



NC: Expanding Organics Recycling through Non-Regulatory Efforts

Jorge Montezuma, EIT

Organics Recycling Specialist

NC Department of Environmental Quality

Division of Environmental Assistance & Customer Service

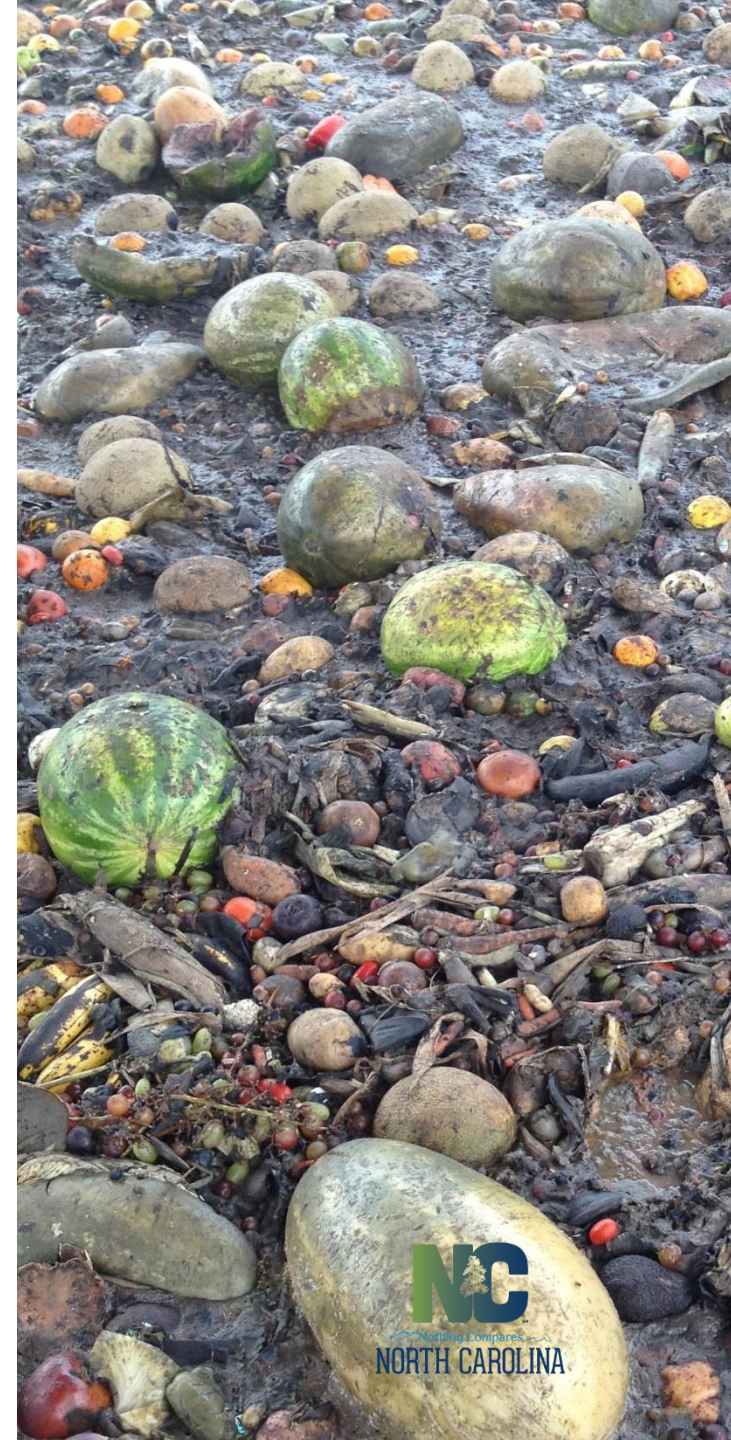
USCC Conference, Jacksonville, FL

January 26, 2016



OUTLINE

NC Gov't & Organics
State Recycling Office
Technical Assistance
Grants
Maps and Gaps
Reported Numbers
Stormwater BMPs
Listserv
Regional Groups



NC GOVERNMENT & ORGANICS

- Bans from MSW Landfills
 - Yard Waste
 - Pallets
- NC DENR 1996 Compost Rules

“STATE RECYCLING OFFICE”

Technical Assistance

Troubleshoot Operations

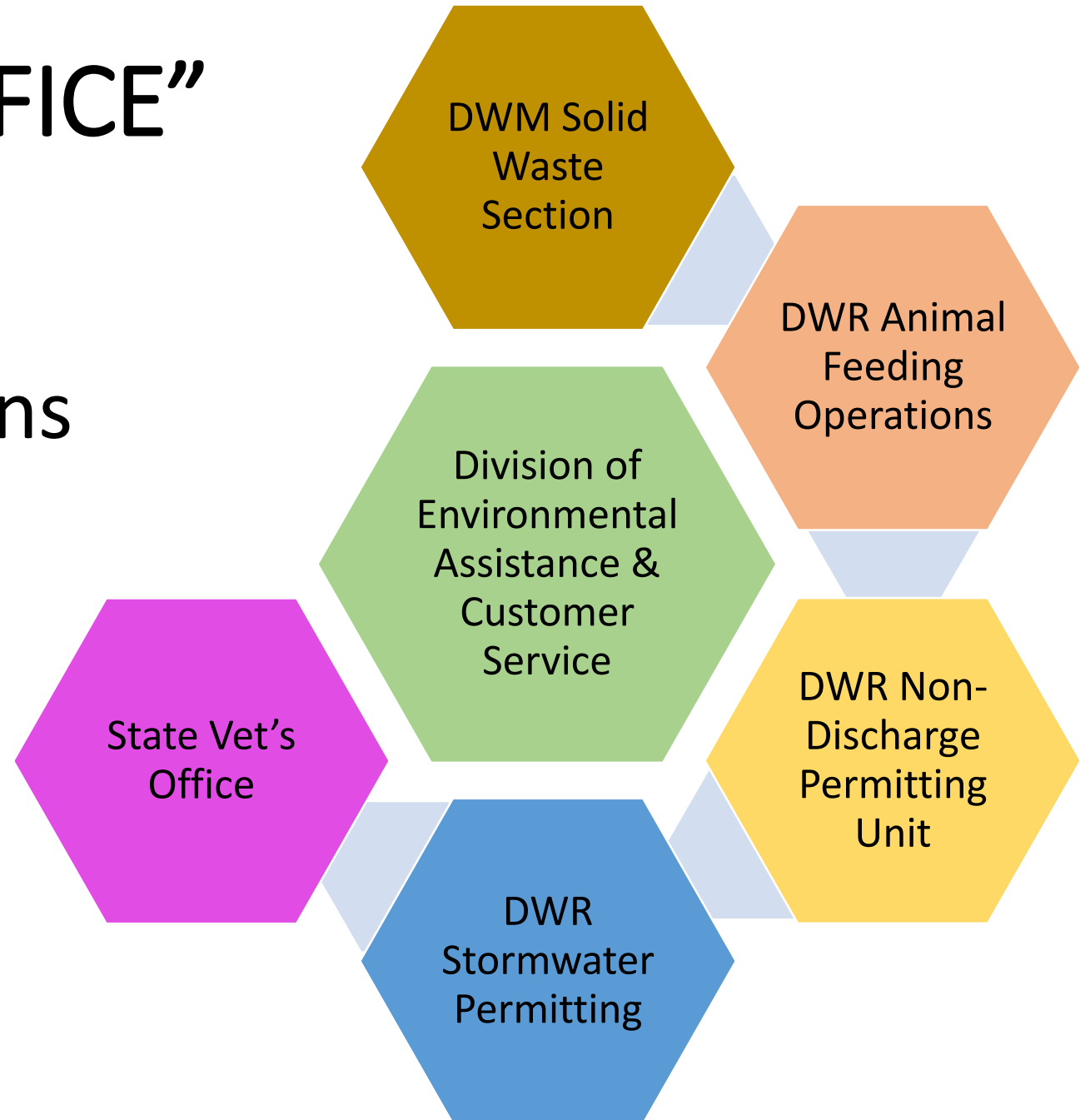
Navigate Permitting →

Research Markets

Search Feedstocks

Create Clusters

Liason



DAVIE COUNTY
ENTERPRISE RECORD

Superintendent: school opponents latch onto ‘stink’ controversy

Published 8:57 am Wednesday, July 15, 2015

Superintendent Dr. Darrin Hartness told the school board members last week the issue involving the Gallins farm has nothing to do with the school system, nothing to do with the new high school and nothing to do with commercial composting, but “has become political and that’s real unfortunate.”



NCDENR Grants at Work!

Since 1990:

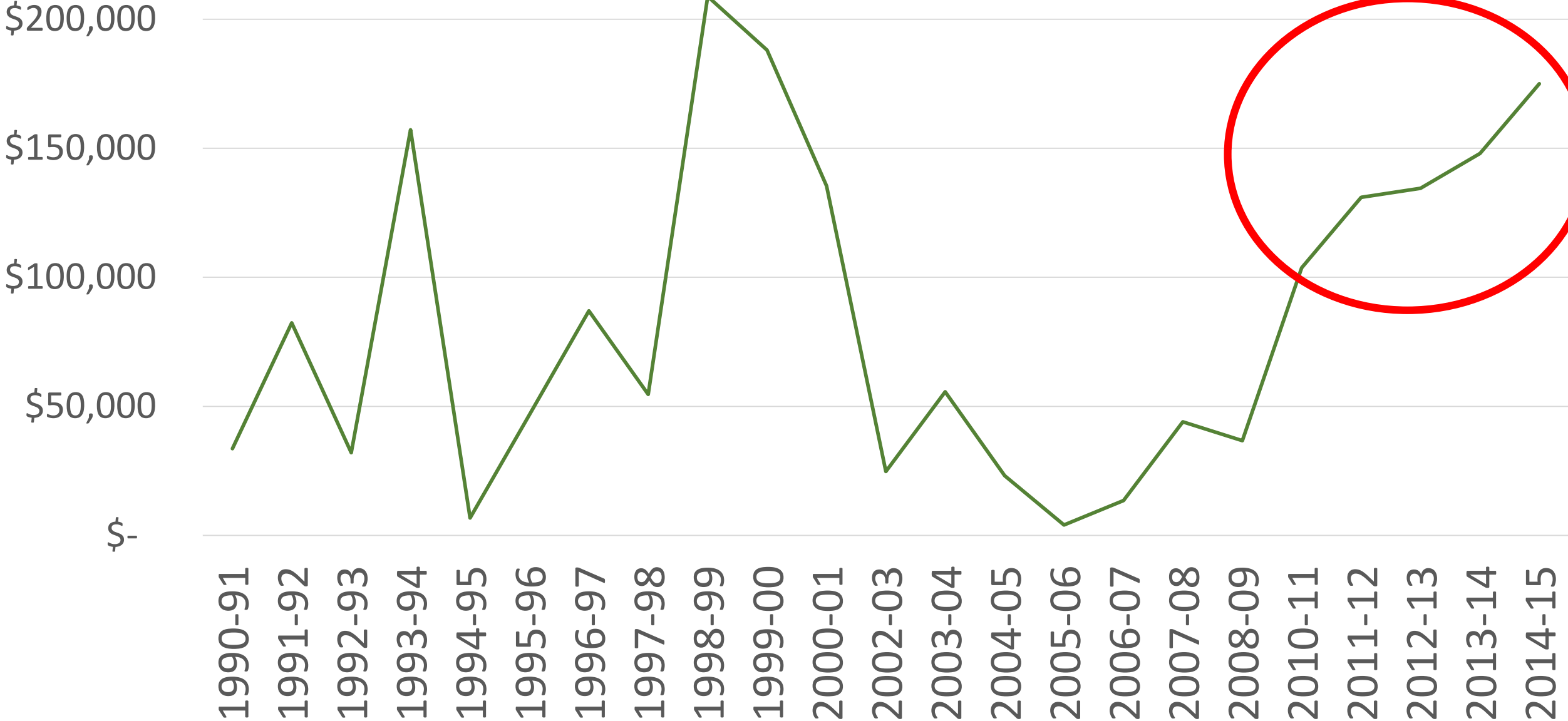
111 Organic Recycling Grant Awards
\$1.9 million awarded

162,000+ reported composted TONS

17 reported FTE jobs created

(\$12 awarded/ton diverted/reporting year)

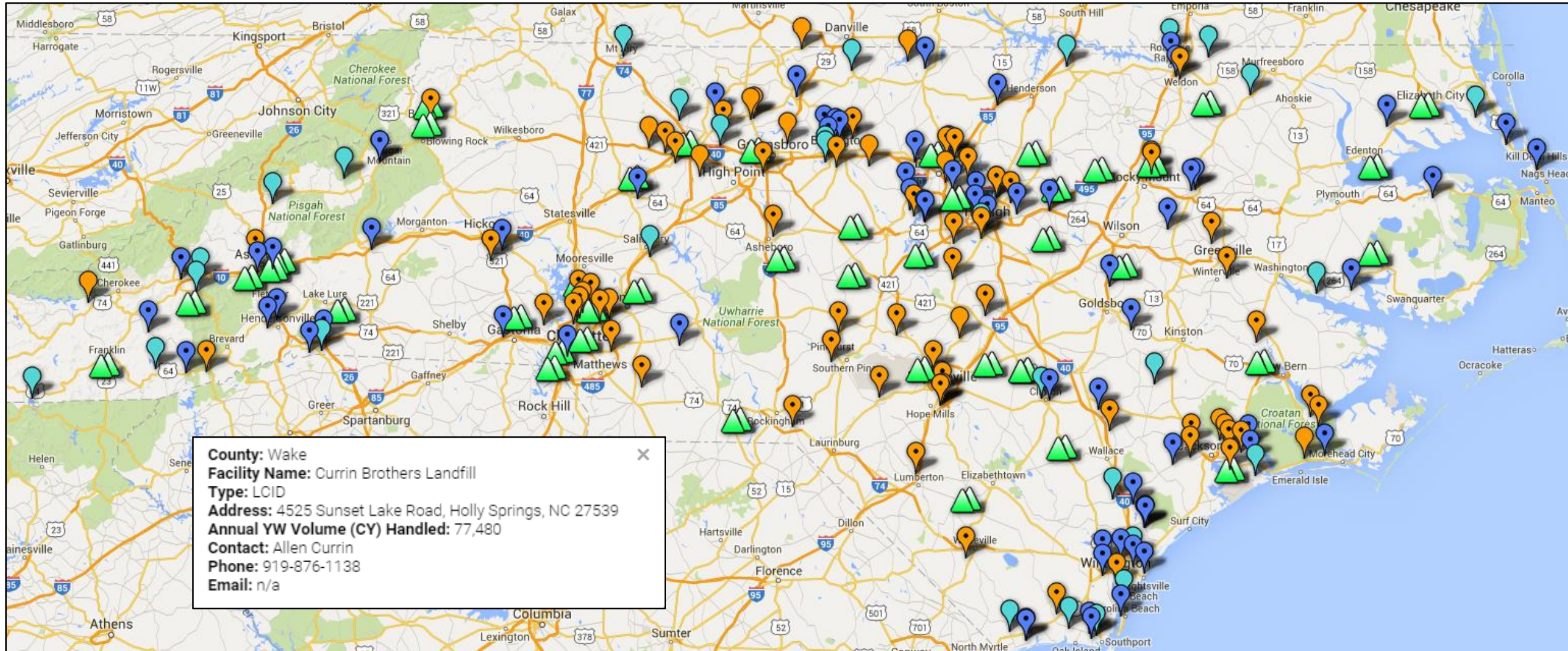
ORGANICS PROJECTS FUNDED



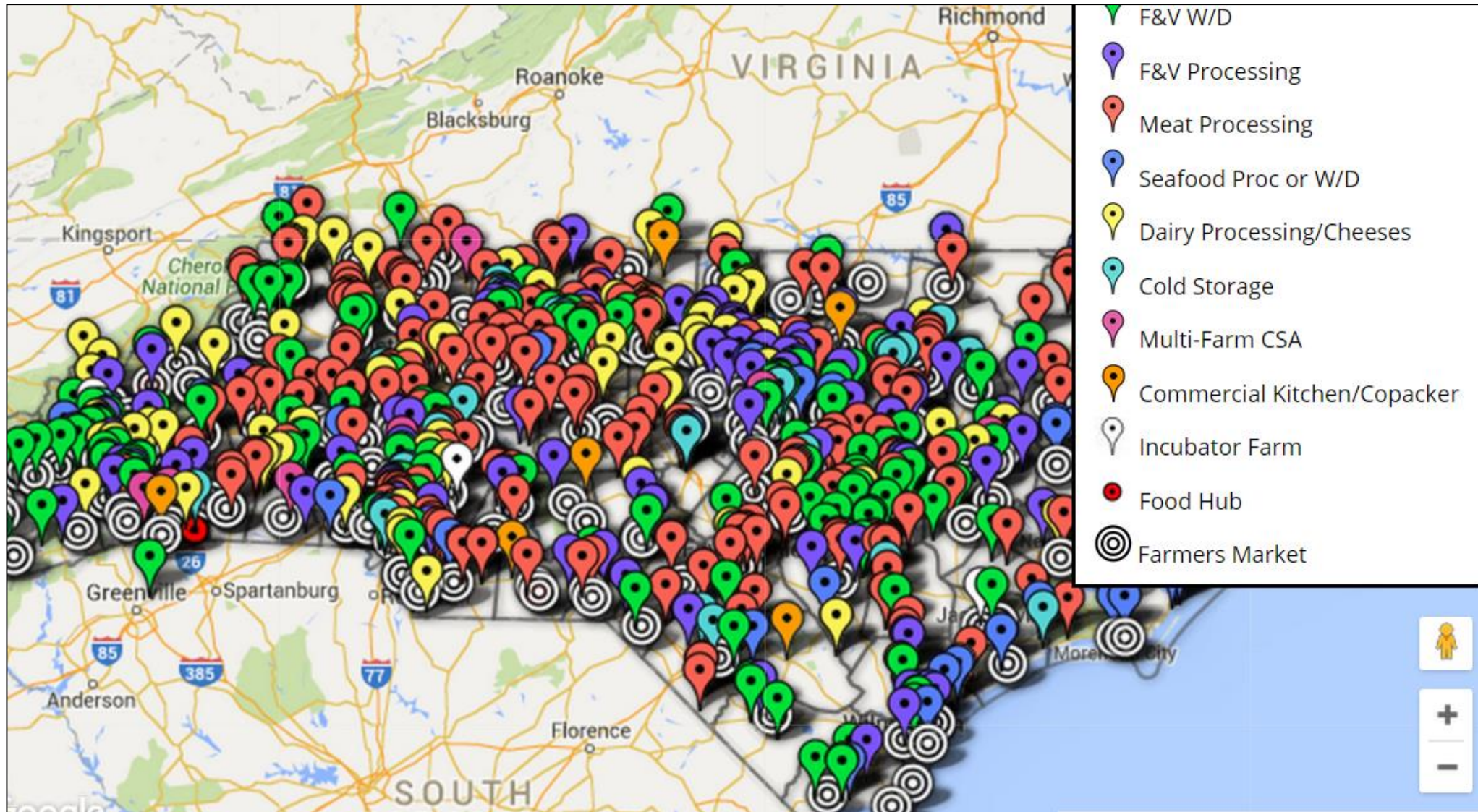
PERMITTED COMPOSTING FACILITIES



CARBON

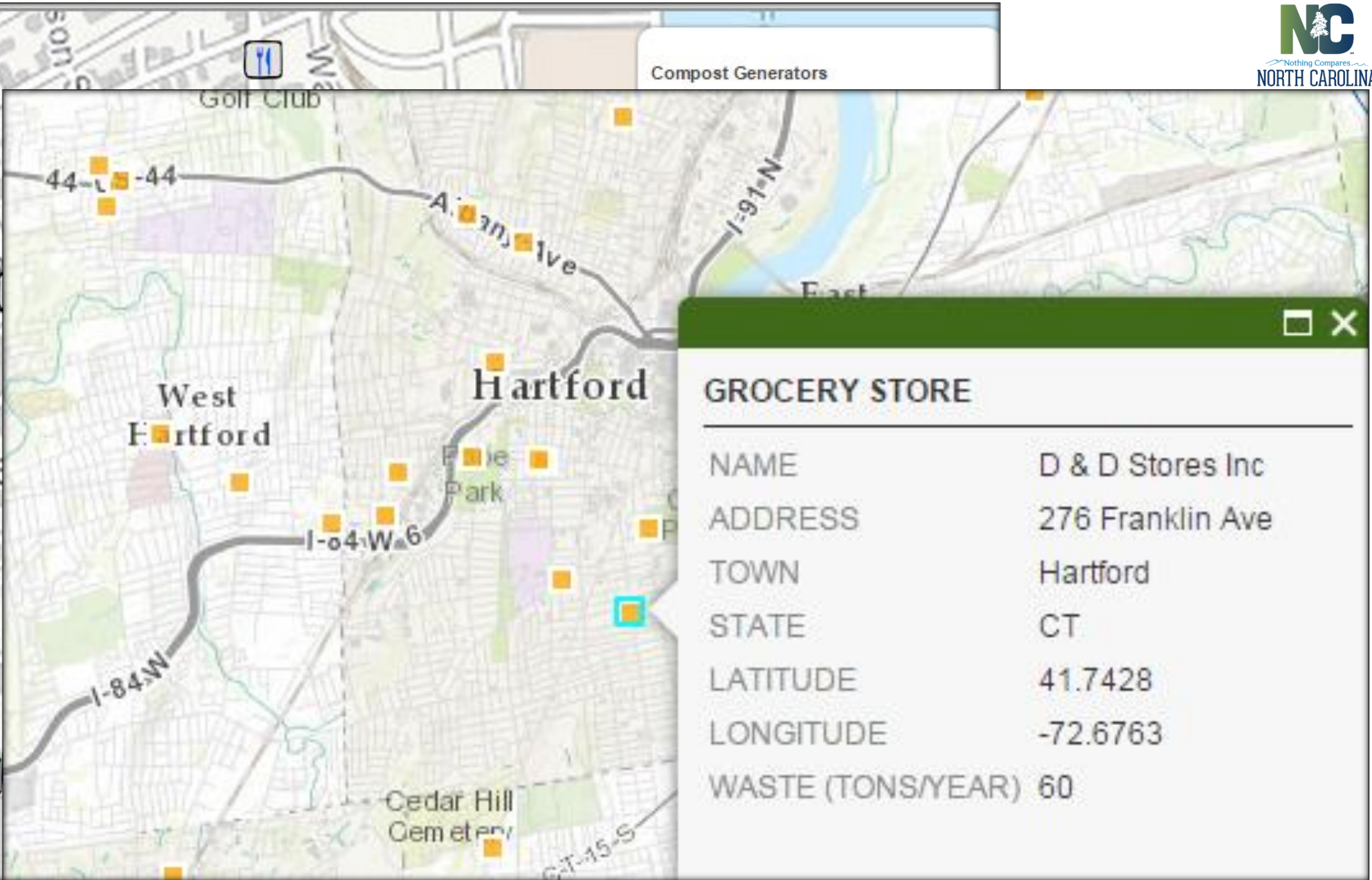


NC LOCAL FOOD INVENTORY MAP



Compost Generators

Map navigation controls including zoom in (+), zoom out (-), and a vertical list of location icons (fork and knife symbols).

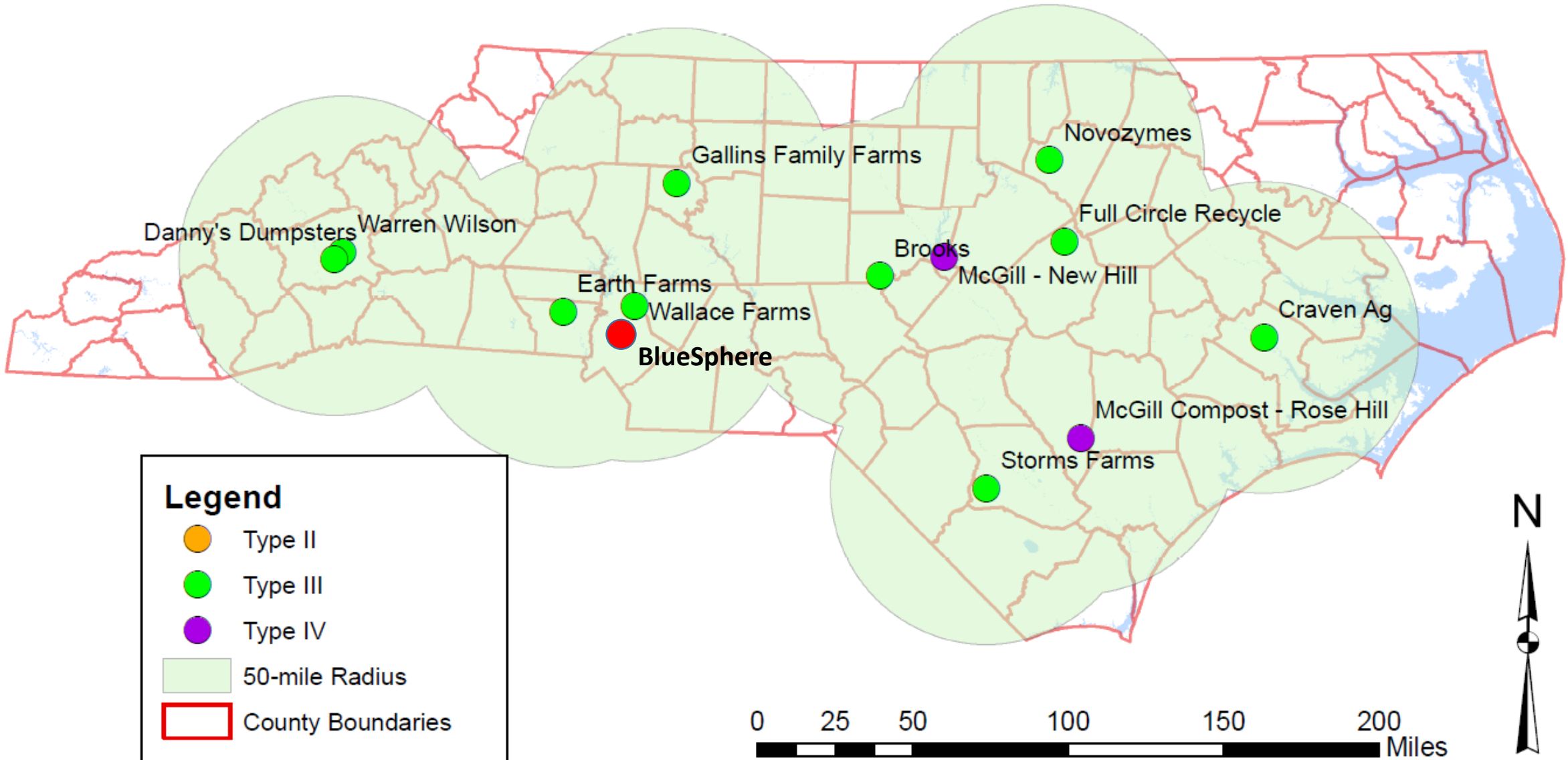


GROCERY STORE

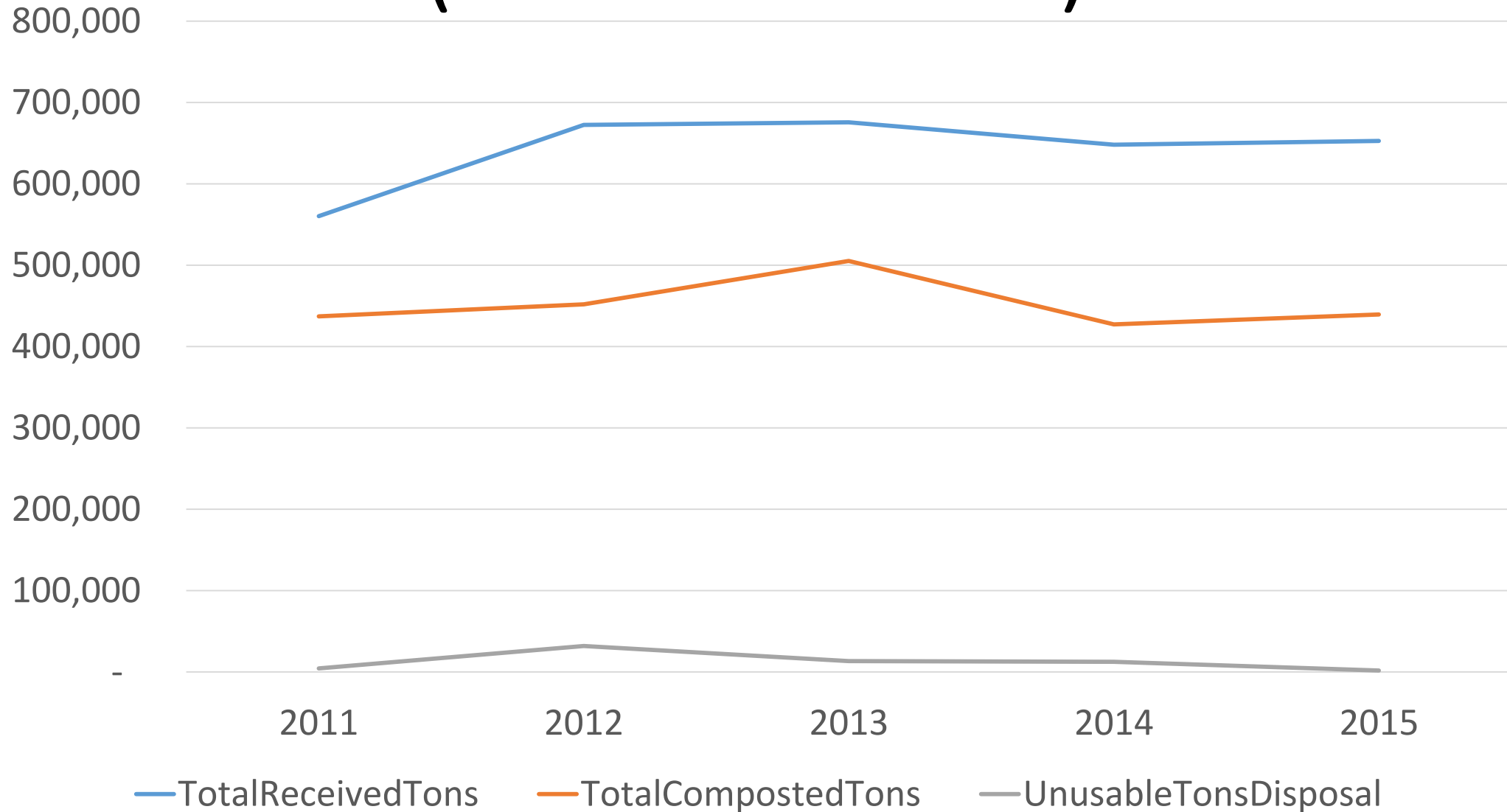
NAME	D & D Stores Inc
ADDRESS	276 Franklin Ave
TOWN	Hartford
STATE	CT
LATITUDE	41.7428
LONGITUDE	-72.6763
WASTE (TONS/YEAR)	60

PERMITTED COMPOSTING FACILITIES

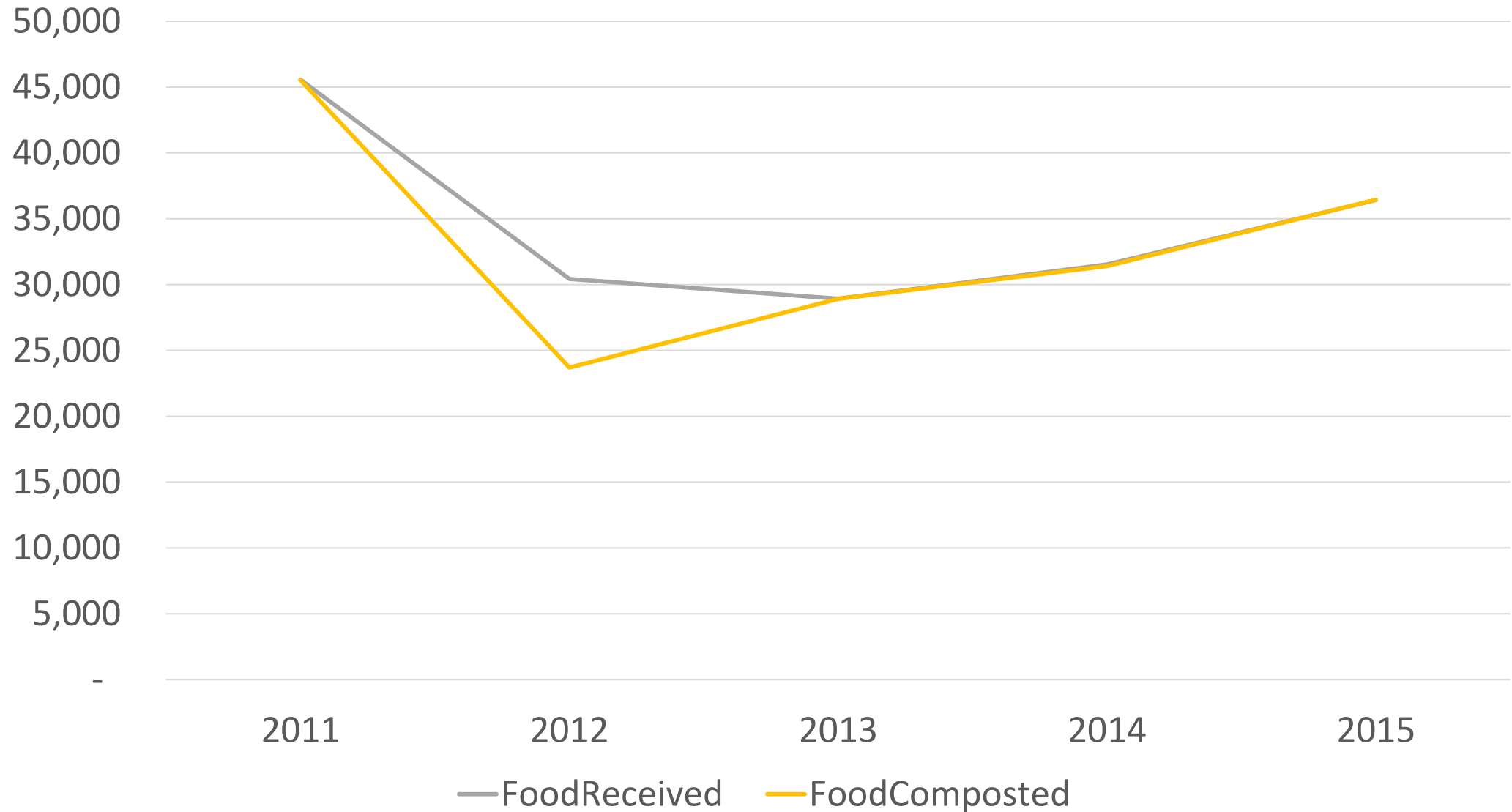
Able to Accept Off-Site Food Scraps



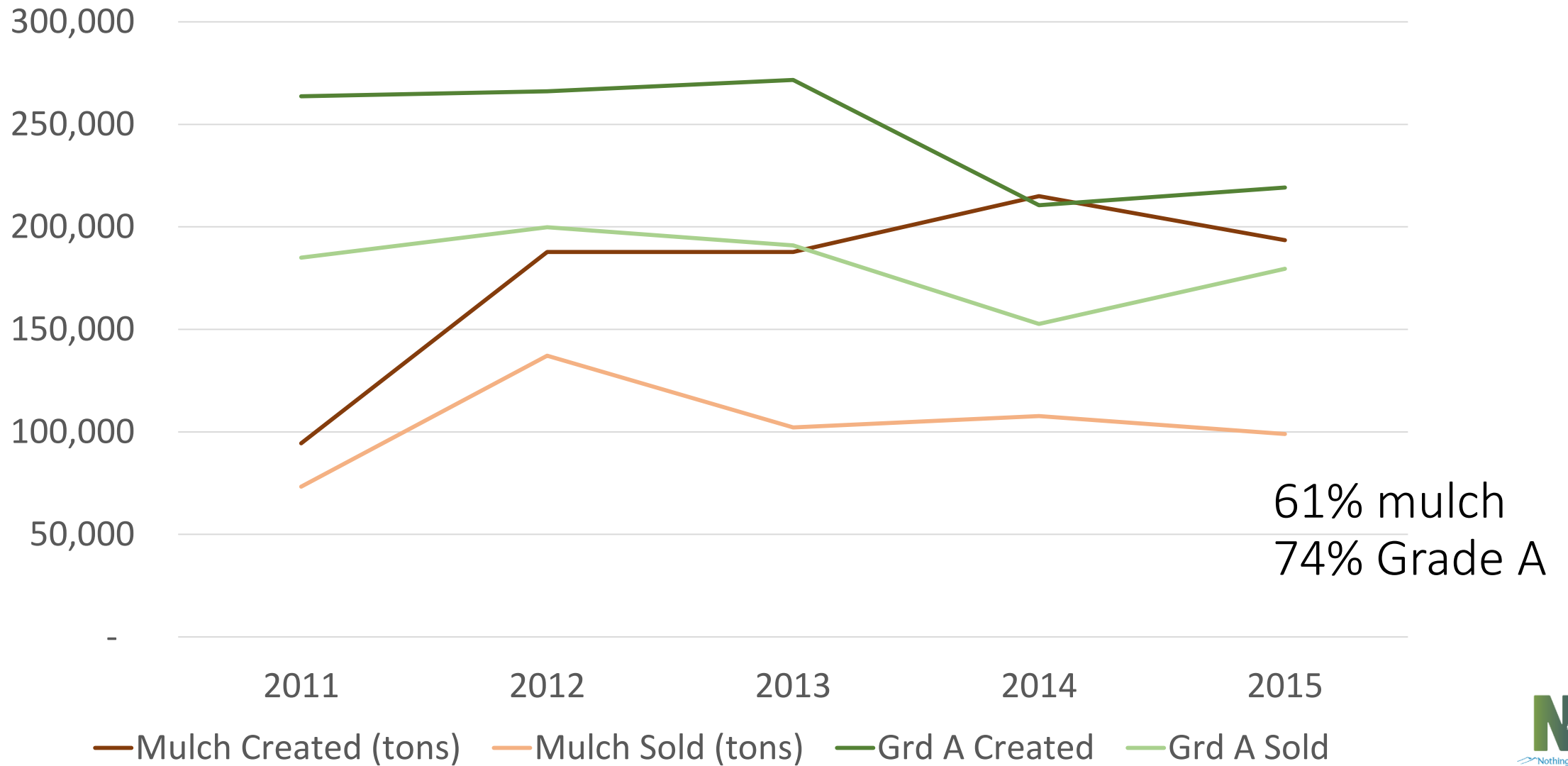
MATERIALS COMING IN (71% COMPOSTED)



FOOD SCRAPS (tons)



PRODUCT (tons)



61% mulch
74% Grade A

Informational Manual Composting Facility Stormwater BMPs



North Carolina Department of Environment and Natural Resources

DRAFT | SEPTEMBER 2015



9. LEVEL SPREADER - VEGETATIVE FILTER STRIP SYSTEM

Description

A level spreader - vegetative filter strip (LS-VFS) consists of a level spreader in series with a vegetative filter strip. A LS-VFS is designed to diffuse stormwater over a level concrete lip in order to produce sheet flow over the VFS. The vegetation and soils in the VFS remove pollutants primarily via filtration and infiltration.

A LS-VFS is typically installed to provide diffuse flow per a buffer rule, to meet stormwater rule provisions, or to provide pollutant removal. Design requirements for the system vary based on the regulatory requirements and the type of ground cover in the VFS. A

VFS is placed into one of four categories: protected riparian buffer, wooded stormwater setback/buffer, herbaceous stormwater setback/buffer, or engineered filter strip. The VFS is usually 30 feet in width except when the LS-VFS is used to meet stormwater rule requirements in 5A waters, in which case the VFS must be a minimum of 50 feet in width.



Purpose

- Can reduce particulate pollutants such as sediment, organic matter, and trace metals.
- Slows down water flow and promotes infiltration.
- Meets diffuse flow requirements under the buffer and stormwater programs.

Design Considerations

- The LS must be constructed with a uniform slope of zero percent (or level).
- A LS-VFS does not have the capability for stormwater detention; however, it does provide some volume control for smaller storms via infiltration in the VFS, particularly in soils with higher infiltration rates.
- The length of the LS-VFS must be determined based on the flow rate that is directed to it.
- The LS must be straight or convex.
- When used to meet Stormwater Rule requirements, the VFS must have a longitudinal slope of less than 5 percent if for wooded vegetation and 8 percent if it is graded and grassed.
- This BMP is vulnerable to excess solids loading.

Operation and Maintenance Considerations

- Maintenance of an LS-VFS involves periodic sediment removal in the level spreader swale and routine mowing and replanting of VFS grass when necessary.
- Strips receiving excessive sediment may require periodic re-grading and re-seeding of their upslope edge because deposited sediment can kill grass and prevent the LS-VFS from achieving diffuse flow.

For more information see Chapter 8 Level Spreader - Vegetative Filter Strip System in the NCDENR Stormwater BMP Manual at <http://portal.ncdenr.org/web/1r/bmp-manual>.

LISTSERV

The screenshot shows the Google Groups interface for the 'NC Organics Listserv'. At the top, there is a Google logo and a search bar with the text 'Search for topics'. Below this, the word 'Groups' is displayed in red. To the right of 'Groups' are several buttons: a red 'NEW TOPIC' button, a grey button with a refresh icon, a grey button labeled 'Mark all as read', and a grey button labeled 'Filters' with a dropdown arrow. On the left side, there is a sidebar with 'My groups' (Home, Starred), 'Favourites' (with a yellow callout box that says 'Click on a group's star icon to add it to your favourites'), and 'Recently viewed' (listing 'NC Organics Listserv'). The main content area shows the group name 'NC Organics Listserv' with a 'Shared privately' status and '4 of 4 topics' with a star icon. The message content includes a welcome message, the purpose of the listserv (to increase communication across North Carolina regarding organics recycling), a warning to avoid sale pitches, and instructions on how to handle direct responses (removing the email address nc-organics-list@googlegroups.com). It also mentions the list is managed by NCDEQ-DEACS and provides an email address for questions: ncdeacsorganics@gmail.com. The message ends with 'Happy Organics Recycling!'.

REGIONAL GROUPS



Are you ready to
DOO your part?

Jorge Montezuma

Jorge.Montezuma@ncdenr.gov

919-707-8123