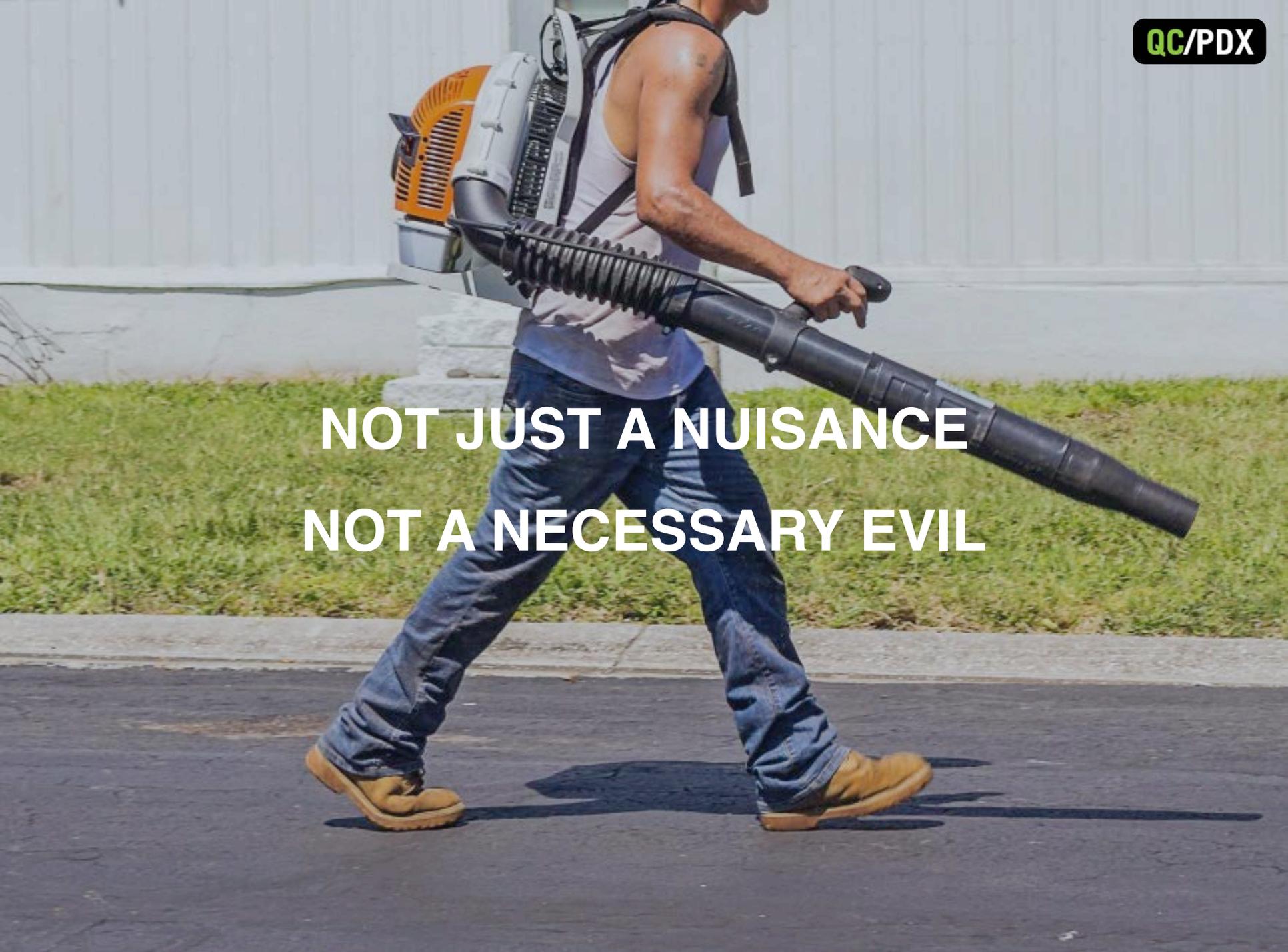




Quiet Clean PDX

Working to eliminate gas powered leaf blowers

A person is walking on a paved surface, carrying a backpack blower. The blower is orange and white, with a long black nozzle attached. The person is wearing a white tank top, blue jeans, and brown work boots. The background shows a grassy area and a white building.

**NOT JUST A NUISANCE
NOT A NECESSARY EVIL**

GAS POWERED LEAF BLOWERS ARE HAZARDOUS

Extreme Noise

Toxic Emissions

Environmental Hazards

EXTREME NOISE

“Being around too much loud noise—like using a leaf blower or going to loud concerts—can cause permanent hearing loss.”

Centers for Disease Control and Prevention

“environmental noise is associated with an increased incidence of arterial hypertension, myocardial infarction, and stroke.”

European Heart Journal

“enduring exposure to noise in early childhood affects the development of basic language functions”

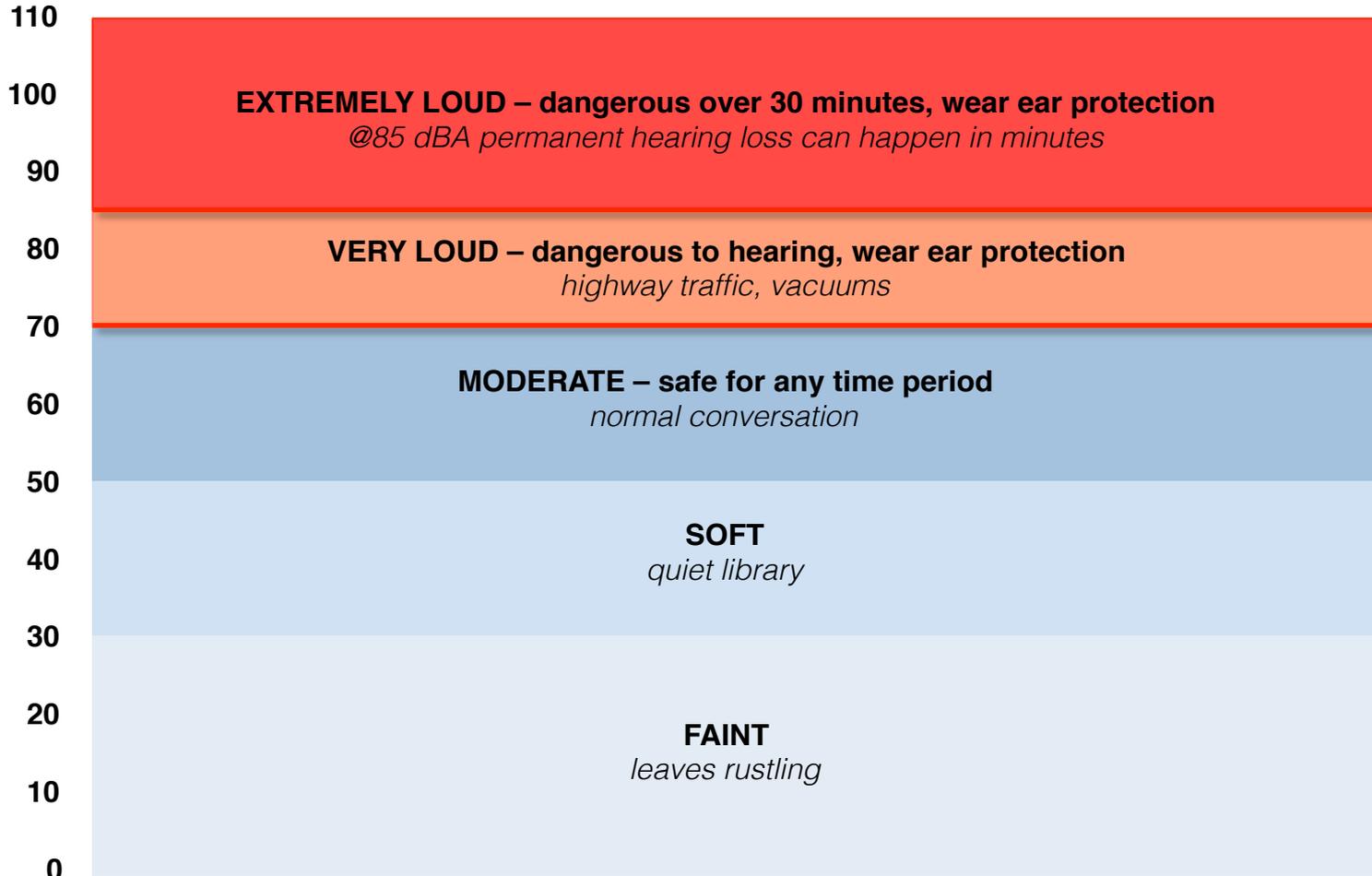
Center for Cognitive Science

“Loud noise can create physical and psychological stress, reduce productivity, interfere with communication and concentration”

Occupational Safety and Health Administration

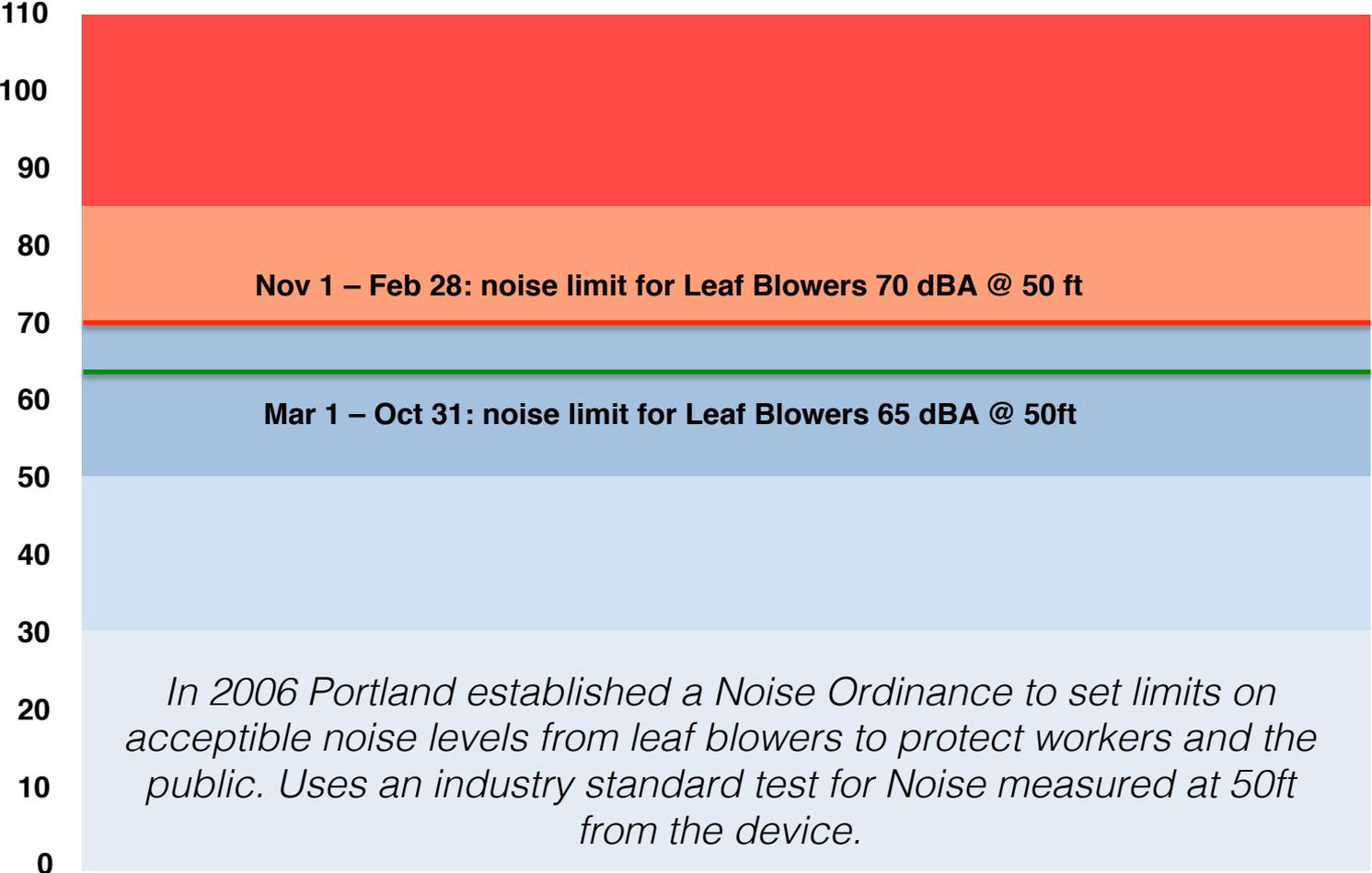
NOISE LEVELS AND SAFETY

NOISE LEVEL dBA – Percieved as a doubling of “loudness” every 10DBA

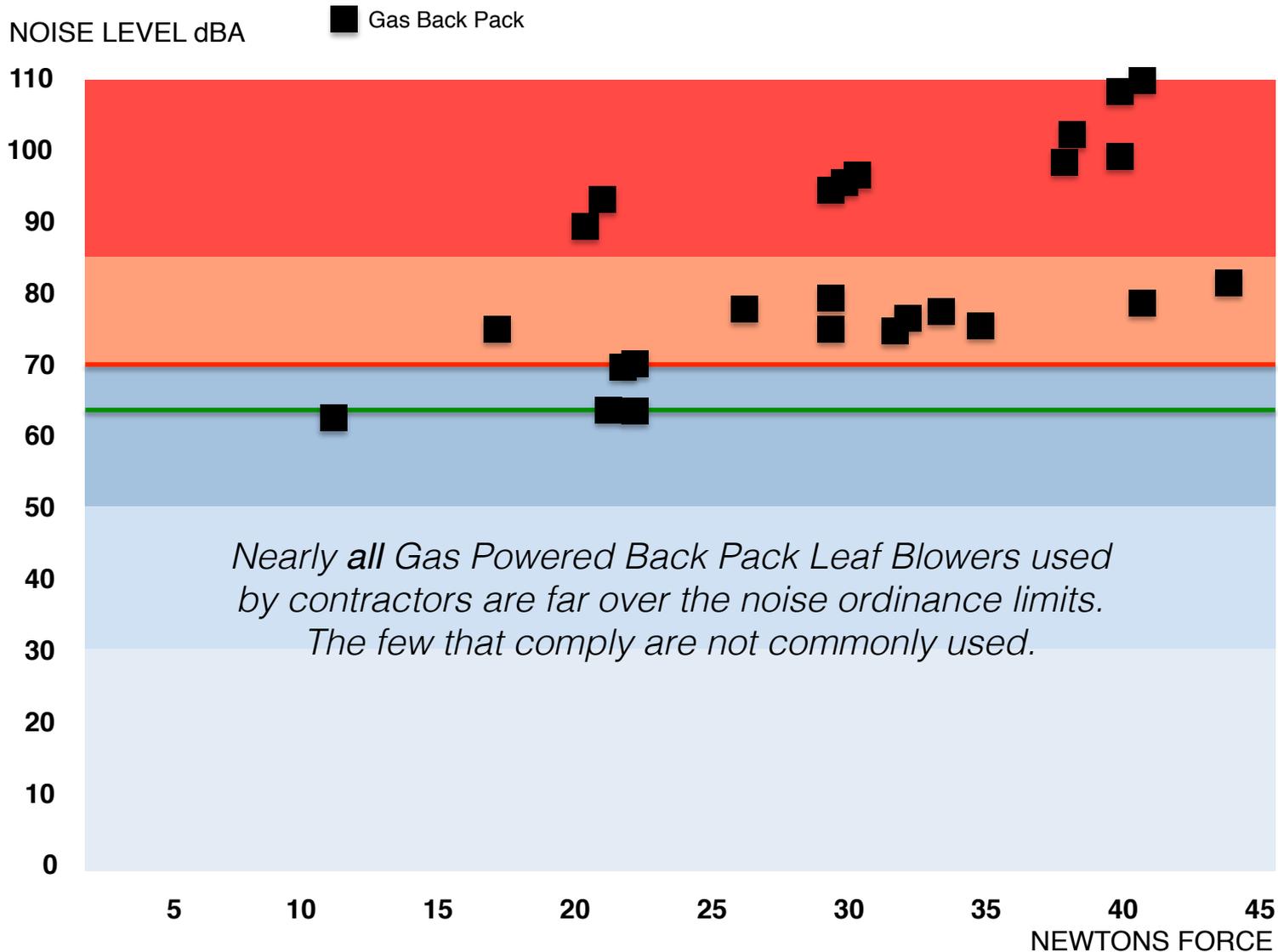


PORTLAND NOISE ORDINANCE 18.10.035 - LEAF BLOWERS

NOISE LEVEL dBA



BACK PACK LEAF BLOWERS – NOISE vs FORCE



From: Manufacturers website data on force and certified noise ratings as per ANSI B175.2-2000
Echo, Stihl, Husqvarna, Makita, EGO, Oregon

TOXIC EMISSIONS

1 HOUR
Blowing

=

1,100
Car Miles



TOXIC EMISSIONS

“Lawn and garden equipment like mowers and leaf blowers produces over 80,000 pounds of smog-forming pollutants on a summer day in the Portland-Vancouver region”

Oregon Department of Environmental Quality

EMISSIONS – MORE AIR POLLUTION THAN CARS



Gas Powered Leaf Blower



Ford F-150 Raptor

Non Methane Hydrocarbons	1.495 g/min
Oxides of Nitrogen	0.010 g/min
Carbon Monoxide	6.445 g/min

0.005 g/min	<i>300X more</i>
0.005 g/min	<i>2X more</i>
0.276 g/min	<i>23X more</i>

TOXIC EMISSIONS AND HEALTH HAZARDS



Gas Powered Leaf Blower

Non Methane Hydrocarbons	Yes	<i>Health risk and smog forming pollutants. CA estimates small engines will be #1 producer of these emissions by early 2020's</i>
Oxides of Nitrogen	Yes	
Carbon Monoxide	Yes	
Benzene	Yes	<i>Known by EPA and Health organizations to increase risk of cancer, respiratory, cardiovascular and neurological disease</i>
Butadyene	Yes	
Formaldehyde	Yes	
Fine Particulates	Yes	

HEALTH HAZARDS

“high levels of VOCs and fine particulate matter from Gasoline Powered Lawn and Garden Equipment are health risks for workers and the public”

US Environmental Protection Agency

“elevated risk for cardiovascular events associated with exposure to fine particulate matter ”

American Heart Association

“Benzene is known to cause cancer”

American Cancer Society

“ozone at those lower levels was associated with deaths from cardiovascular disease, strokes, and respiratory causes.”

American Lung Association

“A small increase in long-term exposure to PM2.5 leads to a large increase in the COVID-19 death rate.”

Harvard School of Public Health

ENVIRONMENTAL HAZARDS

Lawn and Garden Equipment in the US:

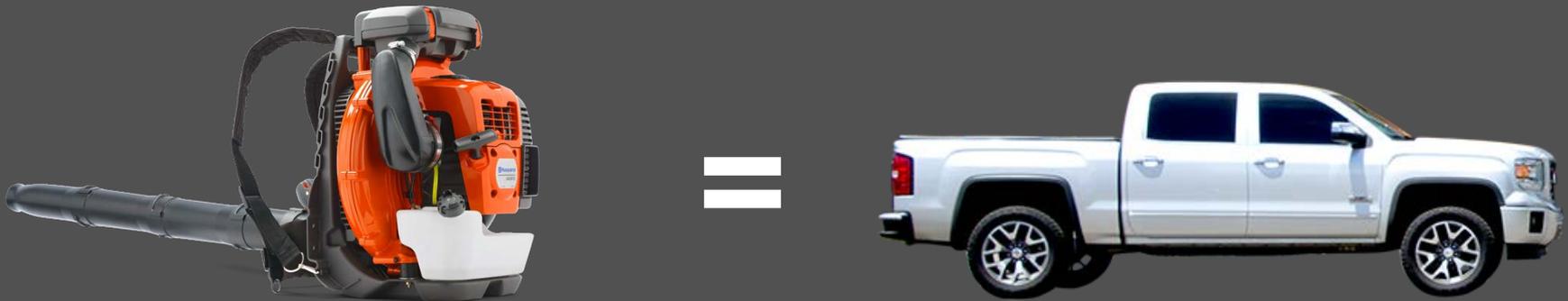
1.2 Billion Gallons of Gasoline per year

Millions of pounds of toxic waste to landfill:

- Air Filters
- Fuel Filters
- Oil Cans
- Oil and Gas Spills

CARBON EMISSIONS

A Gas Powered Leaf Blower used for a few hours each day produces as much CO₂e as an automobile



ALTERNATIVE SOLUTIONS

Excellent alternatives to gas powered leaf blowers are readily available to all of us

Manual Tools

Leave the leaves

improves soil health
essential for pollinators and insect survival





Battery Powered Leaf Blowers

Zero Air Pollution, Zero Toxic Solid Waste, Zero Fuel Spills

*Zero Carbon Emissions**

Zero maintenance

As powerful as any compliant gas blower

Far quieter than gas blowers

Far cheaper to operate

Available at any garden equipment retailer

* When charged with Renewable Energy which is available to everyone in Portland through PGE and Pacific Power Green Energy Plans

Ask your contractor to switch to battery powered tools or hire a gas free yard service

Its your yard, your air, your family's health



Our yards are part of our homes and deserve good care. It is entirely possible to maintain a healthy beautiful yard without the noise and toxic emissions from gas powered leaf blowers or other gas powered equipment. Avoiding those dangerous tools will improve our air quality and minimize disruptive noise – benefits that you and your neighbors will appreciate. Quiet, clean yard care will make your neighborhood a more pleasant place to live and protect the health of equipment operators and bystanders.

For those of us who maintain our own yards, we can choose quiet, gas-free yard care equipment like rakes and brooms or electric tools. For those of us who have others care for our yards, we can ask them not to use gas powered leaf blowers, mowers and trimmers. If your provider is not interested in providing this service, you can get the beautiful yard that you want and a quieter, healthier neighborhood by contracting from the below providers. We have listed the services that these contractors offer, but be sure to specify the methods of care you prefer.

Contractor Name and Link	Area of Service	Phone	No Blow Service Offered	Electric Blower	Gas-Free Tools Only	Hand Tools Only Offered	Organic Fertilizer	Chemical Free
Clean Air Lawn Care	Portland Eastside	503 679 7418	No	Yes	Yes	No	Yes	Yes
Good Green Neighbors	Inner SE Portland	503 453 6057	No	Yes	Yes	No	Yes	Yes
Eco Lawn Care	NE Portland	971 297 0177	Yes	No	Yes	Yes	Yes	Yes
Cascadian Ecoscapes	Inner East, Inner West Portland	503 303 2270	Yes	Yes	Yes	Yes	Yes	Yes
Flora Organic Landscape	N,NE, SE Portland, Milwaukee	503 941 0273	Yes	Yes	No	No	Yes	Yes
Landscape East West	Portland, NE, Portland Heights, LO	503 406 6936	Yes	Yes	Yes	No	Yes	Yes
Clean Air Lawn Care	Beaverton, SW Portland, West Slope, Garden Home	503 345 7577	No	Yes	Yes	No	Yes	Yes
Bernardo Antano	Portland, Vancouver, Beaverton, Lake Oswego	503 833 2914	Yes	Yes	Yes	Yes	Yes	Yes
Neighborhood Gardeners SW	SW Portland	503 310 5975	Yes	Yes	Yes	Yes	Yes	Yes
Gala Gardens	NW Portland, West Hills	503 347 4717	Yes	Yes	Yes	Yes	Yes	Yes
Oswego Yard	Lake Oswego, West Linn	503 849 0096	Yes	Yes	Yes	Yes	Yes	Yes
Mow and Blow PDX	Portland	503 347 4604	Yes	Yes	Yes	Yes	Yes	Yes
Portland Earth Care	Portland	503 754 0479	Yes	No	Yes	Yes	Yes	Yes
Dennis' 7 Dees	Portland, LO, Tigard, Vancouver	503 777 7777	Yes	Yes	No	No	Yes	Yes
Handmade Gardens	Portland	503 849 9466	Yes	No	Yes	Yes	Yes	Yes

Portland plans to get rid of city's gas-powered leaf blowers starting in 2021

Updated Dec 05, 2019; Posted Dec 05, 2019



The city of Portland plans to phase out its gas-powered leaf blowers in favor of electric- and battery-powered ones beginning in 2021. (The Oregonian/File) LC-

Portland City Council Resolution

- All City bureaus will transition to electric and battery blowers by Jan 1, 2021
- Working group will be established to explore regulations for the community
 - Multnomah County looking to pass a similar resolution this summer



Gas Powered Leaf Blowers are Dangerous

Leave the leaves...

Switch to battery power...

Talk to your contractor...

Hire a gas free service...

Thank You!

quietcleanpdx.org