FY 2011 PROGRAM WORK TEAM ANNUAL REPORT

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

Integrated Nutrient Management for Dairy and Livestock Operations PWT

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

Quirine Ketterings, Animal Science, Cornell
Larry Chase, Animal Science, Cornell
Dale Dewing, CCE Delaware County

3. Please identify your PWT’s activities, accomplishments, and, most importantly, outcomes and impacts over the past year.

Survey of farmers on perceptions of manure (What’s Cropping Up)
Survey of CAFO planners for P index (talk, paper in the works)
Talk at 3rd international nutrient management conference in Delaware
Talk at SERA17 symposium on P indices at San Antonio (P index),
Talk at Cornell Nutrition Conference (balances),
NEERA webinar (US) on adaptive management
Precision feed management project
Generated funding for whole farm evaluation (NESARE, NRCS)
Mass balances completed and additional funds
Reporting to NYSDEC on Chesapeake Bay Watershed issues
Membership Chesapeake Bay Watershed Ag workgroup
Meetings with Chesapeake Bay Watershed modeling staff
NRCCA training sessions on Chesapeake Bay Watershed model
NRCCA training in feed management standard
NRCS Pilot Feed Management Project
Talks on lower crude protein dairy rations at conferences in New York, Iowa, California, Oregon, Japan
New York Precision Feed Management Team meetings
Participated in NRCS 590 discussions and co-generated review comments that resulted in modifications of the public draft

Papers:

Title: Nitrogen balances for New York State: Implications for manure and fertilizer management
Author(s): Swink S. N.; Ketterings Q. M.; Chase L. E.; Czymmek, K. J.; Van Amburgh, M.E.
Title: Manure Application Technology in Reduced Tillage and Forage Systems: A Review
Author(s): Maguire R. O.; Kleinman P. J. A.; Dell C. J.; Beegle, D. B.; Brandt, R. C.; McGrath, J. M.; Ketterings, Q. M.

Title: Evaluation methods for a combined research and extension program used to address starter phosphorus fertilizer use for corn in New York
Author(s): Ketterings Quirine M.; Czymmek Karl J.; Swink Sheryl N.
Source: CANADIAN JOURNAL OF SOIL SCIENCE Volume: 91 Issue: 3 Special Issue: SI Pages: 467-477. DOI: 10.4141/CJSS10001 Published: JUN 2011

Title: Maintaining milk yield while lowering dietary protein content.
Author: Chase, L.E.

Title: Feeding low crude protein rations to dairy cows – opportunities and challenges.
Authors: Chase, L. E., Higgs, R.J. and Van Amburgh, M. E.

Title: Feeding low crude protein rations to dairy cows – opportunities and challenges.
Author: Chase, L. E.

Title: Ammonia emissions from dairy operations – what do we know?
Author: Chase, L.E.

Title: Feeding lower crude protein rations in dairy herds – challenges and opportunities.
Authors: Chase, L.E., Van Amburgh, M.E. and Higgs, R.J.