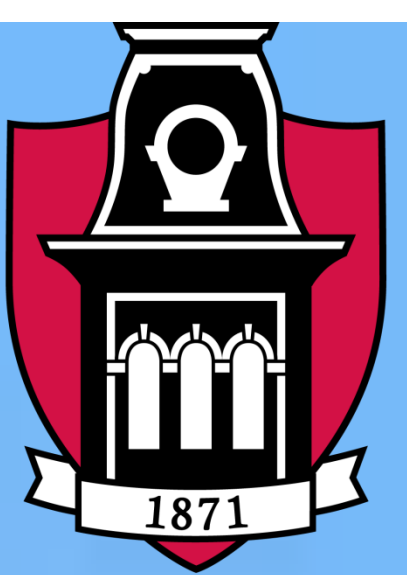


UNIVERSITY OF ARKANSAS

MAINTAINING A SUSTAINABLE YARD

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THE PROBLEM

Every homeowner wants a beautiful green lawn with nice curb appeal. Unfortunately, traditional lawn care methods create pollution, destroy nature and leave a negative impact on the environment.

A healthy, sustainable yard is one where the homeowner takes into account their little strip of Mother Nature has a resounding effect on the future of this plant and all sustainable life, current and future.

Create a better shade of GREEN in your yard.

THE PROJECT

- Research lawn equipment and their energy efficiency
- Compost grass clippings and leaves
- Choose native plants and grasses
- Use an Integrated Pest Management (IPM) approach to pests
- Conserve water
- Get certified by the National Wildlife Federation
- Incorporate and promote wildlife



Lawn Mower Comparison

Model	Year	Gas	Electric	Push	Self-propelled
Greenworks	2015	✗	✓	✗	✗
Greenworks	2015	✗	✓	✓	✗
Greenworks	2015	✗	✓	✗	✓
Greenworks	2015	✗	✓	✓	✓
Greenworks	2015	✗	✓	✗	✗
Greenworks	2015	✗	✓	✓	✗
Greenworks	2015	✗	✓	✗	✓
Greenworks	2015	✗	✓	✓	✓
Greenworks	2015	✗	✓	✗	✗
Greenworks	2015	✗	✓	✓	✗
Greenworks	2015	✗	✓	✗	✓
Greenworks	2015	✗	✓	✓	✓

Lawn Care & Water Usage

Up to 60% of urban water is used on lawns. A typical lawn requires 1.5 inches of water per day.

Lawn Mower Mileage

Mowing one lawn for 1 hour creates more pollution than driving a car from Baltimore to Washington DC (40 miles).

Drip Irrigation Versus Flood or Sprinkler Irrigation

Fig. 2. Drip irrigation, with the high frequency slow release watering, results in much more efficient water use than flood or sprinkler irrigation. It is also much more adaptable to the use of automated watering systems.

Native plants often support 10 to 50 times as many species of native wildlife as nonnative plants. - CNPS

Gas Quicker: Lawn Mower Fuel Use in America

100 gallons of gasoline can power a lawnmower for 10 hours. That's 100 hours of mowing. That's 100 hours of mowing. That's 100 hours of mowing.

Wildlife Habitat

Earth Day April

Integrated Pest Management

Plant Local

Save Our Native Plants

Sustainable Lawn Quick Comparison

Grass Type	Annual Seed	Water	Fertilizer	Pesticide	Plant	Comments
Buffalo Grass (to 10)	15-20	Low	Low	Low	✓	Low maintenance, drought tolerant.
Blue Gramma Grass (to 10)	15-20	Low	Low	Low	✓	Low maintenance, drought tolerant.
Wheatgrass (to 10)	15-20	Low	Low	Low	✓	Low maintenance, drought tolerant.
Yarrowgrass (to 10)	15-20	Low	Low	Low	✓	Low maintenance, drought tolerant.
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SUSTAINABILITY

- ❖ Social Systems relate sustainability between humans and their environment. By changing social behavior of ourselves as caretakers of the earth, discipline is directed to being earth-friendly.
- ❖ Natural systems include material transfers and environmental changes within the landscapes and waterways. Lawn maintenance directly affects the earth's system via air quality, land changes, and water conservation.
- ❖ Built Systems are the sustainable design grounds within an infrastructure and natural resources. By installing a greenhouse, bee hive, or compost bin, this system is integrated into a sustainable lawn project.
- ❖ Managed Systems address agricultural production. Gardening and growing plants and food are a vital part of a sustainable yard.

Summer after summer I have witnessed the lack of attention that is given to lawn care in respect to sustainability. Every homeowner, lawn crew, and business can reduce their carbon footprint while achieving an attractive, environmental friendly lawn.

