

On Farm Benefits of NCDA&CS Agronomic Division & Field Services







Steve Troxler, Commissioner of Agriculture





About Me....

THIS JOB ISN'T FOR EVERYONE





Agronomic Division

Colleen Hudak-Wise, Ph.D., Director

Soil Testing Lab

- > David Hardy, Ph.D., Section Chief
- Jagathi Kamalakanthan, Agronomist

Plant, Waste, Solution & Media Analysis Lab

- Kristin Hicks, Ph.D., Section Chief
- Hunter Landis, Agronomist

Nematode Assay Lab

- Weimin Ye, Ph.D., Section Chief
- Field Services
 - Michelle McGinnis, Ph.D., Section Chief
 - 13 regional agronomists





Mandate

To provide N.C. residents with site-specific diagnostic and advisory services that

increase agricultural productivity
promote responsible land management
protect environmental quality

- N.C.G.S. 106.19, 106.22



Something to think about...



Soil Testing



~306,000 soil samples in FY15

—Provides lime & fertilizer recommendations —Helps prevent/diagnose plant-growth problems —Helps protect environment from excess nutrients



Soil Testing Fees[†]



Standard soil test \$4 peak season*
Research sample
Heavy metals

† No out-of-state soil samples are accepted.

* Peak season is December through March. The program is also subsidized by fertilizer inspection fee and lime tonnage tax.



November 27, 2013



Soil Test Recommendations



Dr. David Hardy, Section Chief

An agronomist reviews and interprets data, then enters recommendations for problem samples. Interpretations for routine samples are computer generated.



Plant Tissue Analysis

In-state samples \$5 *Out-of-state samples* \$25

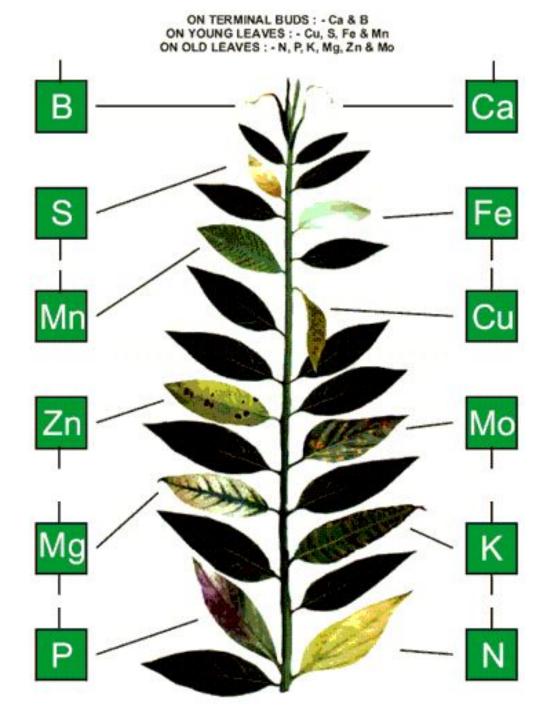
~11,000 tissue samples in FY15



—Measures nutrient levels within plants —Identifies nutrient deficiencies and toxicities









Nematode Assay

In-state samples \$3
 Research samples \$10
Out-of-state samples \$10
~40,000 nematode assays in FY15



Identifies plant-parasitic nematodes
 Estimates nematode population levels
 Recommends management practices



Waste Analysis

In-state samples \$5 *Out-of-state samples* \$25

~15,000 waste samples in FY15



—Measures nutrient content of animal waste -Measures nutrient content of composted materials —Measures lime equivalency



Solution Analysis

In-state samples \$5 *Out-of-state samples* \$25

~3,000 solution samples in FY15





—Measures suitability of water for agricultural purposes



Soilless Media Analysis

In-state samples \$5 *Out-of-state samples* \$25 ~700 soilless media samples in FY15





—Measures nutrient levels, electrical conductivity & pH of soilless plant growth media



Field Services

- Work on-farm one-on-one with growers
- Use lab services to prevent and identify problems
- Offer science and research based recommendations





Providing the Best Agronomic Services for North Carolina





To promote responsible land management and protect environmental quality