

Neonicotinoids

Neonicotinoids are a relatively new class of insecticides that share a common mode of action that affect the central nervous system of insects, resulting in paralysis and death. They include *imidacloprid, acetamiprid, clothianidin, dinotefuran, nithiazine, thiacloprid and thiamethoxam*. According to the EPA, uncertainties have been identified since their initial registration regarding the potential environmental fate and effects of neonicotinoid pesticides, particularly as they relate to pollinators. Studies conducted in the late 1990s suggest that neonicotinic residues can accumulate in pollen and nectar of treated plants and represent a potential risk to pollinators.

There is major concern that neonicotinic pesticides may play a role in recent pollinator declines. Neonicotinoids can also be persistent in the environment, and when used as seed treatments, translocate to residues in pollen and nectar of treated plants. The potential for these residues to affect bees and other pollinators remain uncertain. Despite these uncertainties, neonicotinoids are beginning to dominate the market place, putting pollinators at risk.

The City of Austin Parks and Recreation Department uses pesticides primarily for:

Weed control 46%

Turf diseases 27%

Insect control in Turf 12%

Ant control 12%

Grass growth regulators 2%

Tree, shrub, brush control 1%

After reviewing the inventory of pesticides used by the Parks and Recreation Department, only one is considered a neonicotinoid pesticide. The Golf Division has used Imidicloprid on the greens only to control cutworms. The product is being pulled from inventory and will be exchanged for a non-neonicotinoid product.

Parks and Recreation Department 2015 Pesticide use list

Date	Pest Treated	Product Name
	GROUNDS MAINTENANCE	
2015	Ant Control	Amdro Ant Block Perimeter Ant Bait
2015	Ant Control	Amdro Kills Fire Ants
2015	Ant Control	Ascend
2015	Ant Control	DeltaGard
2015	Ant Control	Diatomaceous Earth
2015	Ant control	Talstar
2015	Ant control	Talstar PL Insecticide
2015	Ant control	Talstar(Liquid)/1oz per gallon
2015	Ant Control	Ortho Max Fire Ant Killer
2015	Weed control	Quickpro Roundup/1.5 oz per gallon
2015	Weed control	Round Up
2015	Weed control	Sedgehammer
2015	Tree, shrub, brush control	Remedy
	ATHLETICS	
2015	Ant Control	Taurus G
2015	Ant Control	Quali-Pro Fipronil 0.0143G Broadcast
2015	Weed control	Ranger Pro
	GOLF	
2015	Ant Control	Bifen I/T
2015	Ant Control	Chlorpyrifos E-Pro 2
2015	Ant Control	Extinguish Fire Ant Bait
2015	Ant Control	Sevin
2015	Worms/Grubs	Battle
2015	Worms/Grubs	Bifen L/P Granular
2015	Worms/Grubs	Bifenthrin
2015	Worms/Grubs	Up-Star SC
2015	Worms/Grubs	Imidicloprid
2015	Worms/Grubs	Scimitar
2015	Grass Growth Regulator	Embark
2015	Grass Growth Regulator	Primo Maxx Turf Growth Vegetation
2015	Grass Growth Regulator	Provair PGR
2015	Insect Control in Turf	Acephate
2015	Insect Control in Turf	Ardent o.15 EC
2015	Insect Control in Turf	Avid o.15 EC
2015	Insect Control in Turf	Chlorpyrifos
2015	Insect Control in Turf	Chlorpyrifos 4E
2015	Insect Control in Turf	Chlorpyrifos E Pro 2
2015	Insect Control in Turf	Neo Tec SG
2015	Insect Control in Turf	Nortica

2015	Insect Control in Turf	Top Choice
2015	Turf Diseases	3336 Plus
2015	Turf Diseases	4.5 Flowable
2015	Turf Diseases	Alamo
2015	Turf Diseases	Bayleton
2015	Turf Diseases	Bayleton Flo
2015	Turf Diseases	Chlorothalonil
2015	Turf Diseases	Chlorpyrifos
2015	Turf Diseases	Civitas
2015	Turf Diseases	Consan
2015	Turf Diseases	Dac Weather Stic
2015	Turf Diseases	Daconil
2015	Turf Diseases	Docket WD
2015	Turf Diseases	Echo
2015	Turf Diseases	Emblem
2015	Turf Diseases	Fore
2015	Turf Diseases	Heritage
2015	Turf Diseases	Honor
2015	Turf Diseases	Insignia
2015	Turf Diseases	Mancozeb DG
2015	Turf Diseases	Manicore
2015	Turf Diseases	Mavrix
2015	Turf Diseases	Mefenoxam
2015	Turf Diseases	Mefenoxam 2 AQ
2015	Turf Diseases	Pro Star
2015	Turf Diseases	Pron Tech Granular
2015	Turf Diseases	Propiconzole 14.3
2015	Turf Diseases	Rubigan
2015	Turf Diseases	Scotts Lawn & Fungis Control
2015	Turf Diseases	Secure
2015	Turf Diseases	Segway
2015	Turf Diseases	T Methyl 4.5
2015	Turf Diseases	Tartan
2015	Turf Diseases	Transom 4.5
2015	Weed control	15-5-10 1% Oxidiazon
2015	Weed control	Absolute 65 WG
2015	Weed control	Anderson Goosegrass & Crabgrass Control
2015	Weed control	Basagran T & O
2015	Weed control	Battleship
2015	Weed control	Battleship III
2015	Weed control	Blue Alert SS
2015	Weed control	Buccaneer Plus
2015	Weed control	Buctril 4EC
2015	Weed control	Certainty
2015	Weed control	Certainty Turf
2015	Weed control	Cide-kick 2

2015	Weed control	Drexel Pin-Dee 3.3 T & O
2015	Weed control	Drive
2015	Weed control	Dyne-amic
2015	Weed control	Eximo
2015	Weed control	Freehand
2015	Weed control	Fusilade II
2015	Weed control	Gallery
2015	Weed control	Glyphosate
2015	Weed control	Glyphosate Plus
2015	Weed control	Illoxan
2015	Weed control	Illoxan 3EC
2015	Weed control	Katana
2015	Weed control	Kerb Sct
2015	Weed control	Knock out
2015	Weed control	Monument
2015	Weed control	MSM 60DF
2015	Weed control	MSMA
2015	Weed control	Neo Tec 5.0
2015	Weed control	Oxadiazon
2015	Weed control	Oxidiazon
2015	Weed control	Pendolum 3.3 EC
2015	Weed control	Pendulum
2015	Weed control	Princep
2015	Weed control	Prodiamine 4L
2015	Weed control	Prodiamine Pre Emerge
2015	Weed control	Prontec
2015	Weed control	Prozalin 4L
2015	Weed control	Ranger Pro
2015	Weed control	Remedy Ultra
2015	Weed control	Resolute Pre Emerge
2015	Weed control	Revolver
2015	Weed control	Ronstar Pre Emerge
2015	Weed control	Round Up
2015	Weed control	Scythe
2015	Weed control	Snapshot 2.5 TG
2015	Weed control	Specticle
2015	Weed control	Spectracide Bug Stop
2015	Weed control	Spectracide Triazicide
2015	Weed control	Surflan
2015	Weed control	Target +6
2015	Weed control	Trimec Southern
2015	Weed control	Weed Hoe 108