2003 PROGRAM WORK TEAM ANNUAL REPORT FORM
(Please complete items 1, 2 and 3)

1. Full name of your Program Work Team (PWT):

   **CALS Integrated Nutrient Management for Dairy and Livestock Farms** (CALS INM PWT)

2. Names, affiliations and e-mail addresses of the PWT Co-Chairs (with an asterisk [*], please indicate the co-chair responsible for finalizing this report):

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CALS Integrated Nutrient Management for Dairy and Livestock Farms (CALS INM PWT)

The CALS INM PWT consists of Cornell faculty and staff, extension educators, consultants and producers. We aim 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. The INM PWT established a website to facilitate information transfer and communication among PWT members and stakeholders (http://www.INMPWT.cce.cornell.edu). The website includes information about upcoming meetings/activities, minutes of past meetings, Powerpoint presentations and handouts, a membership list and a table of links to relevant web sites.

Bi-weekly meetings: The diverse membership of the INM PWT held 15 regular group meetings since the last report. Meeting topics included “Nitrogen Pollution in Coastal Marine Ecosystems”, “Farm cost associated with CAFO compliance”, a trip to the Geneva Agriculture Experiment Station to discuss nutrient management and food safety, an on-farm tour of an environmentally progressive dairy farm, and a video conference series with the University of Wisconsin.

Stakeholder forum - Research, Extension and Teaching Priorities in Nutrient Management: As part of the 2002 Certified Crop Advisors Conference, the INM PWT organized a 3 hour session, “Research, Extension and Teaching Priorities in Nutrient Management”. During this session, over 200 stakeholders worked in small groups led by a PWT member, to enumerate specific research, extension and teaching needs. It became clear that an improvement of delivery of research findings and extension products is needed; often stakeholders were not aware of efforts on-going on campus.

CU-WI Video Conference: Funding from the National Center for Manure and Animal Waste Management, allowed the INM PWT and colleagues at the University of Wisconsin and the USDA ARS Dairy Forage Research Center to collaborate on the evaluation of nutrient management software tools for dairy farms. The collaboration included a biweekly, video-linked, seminar series featuring eight software packages (http://www.dfrc.wisc.edu/powell/seminarSeries.html). Members of the PWT, joined by crop consultants, private software developers, students, visiting researchers and other members of the Cornell community, engaged in lively discussions with Wisconsin counterparts. A joint publication of the tool evaluations will be released in 2004. The discussion formed the basis for two proposals submitted for federal funding in the fall of 2003.

cuNMPS: A subgroup of our PWT continued to develop, distribute, support and evaluate the Cornell University Nutrient Management Planning System (cuNMPS) designed for use by AEM planners for the development of Comprehensive Nutrient Management Plans in New York. The cuNMPS contains the Cornell Net Carbohydrate and Protein System (CNCPS, 333 users) for developing herd rations and Cropware (300 users) for developing crop, soil, and manure nutrient management plans that meet federal and state guidelines and regulations. During 2003, CNCPS 5.0 and Cropware 2.0 were released. Cropware 2.0 includes the NY P index and an updated N Leaching Index developed by PWT members and counterparts in the state. NRCS certification was obtained in September 2003. Training sessions were attended by 80 people. Telephone, email and web support for the cuNMPS are on-going.

Joint teaching activities: The course “Livestock and the Environment” was expanded to give students a more complete background into agronomic components of nutrient management planning. It was renamed “Whole Farm Nutrient Management” and is cross-listed in the Department of Crop and Soil Sciences (CSS) and Animal Science (ANSI). In the spring of 2003, 44 students took the course.

Funding: INM PWT participation has fostered multidisciplinary projects, which successfully obtained funding from many sources including Funds for Rural America, USDA-NRCS, New York State Department of Agriculture and Markets, and the National Center for Waste Management. The latter project is in collaboration with the University of Wisconsin.