

Electric Lawn Mower Fact Sheet

Introduction

Electric tools have many advantages over gas-powered tools: they are quieter and more energy efficient, plus they have no exhaust and less vibration-- making them nicer to use. These tools have been improved recently, with increased capacity for use in the field and lower costs. This fact sheet highlights key differences between electric and gas-powered lawn mowers to help guide informed decisions about selecting the best tool for the job.

Mower Comparisons - Use Estimate: 30 hours/week for 20 weeks/year



54" Zero-Turn Gas Mower



Estimated Purchase Price: \$15,000



700 gallons of gas used annually
Operating Cost: **\$2,100/year (\$3/gal.)**



Gasoline Capacity: 11.5 gal fuel tank



Area mowed per tank of fuel: ~14 acres



Total Runtime : 8 hrs.



CO2 emissions per acre: 14lbs

7 tons of CO2e annually



54" Zero-Turn Electric Mower



Estimated Purchase Price: \$28,000



2,400 kWh of electricity used annually
Operating Cost: **\$290/year (\$0.12/kWh)**



Battery Capacity: 16 kWh Li Ion battery



Area mowed with 1 charge: 16 acres



Charge time : ~3 hrs.



CO2 emissions per acre: 1lb

1 ton of CO2e annually

Electric Leaf Blower Fact Sheet


Introduction


Electric tools have many advantages over gas-powered tools: they are quieter and more energy efficient, plus they have no exhaust and less vibration-- making them nicer to use. These tools have been improved recently, with increased capacity for use in the field and lower costs. This fact sheet highlights key differences between electric and gas-powered leaf blowers to help guide informed decisions about selecting the best tool for the job.


Leaf Blower Comparisons - Use Estimate: 200 hours/year





Gas


 Average Purchase Price: \$250 - \$300

 81 gallons of gas used annually
Operating Cost: **\$240/year (\$3/gal.)**

 Gas capacity: 0.27 gal fuel tank


 Area covered per tank of fuel: ~14 acres

 Runtime : 1.5-3 hrs., 40 mins on high


 CO2 emissions per acre: 5 lbs


 **0.79 tons of CO2 annually**


Electric

 Average Purchase Price: \$200 - \$330

 160 kWh of electricity used annually
Operating Cost: **\$19/year (\$0.12/kWh)**

 Capacity: 80V - 5 Ah battery

 Area covered per charge: 16 acres

 Runtime : 70-90 mins., 25 mins. on high

 CO2 emissions per acre: 1lb

 **0.08 tons of CO2 annually**

Electric String Trimmer Fact Sheet






Introduction

Electric tools have many advantages over gas-powered tools: they are quieter and more energy efficient, plus they have no exhaust and less vibration-- making them nicer to use. These tools have been improved recently, with increased capacity for use in the field and lower costs. This fact sheet highlights key differences between electric and gas-powered string trimmers to help guide informed decisions about selecting the best tool for the job.






String Trimmer Comparisons



Gas

-  Average Purchase Price: \$300 - \$330
-  Capacity: 0.18 gal fuel tank
-  Average area trimmed/tank: 0.1 acres
-  Runtime: 1 hr.
-  **CO2 emissions/acre: 33lbs**

Electric

-  Average Purchase Price: \$200 - \$250
-  Capacity: 56V - 5 Ah battery
-  Area trimmed per charge: 16 acres
-  Runtime: 70 mins., 20 mins. on high
-  **CO2 emissions/acre: 4lbs**

Electric Chainsaw Fact Sheet

Introduction

Electric tools have many advantages over gas-powered tools: they are quieter and more energy efficient, plus they have no exhaust and less vibration-- making them nicer to use. These tools have been improved recently, with increased capacity for use in the field and lower costs. This fact sheet highlights key differences between electric and gas-powered chainsaws to help guide informed decisions about selecting the best tool for the job.

Chainsaw Comparisons - Use Estimate: 2 chainsaws used for 4.5 hrs/week for 6 mo.



Gas



Average Purchase Price: \$400



27 gallons of gas used/year
Operating Cost: **\$80/year (\$3/gal.)**



Tank Capacity: 0.125 gal



Runtime : 1 hr./tank



CO2 emissions per hour: 2 lbs



0.24 tons of CO2 annually

Electric



Average Purchase Price: \$400



65 kWh of electricity used annually
Operating Cost: **\$8/year (\$0.12/kWh)**



Capacity: 56V - 5 Ah battery



Runtime : 70 mins., 25 mins. on high



CO2 emissions per hour: 0.04 lbs



0.05 tons of CO2 annually