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## Overview from an Independent Perspective

# Description of Phosphorus in the Soil

Phosphorus is a plant macro-nutrient that is very immobile in the soil.

The relationship of phosphorus with other nutrients is affected by the soil pH level.

At low soil pH, calcium-phosphate will predominate; at high pH, iron and aluminum-phosphates are more dominant.

#### Benefits of Phosphorus

The benefits of phosphorus to turfgrass growth will include the following —

- Stimulating root growth and development during the seedling stage
- Accelerating turf maturity and establishment
- Improving wear tolerance
- Improving seed formation for reproduction

# Roles of Phosphorus

Phosphorus plays a vital role in use of the energy sources used by the plant.

It is also a key ingredient found in the cel nucleus.

Deoxyribo-Nucleic Acid (DNA) uses phosphorus to transfer inherited characteristics

# Other Roles of Phosphorus in Turfgrass Growth Processes

- Cell division
- Energy transformation
- Releasing energy from the breakdown of carbohydrates
- Transferring those characteristics needed for inheritance

# Sources of Phosphorus Pollutior in Lakes and Rivers

- Agricultural phosphorus fertilizer that is soil injected for corn germination
- Anti-ice compounds, such as de-icing chemicals and road sand
- Excrement from urban pets, such as dogs and cats
- Excrement from waterfowl, such as geese
- Industrial discharges
- Laundry soap and dishwashing machine detergents
- Septic tank systems that are leaking and/or improperly installed
- Soil erosion from freshly-ploughed (tilled) agricultural land
- Soil erosion from urban construction sites
- Tree and shrub leaves that drop in the autumn months
- Waste water originating from urban treatment plants
- Turf phosphorus fertilizers are NOT a major source of phosphorus pollution



The Continuing Conspiracy to Harm the Green Space Industry

Law makes it illegal for stores in New York State to stock lawn fertilizers that contain phosphorus

New York State restricts phosphorus in detergent and lawn fertilizer

August 15th, 2010

Associated Press

Selected and adapted excerpts

In the MISTAKEN BELIEF that water quality will be improved, a New York State law is placing RESTRICTIONS ON LAWN FERTILIZERS.

Moreover, New York makes it illegal for stores to stock fresh supplies of HOUSE-HOLD DISHWASHER DETERGENTS THAT CONTAIN PHOSPHORUS. Stores have 60 days to sell old inventories. Sales for commercial use are to end July 1, 2013.

Starting in 2012, a similar restriction will apply to LAWN FERTILIZERS.

Enviro-Maniac Government Officials have ALLEGED that phosphorus drains into New York lakes and rivers, which turn green with algae, degrading drinking water and reducing oxygen that fish need. [?!?!]

Turf phosphorus fertilizers are NOT a major source of phosphorus pollution.



The Continuing Conspiracy to Harm the Green Space Industry

The New York law lowers permissible levels to 0.67 per cent for lawn fertilizer

More than one-hundred bodies of water in the state are considered impaired, including Cayuga Lake and Lake Champlain.

With similar measures now effective in sixteen other states, including neighbouring Vermont and Pennsylvania, many detergent makers produce LOW-PHOSPHATE formulas.

According to a Department of Environmental Conservation analysis —

<< The impact of phosphorus is particularly significant in lakes and reservoirs. Over half of all the lake acres in the state have water quality impacts for which phosphorus is a contributing cause. >>

As a cleaning agent, DISHWASHER DETERGENTS may contain up to 9 per cent phosphorus by weight, and as a plant nutrient, LAWN FERTILIZER contains up to 3 per cent.

The New York law LOWERS permissible levels to 0.5 per cent for HOUSEHOLD DISHWASHER detergent, and 0.67 per cent for LAWN FERTILIZER.

According to New York State Department of Environmental Conservation Commissioner and Enviro-Maniac Pete Grannis —

<< We're chipping away at sources of pollution. This is one. NI-TROGEN is another. PESTICIDES are a third, and the agency backed legislation enacted earlier this year that will ban the use of pesticides on schoolyards and playing fields. >> The Continuing Conspiracy to Harm the Green Space Industry

Enviro-Maniacs allege that lawn fertilizer accounts for about 50 per cent of phosphorus found in storm run-off [?!?!]

Agriculture, the largest user of phosphorus, was provided with an exception status

The Enviro-Maniac New York State Department of Environmental Conservation says that while dishwasher detergent and lawn fertilizer are only two sources of phosphorus, they are RELATIVELY EASY AND INEXPENSIVE TO CONTROL.

Steps were taken in the early 1970s to eliminate phosphorus from hand soap and laundry detergents, but exempting DISHWASHER DETERGENT, which was not common at the time.

Of the phosphorus found in municipal wastewater, DISHWASHING DETERGENT accounts for 9 per cent to 34 per cent.

Enviro—Maniacs allege that LAWN FERTILIZER can account for about 50 per cent of phosphorus found in storm runoff. [?!?!]

The provision on LAWN FERTILIZERS prohibits applying the compounds between December 1 and April 1, or near surface water.

It contains exceptions for New Lawns, or when a test shows an existing lawn has too little phosphorus. It does not affect fertilizer for agriculture or gardens. Agriculture is the largest user of phosphorus. The provision was modeled after Minnesota's law. Maine, Florida, and Wisconsin also have fertilizer controls.

## Background Information from an Independent Perspective

### Phosphorus Use In Turfgrass Maintenance

According to Doctor Wayne Kussow, Ph.D. —

- « [ ... ] grass clippings contain a remarkably constant ratio of N to  $P_2O_5$  to  $K_2O$ . The ratio is 4:1:3. [ ... ] applying phosphorus whose N: $P_2O_5$  is not close to 4:1 will either result in a build-up or depletion of soil test phosphorus. »
- « [ ... ] it takes about 1 pound  $P_2O_5$  per thousand square feet per year to maintain soil test phosphorus levels when clippings are removed, but only one-half this amount, or 0.5 pound P2O5 per thousand square feet per year, when clippings aren't removed. »
- « As a general rule, when the soil contains two to three more times test phosphorus than is needed by established turfgrass, the chances of seeing a response to starter fertilizer phosphorus are low. »

Urban Run-Off Reduced by Turf, and Phosphorus Fixation

According to Responsible Industry for a Sound Environment (RISE) —

- « Most phosphorus reaches our lakes and streams attached to soil particles in surface runoff. However, numerous university studies have demonstrated that dense turf reduces the
  total amount of run-off and the amount of phosphorus in that run-off. Turf is so effective
  at reducing and filtering run-off that most state university extension programs recommend
  the use of grass buffer strips to protect streams and lakes from agricultural run-off. »
- « The initial reactions that « fix » [ phosphorus ] are generally quite rapid, and may begin within hours of application to the soil. Slower reactions continue over months and even years to further reduce the solubility of [ phosphorus ] [ ... ] »

Responsible Industry for a Sound Environment (RISE) Sues Wisconsin Authorities Over Fertilizer Ban

<sup>«</sup> On December 18<sup>th</sup> [ 2004 ], Responsible Industry for a Sound Environment ( RISE ) and CropLife America filed a lawsuit against the City of Madison and Dane County, Wisconsin, demanding that ordinances banning the display, sale, or use of lawn fertilizers containing phosphorus be overturned. »



Force Of Nature presents THE WHOLE TRUTH FROM AN INDEPENDENT PERSPECTIVE from National Organization Responding Against Huje that seek to harm the Green Space Industry (NORAHG). It is a series of Reports destined for the Green Space Industry, the Environmental Terror Movement, Governments, and the Media, nationwide across Canada, the United States, and overseas. The information presented in Force Of Nature has been developed for the education and entertainment of the reader by providing a sequence of historical events WITH COMMENTARY. The neutrality of these Reports might be disputed.

Huje is a term used to describe Enviro Maniac Activists that routinely concoct FEAR MONGERING, FRAUDU-LENT LIES, MISCONCEPTIONS, COERCION, THREATS, DECEPTIONS, TERROR, and PARANOID CONSPIRA-CIES that are DESIGNED to SCAM and DECEIVE the public into believing that families are in some NON-EXISTENT danger with conventional pest control products. Huje also SCAM and DECEIVE Government Officials into the NEEDLESS, SENSELESS, and MALICIOUS prohibition of FEDERALLY LEGAL, SCIENTIFICALLY SAFE, TOTALLY IRREPLACEABLE, and ABSOLUTELY INDISPENSABLE conventional pest control products.

All information, excerpts, and pictures contained in this Report were found somewhere on the Internet, and may be considered in the public domain, serving one of the following purposes — archive, education, promotion, publicity, or press release. The events, characters, companies, and organizations, depicted in this Report are not always fictitious. Any similarity to actual persons, living or dead, may not be coincidental. Force Of Nature is TOTALLY INDEPENDENT of any trade association or business operating within the Green Space Industry. Don't thank us. It's a public service. And we are glad to do it.

Force Of Nature, and its various incarnations, is the brainchild of William H. Gathercole and his entourage. Mr. Gathercole is a principal FOUNDER of the Modern Professional Lawn Care Industry in BOTH Ontario and Quebec. He holds a degree in Horticulture from the UNIVERSITY OF GUELPH, and another pure and applied science degree from McGILL UNIVERSITY. He has worked in virtually all aspects of the Green Space Industry, including GOLF, PROFESSIONAL LAWN CARE, and CHEMICAL INDUSTRY, and has served in public affairs, workplace safety, and environmental compliance. Mr. Gathercole has supervised, consulted, programmed, and/or overseen the successful and safe execution of HUNDREDS OF THOUSANDS of pest control applications in the urban landscape. He has trained, instructed, and consulted with THOUSANDS of turf managers and technicians. Mr. Gathercole has also been an agricultural agronomist. For many years, Mr. Gathercole was a contributing columnist for TURF & Recreation Magazine, Canada's Turf and Grounds Maintenance Authority. Mr. Gathercole is now retired from Force Of Nature, although his name continues to appear as the FOUNDER. Mr. Gathercole is personally credited for crafting the Golf Industry Exception Status, that endures to this day. He is also the creator of the signs that are now used for posting after application. His vast knowledge of our long journey with Environmental Issues is UNDENIABLE — hopefully! For FIFTEEN YEARS, the strategies designed and implemented by Mr. Gathercole and his colleagues guaranteed the control of Environmental Terror for the entire Modern Green Space Industry across Canada. Mr. Gathercole's involvement in Environmental Issues reached a fevered pitch in the 1990s, when he orchestrated, with his colleagues, legal action against the Forces of Environmental Evil in the Town of Hudson, Quebec. Mr. Gathercole is the ONLY TRUE RELIABLE WITNESS of the Hudson Affair.

Mr. Gathercole and his entourage have followed the evolution of ENVIRONMENTAL TERRORISM for over a quarter century. Through Force Of Nature, Enviro Maniac Activist Huje are identified on the basis of their statements, activities, affiliations, and whereabouts. Even though each Enviro Maniac Culprit is a misguided adversary, each still deserves our respect. The use of the terms Maniac, Culprit, Terrorist, or Basterd are not accusations of any legal wrong doing. Force Of Nature is simply holding Enviro Maniac Activists accountable for conspiring to change public policies that TERRORIZE, HARM, and THREATEN the Green Space Industry. Their pretentious prohibitionist rants have created LOSS OF REVENUES, BUSINESS FAILURES, BANKRUPTCY, and UNEMPLOYMENT, inflicting DESPAIR and DESTITUTION for THOUSANDS of hapless victims throughout the Green Space Industry. The DEPRAVED INDIFFERENCE of Maniac Culprit Terrorist Basterd Huje is viewed as a form of TERROR, HARM, and THREAT against the Green Space Industry.

The following Force Of Nature Reports are currently available — A Look At Alberta Conspiracy British Columbia Conspiracy Canadian Association of Physicians for the Environment Canadian Cancer Society Canadian Environmental Law Association Carnage Consequences Culprit David Suzuki Foundation Dating Services for Enviro Maniacs DDT and Politicized Science Death and the Environmental Terror Movement Enviro Profit Environmental Terrorists Unmasked Famous Quotations Fertilizer Terror Hero June Irwin, the Clown of Junk Science Kazimiera Jean Cottam Landscape Trades Capitulate Lying Sac of Enviro-Maniac Cwap Myth-Busting Needless Hysteria New Brunswick Conspiracy Newfoundland Conspiracy Nova Scotia Conspiracy Organic Fertilizers Paranoid Theories Pesticide Free BC Pets and Lawn Care Chemicals Positive Waves Prince Edward Island Conspiracy Quebec Conspiracy Rachel Carson, the Queen of Junk Science Reining a Terrorist Reaction Salmon Arm BC Conspiracy Satire Terror NEVER Ends Terror Talk The 9/11 Era of the Green Space Industry The Bin Laden of Enviro Terror, Paul Tukey The Failure of Integrated Pest Management The Looming Golf Industry Shipwreck The Industry Strikes Back The Misconceptions About Cancer The National Annihilation of the Modern Green Space Industry The Wisdom of Bill Bell The Wisdom of Drysdale The Wisdom of Health Canada The Wisdom of Hepworth The Wisdom of Holland The Wisdom of Lowes The Wisdom of Mains The Wisdom of Whelan Update Warning

