

CHANGING THE WAY AMERICA MOWS THE LAWN®

Sustainable Lawn Care Practices

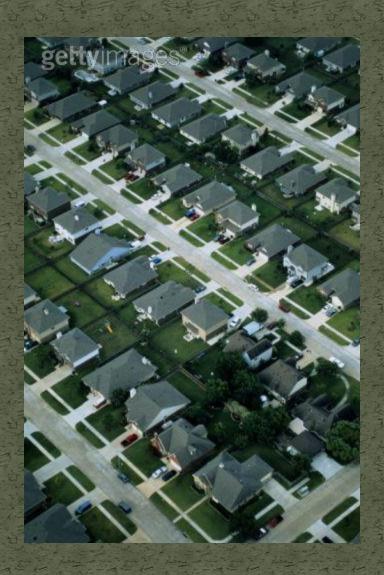


Chris Hogan

"A sustainable landscape is a planned and managed system of green spaces, greenways, recreational lands, parks in combination with natural lands that offer benefits of water conservation, filtration and adsorption, as well as air particle removal and heat relief. Sustainable landscapes also contribute to the health and quality of life to people, communities and entire countries". - Ronald G. Dodson

THE FACTS:

There are 58 million lawns in the United **States**



Over

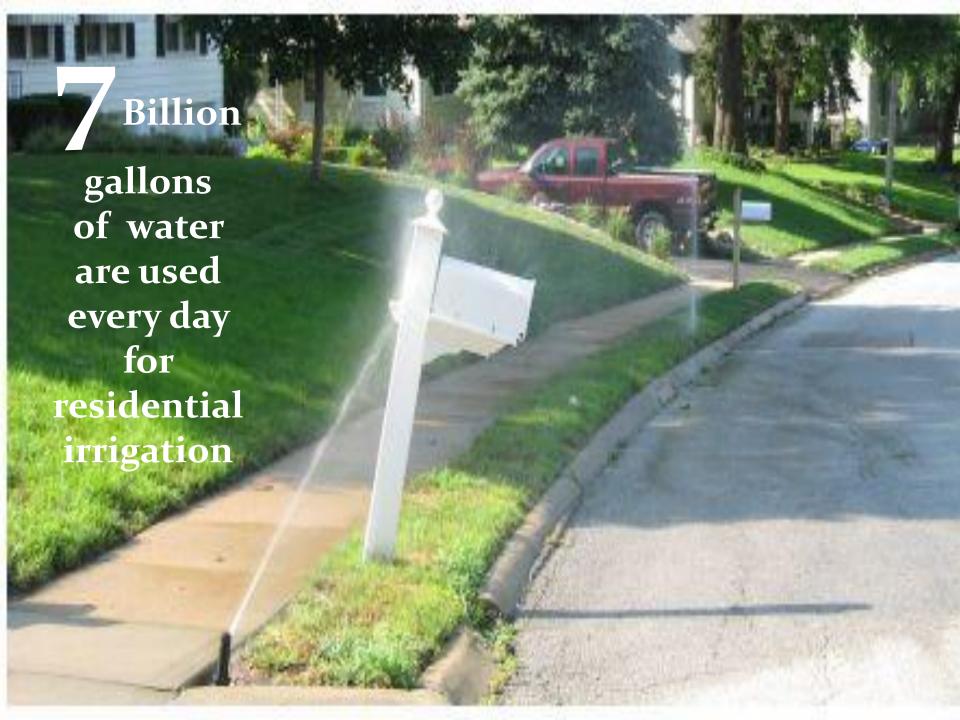
Billion dollars are spent on lawn care each year







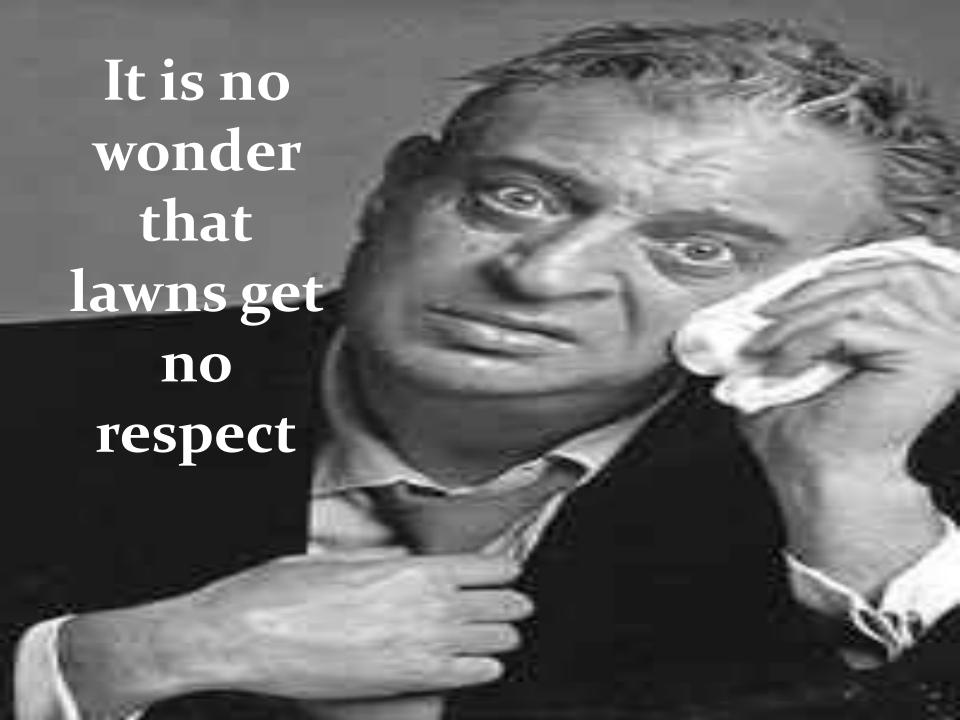
80 million pounds of pesticides are applied



17 Million gallons of gasoline are spilled annually filling lawn mowers















The Benefits of Clean Air Lawn Care's Sustainable Organic Lawns

Lawns are a fantastic play area for children & pets

Lawns help to remove CO2 from the atmosphere

Lawns cool the air and reduce ambient temperature

Lawns remove dust, pollutants and particulate matter from the air and water (up to 12 million tons per year)

Lawns significantly reduce noise pollution in urban areas







Types of Grasses for Your Region

Region 3

Grasses from Region 1 can be grown here if irrigated. Otherwise, wheatgrass and buffalo grass.

Region 1

Kentucky bluegrass, perennial rye, bentgrass, fescue



Region 5

Kentucky bluegrass, perennial rye, bentgrass, fescue.

Region 4

Bermuda and zoysia grass. Kentucky bluegrass can be grown in cooler altitudes.

Region 2

Bermuda, zoysia, centipede grass; St. Augustine grass in certain areas.



A & L WESTERN AGRICULTURAL LABORATORIES

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REPORT NUMBER: 08-325-049 CLIENT NO: 99999

SUBMITTED BY: MILL NASH

SEND TO: CLEAN AIR LAWN CARE

2169 FOLSOM ST #201M SAN FRANCISCO, CA 94110-

GROWER:

Graphical Soil Analysis Report Percent Cation Saturation (computed) DATE OF REPORT: 11/25/08 LAB NO: 51777 SAMPLE ID: MCINN PAGE: Very High High Medium Low Very Low Nitrogen Phosphorus Phosphorus Potassium Sodium Organic Magnesiun Calcium Sulfur Zinc Manganese Boron Chloride Potassium Calcium Sodium Copper Magnesiun NaHCO₃-P SO,-S Zn Min Fe В Na % Analyte Matter NO₃-N Weak Bray Μq Ca Na Cu a Mg % Ca % ppm ppm ppm ppm ppm ppm pom ppm pom ppm ppm 12.5 8 25 188 417 1439 88 11 3.9 27.7 57.9 3.1 Results 19 BASIC AVERAGE HIGH ACIDIC 0.4 12.4 6.5 ECe CEC INCREASING NEED FOR LIME INCREASING SALINITY dShr meg/100g Buffer pH:

Soil Fertility Guidelines

CROP: LAWN RATE: lb/1000 sq ft NOTES:

	Lime (70 score)		Elemental Sulfur	-	Phosphate P ₂ O ₅	Potash K ₂ O	Magnesium Mg	Sulfur SO ₄ -S	Manganese Mn	Iron Fe	Copper Cu	Boron B	
		20		2.2	1.0	3.0							

NITROGEN: The above requirements may need to be adjusted according to local conditions. Follow label

O instructions as controlled-release fertilizers may be applied less frequently.

M THATCH CONTROL is necessary to discourage insect and disease problems, and avoid poor water penetration.

M Light vertical cutting plus topdressings (and liming if low pH) will aid decomposition.

NITROGEN sources include composts and legumes as well as blood meal, cottonseed meal, hoof & horn meal,

N fish meal, or chicken feather meal. Sodium nitrate is not recommended. Monitor brix levels.

T POTASH: Composts may be a significant source of potash. Certain sources of sulfate of potash may also be

\$ used, as well as kelp/seaweed products, wood ash, crushed granite and greensand.

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Mike Buttress, CPAg

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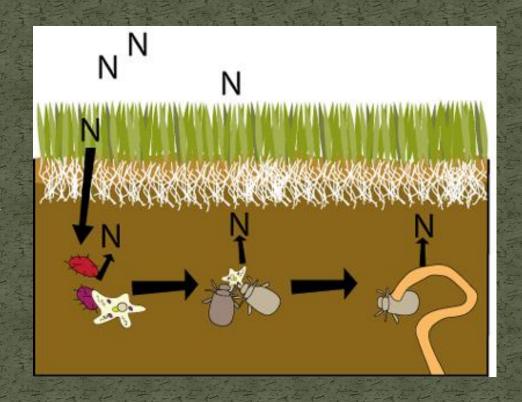






Benefits of Mulch mowing

- Leaving grass clippings on the lawn returns nitrogen and other nutrients back to the soil.
- Conserves landfill space and the energy to haul it there.
- Reduces water pollution by allowing you to use up to 50% less fertilizer









Electric vs. Gas

- •Electric lawn mowers emit 3,300 times less hydrocarbons
- Electric lawn mowers emit 5,000 times less CO2
- •Electric lawn mowers emit one-fifth as much NO2 as gas lawn mowers





Sustainable Lawn Care Practices:

Mow taller: 2 – 3" on rye/fescue, 1 - 1 ½" on bentgrass
Mulch mow
Soil test
Fertilize with organic products (when needed)
Proper irrigation practices
Lawn renovations

Use an IPM approach:

Monitor, use Cultural Controls, Biological Controls, Physical Controls

Organic Fertilizers, Soil Amendments & compost topdressing will add microbial life back into the soil which strengthen the grass and fight disease





9. Eliminate Chemical Fertilizers







GOOD FOR FRUITS — Bigger apples, joiner froits that are free from uneightly worms , all benefits resulting from DDT dusts and sprays, The great expectations held for DDT have been realized. During 1946, exhaustive scientific tests have shown that, when properly used, DDT kills a host of destructive insect pests, and is a benefactor of all humanity.

Pennsalt produces DDT and its products in all standard forms and is now one of the country's largest producers of this amazing insecticide. Today, everyone can enjoy added comfort, health and safety through the insectkilling powers of Pennsalt DDT products... and DDT is only one of Pennsalt's many chemical products which benefit industry, farm and home.



GOOD FOR STEERS—Beef grows meatier nowadays... for it a a scientific fact that compared to untreated eatitle—beef-streets gain up to 50 pounds extra when protected from born flies and many other pests with DDT insertisides.



97 Years' Service to Industry . Farm . Home

She longed for a Star Trek-type doctor with a state-of-the-art diagnostic tool. The doctor, with a few computer bleebs, would locate the exact cause of her newly discovered and doctor-baffling skin lesions and assign a painless treatment with no side effects.



Knex FOR THE HOME—helps 50 to make healthier, more comfortable homes, protects your family from dangerous innect peats. Use Knox-Out DDT Powders and Sprays as directed... then watch the bugs "bite



GOOD FOR ROW CROPS—25 mice horrow of probabos per mice ... actual DDT tests base shown crop increases like this? DDT dinate and uprays help truck farmers pass these gains along to you.



Knex FOR DAIRIES—Up to 20% more off milk... more butter... more cheese, tests prove greater milk production when dairy cows are protected from the annoyance of many insects with DDT insecticides like Knex-Out Stock and Bars Spray.



KONTOR INDUSTRY—Food dries, dry releasing plants, humadries, dry releasing plants, batels...dozens of audustries gain effective long control, more pleasant work conditions with Pennsalt DDT products,

Chemical Fertilizer Facts:

Chemical fertilizers disrupt the nutrient balance in the soil, accelerate turf growth, increase the need for mowing and contribute to thatch buildup.

Synthetic fertilizers create salt buildup in the soil and inhibit the grasses ability to take up water

Because of the extremely high levels of Nitrogen, Phosphorus and Potassium in synthetic fertilizers much of it completely misses the plant and ends up running into groundwater, eventually poisoning our rivers, lakes and streams.





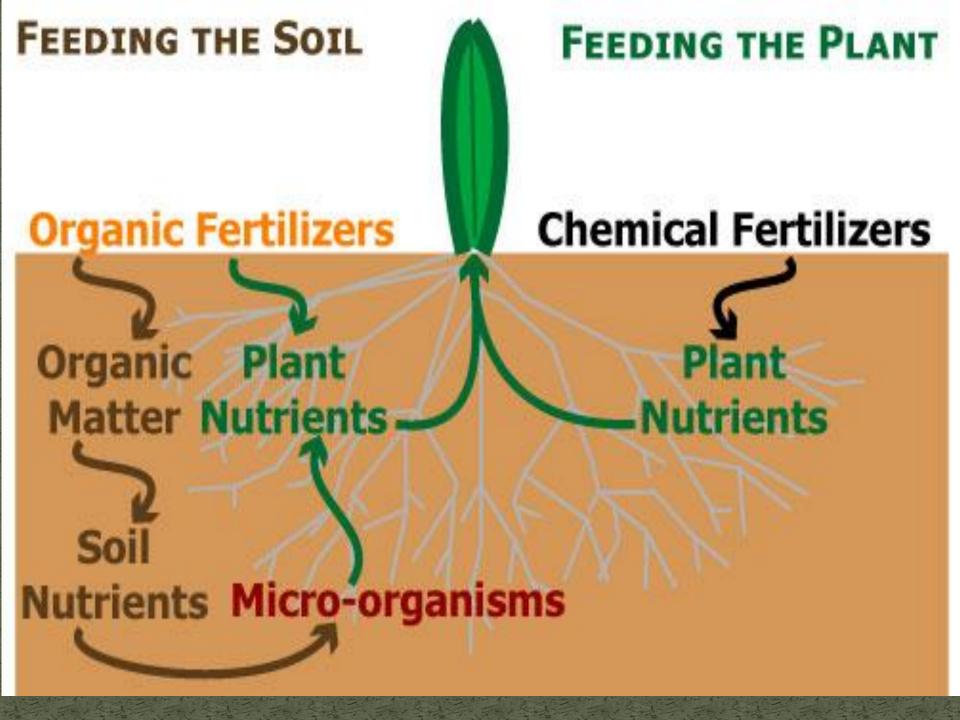
Benefits of Organic Fertilizers

Slow release fertilizers break down slowly into the soil, work with the natural cycle of the grass and release their nutrients gently over time

Encourage deep root development to help reduce watering requirements

Provides natural food for beneficial soil microorganisms

Provide grasses with better drought tolerance saving water, improve disease resistance and provide greater nutrient uptake



Clean Air Lawn Care's goal is to create and maintain beautiful lawns using earth-friendly and family-healthy methods.



Our lawn care treatment programs integrate the use of Organic fertilizers, Organic Pre-emergent weed control, and Micro-Organism Soil Builders.

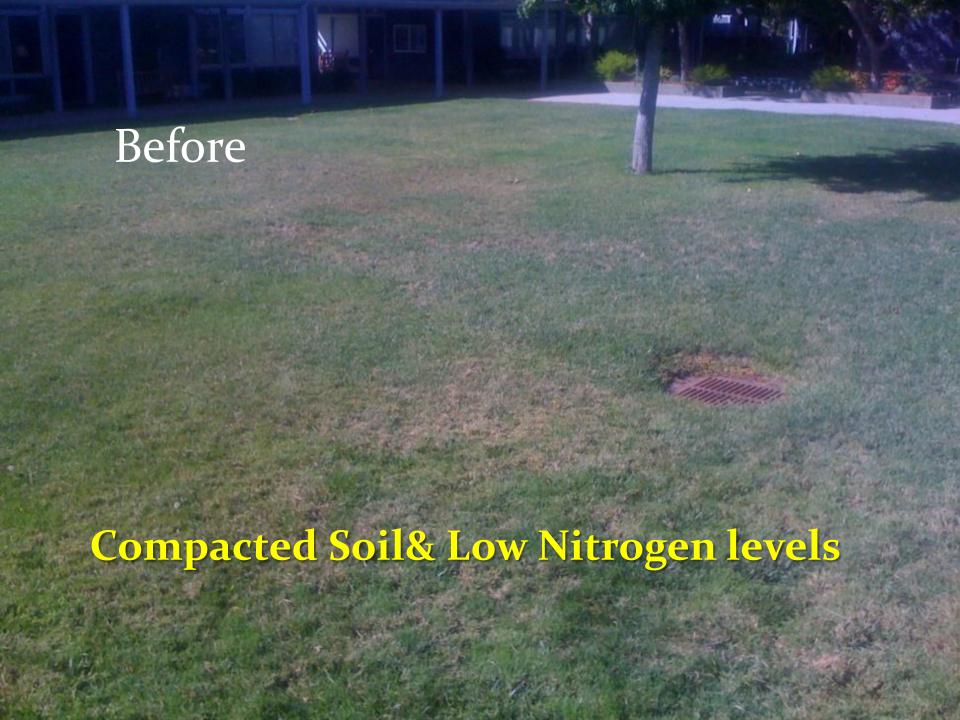
Other chemical competitors use chemical based fertilizers that are harmful to pets, children and our environment.





















2011 Clean Air Lawn Care reduced over 135,237 pounds of air pollution using emission-free equipment



www.cleanairlawncare.com