



AFFILIATE PROFILE

Neil Woolner
Arborist
Arborwell

Employer: Arborwell

Position: Arborist

Years in the Business: 18

Education: Degree in Horticulture

GCSANC Work or Interests: GCSANC meeting sponsor. Arborwell has been proud to sponsor the 2004 and 2005 Superintendent's Institute

Other Organizations: Royal Horticultural Society, National Trust

Family: Wife and two children, girl 7 and boy 9

Outside Interests: Economic, social and political history of Europe AD 650 - 1945

Favorite Vacation: Hill walking in Glen Coe, Scotland

Favorite Course to Work On: San Francisco Golf Club

Course You'd Like to Visit: Lake Merced Golf Club

Strangest Thing You've Witnessed On The Golf Course: Somebody driving a car over a green

Worst Comment/Question From a Member or Superintendent: Can you top my trees the same height as the clubhouse?

What You'd Be Doing If You Weren't Involved With Arborwell: Plotting trench maps at the Ypres salient

Nitrogen Fate in a Mature Kentucky Bluegrass Turf

Kevin W. Frank, Kevin O'Reilly, Jim Crum,
and Ron Calhoun
Michigan State University

Research was undertaken at Michigan State University to determine nitrogen fate and nitrate-nitrogen leaching from a mature turfgrass. Research from 1998-2002, investigated the amount of nitrate leaching from two nitrogen rates, 2 and 5 lbs. N/1000 ft.²/year. The research found:

- The average total labeled fertilizer nitrogen recovered among all sampling components (clippings, verdure, thatch, soil, roots, and leachate) for the low and high N rates was 78 and 73%, respectively.
- The low nitrogen rate treatment (2 lbs. N/1000 ft.²/year) had low levels of nitrate leaching.
- The high nitrogen rates (5 lbs. N/1000 ft.²/year) had high amounts of nitrate leaching.

The complete report of this research and many other reports can be found at USGA's Turfgrass and Environmental Research Online (<http://usgatero.msu.edu>). The specific URL for this report is <http://usgatero.msu.edu/v05/n02.pdf>.



A research team at Michigan State University led by Dr. Kevin Frank (above) investigated the efficiency of nitrogen use by mature Kentucky bluegrass when fertilized at a low (2 lb./1000 ft.²/year) and a high rate (5 lb./1000 ft.²/year). Results indicate that the high rate of nitrogen fertilization is much more than the turf needs and can result in unacceptable levels of nitrate-nitrogen in leachate.