



HOLDEN SERVICE CENTER  
 52 BOYDEN RD  
 HOLDEN, MA 01520-2592  
 5088294477 ext. 3

DAN LENTHALL  
 DISTRICT CONSERVATIONIST

## Conservation Plan

JOE FARMER  
 123 MAIN ST  
 WORCESTER, MA

### OBJECTIVE(S)

Participant would like to increase water availability and access to enhance plant growth, health, and vigor. Pipeline will convey water to all areas of the operation and make it possible to use it more efficiently. Participant would like to replace existing pump with a more efficient pump that is properly sized for the water needs, reducing the energy used for pumping. Conversion from overhead sprinklers to microirrigation will result in water being applied more efficiently and uniformly. Participant hopes to increase production through the uniform and consistent application of water. A high tunnel system will be constructed to allow for increased plant productivity and health; participant's goal is to start crops earlier in the spring and extend the growing season in the fall. Participant will apply a cover crop after harvest in all crop fields to minimize soil erosion and improve soil quality.

### Crop

**Tract:** XXXXXXXXXX

#### Conservation Crop Rotation(328)

Agronomic Rotation - No Foregone Income - Implement a crop rotation for field crops (e.g., corn silage) that includes forages (perennial or annual) that will reduce soil erosion, increase soil organic matter, improve overall soil health. The rotation shall be based upon RUSLE2 model estimates for soil loss and soil conditioning index. Soil losses shall be below soil tolerance levels and soil conditioning index shall be positive for the length of the rotation. Implementation shall meet specific standards and specifications outlined in the NRCS Jobsheet.

Field	Planned Amount	Month	Year	Applied Amount	Date
2	3.3 ac	10	2018	3.3 ac	10/10/2018
3	1.1 ac	10	2018	1.1 ac	10/10/2018
3a	0.6 ac	10	2018	0.6 ac	10/10/2018
5	5.5 ac	10	2018	1.5 ac	10/10/2018
<b>Total:</b>	<b>10.5 ac</b>			<b>6.5 ac</b>	

#### Cover Crop(340)

Grasses, legumes and/or forbs are grown for seasonal vegetative cover in order to achieve the desired purpose identified on the attached cover crop (340) job sheet. The cover crop practice, including the species, rates, planting methods and planting dates must be implemented according to the attached aerial seeding 340 job sheet, 340 specification guide, and termination guidelines. Refer to the job sheet for the Operation and Maintenance requirements. Payment will be based on the final measurement of actual work completed according to the specifications at the end of the project. NRCS SHALL BE CONTACTED PRIOR TO THE START OF THE PRACTICE.

Field	Planned Amount	Month	Year	Applied Amount	Date
2	3.3 ac	10	2018	3.3 ac	10/10/2018

3	1.1 ac	10	2018	1.1 ac	10/10/2018
3a	0.6 ac	10	2018	0.6 ac	10/10/2018
5	5.5 ac	10	2018	1.5 ac	10/10/2018
Total:	10.5 ac			6.5 ac	

### High Tunnel System(325)

Install an enclosed polyethylene, polycarbonate, plastic, or fabric covered structure that is used to cover and protect crops from sun, wind, excessive rainfall, or cold, to extend the growing season in an environmentally safe manner.

Field	Planned Amount	Month	Year	Applied Amount	Date
2	2880. sq ft	3	2019		
Total:	2880. sq ft				

### Irrigation Pipeline(430)

Install a pipeline as part of an irrigation system to be used for irrigation. Pipeline is needed to replace inefficient irrigation conveyance system. This practice applies to the replacement or upgrade of an existing irrigation system and to establish improved water conveyance to an existing system. Follow the NRCS approved design for installation, operation, and maintenance of the irrigation pipeline.

Field	Planned Amount	Month	Year	Applied Amount	Date
1	685. ft	6	2019		
2	680. ft	6	2019	430 ft	12/20/2018
3	650. ft	6	2019		
3	330. ft	6	2019	330 ft	12/20/2018
5	250. ft	6	2019		
5	900. ft	6	2019	900 ft	1/8/2019
Total:	3495. ft			1660. ft	

### Irrigation System, Microirrigation(441)

Install a drip or trickle irrigation system in which all necessary facilities are installed for efficiently applying water directly to the root zone of the plants by means of applicators (e.g., orifices, porous tubing, perforated pipe) operated under low pressure. The tubing and applicators can be placed above, at, or below the surface of the ground in order to maintain soil moisture within the range for good plant growth without excessive water loss, erosion, or reduction of water quality. Install the irrigation system according to standards and specifications outlined in the NRCS engineering design/jobsheet.

Field	Planned Amount	Month	Year	Applied Amount	Date
1	1.3 ac	5	2019		
5	5.5 ac	5	2019		
Total:	6.8 ac				

Tract: XXXXXXXXXX

### Conservation Crop Rotation(328)

Agronomic Rotation - No Foregone Income - Implement a crop rotation for field crops (e.g., corn silage) that includes forages (perennial or annual) that will reduce soil erosion, increase soil organic matter, improve overall soil health. The rotation shall be based upon RUSLE2 model estimates for soil loss and soil conditioning index. Soil losses shall be below soil tolerance levels and soil conditioning index shall be positive for the length of the rotation. Implementation shall meet specific standards and specifications outlined in the NRCS Jobsheet.

Field	Planned Amount	Month	Year	Applied Amount	Date
4	4.9 ac	10	2018	4.9 ac	10/10/2018
4	3.7 ac	10	2018	3.7 ac	10/10/2018
7	0.8 ac	10	2018	0.8 ac	10/10/2018
7	7.6 ac	10	2018	7.6 ac	10/10/2018
7	2. ac	10	2018	2 ac	10/10/2018
9	3. ac	10	2018	3 ac	10/10/2018
10	4.3 ac	10	2018	4.3 ac	10/10/2018
Total:	26.3 ac			26.3 ac	

### Cover Crop(340)

Grasses, legumes and/or forbs are grown for seasonal vegetative cover in order to achieve the desired purpose identified on the attached cover crop (340) job sheet. The cover crop practice, including the species, rates, planting methods and planting dates must be implemented according to the attached aerial seeding 340 job sheet, 340 specification guide, and termination guidelines. Refer to the job sheet for the Operation and Maintenance requirements. Payment will be based on the final measurement of actual work completed according to the specifications at the end of the project. NRCS SHALL BE CONTACTED PRIOR TO THE START OF THE PRACTICE.

Field	Planned Amount	Month	Year	Applied Amount	Date
4	3.7 ac	10	2018	3.7 ac	10/10/2018
4	4.9 ac	10	2018	4.9 ac	10/10/2018
7	2. ac	10	2018	2 ac	10/10/2018
7	0.8 ac	10	2018	0.8 ac	10/10/2018
7	7.6 ac	10	2018	7.6 ac	10/10/2018
9	3. ac	10	2018	3 ac	10/10/2018
10	4.3 ac	10	2018	4.3 ac	10/10/2018
Total:	26.3 ac			26.3 ac	

### Irrigation Pipeline(430)

Install a pipeline as part of an irrigation system to be used for irrigation. Pipeline is needed to replace inefficient irrigation conveyance system. This practice applies to the replacement or upgrade of an existing irrigation system and to establish improved water conveyance to an existing system. Follow the NRCS approved design for installation, operation, and maintenance of the irrigation pipeline.

Field	Planned Amount	Month	Year	Applied Amount	Date
4	135. ft	6	2019	135 ft	1/8/2019
7	475. ft	6	2019		
10	460. ft	6	2019	485 ft	12/20/2018
Total:	1070. ft			620. ft	

**Irrigation System, Microirrigation(441)**

Install a drip or trickle irrigation system in which all necessary facilities are installed for efficiently applying water directly to the root zone of the plants by means of applicators (e.g., orifices, porous tubing, perforated pipe) operated under low pressure. The tubing and applicators can be placed above, at, or below the surface of the ground in order to maintain soil moisture within the range for good plant growth without excessive water loss, erosion, or reduction of water quality. Install the irrigation system according to standards and specifications outlined in the NRCS engineering design/jobsheet.

Field	Planned Amount	Month	Year	Applied Amount	Date
10	3.6 ac	5	2019		
Total:	3.6 ac				

**Pumping Plant(533)**

Irrigation- Install a pumping plant to transfer water for irrigation needs. The pumping plant must be installed according to the attached irrigation design and specifications. Follow the operation & maintenance requirements outlined in the design. All necessary reviews/ permits shall be obtained prior to the start of the practice. Final payment will be based on measurement of actual work completed according to the design and specifications (amounts specified in the contract are estimates). NRCS SHALL BE CONTACTED PRIOR TO THE START OF THE PRACTICE.

Field	Planned Amount	Month	Year	Applied Amount	Date
10	1. no	3	2019		
10	1. no	3	2019		
Total:	2. no				

**Forest**

**Tract:** \_\_\_\_\_

**Irrigation Pipeline(430)**

Install a pipeline as part of an irrigation system to be used for irrigation. Pipeline is needed to replace inefficient irrigation conveyance system. This practice applies to the replacement or upgrade of an existing irrigation system and to establish improved water conveyance to an existing system. Follow the NRCS approved design for installation, operation, and maintenance of the irrigation pipeline.

Field	Planned Amount	Month	Year	Applied Amount	Date
6	35. ft	6	2019		
Total:	35. ft				

**Tract:** \_\_\_\_\_

**Irrigation Pipeline(430)**

Install a pipeline as part of an irrigation system to be used for irrigation. Pipeline is needed to replace inefficient irrigation conveyance system. This practice applies to the replacement or upgrade of an existing irrigation system and to establish improved water conveyance to an existing system. Follow the NRCS approved design for installation, operation, and maintenance of the irrigation pipeline.

Field	Planned Amount	Month	Year	Applied Amount	Date
11	60. ft	6	2019		
Total:	60. ft				

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Landowner is responsible for obtaining any permits or approvals that may be associated with this conservation plan.

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CERTIFICATION OF PARTICIPANTS

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\_\_\_\_\_  
JOE FARMER DATE

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CERTIFICATION OF:

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DISTRICT CONSERVATIONIST  
  
\_\_\_\_\_  
DAN LENTHALL DATE

CONSERVATION DISTRICT  
  
\_\_\_\_\_  
WORCESTER CONSERVATION DISTRICT DATE

SOIL CONSERVATIONIST  
  
\_\_\_\_\_  
ROBERT C. PURCELL DATE

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Washington, DC 20250-9410

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