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Nitrogen News is a summary of recent publications, news and reports related to the cycling, effects and management of nitrogen. Prepared by Mary O'Brien and Jana Compton. Contact Jana Compton with any questions (Compton.jana@epa.gov)

Issue 6, September 2009

News

Planet's nitrogen cycle overturned by 'tiny ammonia eater of the seas'

http://www.eurekalert.org/pub_releases/2009-09/uow-pnc092809.php

EurekAlert!, September 30, 2009

Solar roadmap, algal bloom research bills up for votes

<http://www.eenews.net/EEDaily/2009/09/28/archive/7?terms=nitrogen>

Environment & Energy Daily, September 28, 2009

EPA water chief eyes strict TMDL approach to address nonpoint runoff

http://insideepa.com/secure/docnum.asp?docnum=WATER-18-20-1&f=epa_2001.ask

Water Policy Report, September 28, 2009

House eyes Chesapeake Bay bill to strengthen EPA's Water Act power

http://insideepa.com/secure/docnum.asp?docnum=WATER-18-20-22&f=epa_2001.ask

Water Policy Report, September 28, 2009

Facing workload, EPA eyes dropping landmark joint NO_x-SO_x NAAQS

http://insideepa.com/secure/docnum.asp?docnum=INSIDEEPA-30-38-8&f=epa_2001.ask

Inside EPA, September 25, 2009

Agriculture Department provides \$320 million for Mississippi Basin nutrient runoff control

http://news.bna.com/deln/DELNWB/split_display.adp?fedfid=15127758&vname=dennotallissue&s&wsn=499734000&searchid=9248851&doctypeid=1&type=date&mode=doc&split=0&scm=D&ELNWB&pg=0

BNA Daily Environment Report, September 25, 2009

Current levels of sulfur, nitrogen oxides in air harm environment, EPA report finds

http://news.bna.com/deln/DELNWB/split_display.adp?fedfid=15121106&vname=dennotallissue&s&wsn=499793000&searchid=9248851&doctypeid=1&type=date&mode=doc&split=0&scm=D&ELNWB&pg=0

BNA Daily Environment Report, September 23, 2009

SAB panel calls for new nitrogen NAAQS in face of adverse impacts

http://insideepa.com/secure/docnum.asp?docnum=POLICYALERT-26-19-11&f=epa_2001.ask

Environmental Policy Alert, September 23, 2009

EPA petitioned to limit emissions of methane, other pollutants from CAFOs

http://news.bna.com/deln/DELNWB/split_display.adp?fedfid=15117904&vname=dennotallissue&s&wsn=499827500&searchid=9248851&doctypeid=1&type=date&mode=doc&split=0&scm=D&ELNWB&pg=1

BNA Daily Environment Report, September 22, 2009

Witnesses call for legislation to reduce harmful algae blooms in water, 'dead zones'

http://news.bna.com/deln/DELNWB/split_display.adp?fedfid=15027110&vname=dennotallissue&s&wsn=499898500&searchid=9248851&doctypeid=1&type=date&mode=doc&split=0&scm=D&ELNWB&pg=1

BNA Daily Environment Report, September 18, 2009

EPA Science Advisory Board to complete review of nutrient guidance by December

http://news.bna.com/deln/DELNWB/split_display.adp?fedfid=14991925&vname=dennotallissue&s&wsn=499930000&searchid=9248851&doctypeid=1&type=date&mode=doc&split=0&scm=D&ELNWB&pg=1

BNA Daily Environment Report, September 17, 2009

EPA's Chesapeake Bay plan calls for strict new water quality rules

http://insideepa.com/secure/docnum.asp?docnum=WATER-18-19-8&f=epa_2001.ask

Water Policy Report, September 14, 2009

UNEP chief calls on governments to reduce non-carbon greenhouse gas emissions

http://news.bna.com/deln/DELNWB/split_display.adp?fedfid=14924721&vname=dennotallissue&s&wsn=500598000&searchid=9248851&doctypeid=1&type=date&mode=doc&split=0&scm=D&ELNWB&pg=1

BNA Daily Environment Report, September 8, 2009

Denitrification, its importance once diluted, may be back on top, Princeton-led team says

<http://www.princeton.edu/main/news/archive/S25/19/05M98/>

News at Princeton, September 2, 2009

New EPA water chief cites main challenges as nutrient management, stormwater runoff

http://news.bna.com/deln/DELNWB/split_display.adp?fedfid=14892266&vname=dennotallissue&s&wsn=500976000&searchid=9248851&doctypeid=1&type=date&mode=doc&split=0&scm=D&ELNWB&pg=1

BNA Daily Environment Report, September 2, 2009

Special Issue**Forest Ecology and Management, 258(8), September 25, 2009**

The relative importance of nitrogen deposition and climate change on the sequestration of carbon by forests in Europe.

Edited by W.de Vries

<http://www.sciencedirect.com/science/journal/03781127>

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Herbivory by an invasive snail increases nitrogen fixation in a nitrogen-limited stream
Canadian Journal Of Fisheries And Aquatic Sciences, 66(8): 1309-1317, August 2009. ISSN 0706-652X.

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Effect of winter conditions on spring nutrient concentrations and plankton in a large shallow Lake Peipsi (Estonia/Russia)

Aquatic Ecology, 43(3): 745-753, September 2009. ISSN 1386-2588.

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Effects of exotic invasive trees on nitrogen cycling: a case study in Central Spain
Biological Invasions, 11(8): 1973-1986, October 2009. ISSN 1387-3547.

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Effects of warming and altered precipitation on plant and nutrient dynamics of a New England salt marsh

Ecological Applications, 19(7): 1758-1773, October 2009. ISSN 1051-0761.

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Chen, Xiaoxia, and Charles T. Driscoll.
Watershed land use controls on chemical inputs to Lake Ontario embayments
Journal Of Environmental Quality, 38(5): 2084-2095, September-October 2009. ISSN 0047-2425.

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Global ammonia distribution derived from infrared satellite observations

Nature Geoscience, 2(7): 479-483, July 2009. ISSN 1752-0894.

<http://dx.doi.org/10.1038/ngeo551>

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Geochemical ecosystem engineering by the mud shrimp *Upogebia pugettensis* (Crustacea: Thalassinidae) in Yaquina Bay, Oregon: Density-dependent effects on organic matter remineralization and nutrient cycling

Limnology and Oceanography, 54(6):1911-1932, November 2009. ISSN 0024-3590.

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The contribution of manure and fertilizer nitrogen to atmospheric nitrous oxide since 1860
Nature Geoscience, 2(9): 659-662, September 2009. ISSN 1752-0894.
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Biological Conservation, 142(10): 2191-2201, October 2009. ISSN 0006-3207.
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Nitrification driven by bacteria and not archaea in nitrogen-rich grassland soils
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Human-transported material soils of urbanizing estuarine landscapes

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Populational divergence in the impact of three nitrogenous compounds and their combination on larvae of the frog *Pelophylax perezii* (Seoane, 1885)

Chemosphere, 76(7): 869-877, August 2009. ISSN 0045-6535.
<http://dx.doi.org/10.1016/j.chemosphere.2009.05.017>

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Bottom-up rather than top-down processes regulate the abundance and activity of nitrogen fixing plants in two Connecticut old-field ecosystems

Biogeochemistry, 95(2-3): 309-321, September 2009. ISSN 0168-2563.
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