

Pesticide exposure data of Maine residents

Pesticides are known toxicants purposely released into the environment and into human habitats. Only with careful use can human and pet injuries and environmental contamination be avoided. This report summarizes data from two sources to better understand what types of exposures might be occurring in Maine and the outcomes of those exposures. The Northern New England Poison Center (NNEPC) and the National Pesticide Information Center (NPIC) both maintain free platforms where anyone can call in for advice related to pesticides. The calls to these groups range from general questions to triage for life-threatening injuries. These data are important to understand as the BPC plans how to better serve the applicators and residents of Maine.

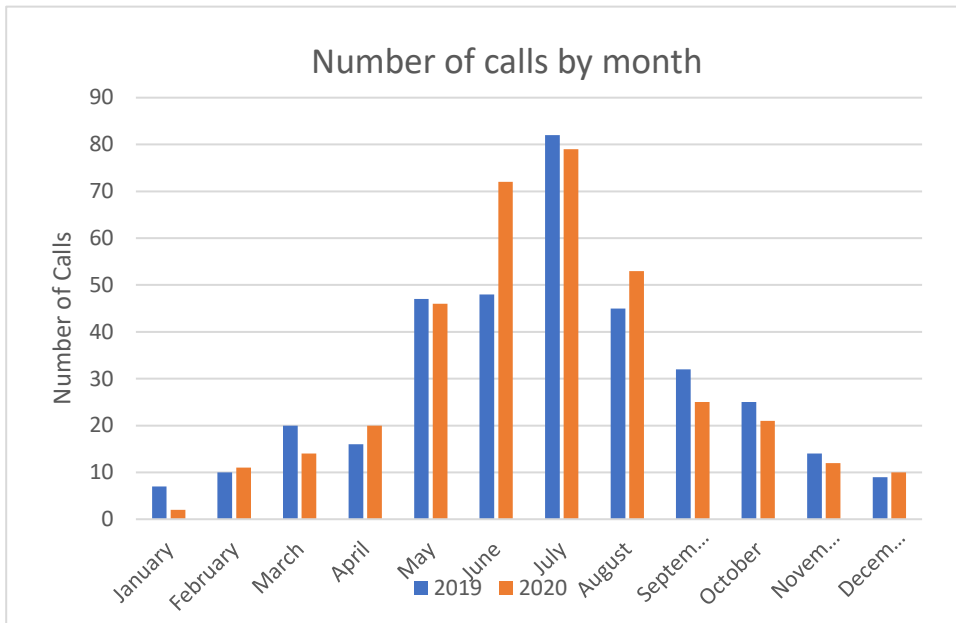
Overview of calls to the Northern New England Poison Center for the years 2019 and 2020

Northern New England Poison Center (NNEPC) is a Portland Maine based poison control center that handles calls from Maine, New Hampshire, and Vermont. The NNEPC calls-received database was queried for all pesticide related calls, including disinfectant related calls.

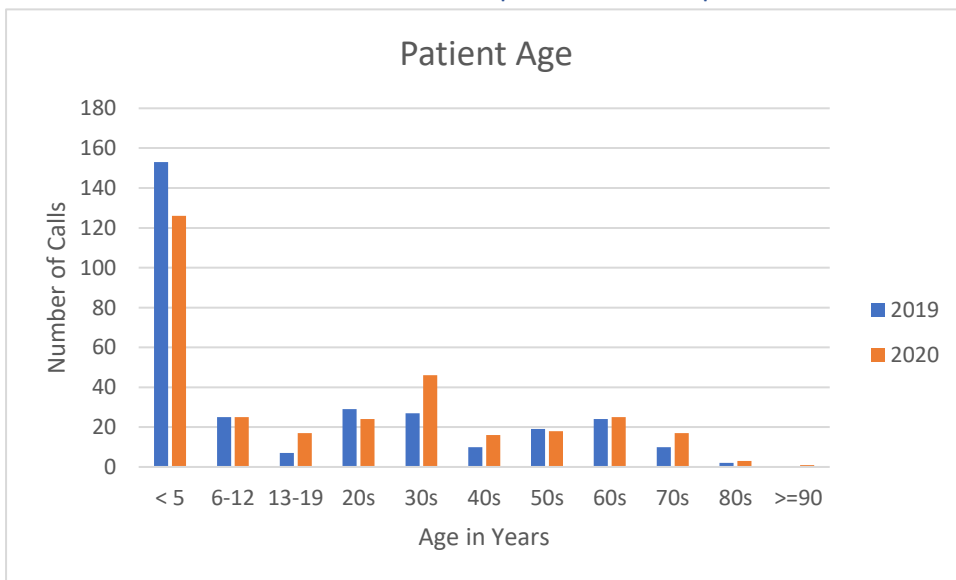
NNEPC receives calls that range from general information calls, like questions about the safety of insect repellants, to calls from emergency room staff intervening in acute poisoning events. These data are a window into the rate of injury caused by both accidental and intentional exposures to pesticides.

The structure of their call logging system categorizes disinfectants as cleaners not as pesticides. This division exists in this report; the first portion of the document the “pesticide” data is presented followed by another section of similar graphs displaying the “disinfectant” data. At the end of the NNEPC section a few select charts were made where these data were combined for an overview.

Pesticide call frequency throughout the year



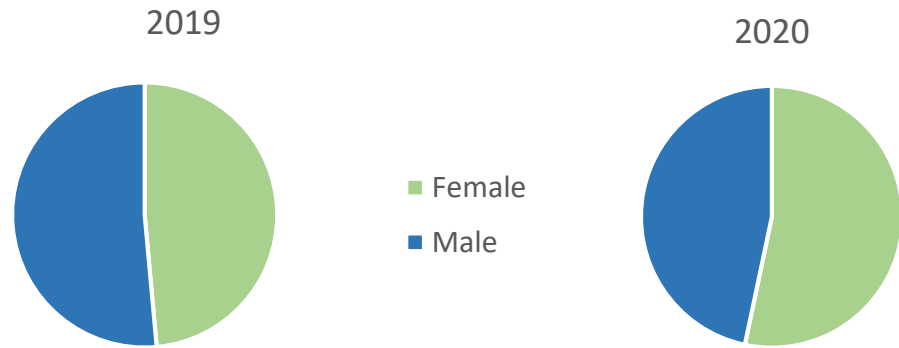
Age of the individual involved with pesticide exposure



Broad classification by pesticide type



Pesticide exposure calls by gender



Overview of severity of the pesticide exposure outcome

Medical Outcome	2019		2020	
	Number of Calls	Percent	Number of Calls	Percent
Major effect	3	0.6	2	0.5
Moderate effect	7	2.0	11	3.0
Minor effect	21	5.9	16	4.4
Unable to follow, judged as a potentially toxic exposure	9	2.5	9	2.5
Confirmed nonexposure			27	7.4
No effect	20	5.6	20	5.5
Not followed, judged as nontoxic exposure (clinical effects not expected)	5	1.4	6	1.6
Not followed, minimal clinical effects possible (no more than minor effect possible)	278	78.3	262	71.8
Unrelated effect, the exposure was probably not responsible for the effect(s)	12	3.4	12	3.3

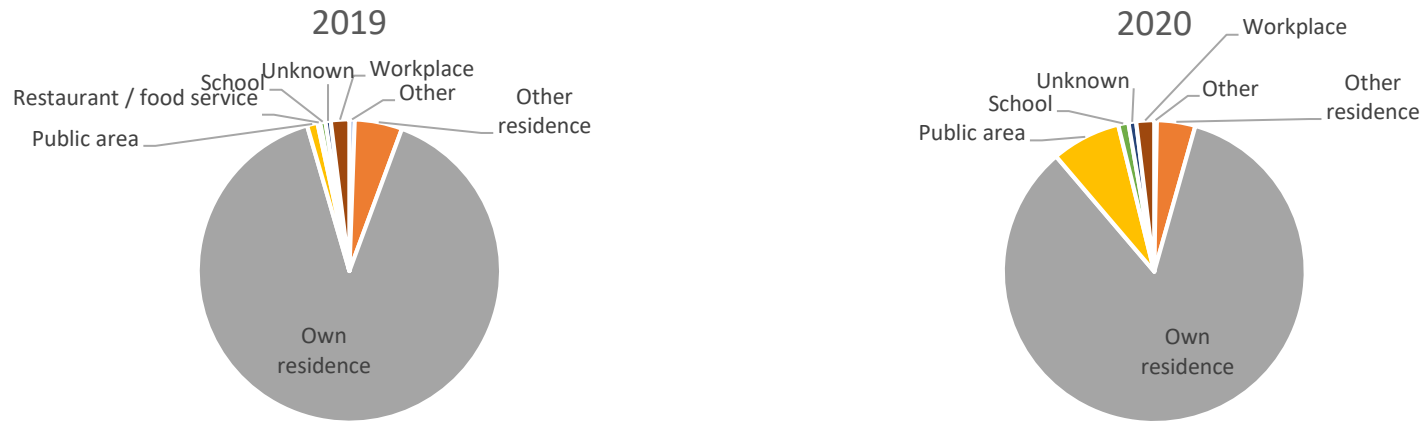
Minor effect – generally self-limiting symptoms

Moderate effect – more persistent or severe symptoms

Major effect – potentially life-threatening

Death

Location of exposure



Pesticide exposure reason

	2019	2020
Adverse reaction: Drug, Other	5	4
Intentional: Abuse, Misuse, Suspected Suicide, Contamination/ Tampering, Malicious	20	14
Unintentional: Bite / sting, Environmental, General, Misuse, Occupational, Therapeutic error	330	347
Grand Total	355	365

Pesticide call exposures organized by category and brand

Row Labels	2019	2020
Anticoagulant Rodenticide (Warfarin Type)	1	
D-Con Ready Mixed		
Bird, Dog, Deer or Other Mammal Repellent	1	1
Frontiersman Bear Attack Deterrent		
Havahart Critter Ridder		1
Borate/Boric Acid Pesticide	40	46
Ant Trap		
Bora-Care		
Borate/Boric Acid Pesticide		
Liquid Bait Ant Killer		
Terro Ant Killer II		
Terro Liquid Ant Bait		
Bromethalin	4	4
Bromethalin		
Just One Bite EX - Pellet Place Packs		
Tomcat Mouse Killer		
Carbamate Fungicide	2	
Manzate 200 Df Fungicide		
Thiram 42-S Fungicide & Repellent		
Carbamate Herbicide	1	
Chlorpropham		
Carbamate Only (Alone)	3	1
5% Sevin Dust		
Black Flag Wasp, Bee, And Hornet Killer		
Black Flag Wasp, Bee, Hornet Killer		
Gardentech Sevin-Ready-To-Use 5% Dust (TechPac LLC)		
Chlorinated Hydrocarbon Combined With Other Insecticide	4	
Bug Bomb		
Chlorophenoxy Herbicide	1	3
CHLOROPHENOXY COMPOUNDS		
Spectracide Weed Stop For Lawns		
Trimec 992 Broadleaf Herbicide		
Weed Beater Ultra Ready to Use		
Copper Compound Fungicide	1	2
Copper Compound Fungicide		
Copper Fungicide - Liquid		
Liquid Copper Fungicide Concentrate		

Diquat	1	
Spectracide Weed and Grass Killer		
Glyphosate	5	1
GLYPHOSATE		
GLYPHOSATE ISOPROPYLAMINE SALT		
Knock-Out Weed And Grass Killer		
Insect Growth Regulator		1
Spot On Flea Control For Cats And Kittens		1
Insect Repellent With Deet	52	35
Backwoods Cutter Insect Repellent		
Backwoods Cutter Insect Repellent Spray		
Ben's 100 Tick and Insect Repellent - Max Formula		
Ben's 30 Wilderness Formula		
Cutter All Family Insect Repellent		
Cutter Insect Repellent		
Deep Woods Off For Sportsmen		
Deep Woods Off For Sportsmen Insect Repellent IV - Unscented		
Deep Woods Off! For Sportsmen Insect Repellent IV		
Deet 100 Insect Repellent		
DIETHYLTOLUAMIDE-DEET		
Family Formula Repel Insect Block 23% Deet Scented		
Insect Repellent With Deet		
Off Active Insect Repellent I Spray		
Off Active Insect Repellent IV Sweat Resistant		
Off Deep Woods Insect Repellent V - Unscented		
Off Deep Woods Sportsmen Insect Repellent 1		
Off Deep Woods Sportsmen Insect Repellent II		
Off! Deep Woods Insect Repellent V		
Off! Deep Woods Insect Repellent VII		
Off! Deep Woods Sportsmen Insect Repellent II		
Off! Family Care Insect Repellent IV		
Repel 100 Insect Repellent		
Repel Insect Repellent Sportsmen Formula - 29% Deet		
Repel Insect Repellent Sportsmen Max Formula - 40% Deet		
Repel Insect Repellent Sportsmen Max Formula Spray Pump - 40% Deet		
Insect Repellent Without Deet	16	18
Bug Off Bracelet		
Citronella candle (Insect repellent) (General formulation)		
Cutter Lemon Eucalyptus Insect Repellent		
Insect Repellent Without Deet		
INSECT REPELLENTS - OTHER FORMULATIONS		
Natrapel Insect Repellent Eco-Spray With Aloe		
Natrapel Spray		
Off! Botanicals Insect Repellent		
Off! Botanicals Insect Repellent I		
Off! Familycare Insect Repellent II - Clean Feel		
PICARIDIN		
Repel Lemon Eucalyptus Insect Repellent Lotion And Spray Lotion		
Repel Permanone Permethrin Trigger Spray Clothing & Gear Insect Repellent		

Repel Plant-Based Lemon Eucalyptus Insect Repellent2 - Deet Free
 Skin So Soft Bug Guard Plus Ir3535 Expedition Insect Repellent
 Skin So Soft Bug Guard Plus Ir3535 Insect Repellent

Long-Acting Anticoagulant Rodenticide	5	11
ANTICOAGULANTS-LONG ACTING		
D-Cease Mouse & Rat Bait Pellets		
d-Con Bait Station - Refillable		
D-Con Rat And Mouse Bait Blocks II		
DIPHACINONE		
Just One Bite II - Bait Bar		
Long-Acting Anticoagulant Rodenticide		
Ramik Green		
Tomcat		
V Rat And Mouse Bait Pellets		
Wilson Tomcat Ultra Block Bait (Domestic)		
Naphthalene Moth Repellent	4	4
Enoz Old Fashioned Moth Balls		
NAPHTHALENE		
Nicotine (Excluding Tobacco Products)	1	1
Nicotine (Excluding Tobacco Products)		
Organophosphate	7	27
2 In 1 Flea & Tick Collar For Dogs With Deodorant		
ACEPHATE		
DICHLORVOS		
Hartz UltraGuard Flea And Tick Powder For Dogs		
MALATHION		
Malathion 50 Insect Spray		
Malathion 8 Flowable Agricultural Insecticide		
Organophosphate		
Ortho Home Defense		
Organophosphate And Other Insecticide		1
Hot Shot Fogger		
Other Herbicide	4	3
Other Herbicide		
Prodiamine		
PYRIDINE HERBICIDES		
Quinclorac		
Scotts Turf Builder Plus Halts 30-3-10		
Other Insecticide	60	49
Advantage II for Dogs - 11 to 20 pounds		
Advion Ant Gel		
Animal or poultry dip, nec, liquid (Poisonous liquid, n.o.s.) (Veterinary product)		
Avid 0.15 Emulsifiable Concentrate		
Azadirachtin		
Bayer Advanced 12-Month Tree and Shrub Protect and Feed Concentrate II		

CimeXa Insecticide Dust
 Combat Ant Killing Bait
 Combat Max Ant Killing Bait
 Dinotefuran
 Eliminator Fire Ant Killer Bait
 Enforcer 7-Month Flea Spray For Homes
 FIPRONIL
 Frontline Plus For Dogs And Cats
 Frontline Spray Treatment
 Garden Safe Fungicide 3
 Hot Shot Maxattract Ant Bait
 Hot Shot Maxattract Ant Bait 2
 Hot Shot Natural Wasp And Hornet Killer
 HYDRAMETHYLNON
 Imidacloprid
 Maxforce FC Professional Insect Control Ant Bait Stations
 Mosquito Dunks
 Natroba 0.9%
 NEONICOTINOID INSECTICIDES
 NexGard - 24.1 to 60 Pound Dogs
 NexGard - 4 to 10 Pound Dogs
 Other Insecticide
 PetArmor for Dogs
 Raid Ant Baits III
 Raid Double Control Ant Baits II
 Raid Max Double Control Ant Baits
 Raid Max Roach Bait V For Small Roaches
 Safer Brand Insect Killing Soap Soap With Seaweed Extract II
 Selamectin
 Sepresto 75 WS
 Spinosad (insecticide)
 Tropiclean Natural Flea & Tick Carpet & Pet Powder

Other Non-Medicinal Fungicide **3** **3**

CaviCide
 Eagle 20EW Fungicide
 Inspire Super
 Maxim 4FS
 Other Non-Medicinal Fungicide

Paraquat **1**

PARAQUAT

Pyrethrin **17** **19**

CareOne Lice Killing Shampoo - Step 1 Lice Control System - Maximum Strength
 Enforcer Bed Bug and Flea Fogger
 Equate Lice Killing Shampoo -Maximum Strength
 Garden Safe Houseplant And Garden
 Hot Shot Bedbug And Flea Fogger
 Hot Shot Fly And Mosquito Insect Killer Pressurized
 Ortho Tomato And Vegetable Insect Spray
 Pyrethrin
 PYRETHRINS

R7-M Ear Mite Treatment For Dogs And Cats
 Raid Flea Killer
 Rid Lice Elimination Treatment: Rid Lice Killing Shampoo
 Rid Lice Killing Shampoo

Pyrethroid

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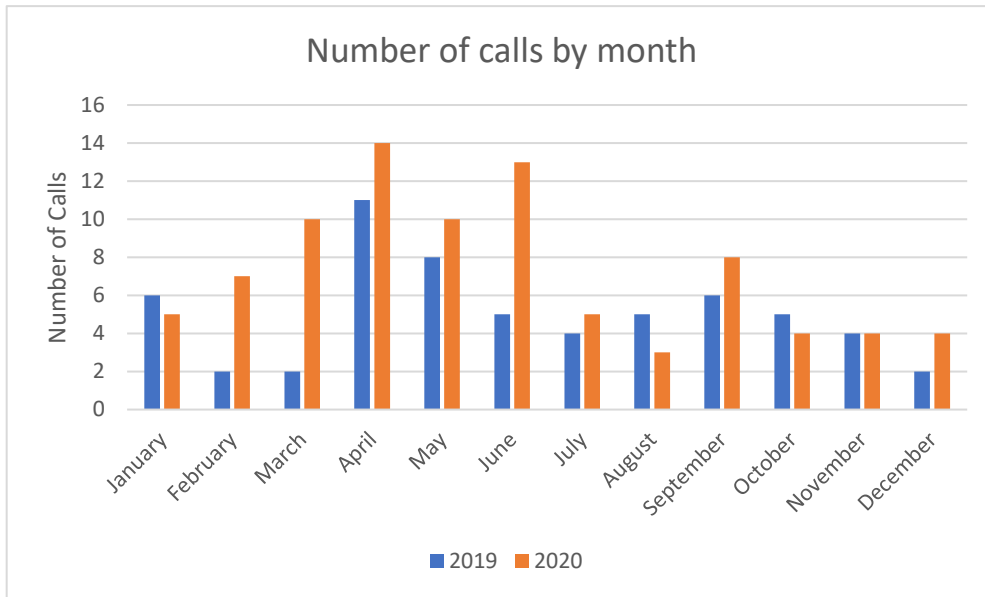
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Absorbine UltraShield EX Insecticide & Repellent
 Asana XI Insecticide
 Bayer Advanced Garden Lawn Powerforce Kills Bugs Fast Multi Insect Killer
 Ready To Spray
 Bayer Advanced Home Pest Plus Germ Killer Indoor and Outdoor Insect
 Killer Ready-To-Use
 Bedbug Spray
 Biflex Sfr Termiticide/Insecticide 1786
 Black Flag Flying Insect Killer
 Black Flag Holiday Bug Bomb I Pine
 Control Flea And Tick Conditioning Shampoo For Cats
 Cutter Backyard Bug Control Outdoor Fogger
 Cutter Backyard Bug Control Spray Concentrate
 Ethofenprox
 Flea & Tick Spray For Dogs II
 Gamma Cyhalothrin 150 CS Insecticide
 Hartz UltraGuard Plus Flea And Tick Home Spray
 Hot Shot Bedbug And Flea Killer2
 Hot Shot Flying Insect Killer 2
 Hot Shot Flying Insect Killer Plus
 Hot Shot Fogger5 With Odor Neutralizer
 Hot Shot Foggers With Odor Neutralizer
 Hot Shot No-Mess! Fogger With Odor Neutralizer
 Hot Shot Wasp And Hornet Killer 3
 Kill Zone Flying Insect Killer
 Liberty Spot-On For Biting Fly Protection
 Lice Treatment Creme Rinse
 Nix
 Nix Creme Rinse
 Nix Lice Control
 Ortho Ant Stop Ant Killer Spray
 Ortho Home Defense Max Hornet and Wasp Eliminator Spray
 Ortho Home Defense Max Perimeter & Indoor Insect Killer
 Ortho Home Defense Max Perimeter and Indoor Insect Control Ready-to-Use
 with Wand Applicator
 Ortho Home Defense Perimeter & Indoor Insect Killer - Ready to Use
 Ortho Homedefense Indoor And Outdoor Insect Killer 5
 Permethrin
 Permethrin 5%
 Pyrethroid
 PYRETHROIDS
 Raid Ant And Roach Killer 17
 Raid Ant and Roach Killer 26 - Outdoor Fresh
 Raid Concentrated Deep Reach Fogger
 Raid Flying Insect Killer Formula 6
 Raid House And Garden Bug Killer Formula 7
 Raid Max Concentrated Deep Reach Fogger
 Raid Max No Mess Dry Fogger

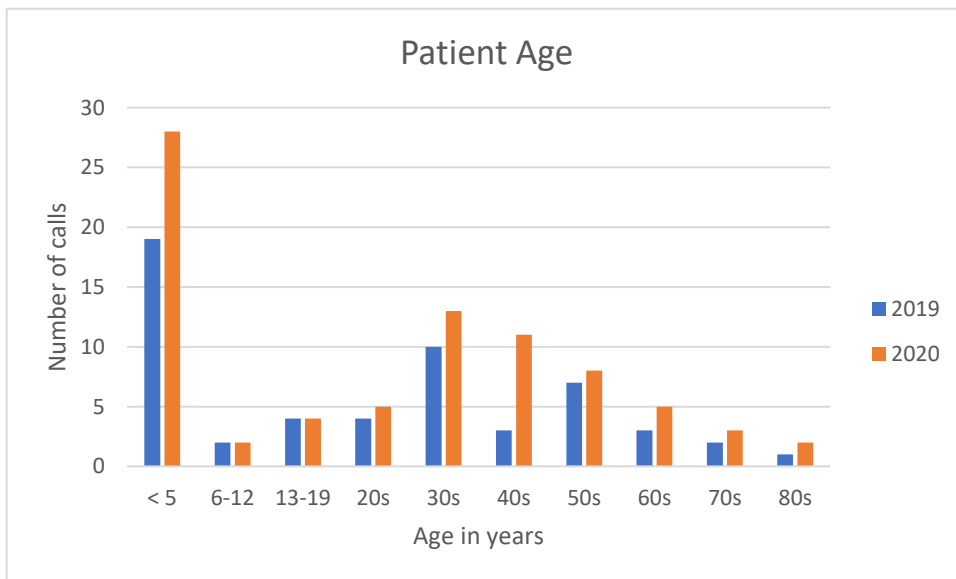
Raid Wasp And Hornet Killer 271		
Raid Wasp And Hornet Killer 33		
Raid Yard Guard Outdoor Fogger Formula VII		
Real-Kill Automatic Indoor Fogger		
Real-Kill Indoor Fogger		
Rid Lice Control Spray		
Sawyer Premium Insect Repellent Clothing		
Sawyer Premium Insect Repellent Clothing - Odorless Permethrin		
Spectracide Ant Shield Home Barrier Insect Killer4		
Spectracide Bug Stop		
Spectracide Bug Stop Home Barrier		
Spectracide Pro Wasp And Hornet Killer		
Spectracide Triazicide Insect Killer Once & Done!		
Spectracide Wasp & Hornet Killer		
Spectracide Wasp & Hornet Killer 3		
Suspend Polyzone		
Talstar Professional Insecticide		
Tempo 1% Dust Insecticide - Ready To Use		
Terro Ant Dust		
Transport Termiticide Insecticide		
Vectra 3D For Dogs		
Wasp And Hornet Killer – Aerosol		
Rodenticide: Cholecalciferol	5	1
d-Con Kills House Mice Refillable Bait Station		
Rodenticide: Cholecalciferol		
Rodenticide: Other	1	10
RatX		
Rodenticide: Other		
The Giant Destroyer		
Tomcat Glue Board		
Rodenticide: Unknown	6	13
Rodenticide, unknown		
Rodenticide: Unknown		
Tomcat Glue Board		
Strychnine Rodenticide		2
STRYCHNINE		
Unknown Herbicide	2	
Unknown Herbicide		
Unknown Insecticide	20	18
Pesticide (Unknown type)		
PESTICIDES		
Serenade Garden Disease Control Concentrate		
Unknown Insecticide		
Unknown Mothball or Moth Repellent	11	12
Moth balls (General formulation)		
Unknown Non-Medicinal Fungicide	1	1
Unknown Non-Medicinal Fungicide		
Unknown Types of Insect Repellent	2	2
Insect repellents (ingredients not specified)		
Wood Preservative		1
Waterguard Multisurface		

Disinfectants

Pesticide call frequency throughout the year



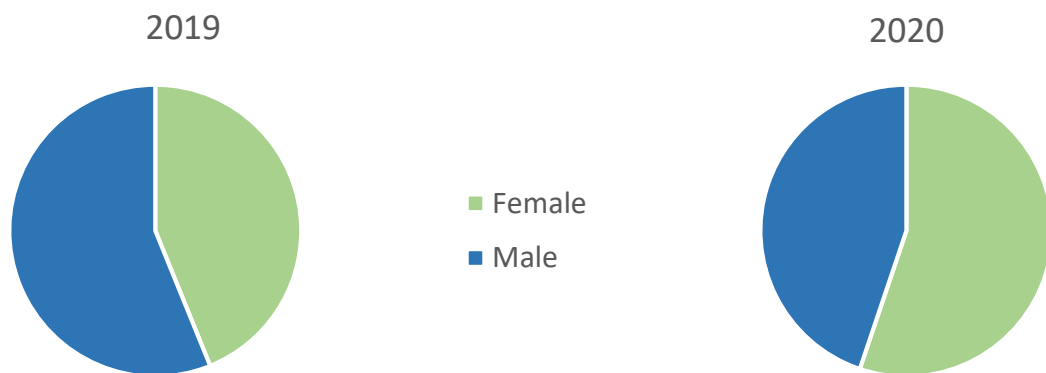
Age of the individual involved with pesticide exposure



Overview of severity of the pesticide exposure outcome

Medical Outcome	2019		2020	
	Number of Calls	Percent	Number of Calls	Percent
Moderate effect	3	5.0	3	3.4
Minor effect	15	25.0	14	16.1
Unable to follow, judged as a potentially toxic exposure	1	1.7	1	1.1
No effect	4	6.7	2	2.3
Not followed, judged as nontoxic exposure (clinical effects not expected)	1	1.7	3	3.4
Not followed, minimal clinical effects possible (no more than minor effect possible)	36	60.0	63	72.4
Unrelated effect, the exposure was probably not responsible for the effect(s)		0.0	1	1.1

Pesticide exposure calls by gender



Pesticide exposure reason

	2019	2020
Adverse reaction – Drug, Other	1	
Intentional – Abuse, Misuse, Suspected Suicide, Contamination/ Tampering, Malicious	12	8
Unintentional - Bite / sting, Environmental, General, Misuse, Occupational, Therapeutic error	47	77
Unknown reason		2
Grand Total	60	87

Location of exposure



Pesticide call exposures organized by category and brand

Row Labels	2019	2020
Disinfectant: Hypochlorite, Non-Bleach Product	15	9
Ajax Cleanser		
Disinfectant: Hypochlorite, Non-Bleach Product		
Kay 5 Sanitizer/Cleaner		
Lysol Brand Disinfectant All Purpose Cleaner With Bleach Trigger Spray		
Lysol Brand Laundry Sanitizer - No Phosphate		
SODIUM HYPOCHLORITE		
Disinfectant: Other/Unknown	36	64
Barbicide (General formulaton)		
Cleaning And Disinfecting Wipes		
Clorox Disinfecting Wipes - Fresh Scent		
Clorox Disinfecting Wipes - Lemon Fresh		
Clorox Disinfecting Wipes - Orange Scent		
Clorox Disinfecting Wipes Lavanda		
Disinfectant, solid, toxic, n.o.s.		
Disinfectant: Other/Unknown		
Disinfecting Cleaner Lysol-Type		
Disinfecting Spray Citrus Scent		
Disinfecting Wipes Bleach-Free Fresh Scent		
Disinfecting Wipes Bleach-Free Lemon Fresh Scent		
Germ-X		
Hibiclens		
Lysol Brand Disinfectant All Purpose Cleaner - All Scents - Trigger Spray Epa 777-66		
Lysol Brand Disinfectant Deodorizing All Purpose Cleaner - Lemon Scent		
Lysol Brand Disinfectant Direct Multi-Purpose Cleaner All Scents-Trigger Pump		
Lysol Brand I.C. Disinfectant Spray - Aerosol		
Lysol Brand I.C. Foaming Disinfectant Cleaner - Aerosol		
Lysol Brand I.C. II Disinfectant Spray - All Scents		
Lysol Brand II Disinfectant Spray - All Scents		
Lysol Brand III Disinfectant Spray (Aerosol) - Crisp Berry		
Lysol Brand III Disinfectant Spray (Aerosol) - Crisp Linen		
Lysol Brand III Disinfectant Spray (Aerosol) - Early Morning Breeze		
Lysol Brand Sanitizing Wipes - All Scents		
Lysol Brand Spray Disinfectant		
Lysol Disinfecting Wipes - Citrus		
Lysol Disinfecting Wipes - Lemon Lime To Go		
Lysol Disinfecting Wipes - Ocean Fresh		
Lysol IC - Disinfectant Wipes		
Lysol Spray Disinfectant		
Mold Armor Mold Remover and Disinfectant		
No Rinse Sanitizer Formula 362		
Sol-U-Guard Botanical Disinfectant		
Sss Dual Power Disinfectant No. 05180		
Surface Disinfectant and Deodorant		
Virex II 128 One-Step Disinfectant Cleaner And Deodorant		
Disinfectant: Phenol (Eg, Lysol)		4
Dettol		

Lysol Brand Concentrate Disinfectant

Disinfectant: Pine Oil

9 10

Dettol

Lestoil

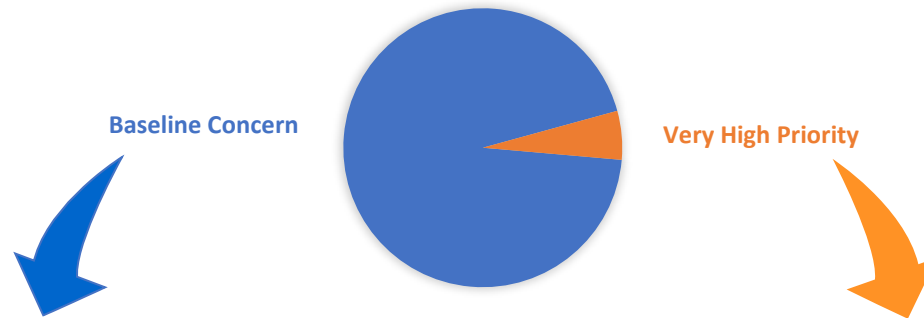
Lysol

Original Pine-Sol Brand Cleaner

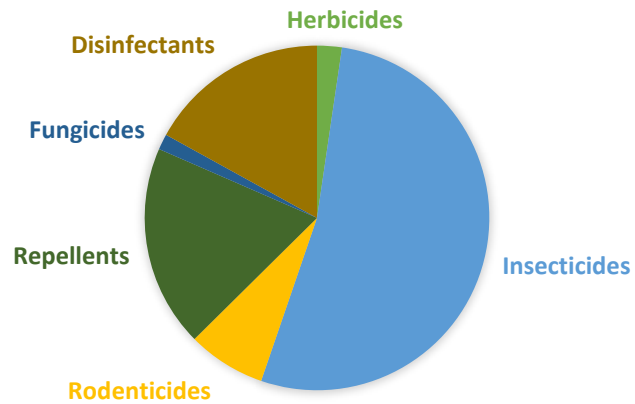
Original Pine-Sol Multi-Surface Cleaner

Pine-Sol

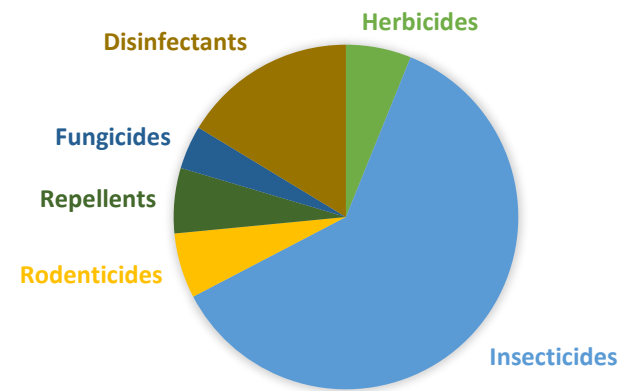
OUTCOMES GROUPED BY SEVERITY OF EXPOSURE PESTICIDES & DISINFECTANTS COMBINED



PESTICIDE CLASS INVOLVED WITH EXPOSURES OF MINOR, MINIMAL, OR NO EFFECTS



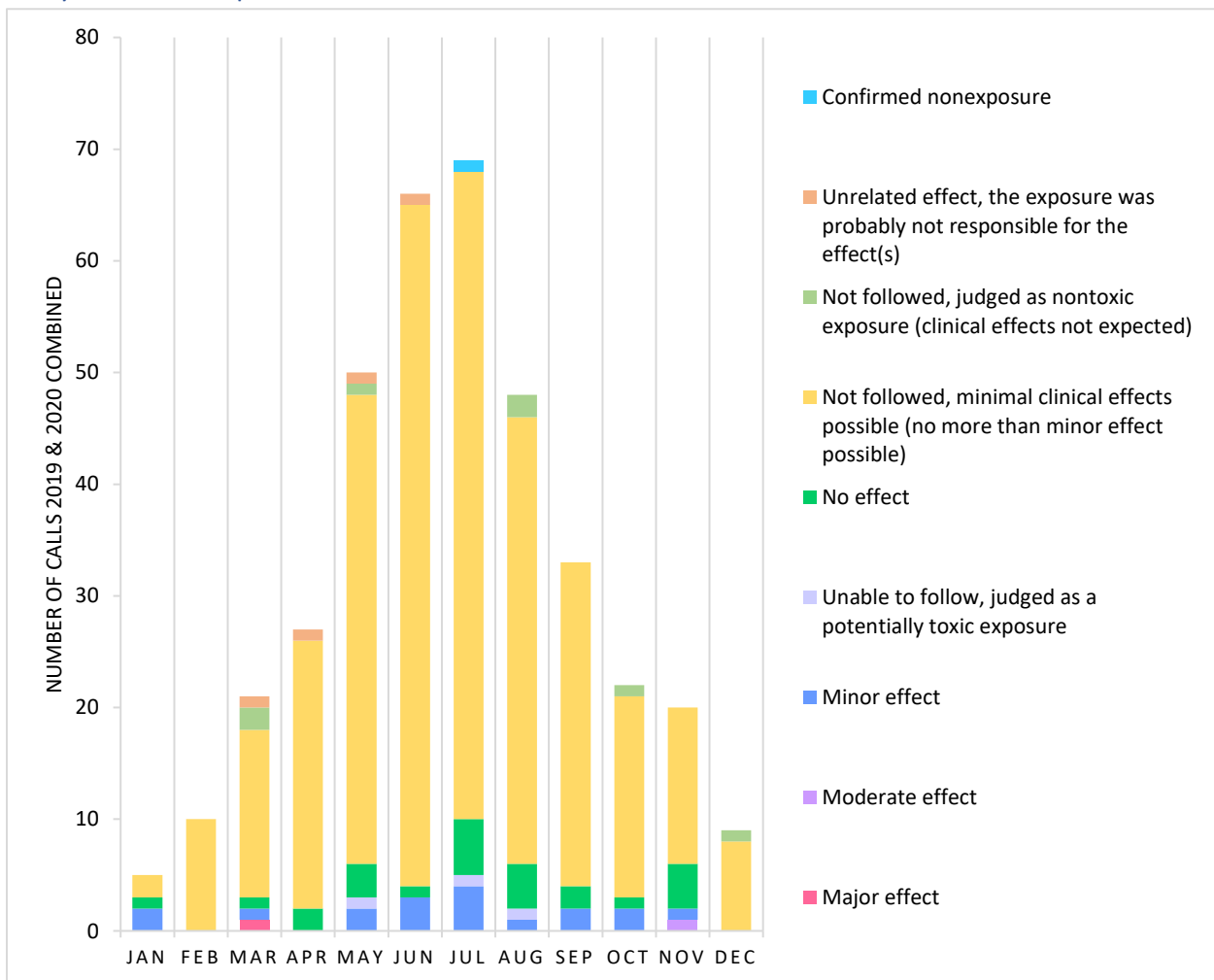
PESTICIDE CLASS INVOLVED WITH EXPOSURES OF MODERATE OR MAJOR EFFECTS OR DEATH



Pesticide products related to medical outcomes of major effects (potentially life threatening) and reason for exposure

Reason for exposure	Pesticide Product
Intentional - Misuse	Bedbug Spray
Intentional - Misuse	Black Flag Holiday Bug Bomb I Pine
Intentional - Suspected suicide	d-Con Kills House Mice Refillable Bait Station
Unknown reason	Glyphosate
Unintentional - Occupational	Other herbicide

Seasonal changes in incidence and medical outcome for children under 12 yrs old for pesticides and disinfectants in 2019 & 2020 combined



National Pesticide Information Center Call Data

The National Pesticide Information Center (NPIC) is funded by EPA to provide the nation with a dedicated resource for pesticide questions and general information for the public.

Volume

39 calls 2019

30 calls 2020 (not full reporting year; up to November 15)

Type

13 Incident calls (3 AI unknown)

56 Information calls

Number of Calls & Question Area

6 Application

12 Chemical (general, health, pest control)

2 Cleanup

2 Disposal/Storage

2 Food Safety

2 General

11 Health

9 Health human/domestic

1 Veterinary/Medical Treatment

2 NPIC Questions

2 Other

5 Pest Control

8 Regulation

1 Report an Incident

4 Thanks

NPIC Caller Questions

-Caller said she is growing marijuana for her personal use and asked if Green Cure fungicide could be used on marijuana in bud. Discussed that no pesticide is federally registered for marijuana. Discussed that some states have created pesticide lists for use on marijuana and Provided contact information for State Lead Pesticide Agency. Discussed that in caller's state, there is a State Office of Marijuana Policy, and provided contact information for same.

-Caller seeking information about shelf-life of a permethrin clothing treatment product.

-Caller seeking chemical information related to the upcoming use of active ingredient acephate to control brown-tail moths. Caller reported that the proposed treatment is due to occur in April or May (2020). Caller reported that the product is due to be injected into the trees. Caller asked about the potential for the active ingredient to leach into the garden from fallen leaves or dead moths.

-Caller seeking health and chemical information related to the use of EPA registration number 239-2491 (active ingredient triclopyr) outside to control poison ivy. Caller reported that yesterday (05/28/2019) she applied the product on a patch of poison ivy on her property. Caller reported that she is wanting to plant peach and pear saplings in the area but did not want to harm the trees she is going to plant. Caller reported that she was planning on planting the trees sometime next week.

-Caller reported she would be hiring a Pest Control Company to treat her home for an ant infestation and for mice. Caller reported she had a son with peanut, tree and egg allergies and asked about allergic risks from the products, which were active ingredients bifenthrin, deltamethrin, lambda-cyhalothrin and bromadiolone. Caller also asked about the risks of residues, such as giving anything off to the air, adding that the applications would be to cracks and crevices of the home.

-Caller seeking information about why the Safer Choice products they are using for cleaning their office are not on EPA List N Disinfectants for COVID-19. Caller said they are looking for products to disinfect surfaces but could not find an EPA registration number on their product. Discussed List N only includes disinfectants and Safer Choice may be cleaning products.

-Caller said they usually throws mothballs (unknown active ingredient) in their shed in the winter to deter mice. Caller said that they are planning on storing a gas grill and a lawnmower in the shed, and are concerned that the mothball vapors could explode, and wanted to check before tossing the mothballs in there this year.

-Caller seeking information on how to dispose of old pesticides.

-Caller seeking food safety, chemical, and health information related to the use of Talstar (active ingredient bifenthrin) along the perimeter of a property. Caller reported that three days ago (08/10/2019) a Pest Control Company came and treated her lawn with the product. Caller reported that she has a garden that is "10-15" feet away from the application site. Caller reported that she was concerned about the food safety risks related to vegetables in the garden. Caller reported that before the application, she removed her herbs that were in pots on her deck. Caller reported that she was unable to remove her strawberry and pepper plants from the area. Caller reported that the applicator treated under the deck. Caller reported that she thinks that the product drifted onto her plants during

the application. Caller asked about the food safety and health risks related to eating the plants. Caller asked if the active ingredient would absorb into plants in the garden.

-Caller (age 62) seeking health information related to the use of EPA registration number 67702-2-4 (active ingredient octanoic acid, copper salt). Caller reported that she is a professional gardener. Caller reported that twenty minutes ago (09/16/2019) while working, she was outside using the product on a job when she had a problem with the sprayer. Caller reported that while adjusting the sprayer, some of the mixed product sprayed onto her hands. Caller reported that she finished the job she was doing and then went and washed her hands off.

-Caller seeking health information about whether she can use EPA registration number 6218-76 (active ingredient permethrin) in a fenced area where her dogs spend time. Caller reported she has ticks. Caller reported she knows that permethrin is used in products for dogs so it might be okay.

-Caller seeking health information related to the potential use of active ingredient alkaline copper quaternary in raised garden beds. Caller reported that she was considering using the active ingredient but asked what the risks were related to using it.

-Caller asking about how to find more information about long term effects of chronic exposure to various pesticides. Caller reported he and his twin brother both worked as applicators for their careers. Caller reported that they had not family history of diabetes, but that both he and his brother developed diabetes and neuropathy and other neurological conditions around the same time, and that they both has the same exposures. Callers asked about active ingredient glyphosate; active ingredient triclopyr; active ingredient 2,4-D; Tordon (active ingredient picloram) which he frequently applied throughout his career. Caller asked about the exposure of 2,4-D and Agent Orange.

-Caller seeking information about what to do after her dog ate Fastkill Mouse Bait (active ingredient bromethalin).

-Caller seeking information about if EPA Registration number 2192 is effective against COVID-19.

-Caller seeking information on how to tell if the insect she found in her office is a kissing bug.

-Caller, a certified applicator, seeking information about getting certification renewal forms sent to him.

-Caller reported he believes the neighboring property is using RoundUp (active ingredient unknown) in a concerning way and wishes to have someone look into it.

-Caller, calling on behalf of a licensed applicator, trying to ask about how many course credits are necessary for pesticide applicator license.

-Caller seeking regulatory information related to a recent legal ruling. Caller reported that following the revocation of the Waters of the United States rule, caller reported that he was concerned about the regulations related to water. Caller reported that he was concerned about how water contamination would be effected by the ruling.

-Caller seeking regulatory information related to the notification of pesticide applications. Caller reported that she wanted to know if a landlord was required to inform her of an upcoming application.

-Caller (applicator) seeking information on the current number of CEUs he has acquired for his license.

All of the following content was copied directly from the webpage:

<https://www.aspc.org/news/official-top-10-pet-toxins-2020>

The Official Top 10 Pet Toxins of 2020

March 25, 2021

ASPCA | (888) 426-4435
Animal Poison Control Center

Top Toxins of 2020

1 Over-the-Counter Medications 	2 Human Prescription Medications 
3 Human Foods 	4 Chocolate 
5 Bouquets and Plants 	6 Household Toxicants 
7 Rodenticide 	8 Veterinary Products 
9 Insecticide 	10 Garden Products 

For more information, please visit [aspc.org/apcc](https://www.aspc.org/apcc)

Every year, the ASPCA Animal Poison Control Center (APCC) compiles a list of the top toxins commonly reported that year. In 2020 alone, APCC helped more than 370,500 animals, providing their pet parents with lifesaving information and easy-to-use safety guides.

1. Over-the-counter (OTC) medications ranks as the number one top toxin for the third year in a row, making up about 17 percent of APCC's total case volume. Ibuprofen, acetaminophen, cold and flu medicine, vitamins and supplements and joint rubs all fall within this category. These items are often found in homes and in all sorts of hiding places like backpacks and purses.
2. Human prescription medications including, and most commonly seen, antidepressant, anticonvulsant and cardiac medications. Always make sure your prescription medications—and OTC medications—are in closed cabinets that your pet cannot reach.
3. Human Food makes up 13 percent of 2020's total cases. APCC received most of their calls about grapes, raisins, xylitol, onions, garlic and protein and snack bars. Be vigilant about any human food that may be lying around for hungry pets to get to.
4. Chocolate comes in at number four. APCC handles almost 76 cases per day of chocolate exposure. Dogs seem to love chocolate and if they get into it, could eat enough to get themselves into some serious trouble.
5. Bouquets and plants jumped from number eight to number five in just one year, with 9,000 more calls than in 2019. Both indoor and outdoor plants can cause a threat to our four-legged friends, so make sure to check out our list of toxic and non-toxic plants before bringing a new plant into your home or garden.
6. Household toxicants, like cleaning, beauty and home repair products, remained at number six in 2020. With more people home due to the COVID-19 pandemic, many took to home improvement projects using paint, adhesives or spackle, all of which are hazardous to pets.
7. Rodenticide is very common in the winter months when rodents, like mice and rats, come looking for warmth. The ingredients that make rodenticide so appealing to rodents, has the same effect on cats and dogs. If your pet ingests rodenticide, it can cause bleeding, kidney failure, seizures or even death.
8. Veterinary products moved down on the list this year, but is still very much so a risk. Chewable medications, like calming chews, are super tasty to pets, which means once they try it, they may try to get into the entire container. Make sure these products stay out of paw's reach!
9. Insecticide like ant baits, bug sprays and other yard products can be enticing to pets just as much as bugs. Try using pet-safe product alternatives!
10. Garden products remain at number 10 for the third year in a row. Fertilizers, especially those made from organic products, are delicious to dogs, however, are toxic. Make sure your pets steer clear of the garden or freshly fertilized lawn!

If you suspect your pet may have ingested something toxic, please contact your veterinarian or the ASPCA Animal Poison Control Center at (888) 426-4435 immediately.