

Abbreviations

AGREV	Agriculture and Environment Programme for Vittel area
Anammox	Anaerobic ammonium oxidation
BMP	Best management practices
BRIICS	Brazil, Russia, India, Indonesia, China and South Africa
CEAP	Conservation Effects Assessment Project
CMAQ	Community Multi-scale Air Quality (model)
CO₂	Carbon dioxide
DER	Direct environmental regulation
DNRA	Dissimilatory nitrate reduction to ammonium
DON	Dissolved organic nitrogen
ERS	Economic Research Service (United States Department of Agriculture)
EU	European Union
EUR	Euro
GDP	Gross Domestic Product
GEF	Global Environment Fund
GHG	Greenhouse gas
GLO	Ground-level ozone
GMWTP	Greater Miami Watershed Trading Programme
GPNM	Global Partnership on Nutrient Management (UNEP)
GWAVA	Groundwater vulnerability and assessment (model)
GWh	Gigawatt hour
GWP	Global Warming Potential
HNO₃	Nitric acid
IFA	International Fertiliser Association
InMAP	Intervention Model for Air Pollution
INMS	International Nitrogen Management System

IPA	Impact-Pathway Analysis
IPCC	Intergovernmental Panel on Climate Change
KWh	Kilowatt hour
LRTAP	Convention on Long-range Transboundary Air Pollution
N₂	Dinitrogen (the inert form of nitrogen)
N₂O	Nitrous oxide
N₂O₅	Dinitrogen pentoxide
NANI	Net anthropogenic nitrogen inputs
NH₃	Ammonia
NH₄⁺	Ammonium
NH₄NO₃	Ammonium nitrate
NH_x	Reduced forms of nitrogen (includes ammonia and ammonium)
Nitrogen	Reactive forms of nitrogen (excludes N ₂)
Nitrogen cycle	Biogeochemical cycle of nitrogen
NLEAP	Nitrogen Loss and Environmental Assessment Package (model)
NO	Nitric oxide
NO₂	Nitrogen dioxide
NO₂⁻	Nitrite
NO₃⁻	Nitrate
NO_x	Nitrogen oxides (includes nitric oxide and nitrogen dioxide)
NO_y	Oxidised forms of nitrogen (includes nitrogen oxides, nitric acid and dinitrogen pentoxide)
NRCS	Natural Resource Conservation Service (United States Department of Agriculture)
NUE	Nitrogen Use Efficiency
O₃	Ozone
P	Phosphorus
PAN	Peroxyacetylnitrate
PAS	Integrated Approach to Nitrogen (Netherlands)
Pathways	Biogeochemical pathways
PB	Planetary boundaries

PES	Payment for ecosystem services
PFS	Public financial support
PON	Particulate organic nitrogen
PM	Particulate matter
PM_{2.5}	Fine particles (1-2.5 micrometres in diameter)
PM₁₀	Coarse particles (1-10 micrometres in diameter)
PP	Precautionary principle
PRMS	Precipitation-Runoff Modelling System (model)
REAP	Resource Enhancement and Protection Programme
SEK	Swedish krona
SWV-GWMA	Southern Willamette Valley groundwater management area (Oregon, United States)
TFRN	Task Force on Reactive Nitrogen (UN Economic Commission for Europe)
TMDL	Total Maximum Daily Load
TPS	Tradable permit system
UN	United Nations
UNEP	United Nations Environment Programme
USD	United States dollar
VNT	Vintage Nitrogen Trading (New Zealand)
VS	Voluntary scheme
WFD	Water Framework Directive (EU)
WHO	World Health Organisation (UN)
WQSTM	Water Quality and Sediment Transport Model (model)
WTO	World Trade Organisation
WWTP	Wastewater treatment plant



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