MassDEP

1975 - 2015

PALMER
RIVER

# Technical Providers for the Palmer River Watershed

Massachusetts Association of Conservation Districts
Project # 13 08/319



### Why Palmer?

- Extensive monitoring in both Massachusetts and Rhode Island; Bacteria and Nutrient levels of concern
- NRCS, National Water Quality Initiative
- EPA mandating that states monitor water quality of watershed in the NWQI
- Active watershed partners
- Active and engaged agricultural community





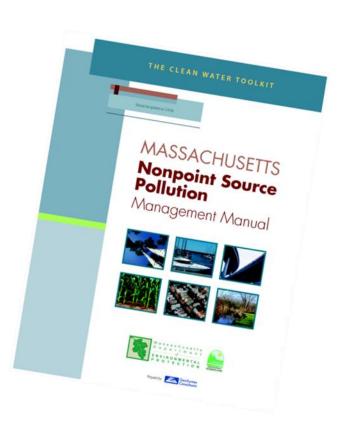


### Palmer River Project



Funded by MADEP 319 Non-Point Source Program.

Mass. Assoc. of Conservation Districts is contractor.





## **Project Goals**

1. Complete as many farm conservation plans as possible.

2. Fully implement as many of the completed plans as possible.





#### Outreach and Education

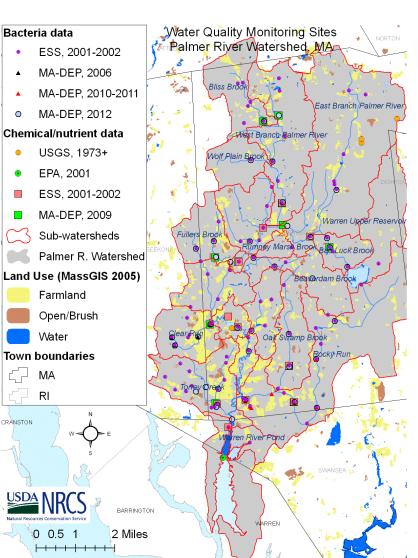
- Rehoboth Agricultural Commission
  - Outreach to land owners
  - Coordination with municipal boards
  - Public Education. Cable TV
  - Social media presence

- Bristol County Conservation District
  - Education on soil health.



## Rehoboth Ag Commission





Rehoboth Agricultural Commission

148 Peck Street
Rehoboth, MA 02769

Dear Equine and Stable Owners:

The Rehoboth Agricultural Commission invites you to an informational workshop specifically for the Mehoboth Agricultural Commission invites you to an informational workshop specifically for the Mehoboth Agricultural Commission invites you to an informational workshop specifically for the Mehoboth Agricultural equine industry, Thursday, December 11, 2014 7-00PM at the Rehoboth Conservation, Service equine industry, Thursday, December 11, 2014 7-00PM at the Rehoboth Conservation Service equine industry, Thursday, December 11, 2014 7-00PM at the Rehoboth Conservation Service Conservation Service of Health on the Town's horse regulations, information service conservation for the Rehoboth Agricultural expression for the Rehoboth Barbar River watershed with information and assistance to discuss the technical and financial assistance available to horse farms. The Rehoboth Agricultural composition of the Palmer River watershed with information and assistance to discuss the technical and financial assistance available to horse farms. The Rehoboth agricultural conservation and assistance to discuss the technical and financial assistance available to horse farms. The Rehoboth Agricultural conservation and assistance to discuss the technical and financial assistance available to horse farms. The Rehoboth Agricultural conservation and assistance available to horse farms. The Rehoboth Agricultural conservation and assistance available to horse farms.





### Bristol County Conservation District



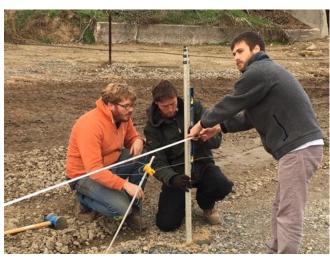
- Held 2 soil health workshops
- 150 people attended



# Develop and Implement farm conservation plans

- MACD Conservation
   Planners, Comprehensive
   Nutrient Management
   Planner
- USDA/NRCS Planners, Engineers, Leadership

- 6 Conservation Farm Plans
- 2 CNMP



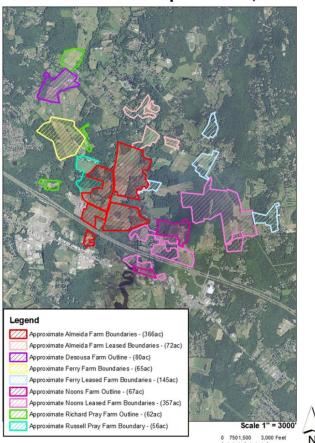




# Provide technical and regulatory support

New England Consulting (lain Ward)

Palmer South - TA Properties - 1,270ac





Direct TA provided to 16 farms.

7 equine

3 dairy

3 vegetable

3 beef



# Provide technical and regulatory support

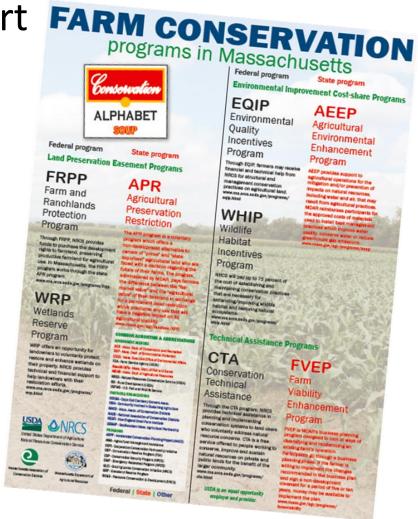
- Access to financial support
  - AEEP \$60,500
  - AFSIP \$50,184
  - AMA \$29,000
  - EQIP \$1,026,879

- 319 Funds \$68,234











# Regulatory Certainty

- Partners believe in development
- NRCS developing verification tool







### Stream Crossing/Animal Exclusion

#### Prove we can do this



Funded by 319 and Farmer



## Barn yard run-off Manure Management

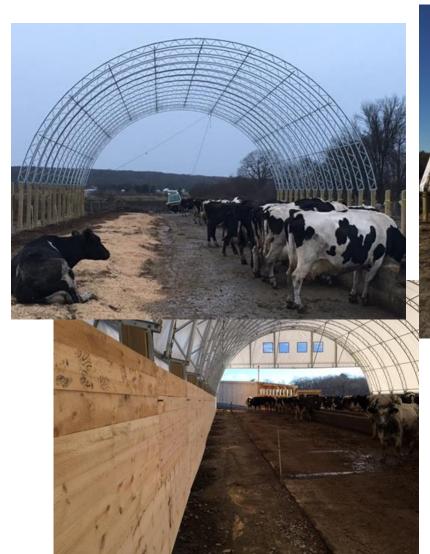
Clear Run Brook
225 head of cattle
No relations with NRCS
Farming since 1970's







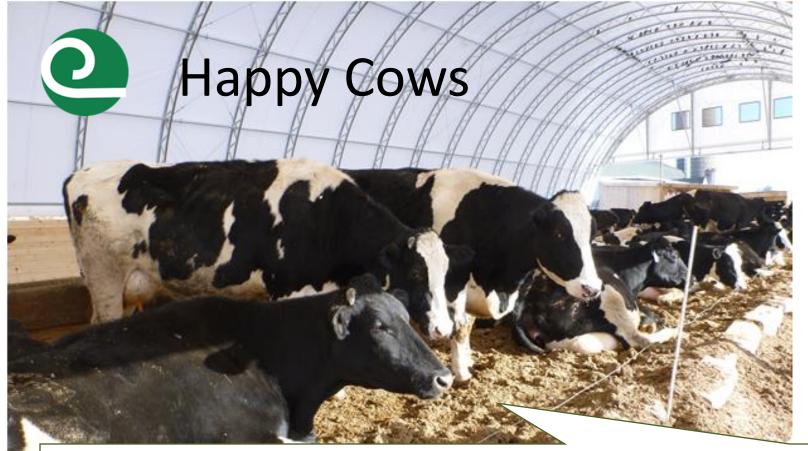






# Still In progress EQIP Contract FY16

- CNMP
- Manure Storage
- Barn Yard Run-off



Hi there, Bessie here. Checking in to tell you all about my new digs. I'm under cover, in my new bedded pack. See my girlfriends up the row? They're all relaxing too. When we are lying down and ruminating, we are making milk.

So, the deal with the new digs is: now that we have a clean dry area to lie down, we generally keep it that way. When we get up to feed at the bunk behind me, that's when we drop our manure. Instead, it will be scraped out the back eventually into a small storage pit may be constructed in this location.

Cool, huh? Boss man says vet bills are lower, too. Life is good on my new pad! Thanks, Palmer River People!



#### Barn Yard Run-Off

120 Head of cattle
Existing NRCS Contract
about to Expire
Barnyard run-off through
manure into Clear Run
tributary.





# Gutters and Sub Drains Installed









### **CNMP** Development

A Comprehensive Nutrient Management Plan (CNMP) is a part of a good conservation plan for livestock operations. It's a plan to protect water quality and soil health by managing manure and the nutrients in it.







### Field Run-Off/Drainage

- Clear Run Brook
- New EQIP and AEEP Contract FY15
- Installed water diversion









#### Soil Health

- Vegetable and Dairy Farm 438 acres
- On Main Branch of Palmer
- No relations with NRCS
- 60 head cattle, wants to double herd





#### Soil Health

- Wind & Water erosion
- Animal access to river







#### Soil Health

#### Farmer made investment on own

- Fencing out cows from river
- Permeant seeding of highly erodible land
- Over \$16,000





- Next Steps
  - CNMP in development
  - Manure storage



#### **Future**

- Equine
  - Over 800 horses in watershed
  - Johnson and WalesUniversity EquineStudies
- Livestock
  - Beef, Sheep, Hog
- Vegetable Growers





# **EQIP Funding Availability**

USDA, Natural Resource Conservation Service has made \$970,000 available for FY16 for the Palmer River watershed.

**NRCS** SERVICE CENTER OFFICE

WEST WAREHAM SERVICE CENTER 15 CRANBERRY HWY WEST WAREHAM, MA 02576-1504

(508) 295-5151 ext 3

Environmental Quality Incentives
Program (EQIP) is a voluntary
program that provides financial
and technical assistance to
agricultural producers to plan
and implement conservation
practices.

www.ma.nrcs.usda.gov