

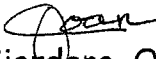


Albemarle-Pamlico National Estuary Program

Public Involvement Office

MEMORANDUM

TO: Neuse River Basin Regional Council Members

FROM:  Joan Giordano, Outreach Coordinator

SUBJ: Next Meeting - November 30, 2001

DATE: November 1, 2001

Enclosed is the agenda for our next regularly scheduled meeting (11/30/01) which will be held in Smithfield, at the Centenary United Methodist Church. The church is located in downtown Smithfield at the corner of Market and 2nd Streets. We'll begin at 10:00am. I have enclosed directions to the meeting place, and our thanks go to Chairman McLawhorn for making the meeting location arrangements. Also, he has agreed to bring kayaks for paddling, so keep your fingers crossed for beautiful weather!

As you can see from the agenda, we will have a presentation dealing with nitrogen runoff, which is something you have asked to hear. Dr. David Hardy, an Extension Specialist-Soil Science Dept. at NC State University will be our speaker. Given current rules that are in place dealing with nitrogen reduction in the Neuse, I'm sure you'll find Dr. Hardy's presentation interesting and informative.

Additionally, between now and November 30th, please give serious thought to the nomination of new officers for our Regional Council. Election of officers (Chair, Vice-Chair and Secretary) occurs in January according to our by-laws, and we need to adhere to this schedule. In other words, at the meeting following the one on the 30th, we will be voting!

I look forward to seeing you on the 30th and, as always, thank you for your dedication and commitment to protecting the natural resources in eastern North Carolina.

Michael F. Easley
Governor

William G. Ross Jr.
Secretary
Department of
Environment and
Natural Resources

Gregory J. Thorpe, Ph.D.
Acting Director
Division of Water Quality

Guy Stefanski
Program Coordinator

Joan Giordano
Outreach Coordinator



N. C. DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES
DIVISION OF WATER QUALITY

943 WASHINGTON SQUARE MALL WASHINGTON, NORTH CAROLINA 27889 • PHONE: (252) 946-6481 EXT. 269 • FAX: (252) 975-3716
<http://h2o.enr.state.nc.us/nep>



NEUSE RIVER BASIN REGIONAL COUNCIL

Centenary United Methodist Church
Market & 2nd Streets
Smithfield, NC
(919) 934-2333
November 30, 2001

AGENDA

10:00am	Welcome and Call to Order	Chairman McLawhorn
10:05	Roll Call	Joan Giordano
10:10	Consideration of Minutes	Chairman McLawhorn
10:15	<u>OLD BUSINESS</u> Update-NRBRC Concerns & Correlation to CCMP	Joan Giordano
10:30	<u>NEW BUSINESS</u> Formation of Nominating Committee	Chairman McLawhorn
10:45	<u>PRESENTATION</u> Agriculture Concerns in the Neuse River Basin Q & A	Dr. David Hardy, Extension Specialist- Soil Science, NCSU
11:45	Public Comment	
11:50	Plans for Next Meeting	All
12:00	Adjourn	

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WASHINGTON, NC 27889-3532 US
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TO:

140 E MARKET ST SMITHFIELD,
NC 27577-3916 US
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Total Distance: 88.9 miles (143.0 km)

Total Estimated Time: 2 hours, 30 minutes

- PRINT
- DOWNLOAD TO PDA
- E-MAIL
- REVERSE DIRECTIONS

DIRECTIONS

There are 0.1 miles (0.1km) between the start of the directions and your origin. Use the map below to get to US-17 .

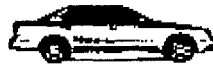
- 1: Start out going South on US-17 towards HACKNEY AVE by turning left.
- 2: Turn RIGHT onto US-264.
- 3: Turn LEFT onto US-264 ALT E.
- 4: Turn LEFT onto US-264 W.
- 5: Turn LEFT onto US-301 S.
- 6: Take the I-95 S ramp.
- 7: Merge onto I-95 S.
- 8: Take the US-70-BR exit, exit number 95, towards SMITHFIELD/GOLDSBORO.
- 9: Turn RIGHT onto US-70 BR.

DISTANCE

- 0.7 miles (1.1 km)
- 17.5 miles (28.1 km)
- 23.5 miles (37.8 km)
- 16.5 miles (26.6 km)
- 16.4 miles (26.3 km)
- 0.3 miles (0.5 km)
- 12.2 miles (19.6 km)
- 0.3 miles (0.5 km)
- 1.5 miles (2.4 km)
- TOTAL DISTANCE:**
88.9 miles (143.0km)

TOTAL ESTIMATED TIME: 2 hours, 30 minutes

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Albemarle-Pamlico National Estuary Program

Public Involvement Office

MEMORANDUM

Michael F. Easley
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Gregory J. Thorpe, Ph.D.
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Division of Water Quality

Guy Stefanski
Program Coordinator

Joan Giordano
Outreach Coordinator

TO: Neuse River Basin Regional Council Members
FROM: Joan Giordano, Outreach Coordinator
SUBJ: Minutes of November 30, 2001 Meeting
DATE: December 13, 2001

Hi Folks,

Enclosed are the minutes from our last meeting held on November 30, 2001 at Centenary United Methodist Church in Smithfield. A sincere thanks goes out to the city of Smithfield and the Centenary Church for allowing us to meet there.

As indicated in the minutes, our next meeting will be held on February 15, 2002, beginning at 10:00am. We anticipate holding the meeting at the Wayne Center in Goldsboro, but will notify you of the meeting site specifically, when the reminder notice and agenda are mailed.

Thank you for the commitment each of you has demonstrated over the past year in protecting the beautiful and valuable natural resources of eastern North Carolina. Betty and I wish you the happiest of Holidays and look forward to another productive year in 2002!



N. C. DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES
DIVISION OF WATER QUALITY

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ALBEMARLE-PAMLICO NATIONAL ESTUARY PROGRAM

NEUSE RIVER BASIN REGIONAL COUNCIL

Centenary United Methodist Church

Smithfield, NC

November 30, 2001

MINUTES

The meeting was called to order by Chairman Andy McLawhorn at 10:00am. He thanked those persons (from the city of Smithfield and Centenary Church) who made it possible for us to meet there.

Chairman McLawhorn led a brief discussion on the importance of keeping the public informed about water quality, especially those who swim and paddle canoes and kayaks. He feels there is not enough being published about the suitability of inland water bodies for swimming and other full body contact activities. Joan Giordano referred him to the DWQ website and the link that reveals the basinwide plans. It was mentioned that the basinwide plans are done on a 5-year cycle and the information he is seeking needs to be published at least monthly. The comment was also made that the basinwide plans need to be more "user friendly" and not chock-full of technical and scientific terms. It was also suggested that a consolidated water quality database be developed showing data from all that sample. Such information should be frequently arrayed so the general public will have a sense of what the water quality at their favorite "watering hole" is, at any given time.

Having determined that a quorum was present (See Attachment A) Chairman McLawhorn then asked for a motion approving the minutes from the last meeting (9/28/01). Sondra Riggs moved the minutes be accepted as mailed, and Margaret Holton seconded. Motion passed.



Discussion turned to the status of the demonstration project being undertaken by the Neuse River Foundation - "Monitoring the Mouth of Beard's and Crabtree Creeks." Joan Giordano reported that the sampling at both locations was progressing as scheduled and that she was unsure if any analysis was being undertaken because of the change in the NRF's Ex. Director and Riverkeeper positions. She promised to check on it and report back to the group.

The topic of erosion and sedimentation control was the next to be discussed, especially as pertains to the Dept. of Transportation. Members felt that the DOT was not held to the same standard as all others were, with respect to erosion and silt runoff. Joan agreed to looking into having a DOT staff member make a presentation at a future meeting.

Another presentation request included hearing from Dr. Hans Paerl regarding the Ferry-Mon project. This project involves the installation of water quality monitoring equipment on certain ferries crossing the Pamlico Sound and other bodies of water. The data collected is "real-time", i.e. it is immediately transmitted via satellite to a location where it can be monitored and analyzed. Joan reported that the project is so successful that analysts cannot keep up with all the data being collected. She agreed to invite either Dr. Paerl (UNC) or Dr. Ramus (Duke U.) to speak at a future meeting.

Discussion of the proposed amendments to the Executive Order creating the Regional Councils and the Coordinating Council was tabled.

Joan reported on the Water Supply Seminar scheduled for March 15, 2002 in Greenville, at ECU's Willis Bldg. (1st & Reade Streets) beginning at 10:00am. She agreed to have the draft agenda sent to all Neuse and Roanoke RC members for their comments, and requested that those comments be communicated back to her by 12/31/01. NOTE: The draft agenda was sent out for comment on 12/11/01.

The next order of business, forming a nominating committee for the election of 2002 NRBRC officers had Chairman McLawhorn asking for volunteers. He volunteered, as did Bill Ritchie. Chairman McLawhorn agreed to contact Norman Ricks to complete the committee. They will meet, either in person,

or over the phone, to prepare a slate of names for consideration. Voting will occur at the next meeting on February 15, 2002 (perhaps) in Goldsboro.

Dr. David Hardy (NCSU Cooperative Extension Service) gave a presentation on agricultural concerns in the Neuse basin. (See Attachment B) Questions and answers ensued.

During the public comment period of the meeting, Margaret Holton distributed (for informational purposes) a copy of *Enviro Notes* which outlined the Clean Smokestacks Bill, (S 1078). (See Attachment C).

The next meeting was scheduled for February 15th beginning at 10:00am in (possibly) Goldsboro. A meeting notice and agenda will be sent as the time draws closer.

There being no further business, the meeting was adjourned.



ATTENDANCE

NEUSE RIVER BASIN REGIONAL COUNCIL

Centenary United Methodist Church
Market & 2nd Streets
Smithfield, NC
(919) 934-2333

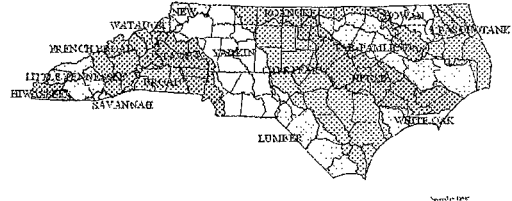
NAME	AFFILIATION
1. Joan Siordano	APNEP staff
2. Bill Telford	city of Durham
3. Bob Dodson	" "
4. Sandra Spock Reggs	Jones County Commission
5. Andy Mank	Pitt County
6. Margaret Holton, Chapel Hill	Orange County
7. Ann Holton	" "
8. Jimmy B. Clayton	Person County
9. Bruce R. Whitfield	Person SWCD
10. BILL RITCHIE	CRAVEN COUNTY
11. Charles Pittman	City of Wilson
12.	
13.	
14.	
15.	
16.	
17.	

11/30/01

**AGRICULTURAL
WATER QUALITY CONCERNS
IN THE NEUSE RIVER BASIN**

David H. HARDY
Extension Specialist- Soil Science
NC STATE UNIVERSITY

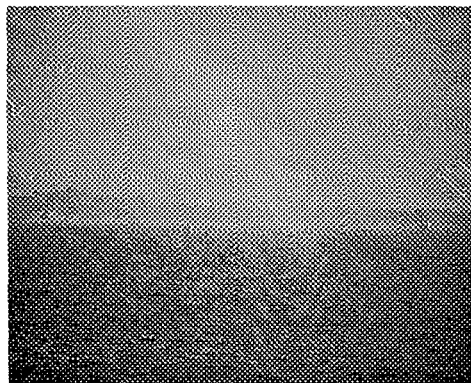
North Carolina's River Basins



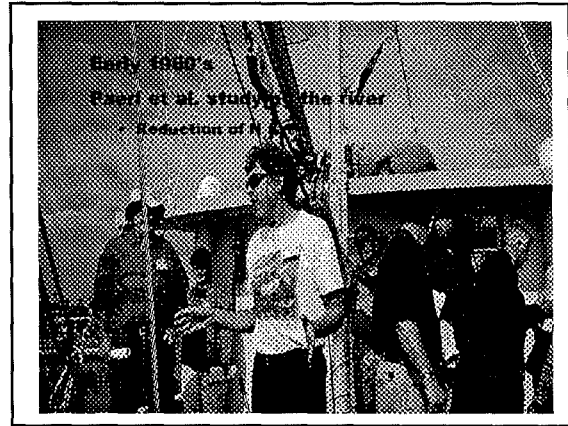
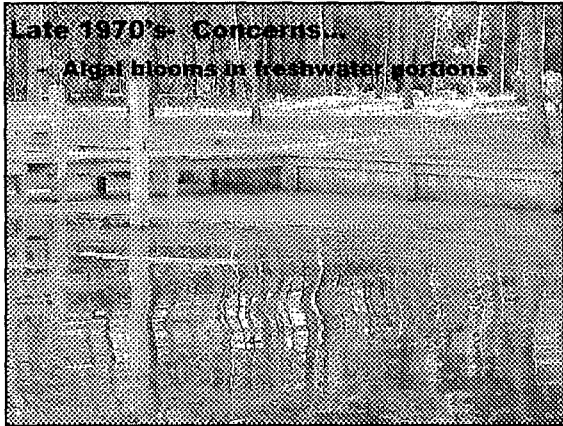
**Characteristics of the
Neuse Basin**

- 23 counties
- 3 million acres total
- 1.2 million acres of farmland
- ~1.2 million people
- 200 miles of river
- ~3,500 miles of streams

Neuse River Basin







Neuse History

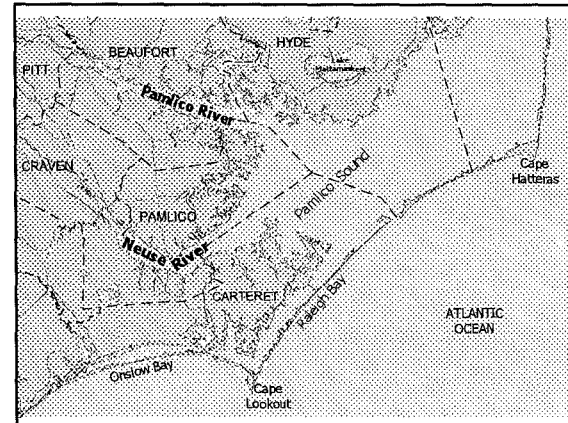
- **1983- Falls Lake deemed Nutrient Sensitive Waters (NSW)**
 - Point source restrictions
- **1988- Neuse Basin NSW**
 - Further point source restrictions
 - 1988- Phosphate detergent ban statewide
 - First mention of nonpoint source measures needed- N
 - NC Agricultural Cost Share Program

Neuse History

1993 Neuse Basinwide Management Plan

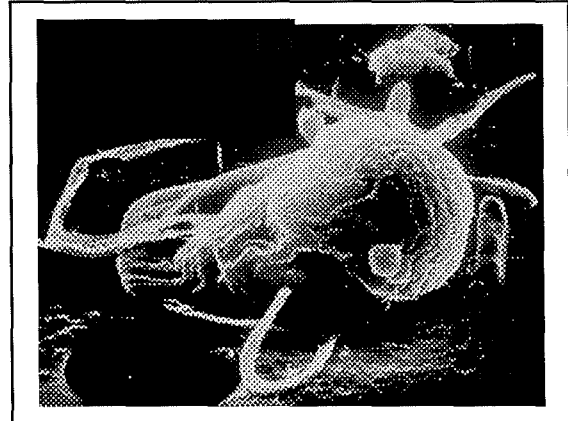
- Reductions in Total P loading recognized
- Still concerns of eutrophication in much of the estuary
 - Modeling and monitoring work that addressed issue be given a priority
- Recommended accelerated schedule for control of N losses from nonpoint sources

Major Fish Kills in 1995
Neuse Estuary
July, September, October



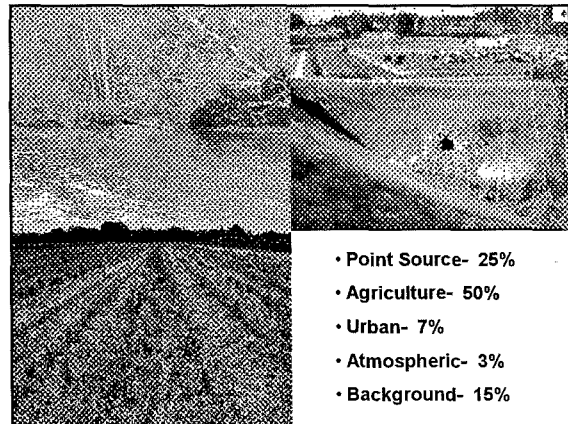
Fish Kills- Why?

- **Low dissolved oxygen**
 - Prevalence of algal blooms
 - Record rainfalls in June
 - High load of NPS pollutants
 - Prolonged hot period
 - Salt wedge- stratification of waters



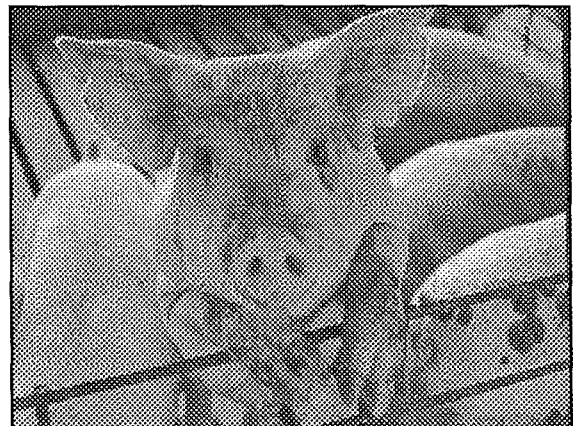
Neuse NSW Management Strategy "Neuse Rules"

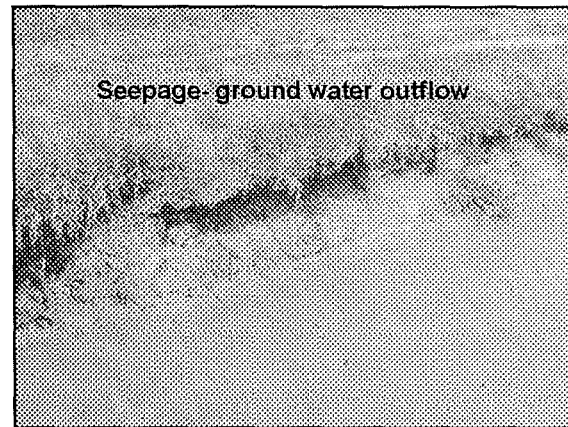
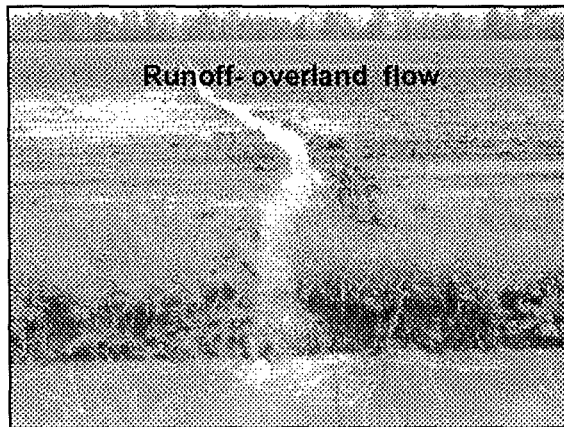
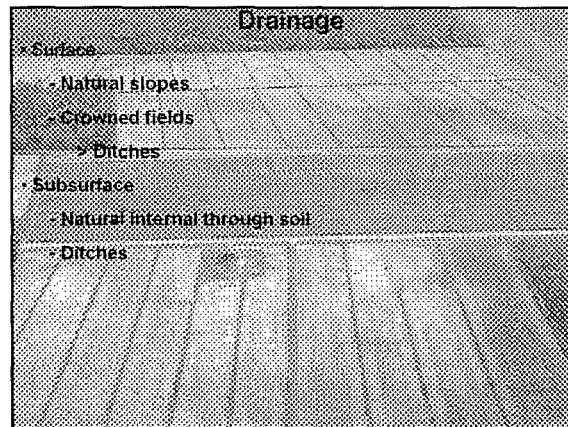
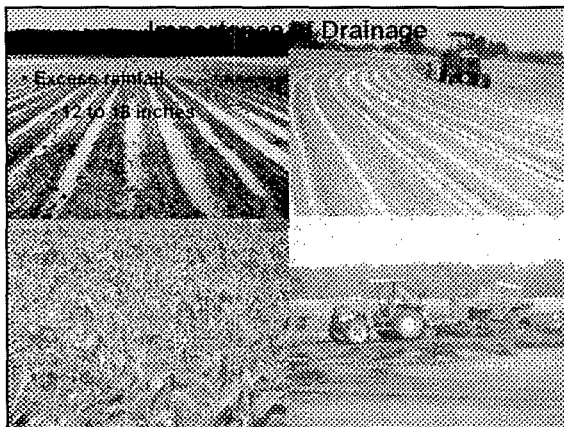
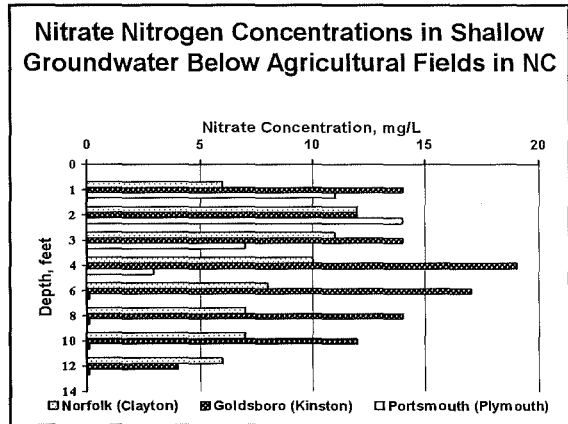
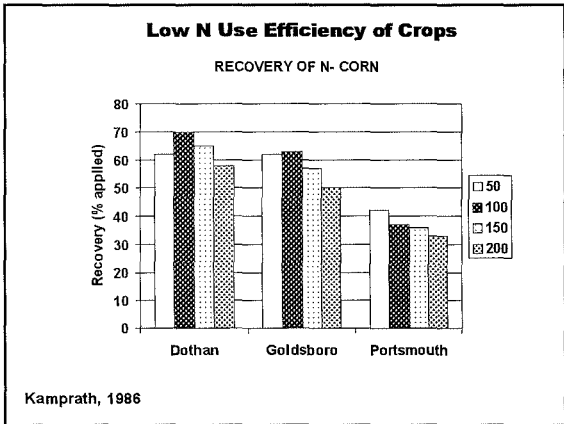
- 30% Reduction in N loading from baseline load (1991 – 1995)
 - Point Source
 - Nonpoint Source
- August 1, 1998 → August 1, 2003

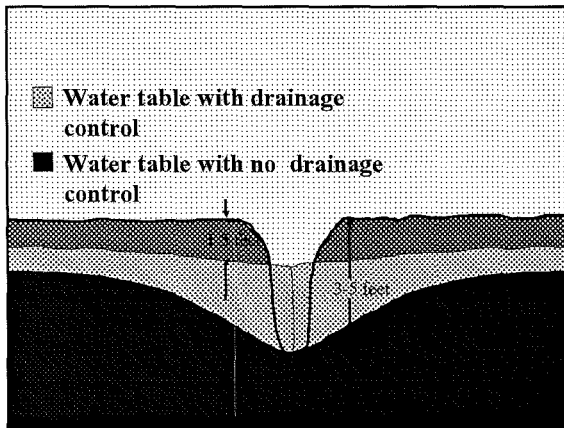
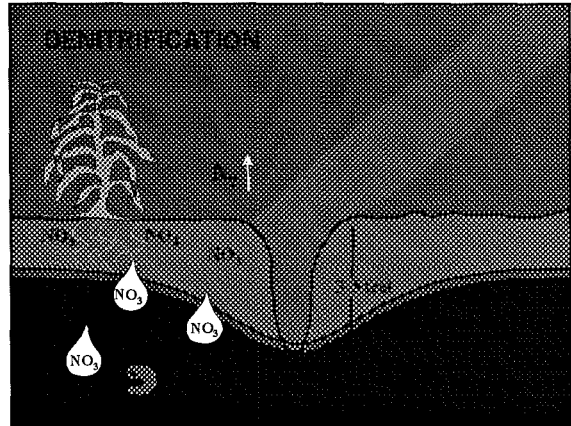
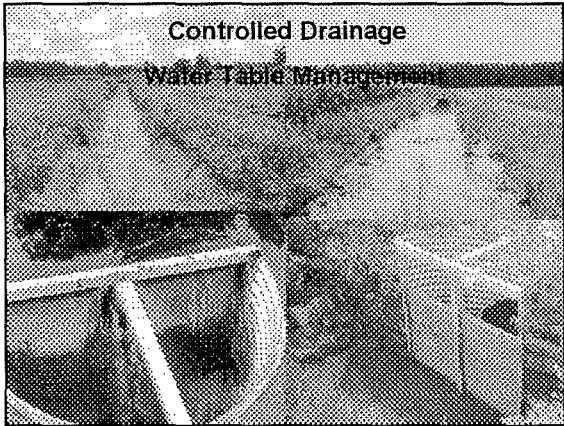


Neuse Rules

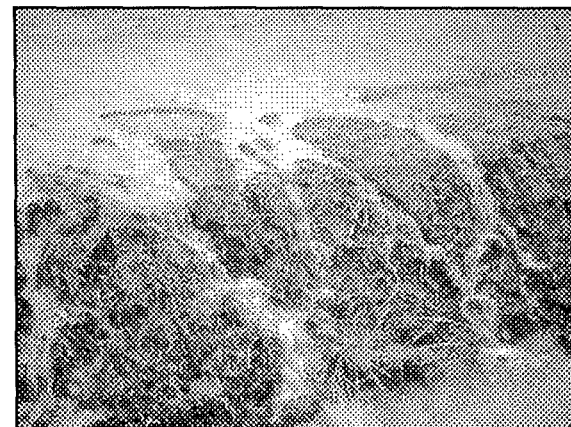
- **Point Sources**
- **Urban Stormwater**
- **Agriculture**
- **Nutrient Management**
- **Riparian Buffers**
 - Protection & maintenance of existing buffers

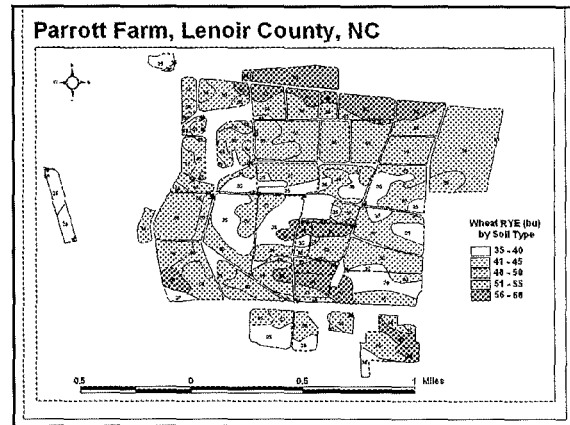
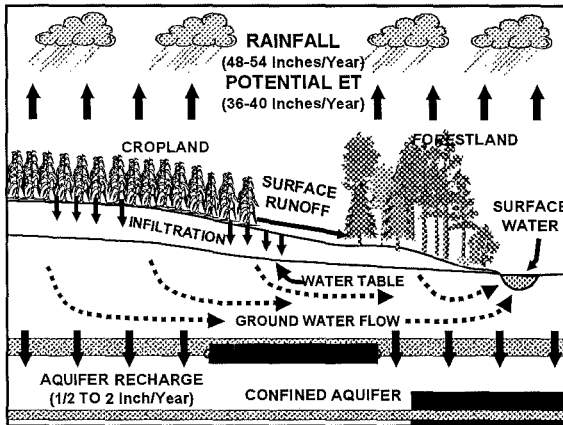
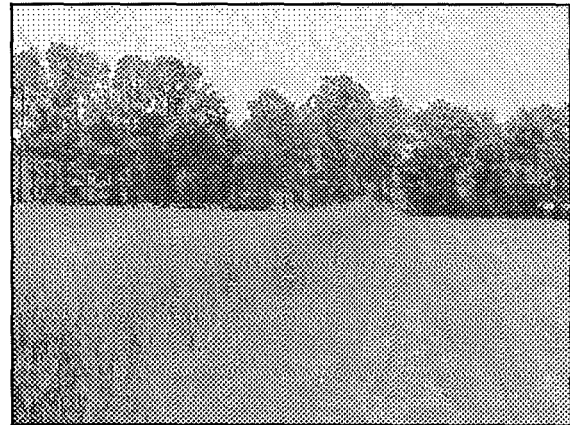
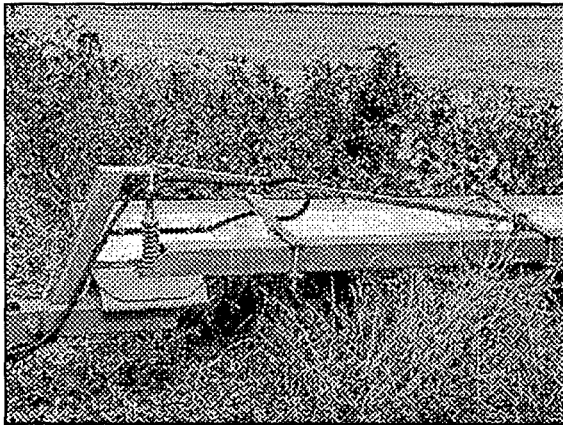




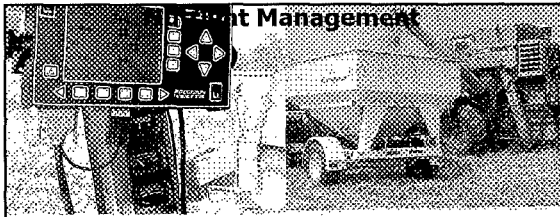


Benefits
 - Remove farming from production
 - Opposed by growers
 - Provide water quality benefits
 - Reduces nitrate levels in groundwater
 - Denitrification
 - nutrient uptake
 - Slow filter water, sediment and P
 - enhance stream biology









Realistic Yield Expectations- Productivity based fertilization

- RYE- Corn (Norfolk) = 115 bu / acre
- N Factor (NF): 1.0 – 1.25 lb. N per bushel
- N Rate = RYE X NF = 115 x 1.1 = 127 lbs. N per acre

Neuse Ag Rule

Agricultural N Reduction Strategy

- 30% Reduction in N Loading
 - Baseline 1991 - 1995
- State Mandatory BMPs (Option 2)
- Local Strategy (Option 1)
 - BMP flexibility
 - Local Area Committees
 - Basin Oversight Committee
 - Environmental Management Commission

Neuse Ag Rule

- Local Option (Option 1)
 - Flexible BMPs

	N Reduction Credit
• Buffer: tree- 30 ft. + grass- 20 ft	85%
• Tree buffer ≥ 20 ft.	75%
• Grass buffer ≥ 30 ft.	65%
• Filter strip ≥ 20 ft.	40%
• Shrub buffer ≥ 20 ft.	75%
• Cover crops	5 – 15%
• Controlled drainage	40%
• Nutrient management	variable

Neuse strategies by county and BMPs.

County	Crop				
	Area ^a	Nut. Mgt.	C. Drain.	Buffer	Crop Loss ^b
Carteret	100	22,607	17,000		
Craven & Beaufort	94	13,000	12,500	800	
Durham	90	350			989
Greene	100	23,884		700	
Johnston	77	6100		810	11,000
Jones	92	50,000		800	
Lenoir	80	23,000	3500	32,240	
Nash	90			800	1347

^a Percent of crop area in basin associated with strategy.

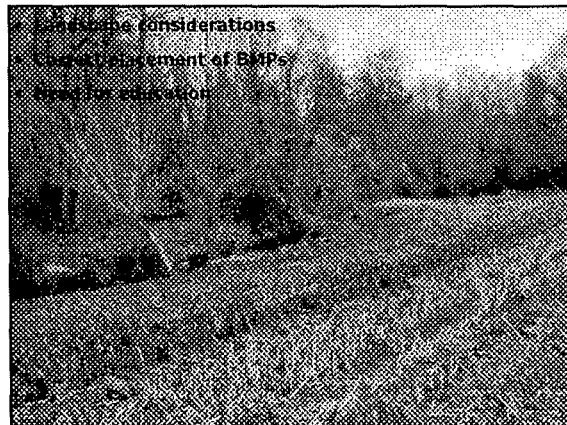
^b Loss to urban development

Neuse strategies by county and BMPs.

County	Crop				
	Area ^a	Nut. Mgt.	C. Drain.	Buffer	Crop Loss ^b
Pamlico	88	12,515	12,100	430	
Pitt	94	35,000	600	4185	3050
Wilson	98	7,000		1198	5898
Wayne	87	113,442	180	1546	9511
Wake & Franklin	90	13,480		1352	7165
Person	No approved strategy				
Orange	No approved strategy				
Granville	No approved strategy				

^a Percent of crop area in basin associated with strategy.

^b Loss to urban development



Neuse Crop Management Project

- Educational need- agriculture in meeting compliance
- Economic concerns

Economic Concerns

- Depressed grain and cotton prices
- Tobacco quotas / contracting
 - uncertainty of future
- Continued pressure on alternative sources of income- swine and poultry industry

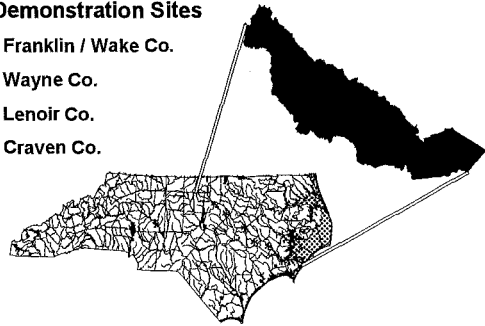
Project Goal

Increase use of production practices that increase performance of growers

- Economic
- Environmental
- Agronomic

Demonstration Sites

- Franklin / Wake Co.
- Wayne Co.
- Lenoir Co.
- Craven Co.



Partners

- | | |
|--|----------------------------|
| • Neuse growers | • Royster Clark |
| • Ctr. Agric. Partnerships | • McLawhorn Crop Ser. |
| • EPA | • NRCS- USDA |
| • Pew Charitable Trust | • NC Corn Growers Assoc. |
| • CWMTF | • NCDA- Agronomic Div. |
| • Cotton Inc. | • NC Farm Bureau |
| • DENR | • NC Plant Food Assoc. |
| – DSWC | • NC Small Grain Assoc. |
| – DWQ | • NC Cooperative Extension |
| • Dixie Fertilizer | • NC State University |
| • Southern States | |
| 3 year grant funded project through 2002 | |

Cost / Benefit Nutrient Management Planning Corn Example

Grower's program

150# N per acre
58# P₂O₅ per acre

NMP program

135# N per acre
25# P₂O₅ per acre

10% ↓ in N use
57% ↓ in P₂O₅ use

Production Costs

\$278 per acre
Breakeven @ \$2.50
111 bushels

Production Costs

\$255 per acre
Breakeven @ \$2.50
102 bushels

Lessons Learned

- **Agriculture is a challenging area to work.**
 - Who is the problem??
 - Independence of growers
 - Depressed times- economy
 - Risk aversion
 - Peer pressure
 - Desire for easy, practical solutions
 - Scale of operation

Lessons Learned

- **Agribusiness is professional and cooperative.**
- **Growers rely heavily on agribusiness in making decisions.**
- **Growers respond well to hands on assistance.**
- **Growers perceive service usefulness based on costs of services.**

Lessons Learned

- **Many growers can still fine tune inputs using reliable information.**
- **Growers as a whole are not aware of cost-share opportunities.**
- **Agencies need to have a more collaborative effort in offering service to growers.**
- **Most growers appreciate assistance.**

Air Pollution

Attachment C file:///Untitled
11/30/01

Long NC 2001 Legislative Session
ENVIRO NOTES -- NOVEMBER 2001 -- MARGARET HOLTON

As we continue the NC General Assemble Session of 2001, the House and Senate struggle to go home. The redistricting process for national and state elections is the present hold up for their agreement.

This has been the worst budget crisis in North Carolina in at least the last ten years. The state budget was finally passed on September 21st, almost three months after the beginning of the new fiscal year. The versions of the two houses each had been passed since midsummer, but they were grid locked on how to finance the product. The final budget did contain a statewide half cent sales tax increase and an increase on the highest income tax bracket. Relatively speaking, as an agency, the Department of Environment and Natural Resources escaped the worst of the budget cuts. The Clean Water Management Trust fund will be fully funded this year and next at forty million and seventy million dollars, respectively.

The most important environmental bill of the last few years is the one dealing with air pollution : the Clean Smoke Stacks Bill (S 1078). This bill requires significant reduction in the emissions of NOx and SO2 from our state's major utilities -- Duke energy and Progress Energy. There have been many hurdles and road blocks for the passage of this bill and it still sits in the House Public Utilities Committee, where it has been for the past four months. The Motor Vehicle Inspection Fees Bill (H 969) of Representative Joe Hackney, D-Orange, has been held up. This bill is a necessary part of the NOx SIP Call implementation. We still have some hope that these two bills will be passed.

