 CAP. The AgEMP is a grouping of conservation measures and management activities which, when implemented as part of a conservation system, will help to ensure that both production and natural resource protection goals are achieved. An AgEMP incorporates recommended measures to maximize energy conservation and efficiency. An EMP is developed to assist an owner/operator in meeting all applicable local, tribal, State, and Federal water quality goals or regulations.
After Practice Situation:	After EQIP contract approval, participant has obtained services from a certified TSP for development of the "Agricultural Energy Management - Headquarters" conservation activity plan. The CAP criteria requires the plan to meet quality criteria for energy conservation and efficiency. The CAP plan may include recommendations for associated conservation practices which address energy conservation. The CAP meets the basic quality criteria for the 122 plan as cited in the NRCS Field Office Technical Guide.
Associated Practices:	124 Agricultural Energy Management Plan - Landscape CAP, 374 Farmstead Energy Improvement, or other applicable practices approved in the NRCS Field Office Technical Guide.

Geographic Area: US States and Territories

Unit for Cost Estimate: No
Practice Life (Years): 1
Discount Rate (%/Year): 5%

Cost/Unit

Materials $0.00
Not Applicable

Equipment/Installation $0.00
Not Applicable

Labor $2,479.74

Name of Item	Unit	Cost/Unit	Number	Item Cost
CAP Labor, Administrative Assistant	Hour	$35.61	2	$71.22
CAP Labor, Energy Auditor	Hour	$42.99	16	$687.84
CAP Labor, Manager	Hour	$44.02	18	$792.36
CAP Labor, professional engineer	Hour	$77.36	12	$928.32
			48	$2,479.74

Mobilization $0.00
Not Applicable

Operation & Maintenance (Annual) $0.00
Not Applicable

Acquisition of Technical Knowledge $0.00
Not Applicable

Forgone Income (Annual) $0.00
Not Applicable

Risk $0.00
Not Applicable

Administration & Permit Costs $0.00
Not Applicable

Total Cost Estimate: **$2,479.74**

Cost Data

Scenario Description:

Development of a 122 Agricultural Energy Management Conservation Activity Plan (CAP) Livestock - Extra Large >2,500 AU

Natural Resource Concern:	Energy Conservation
Resource Setting:	Typical livestock operation has > 2,500 AU.
Before Practice Situation:	Agricultural producer currently has minimal knowledge of and no plan for energy conservation. Producer currently manages a small livestock operation with >2,500 AU. Producer is willing to collaborate with a certified TSP to develop an AgEMP 122 CAP. The AgEMP is a grouping of conservation measures and management activities which, when implemented as part of a conservation system, will help to ensure that both production and natural resource protection goals are achieved. An AgEMP incorporates recommended measures to maximize energy conservation and efficiency. An EMP is developed to assist an owner/operator in meeting all applicable local, tribal, State, and Federal water quality goals or regulations.
After Practice Situation:	After EQIP contract approval, participant has obtained services from a certified TSP for development of the "Agricultural Energy Management - Headquarters" conservation activity plan. The CAP criteria requires the plan to meet quality criteria for energy conservation and efficiency. The CAP plan may include recommendations for associated conservation practices which address energy conservation. The CAP meets the basic quality criteria for the 122 plan as cited in the NRCS Field Office Technical Guide.
Associated Practices:	124 Agricultural Energy Management Plan - Landscape CAP, 374 Farmstead Energy Improvement, or other applicable practices approved in the NRCS Field Office Technical Guide.

Geographic Area: US States and Territories

Unit for Cost Estimate: No
Practice Life (Years): 1
Discount Rate (%/Year): 5%

	Cost/Unit
Materials	$0.00
Not Applicable	
Equipment/Installation	$0.00
Not Applicable	
Labor	$3,213.09

Name of Item	Unit	Cost/Unit	Number	Item Cost
CAP Labor, Administrative Assistant	Hour	$35.61	2.5	$89.03
CAP Labor, Energy Auditor	Hour	$42.99	18	$773.82
CAP Labor, Manager	Hour	$44.02	20	$880.40
CAP Labor, professional engineer	Hour	$77.36	19	$1,469.84
			59.5	$3,213.09

Mobilization	$0.00
Not Applicable	
Operation & Maintenance (Annual)	$0.00
Not Applicable	
Acquisition of Technical Knowledge	$0.00
Not Applicable	
Forgone Income (Annual)	$0.00
Not Applicable	
Risk	$0.00
Not Applicable	
Administration & Permit Costs	$0.00
Not Applicable	
Total Cost Estimate:	**$3,213.09**

Cost Data

Scenario Description:

Development of a 122 Agricultural Energy Management Conservation Activity Plan (CAP) Non-Livestock - Single Enterprise

Natural Resource Concern:	Energy Conservation
Resource Setting:	Typical single enterprise non-livestock operation - one enterprise as defined in the ASABE S612 on-farm energy audit standard
Before Practice Situation:	Agricultural producer currently has minimal knowledge of and no plan for energy conservation. An Agricultural Energy Mgmt CAP for Non-Livestock operations with one enterprise will be planned according to the ASABE S612 standard. Producer currently manages a single non-livestock operation. Producer is willing to collaborate with a certified TSP to develop an AgEMP 122 CAP. The AgEMP is a grouping of conservation measures and management activities which, when implemented as part of a conservation system, will help to ensure that both production and natural resource protection goals are achieved. An AgEMP incorporates recommended measures to maximize energy conservation and efficiency. An EMP is developed to assist an owner/operator in meeting all applicable local, tribal, State, and Federal water quality goals or regulations.
After Practice Situation:	After EQIP contract approval, participant has obtained services from a certified TSP for development of the "Agricultural Energy Management - Headquarters" conservation activity plan. The CAP criteria requires the plan to meet quality criteria for energy conservation and efficiency. The CAP plan may include recommendations for associated conservation practices which address energy conservation. The CAP meets the basic quality criteria for the 122 plan as cited in the NRCS Field Office Technical Guide.
Associated Practices:	124 Agricultural Energy Management Plan - Landscape CAP, 374 Farmstead Energy Improvement, or other applicable practices approved in the NRCS Field Office Technical Guide.

Geographic Area: US States and Territories

Unit for Cost Estimate: No
Practice Life (Years): 1
Discount Rate (%/Year): 5%

	Cost/Unit
Materials	$0.00
Not Applicable	
Equipment/Installation	$0.00
Not Applicable	
Labor	$2,558.95

Name of Item	Unit	Cost/Unit	Number	Item Cost
CAP Labor, Administrative Assistant	Hour	$35.61	1	$35.61
CAP Labor, Energy Auditor	Hour	$42.99	12	$515.88
CAP Labor, Manager	Hour	$44.02	21	$924.42
CAP Labor, professional engineer	Hour	$77.36	14	$1,083.04
			48	$2,558.95

Mobilization	$0.00
Not Applicable	
Operation & Maintenance (Annual)	$0.00
Not Applicable	
Acquisition of Technical Knowledge	$0.00
Not Applicable	
Forgone Income (Annual)	$0.00
Not Applicable	
Risk	$0.00
Not Applicable	
Administration & Permit Costs	$0.00
Not Applicable	
Total Cost Estimate:	**$2,558.95**

Cost Data

Scenario Description:

Development of a 122 Agricultural Energy Management Conservation Activity Plan (CAP) Non-Livestock - Two Enterprises

Natural Resource Concern:	Energy Conservation
Resource Setting:	Typical non-livestock operation with two enterprises as defined in the ASABE S612 on-farm energy audit standard
Before Practice Situation:	Agricultural producer currently has minimal knowledge of and no plan for energy conservation . An Agricultural Energy Mgmt CAP for Non-Livestock operations (two enterprises) will be planned according to the ASABE S612 standard (e.g., greenhouse and maple syrup). Producer currently manages a non-livestock operation consisting of two enterprises. Producer is willing to collaborate with a certified TSP to develop an AgEMP 122 CAP. The AgEMP is a grouping of conservation measures and management activities which, when implemented as part of a conservation system, will help to ensure that both production and natural resource protection goals are achieved. An AgEMP incorporates recommended measures to maximize energy conservation and efficiency. An EMP is developed to assist an owner/operator in meeting all applicable local, tribal, State, and Federal water quality goals or regulations.
After Practice Situation:	After EQIP contract approval, participant has obtained services from a certified TSP for development of the "Agricultural Energy Management - Headquarters" conservation activity plan. The CAP criteria requires the plan to meet quality criteria for energy conservation and efficiency. The CAP plan may include recommendations for associated conservation practices which address energy conservation. The CAP meets the basic quality criteria for the 122 plan as cited in the NRCS Field Office Technical Guide.
Associated Practices:	124 Agricultural Energy Management Plan - Landscape CAP, 374 Farmstead Energy Improvement, or other applicable practices approved in the NRCS Field Office Technical Guide.

Geographic Area: US States and Territories

Unit for Cost Estimate: No
Practice Life (Years): 1
Discount Rate (%/Year): 5%

	Cost/Unit
Materials	$0.00
Not Applicable	
Equipment/Installation	$0.00
Not Applicable	
Labor	$3,254.57

Name of Item	Unit	Cost/Unit	Number	Item Cost
CAP Labor, Administrative Assistant	Hour	$35.61	1.5	$53.42
CAP Labor, Energy Auditor	Hour	$42.99	17	$730.83
CAP Labor, Manager	Hour	$44.02	28	$1,232.56
CAP Labor, professional engineer	Hour	$77.36	16	$1,237.76
			62.5	$3,254.57

Mobilization	$0.00
Not Applicable	
Operation & Maintenance (Annual)	$0.00
Not Applicable	
Acquisition of Technical Knowledge	$0.00
Not Applicable	
Forgone Income (Annual)	$0.00
Not Applicable	
Risk	$0.00
Not Applicable	
Administration & Permit Costs	$0.00
Not Applicable	
Total Cost Estimate:	**$3,254.57**

Cost Data

Scenario Description:

Development of a 122 Agricultural Energy Management Conservation Activity Plan (CAP) Non-Livestock - Three Enterprises

Natural Resource Concern:	Energy Conservation
Resource Setting:	Typical non-livestock operation with three enterprises as defined in the ASABE S612 on-farm energy audit standard
Before Practice Situation:	Agricultural producer currently has minimal knowledge of and no plan for energy conservation . An Agricultural Energy Mgmt CAP for Non-Livestock operations (three enterprises) will be planned according to the ASABE S612 standard (e.g., greenhouse, maple syrup, irrigated grain). Producer currently manages a non-livestock operation consisting of three enterprises. Producer is willing to collaborate with a certified TSP to develop an AgEMP 122 CAP. The AgEMP is a grouping of conservation measures and management activities which, when implemented as part of a conservation system, will help to ensure that both production and natural resource protection goals are achieved. An AgEMP incorporates recommended measures to maximize energy conservation and efficiency. An EMP is developed to assist an owner/operator in meeting all applicable local, tribal, State, and Federal water quality goals or regulations.
After Practice Situation:	After EQIP contract approval, participant has obtained services from a certified TSP for development of the "Agricultural Energy Management - Headquarters" conservation activity plan. The CAP criteria requires the plan to meet quality criteria for energy conservation and efficiency. The CAP plan may include recommendations for associated conservation practices which address energy conservation. The CAP meets the basic quality criteria for the 122 plan as cited in the NRCS Field Office Technical Guide.
Associated Practices:	124 Agricultural Energy Management Plan - Landscape CAP, 374 Farmstead Energy Improvement, or other applicable practices approved in the NRCS Field Office Technical Guide.

Geographic Area: US States and Territories

Unit for Cost Estimate: No
Practice Life (Years): 1
Discount Rate (%/Year): 5%

	Cost/Unit
Materials	$0.00
Not Applicable	
Equipment/Installation	$0.00
Not Applicable	
Labor	$4,401.60

Name of Item	Unit	Cost/Unit	Number	Item Cost
CAP Labor, Administrative Assistant	Hour	$35.61	2	$71.22
CAP Labor, Energy Auditor	Hour	$42.99	24	$1,031.76
CAP Labor, Manager	Hour	$44.02	31	$1,364.62
CAP Labor, professional engineer	Hour	$77.36	25	$1,934.00
			82	$4,401.60

Mobilization	$0.00
Not Applicable	
Operation & Maintenance (Annual)	$0.00
Not Applicable	
Acquisition of Technical Knowledge	$0.00
Not Applicable	
Forgone Income (Annual)	$0.00
Not Applicable	
Risk	$0.00
Not Applicable	
Administration & Permit Costs	$0.00
Not Applicable	
Total Cost Estimate:	**$4,401.60**

Cost Data

Scenario Description:

Development of a 122 Agricultural Energy Management Conservation Activity Plan (CAP) Mixed Enterprises

Natural Resource Concern:	Energy Conservation
Resource Setting:	Typical mixed livestock+non-livestock operation with one non-livestock enterprise as defined in the ASABE S612 on-farm energy audit standard. This scenario may be used to incorporate up to three non-livestock enterprises with a livestock enterprise. Labor and acquisition of technical knowledge figures represent one non-livestock enterprise and should be multiplied by the number of non-livestock enterprises (up to three non-livestock enterprises allowed) and ADDED to one of the livestock scenarios.
Before Practice Situation:	Agricultural producer currently has minimal knowledge of and no plan for energy conservation . An Agricultural Energy Mgmt CAP for any type of livestock operation with one additional enterprise (maximum of three) will be planned according to the ASABE S612 standard (e.g., broiler and greenhouse). Producer currently manages a mixed operation consisting of one livestock enterprise and one non-livestock enterprise. Producer is willing to collaborate with a certified TSP to develop an AgEMP 122 CAP. The AgEMP is a grouping of conservation measures and management activities which, when implemented as part of a conservation system, will help to ensure that both production and natural resource protection goals are achieved. An AgEMP incorporates recommended measures to maximize energy conservation and efficiency. An EMP is developed to assist an owner/operator in meeting all applicable local, tribal, State, and Federal water quality goals or regulations.
After Practice Situation:	After EQIP contract approval, participant has obtained services from a certified TSP for development of the "Agricultural Energy Management - Headquarters" conservation activity plan. The CAP criteria requires the plan to meet quality criteria for energy conservation and efficiency. The CAP plan may include recommendations for associated conservation practices which address energy conservation. The CAP meets the basic quality criteria for the 122 plan as cited in the NRCS Field Office Technical Guide.
Associated Practices:	124 Agricultural Energy Management Plan - Landscape CAP, 374 Farmstead Energy Improvement, or other applicable practices approved in the NRCS Field Office Technical Guide.

Geographic Area: US States and Territories

Unit for Cost Estimate: No
Practice Life (Years): 1
Discount Rate (%/Year): 5%

Cost/Unit

Materials $0.00
Not Applicable

Equipment/Installation $0.00
Not Applicable

Labor $1,062.76
Additional TSP time to develop Agricultural Energy CAP for any size non-livestock operation for each additional enterprise; a maximum of 3 additional non-livestock enterprises may be planned.

Name of Item	Unit	Cost/Unit	Number	Item Cost
CAP Labor, Administrative Assistant	Hour	$35.61	1	$35.61
CAP Labor, Energy Auditor	Hour	$42.99	9	$386.91
CAP Labor, Manager	Hour	$44.02	4	$176.08
CAP Labor, professional engineer	Hour	$77.36	6	$464.16
			20	$1,062.76

Mobilization $0.00
Not Applicable

Operation & Maintenance (Annual) $0.00
Not Applicable

Acquisition of Technical Knowledge $0.00
Not Applicable

Forgone Income (Annual) $0.00
Not Applicable

Risk $0.00
Not Applicable

Administration & Permit Costs $0.00
Not Applicable

Total Cost Estimate: **$1,062.76**