To improve profitability and competitiveness of New York farms while protecting the environment by assessing current knowledge, identifying research and educational needs, facilitating new research, technology and knowledge transfer and aiding in the on-farm implementation of strategies for managing nutrients.
GOALS-CALS INM

- Improve communication regarding nutrient management within the CALS community.
- Enhance program planning and implementation of various CALS nutrient management research and educational efforts, including integration of knowledge across disciplines.
- Identify gaps in knowledge and critical research important for improving nutrient management on farms.
- Optimize application of research based understanding to farmers and other stakeholders.
Proposed Steps-CALS INM

- Develop a nutrient management working group comprised of CALS faculty and staff that have major responsibilities for nutrient management programming (extension, research, and/or teaching).

- This working group will:
  - Identify key investigators, collaborators within the broader AEM community (such as NYSSWCC, SWCD, CCE, NRCS, DEC, private consultants), farmers, and other stakeholders.
  - Develop a forum (e.g. a website, newsletter and/or seminar/field day series) for information exchange and discussion among CALS faculty, staff and other stakeholders whose research, extension and/or teaching programs relate to nutrient management and those who are impacted by these efforts.
  - Identify program (research, extension and teaching) priorities, potential collaborators and funding opportunities based on feedback from major stakeholders.
  - d. Enhance opportunities for funding through improved coordination of research.
PROGRAMS TO BE LINKED

- Soil Resource and Landscape Characteristics
- Water Quality
- Animal Nutrient Management
- Farm Business Records
- Hydrology and Soil Erosion
- Integrated Crop Management
- GIS and Information Management
- Precision Agriculture
- State and Federal Policy
- Soil Fertility Management

Integrated Nutrient Management Program
NEED FOR INM-PWT

- Computer software for use as standards to implement Cornell Recommendations in developing Comprehensive Nutrient Management Plans on New York State Livestock Farms.
- Improved communication and enhanced program planning and implementation of various CALS nutrient management research and educational efforts within the CALS community and with extension field staff and other stakeholders. Included will be interactions with work groups involved with vegetable crops nutrient management, soil health and integrated crop management.
- Identification of gaps in knowledge and critical research important for improving nutrient management on farms for improved economic and environmental viability, including integration of knowledge across disciplines.
- Optimization of application of research based understanding to farmers and other stakeholders.
- Proper implementation of PWT work to improve the economic and environmental sustainability of New York livestock and field crop producers.
- Protect public and private drinking water.
INM-PWT OBJECTIVES

1. Complete, distribute, support and evaluate on farms the Cornell University Nutrient Management Planning System (cuNMPS) that is designed for use by CCE educators, NRCS and S&WCD planners, and private consultants in developing CNMP for livestock farms in New York State.
INM-PWT OBJECTIVES

2. As the cuNMPS is used in the field, identify gaps in knowledge and design research to improve its usefulness and accuracy.
INM-PWT OBJECTIVES

3. Identify key investigators, collaborators within the broader AEM community (such as NYSSWCC, SWCD, CCE, NRCS, DEC, private consultants), farmers, and other stakeholders.
Collaborators/stakeholders

- SWCD: Elaine Darymple
- CCE: Ed Staehr, Paul Cerosaletti, Dale Dewing
- NRCS: Fred Gaffney, Paul Ray
- DEC: Pat Longabucco
- Farmers: Mike McMahon
- Private sector: Rich Wildman
- Feed Industry?
- Crop Consultants?
INM-PWT OBJECTIVES

4. Develop a forum (e.g. a website, newsletter and/or seminar/field day series) for information exchange and discussion among CALS faculty, staff and other stakeholders whose research, extension and/or teaching programs relate to nutrient management and those who are impacted by these efforts.
5. Identify program (research, extension and teaching) priorities, potential collaborators and funding opportunities based on feedback from major stakeholders.
INM-PWT OBJECTIVES

6. Develop strategies and secure funding for the development of next-generation nutrient management software.
INM-PWT EVALUATION

- Extensiveness of use of the cuNMPS as the standard in developing comprehensive nutrient management plans in New York State.
- On farm evaluations of the cuNMPS.
- Funding obtained to support our PWT in meeting our objectives.
- Feedback from stakeholders regarding usefulness, timeliness, and other issues relating to the PWT's efforts.
1. Complete, distribute, support and evaluate on farms the Cornell University Nutrient Management Planning System (cuNMPS) that is designed for use by CCE educators, NRCS and S&WCD planners, and private consultants in developing CNMP for livestock farms in New York State.

- $cuNMPS$ has been distributed
- Support underway
- Plans for evaluation not in place
INM-PWT progress

2. As the cuNMPS is used in the field, identify gaps in knowledge and design research to improve its usefulness and accuracy.

- Do not have any organized approach for this.
INM-PWT PROGRESS

3. Identify key investigators, collaborators within the broader AEM community (such as NYSSWCC, SWCD, CCE, NRCS, DEC, private consultants), farmers, and other stakeholders.

- Have informally added members to PWT; OTHERWISE NO FORMAL PLAN IN PLACE
INM-PWT PROGRESS

4. Develop a forum (e.g. a website, newsletter and/or seminar/field day series) for information exchange and discussion among CALS faculty, staff and other stakeholders whose research, extension and/or teaching programs relate to nutrient management and those who are impacted by these efforts.

- NO FORMAL PLAN IN PLACE
NEED TO REVIEW NUTRIENT MANAGEMENT PROGRAMS

Soil Resource and Landscape Characteristics
Water Quality
Animal Nutrient Management
Farm Business Records
Hydrology and Soil Erosion
Integrated Crop Management
Integrated Nutrient Management Program
GIS and Information Management
Precision Agriculture
State and Federal Policy
Soil Fertility Management
INM-PWT PROGRESS

5. Identify program (research, extension and teaching) priorities, potential collaborators and funding opportunities based on feedback from major stakeholders.

- **TEACHING: AS 412 REVISION PLANNED**
- **RESEARCH: NEED TO REVIEW WHAT ALL ARE DOING AND THEIR PLANS**
- **EXTENSION: NEED TO REVIEW WHAT ALL ARE DOING AND THEIR PLANS**
INM-PWT PROGRESS

6. Develop strategies and secure funding for the development of next-generation nutrient management software.

- *IFAFS PROPOSAL: NOT SUCCESSFUL*
- *NON-POINT SOURCE ABATEMENT AND CONTROL PROPOSALS*
  - *ELAINE DARYMPLY*
  - *PAUL CEROSALETTI*