

City of Portland, ME
Pesticide Management Advisory Committee
Annual Report to the Sustainability and Transportation Committee
March 23, 2022

The City of Portland's Pesticide Ordinance requires the Pesticide Management Advisory Committee to provide a report to the Sustainability and Transportation Committee every year before March 31 in order to inform the City Council about the actions of the committee and to provide recommendations to the pesticide ordinance to enhance its environmental and public health benefits. This is the third annual report.

PMAC 2021

- Jesse O'Brien, Chair (*January to October 2021*)
- Avery Yale Kamila, Waiver Committee
- Carol Laboissonierre
- Priscilla Skerry
- Karen Snyder (*November 2021 to Present*)
- Troy Moon, City Staff

Executive Summary

- During the past year, Portland Parks & recreation reported success in transitioning high-use Fox Field to organic management and in treating the browntail moth infestation using an aerial spray of an organic listed pesticide.
- The PMAC received 44 applicator reports for 2021, which is 8 more than it received in 2020. A review of 2020 applicator reports conducted in 2021 discovered two violations.
- The PMAC heard one waiver request in 2021 from Cushing Island, but the application was incomplete and no ruling was made.
- There were six pesticide complaints registered on SeeClickFix in 2021, the majority for signage violations.
- With this report, the PMAC makes three recommendations to the City Council: reorganize the PMAC as a LMAC; expand the ordinance to include fertilizers; and continue organic land care educational efforts in conjunction with South Portland and other communities.

Portland Parks & Recreation Organic Land Care Highlights

During 2021, the Parks & Recreation Department reported success in transitioning high-use Fox Field to organic management and in treating the browntail moth infestation in Deering Oaks using an aerial spray of an organic listed pesticide and an injection of a synthetic pesticide.

Fox Field

- The department maintains 39 athletic fields, and in 2020 was awarded a \$10,000 grant from Stonyfield Organic, Hannaford Supermarkets and Beyond Pesticides to improve Kennedy Park's high-use Fox Field athletic turf field using organic techniques. This work continued in 2021.

- Throughout the full 2020 season and during the summer of 2021, the department rested Fox Field from athletic use and instituted an intensive program of aeration and over-seeding coupled with applications of organic fertilizer and soil amendments, including granular humate, sulfate of potash and calcitic lime. The field was top dressed with sand and loam.
- Going forward, the department intends to renovate all of its high-use fields using similar techniques, which will cost roughly \$5,000 to \$10,000 per field per year. The department estimates that each field will need these amendments for three to five years to get the soil and the turf grass to optimal health and then will require fewer amendments after that. The department does not have the level of staffing that would be needed to renovate all the high-use fields in a single year.

Browntail Moth

- In the spring of 2021, the department continued its work to reduce the presence of browntail moth caterpillars in Deering Oaks Park. The department’s forestry crew used its bucket truck to manually clip and remove overwintering moth webs. However, many of the heritage oaks are taller than the bucket truck is able to reach.
- The city’s pesticide ordinance provides an exemption for treatment of invasive insects, and in May the department hired a pesticide applicator to inject the synthetic pesticide TREE-age, active ingredient emamectin benzoate, into 72 oak trees near the pond, playground, ballfields and along the park’s perimeter. One of the injected trees is the heritage pin oak known as the Candelabra Tree, which is the state’s largest known pin oak. The tree lost 90 percent of its foliage to the browntail moth caterpillars in early 2021.
- Even with the exemption for invasive insects, the department chose to treat infested oak trees in the center of park with an aerial spray of the organic listed pesticide Entrust SC, which uses an active ingredient of the spinosad soil bacteria, which is toxic to the caterpillars. Arborist Jeff Tarling reported the treatment “had a really good success rate” and “had minimal effect on” beneficial insects.

Applicator Report 2021 Data

- The Pesticide Use Ordinance requires that licensed applicators submit an annual report outlining all pesticide treatments (both synthetic and organic) within the City of Portland. To notify applicators of this requirement, we utilized the MELNA and State of Maine Board of Pesticide Control lists and sent notice via email to all licensed applicators in Cumberland County. Information about the report and a Google Form to submit a report were also added to the Sustainability Office web pages within the City’s website.
- We received reports from 44 businesses, which is 8 more than was received last year.

Businesses that submitted reports include:

1. A-Man Landscaping & Sports Turf	17. Food and Drug and the Bug LLC	31. Pest-End
2. A1 Exterminators	18. Green Pest Defense	32. Precision Pest Control, LLC
3. Advantage Pest Control	19. Liberty Pest Control, Inc.	33. Protect Pest Services
4. Ant Man Pest Control	20. Lucas Tree Experts	34. Rainbow International of Greater Portland
5. Ants Etc Pest Control	21. Maine Pest Solutions	35. Riverside Golf Club
6. Ants Plus		

7. Atlantic Insect & Lawn Control	22. Maine Verminator LLC	36. Sea Dogs (Hadlock Field)
8. Bartlett Tree Experts	23. Mainely Grass	37. Seabreeze Property Services
9. Big Blue Bug	24. Mainely Ticks	38. Sterling Insect - Lawn Control Inc
10. Bouchard Cleaning and Restoration	25. MD Weaver Corporation	39. Superior Pest Control
11. Bullseye Pest Services, LLC	26. Modern Pest Services	40. Terminix
12. Burnell Pest Services Inc	27. Mosquito Squad of Southern Maine	41. The Davey Tree Expert Company
13. Cheverus High School	28. Naturalawn of America	42. TruGreen
14. David W. MacDonald Inc. DBA Whitney Tree Service	29. New Meadows Abatement Inc.	43. Turf Doctor Lawn & Pest Services
15. Erlich Pest Solutions	30. Octagon Cleaning and Restoration	44. Waltham Pest Services
16. EZ Pest Solutions		

Note: See Appendix A for City of Portland Commercial Applicator Reports Submitted for 2021.

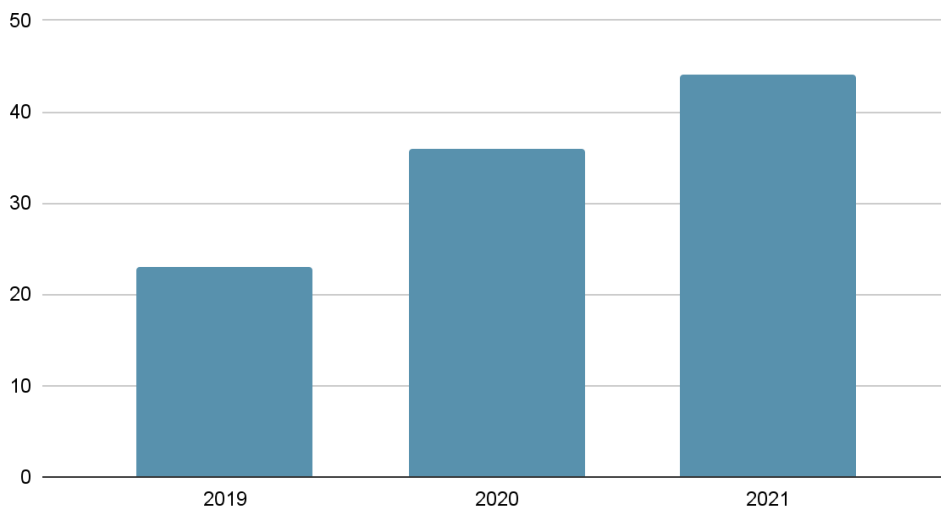
Staff was pleased that these companies submitted reports detailing their pesticide applications during the calendar year 2021.

- *We do not know how many pest management and landscaping companies operate in Portland so we do not know how many firms are required to submit reports.*

City of Portland Commercial Applicator Annual Reporting Summary Data (2019 to 2021)

PMAC is beginning to collect and compare commercial applicator report data from previous years and build upon this report information.

Reports Submitted



- We are seeing more applicators reporting each year. This is due to increased Pesticide Ordinance outreach as well as extensive follow up outreach from Sustainability Office staff and PMAC members.
- Of the 44 reports, 32 were not in compliance with the report required fields. Most noncompliant reports were missing information about the target pest.
- Of the 44 reports, 13 were from Portland-based companies.
- Waltham Pest Services was the report with the largest amount of different pesticides applied: 121 distinct pesticides. This company applied 121 different pesticides in Portland last year. It should be noted Waltham never submitted an annual usage report for 2020 nor 2019. The only reason Waltham submitted a report this year is that this company was reported on a Portland SeeClickFix regarding their pesticide sign usage violation. Once the City staff realized this company never submitted a report to the City of Portland, Waltham was contacted and asked to submit a 2021 report. This is a really good example of how the City of Portland has really no way of knowing exactly how many companies actually applied pesticides in Portland. One way to know how many businesses apply pesticides in Portland, is to require a business license to apply pesticides in Portland. This option has not been pursued yet.

Portland Pesticide Annual Report Areas	2021	2020	2019
# of Pesticide Annual Reports Submitted	44	36	22
# of Total Unique Pesticides Reported	225	139	96
Amount of Undiluted Pesticide Products Used (Lbs)	5,116.7	2,222	4,379
Amount of Undiluted Pesticide Products Used (Gallons)	1,392.6	776	273
Resident Complaints (Portland SeeClickFix)	6	12	0
# of Acreage Applied	864.5	621	350
- Private	297.52	216	19
- Public	567	405	330
# of Trees Applied	452	176	54
# of Buildings Applied	11,817	1,646	455
# of Sq Ft Applied	9,000,178.37	2,951,398.13	31,014
# of Waivers Submitted	1	1	2
# of Waivers Submitted Approved	0	0	0

# of Education and Outreach Efforts Held	2	4	7
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Note: The individual pesticides reported can be found in Appendix B

Results indicate the following:

- The data reported demonstrates that applications are primarily related to the control of ants or other pests that consume wood and damage property, which are allowed activities.
- There was also a significant increase in applied pesticides across the board for tree, insecticide, and rodenticide applications, which may be a direct result of the increase in pesticide application reporting this year.
- There were also a select few applications that were noted as ornamental, though this was certainly the minority. Note: Ornamental applications of synthetics are not allowed in the current pesticide ordinance and will be reviewed for compliance.
- Staff has not reviewed the reports to determine whether all of the applications are in compliance with the ordinance. Following is the 2020 compliance review which was completed in 2021.
- *We do not know how many pest management and landscaping companies operate in Portland so we do not know how many firms are required to submit reports. For example,*

2020 Pesticide Applicator Report Compliance Review

- In 2021, the PMAC conducted its first applicator report compliance review and issued a report. Waiver committee member and NOFA accredited organic land care professional Avery Yale Kamila reviewed for compliance all 35 pesticide applicator reports submitted to Portland for 2020. The review was made difficult by the lack of reporting of target pests and target sites. Without this information, eight reports required additional investigation to determine compliance. Kamila investigated each report by phone and email and discovered two ordinance violations.
- The first violation is Tower MRL, based in Wisconsin, which maintained two cell tower sites in Portland in 2020 and used synthetic herbicides (including Makaze, with an active ingredient of glyphosate) at these Portland sites.
- The second violation is Ant Man Pest Control, Inc., which used synthetic pesticides to kill spiders and other insects not considered “pests of significant health importance.” Both applicators were informed of the violations and both said they wouldn’t do it in the future. The report recommended the city send formal letters to Tower MRL and Ant Man, which staffing challenges have prevented from happening at this time.
- The Riverside Golf Course and Hadlock Field were exempted from the ordinance regulations. However, each is required to submit an applicator report. Riverside reported for 2020 but the Sea Dogs, which runs Hadlock Field, did not file a 2020 report. The baseball league has since been made aware of the reporting requirement and has filed a 2021.

- The report recommended applicators be asked to list target species and target sites on their reports. The Sustainability Department included this in online materials emailed to applicators and at the PMAC's annual applicator

Annual Report Compilation Lessons Learned:

While this reporting year had considerably more participation, this may have also led to more confusion amongst new reporters.

The following reporting issues should be addressed for the next reporting period to ensure more precise data:

- 1) the lack of consistent style for how to address the unit of measure for total area treated,
- 2) the lack of consistent description between the types of applications, and
- 3) the identification of pesticides as organic or synthetic.
- 4) the continued lack of transparency as to how many pest management and landscaping companies actually operate in Portland and therefore, the City of Portland does not know how many firms are required to submit commercial applicator reports.

Education and Outreach Efforts in 2021

- Coffee and Climate on Organic Landcare with Chip Osborne Held August 31, 2021
<https://www.oneclimatefuture.org/initiatives/organic-lawncare/>
- Updated City website with new climate information.

Waiver Requests

There was one waiver applicant in 2021. The applicant was Cushing Island. The waiver applicant had an incomplete application. The waiver committee requested more information with no response from the applicant, therefore there was no ruling on the waiver. In 2019, Cushing Island had also applied for a waiver, it was denied by the PMAC, approved on appeal, and the applicant applied glyphosate to the target plants. However, the 2021 application indicated the 2019 application was not effective.

Portland See-Click-Fix Resident Complaints on Pesticide Use

- The City of Portland relies on community-sourced reporting through the See-Click-Fix (SCF) platform to monitor compliance with the Pesticide Ordinance. In 2021, residents filed six SCF reports about potential Pesticide Ordinance violations. Many of them note the lack of proper signage on applied lawns, specifically the lack of a chemical name and trade name as required by the ordinance.
- The Sustainability Office sent information about the ordinance to the owners of the properties identified by the See-Click-Fix report. We also included information about proper signage in our annual letter to applicators reminding them of the ordinance's reporting requirements. We will continue to respond to resident reports and encourage residents to use the platform to share concerns they may have about compliance.

- Six SeeClickFix pesticide complaints were filed in 2021. Due to lack of staffing in the Sustainability Office, which was reduced by COVID budget cuts, complaint follow up was delayed or curtailed in some cases.
 - 1) One complaint reported an unnamed landscaping company spraying Roundup on July 10 at 141 William Street. No further information could be obtained about the applicator from the SeeClickFix app, and reduced staffing prevented further investigations.
 - 2) Four sign violations occurred with applicators from Davey, Green Pest Defense, Waltham Pest Services and Advantage Pest Control, Inc. These signs failed to list the “chemical and trade name” of the pesticide applied on the front of the sign, as required by the ordinance. When contacted by Sustainability Director Troy Moon, the applicators reported they would comply in the future. Two of the companies with sign violations failed to file an annual applicator report. When PMAC chair and data migration expert Karen Snyder cross referenced the complaints with the applicator reports the committee discovered two companies who failed to report, but did so once contacted by a member of the PMAC.
 - 3) One of the sign violations, which occurred September 7, is notable because it occurred on city property. Troubh Ice Arena hired Waltham Pest Services to apply an exterior treatment of Termidor SC, active ingredient fipronil, to kill ants. The applicator failed to list the pesticide on the sign.
- *Summary of Portland SCF reports files included as Appendix C.*

PMAC Recommendations

Portland’s Pesticide Ordinance charges the Pesticide Management Advisory Committee (PMAC) with advising the Sustainability Coordinator and the Sustainability and Transportation Committee about pesticide use and providing recommended amendments to achieve full and successful implementation of the ordinance. In compliance with this charge the PMAC is pleased to make several recommendations this year.

Priority #1: Amend Current Pesticide Ordinance to be a Landcare Management Ordinance

The PMAC has carefully reviewed South Portland’s ordinance and also studied several others from New England communities.

The following are items from the South Portland Fertilizer Ordinance the PMAC highly recommends be included in the Portland Pesticide Ordinance:

- Rebrand the Pesticide Ordinance as the Landcare Management Ordinance, which encompasses the Pesticide Ordinance and the Fertilizer Ordinance.
- Change the name of the PMAC to the LMAC (Landcare Management Advisory Committee), which is a more comprehensive, appropriate name and objective for the committee.
- Include a section on new development/construction, which would require/consider the breaking up of compacted soils. (*South Portland started this effort only this year*).

- Include requirements for education and outreach by the LMAC.
- The City Council should expand the Portland Heritage Tree Ordinance to include the whole city, not just historic districts, and consider designating the LMAC to monitor implementation along with pesticides and fertilizers as part of a comprehensive organic landcare ordinance.

Priority #2: Amend the newly changed Landcare Management Ordinance (formerly pesticide ordinance) to include fertilizers

In 2016 the City Council created the Pesticide and Fertilizer Task Force to study whether the City of Portland should adopt an ordinance regulating the use of pesticides and fertilizers on public and private property in Portland. This group determined that issues surrounding the use of pesticides and fertilizers differed enough that they should be addressed separately. Because of this, they made recommendations about the regulation of pesticides and further recommended that a subsequent group take up the use of fertilizers.

Since that time, the City of South Portland has done extensive research into fertilizers, the impact improper use of them has on the environment, and has adopted an ordinance to regulate their use. South Portland staff worked with community stakeholders and industry representatives to develop recommendations that the South Portland City Council reviewed and, after the addition of some amendments, adopted. *(See Appendix D for sources)*

There are several deviations from the South Portland Fertilizer Ordinance that the PMAC recommends for the Portland Fertilizer Ordinance:

- Have the scope of the Portland Fertilizer Ordinance encompass property owners as well as commercial applicators.
- Have the scope of the Portland Fertilizer Ordinance encompass private property within City jurisdiction, as well as City-owned property.
- The majority of the PMAC believes the Fertilizer Ordinance should mirror the Pesticide Ordinance in scope of application surfaces. For instance, the South Portland Fertilizer Ordinance only applies to turf; whereas, their Pesticide Ordinance applies more broadly. The majority of the PMAC believes the Portland Fertilizer Ordinance should apply broadly to require organic fertilizer for all soil conditions--including gardens, flower beds, and soil surrounding trees. As appropriate, certain requirements, such as pounds per square footage and incorporation depths, will need to be made site and application specific to apply only to turfs.
- A Portland ordinance should emphasize site-specific conditions for amending and rehabilitating soils at construction sites and follow NOFA organic landcare approaches. These should be enforced during site inspections and a certificate of occupancy should not be given unless the soils at the construction site contain adequate organic material and nutrients to grow healthy plants.
- The South Portland Fertilizer Ordinance added a provision that allows for the application of the synthetic pesticide Chlorantraniliprole on athletic fields to control grubs. Several

members of the PMAC feel this would not be appropriate for Portland because Portland's ordinance prohibits pre-emptive applications and believe it would threaten the health of the soil and children. Other members believe that the Council should consider allowing limited use of acepryn because grubs are difficult to treat organically. Grub infestations can cause catastrophic damage to fields very quickly leading to unsafe conditions and significant costs to repair.

- Under the South Portland Fertilizer Ordinance, fertilizers may not be applied within 75 feet of a body of water, wetland, or other environmentally sensitive area. The PMAC suggests that a Portland Ordinance should mirror Maine's shoreland zoning language with specific distance from shoreline application requirements for different bodies of water:
- *The shoreland zone is comprised of all land areas within 250 feet, horizontal distance, of the normal high-water line of any great pond or river; upland edge of a coastal wetland, including all areas affected by tidal action, and upland edge of defined freshwater wetlands; and all land areas within 75 feet, horizontal distance, of the normal high-water line of certain streams.. [Title 38, §435: Shoreland areas \(maine.gov\)](#)*

Priority #3: Coordinate with partners in South Portland and other communities to educate the public and the landcare industry about organic and chemical free land care practices.

- Our neighboring communities including South Portland, Falmouth, and Scarborough have adopted ordinances governing the use of synthetic fertilizers and/or pesticides. This provides an opportunity to collaborate on education and outreach efforts to improve compliance with local policies and promote overall soil health. Working together will allow the pooling of resources and hopefully lead to more effective efforts than an individual community could achieve on their own. We have had success working with the Cumberland County Soil and Water Conservation in promoting their Yardscaping program. We should work more closely with our Stormwater Program because efforts to reduce inputs of fertilizers and pesticides help improve water quality by limiting run off.
- The PMAC fully supports South Portland's efforts in this area. Improper and excess use of fertilizers by homeowners and land care professionals results in excess nutrients entering local waterways stormwater discharges. In Casco Bay we see this resulting in algal blooms, lower oxygen content in coastal waters, and ocean acidification. In this regard, regulating pesticides aligns with the City's stormwater management goals and augments efforts to mitigate the effects of stormwater runoff on water quality. It would further demonstrate Portland's commitment to this effort to State and Federal regulators. For these reasons, the PMAC recommends that the City of Portland amend the Pesticide Ordinance to regulate the use and application of fertilizers on public and private property within City limits. This would help protect the health of soils, waterways, people, and wildlife. Such an ordinance should follow organic landcare practices as described by the Northeast Organic Farming Association and restrict unnecessary fertilizer applications.
- The Portland Landcare Management Ordinance should specifically emphasize (1) fertilizing in the first stages of life optimized based on type of plant, location, and

application; (2) increasing green space and soil within the city; and (3) the protection of trees. Overall, a holistic approach should be emphasized over specific products.

Priority #4 – Educate/Prohibit Products That Contains PFA Septage/Sludge.

- Educate Portland residents about PFAs and all related products.
- City of Portland recommends to ban all application of PFAS sludge and compost in Portland

The PMAC appreciates the opportunity to share its recommendations with the Sustainability and Transportation Committee and welcomes the opportunity to answer any questions.

**Appendix A:
2021 Commercial Annual Reports Submitted by City of Portland Riverside Golf Course
and Sea Dog Hadlock Field**

Commercial Applicator Annual Summary Report

Year
2021

Have you performed any applications for the selected year?

- Yes
 No

Company Name
CITY OF PORTLAND-RIVERSIDE GOLF COURSE

Main Office Address Details

Address Type	Address Line	Address Line 2	Address Line 3	City	State	Region	Zip Code	Country
Mailing Address	1158 Riverside St			PORTLAND	ME		04103	US
Physical Location	1158 RIVERSIDE ST			PORTLAND	ME		04103	US

Main Office Communication details

US Phone
(207) 808-5489

Secondary Phone
(207) 797-3524

Email
epp@portlandmaine.gov

Website

Main Office Contact Person

Contact First Name
Eugene

Contact Last Name
Pierotti

25B Product	Brand Name	EPA Registration	Weight/Volume	Target Site	Total Area	Category

No	ACELEPRYN INSECTICIDE	100-1489	2.450 gallons	Greens, Fairways	39 acres	3B Turf
No	PRIME SOURCE TEBUCANZOLE 3.6 SELECT	89442-1	0.650 gallons	Greens	3 acres	3B Turf
No	FERENCE INSECTICIDE	100-1551	1.000 gallons	greens	8 acres	3B Turf
No	SPEED ZONE BRDLF HERB FOR TURF	2217-833	43.400 gallons	Fairways and Roughs	115 acres	3B Turf
No	VELISTA FUNGICIDE	100-1534	24.750 pounds	Greens	18 acres	3B Turf
No	SECURE FUNGICIDE	71512-20-100	4.980 gallons	Greens and Fairways	29 acres	3B Turf
No	QUALI-PRO T-NEX PLANT GROWTH REGULATOR	53883-353	5.480 gallons	Fairways and Greens	128 acres	3B Turf
No	AFFIRM WDG	68173-3-1001	28.800 pounds	Greens	12 acres	3B Turf
No	MAXTIMA FUNGICIDE	7969-404	4.890 gallons	Greens and Fairways	24 acres	3B Turf
No	ASCERNITY FUNGICIDE	100-1477	2.000 gallons	Fairways	6.0 acres	3B Turf
No	LEXICON INTRINSIC BRAND FUNGICIDE	7969-350	3.120 gallons	Greens and Fairways	19.5 acres	3B Turf
No	CHIPCO 26019 FLO BRAND FUNGICIDE	432-888	3.500 gallons	Greens	2.5 acres	3B Turf
No	PRIME SOURCE CHLOROTHALONIL 720 SELECT	89442-9	1.000 gallons	Greens	1 acres	3B Turf
No	PROPLANT TURF & ORNAMENTAL FUNGICIDE	55260-9	2.000 gallons	Greens	4 acres	3B Turf
No	ALOFT LC G INSECTICIDE	59639-215	1.000 gallons	Fairway Perimeters	8 acres	3B Turf

No	ANUEW PLANT GROWTH REGULATOR	1001-91	7.750 pounds	Greens and Fairways	15 acres	3B Turf
No	XZEMPLAR FUNGICIDE	7969-349	2.760 gallons	Greens and Fairways	31 acres	3B Turf
No	NAVICON INTRINSIC BRAND FUNGICIDE	7969-403	1.230 gallons	greens	4 acres	3B Turf
No	STROBE 50WG	53883-343	12.000 pounds	Greens	6 acres	3B Turf

No		62719-542	7.750 gallons	Fairways and Roughs	62 acres	3B Turf
No	TALSTAR SELECT S INSECTICIDE	279-3155	1.000 gallons	Greens	5.88 acres	3B Turf
No	TRINITY FUNGICIDE	7969-257	1.700 gallons	greens	4 acres	3B Turf

2021 Commercial Applicator Report						
Sea Dogs Hadlock Field						
Pesticide Brand Name	EPA Reg #	Total Pounds/Gallons Undiluted Formulation	Total Area Treated (Acre, Sq Ft, # Trees, Homes, etc)	Total Area Treated (Units)	Target Pest	
Crew Specialty Herbicide	62719-742	325lbs (162.5lbs per acre)	2 acres	turfgrass	grassy and broadleaf weeds	
22-0-8 w/ Acelepryn Insecticide 0.067%	100-1492-52289	550lbs (225 lbs per acre)	2 acres	turfgrass	white grubs	
Xzemplar Fungicide	7969-349	22.8 oz	2 acres	turfgrass	brown patch and dollar spot diseases	
Maxtima Fungicide	7969-404	52 oz	2 acres	turfgrass	dollar spot and anthracnose diseases	
Instrata Fungicide	100-1231	5 gallons (2.5 gallons per acre)	2 acres	turfgrass	snow mold disease	

**Appendix B:
Pesticides Reported in City of Portland's
Commercial Applicator Annual Report**

22-0-8 w/ Acelepryn Insecticide 0.067%	Malice_ EPA Reg#34704-1009
Acelepryn Insecticide_ EPA Reg#100-1489	Masterline B Maxx_ EPA Reg#279-3206-73748
Activeguard Mattress Cover_ EPA Reg#82123-1	Max Force FC Ant Gel_ EPA Reg#73748-7
Advance Ant Gel Bait 388B_ EPA Reg#499-492	Maxforce Carp. Ant gel _ EPA Reg#73748-7
Advance C/A Bait_ EPA Reg#499-370	Maxforce Carpenter Ant Gel_ EPA Reg#432-1264
Advance Cockroach Gel Bait_ EPA Reg#499-507	Maxforce FC Ant Bait Station_ EPA Reg#432-1256
Advion Ant Bait Arena_ EPA Reg#100-1485	Maxforce FC Ant Killer Bait Gel_ EPA Reg#432-1264
Advion Ant Disc_ EPA Reg#100-1498	Maxforce FC Magnum Roach Gel_ EPA Reg#432-1460
Advion Ant Gel_ EPA Reg#100-1498	Maxforce FC Select Roach Gel_ EPA Reg#432-1460
Advion Cockroach Bait Arena_ EPA Reg#100-1486	Maxforce Fine Granular_ EPA Reg#432-1262
Advion Cockroach Gel_ EPA Reg#100-1484	Maxforce Fleet Ant Gel Bait_ EPA Reg#432-1264
Advion Evolution_ EPA Reg#100-1484	Maxforce Fleet Ant Gel_ EPA Reg#432-1262
Advion Fire Ant Bait_ EPA Reg#100-1481	Maxforce Fly Spot Bait_ EPA Reg#432-1455
Advion Roach Gel_ EPA Reg#100-1484	Maxforce Granular Fly Bait_ EPA Reg#432-1375
Affirm WDG_ EPA Reg#68173-3-1001	Maxforce Impact Roach Bait_ EPA Reg#432-1531
Aloft LC G Insecticide_ EPA Reg#59639-215	Maxforce Impact Roach Gel Bait_ EPA Reg#432-1460
Alpine Cockroach Gel Bait_ EPA Reg#499-507	Maxtima Fungicide_ EPA Reg#7969-404
Alpine D_ EPA Reg#499-527	MaxxPro_ EPA Reg#279-3206-73748
Alpine Flea_ EPA Reg#499-540	Mectinite_ EPA Reg#74779-17
Alpine Pressurized Fly Bait_ EPA Reg#499-568	MMR_ EPA Reg#6836-333
Alpine WSG_ EPA Reg#499-561	Mosquito Free_ EPA Reg#999999-25B-99999
Anuew Plant Growth Regulator_ EPA	Natural Catch Fruit Fly Trap_ EPA Reg#Exempt

Reg#499-561

Aprehend_ EPA Reg#1001-91

Navicon Intrinsic Brand Fungicide_ EPA Reg#7969-403

Arbor Tree-Age_ EPA Reg#100-1309-74578

Niban Granule_ EPA Reg#64405-2

Ascernity Fungicide_ EPA Reg#100-1477

Nibor D_ EPA Reg#64405-8

Avenger Weed Killer_ EPA Reg#82052-1

Nuvan Prostrips _ EPA Reg#5481-553

Avert DF Dry Flowable Roach_ EPA Reg#499-294

Nyguard IGR_ EPA Reg#1021-1833

Avert Dry Flowable_ EPA Reg#499-294

Nyguard_ EPA Reg#1021-1603

Azatin O_ EPA Reg#70051-9-59807

Omni Supreme Spray_ EPA Reg#5905-368

B Maxx Pro_ EPA Reg#279-3206-73748

Oneguard_ EPA Reg#1021-2807

Badge X2_ EPA Reg#80289-12

Onslaught FastCap_ EPA Reg#1021-2574

Bedlam Insecticide_ EPA Reg#1021-1767

Opti Gard Aut Gel_ EPA Reg#1021-2574

Bedlam Plus_ EPA Reg#1021-2569

OptiGard Cockroach Gel Bait_ EPA Reg#100-1290

Bell Contract Blox_ EPA Reg#1021-2569

P.I. Contact Insecticide_ EPA Reg#100-1290

Benefect Decon 30_ EPA Reg#84683-3-74771

PCQ Bait_ EPA Reg#12455-136

Bifen I/T 7.9_ EPA Reg#53883-118

Perma Guard - Zinsser Company Rustoleum_ EPA Reg#67197-4

Bifen I/T_ EPA Reg#53883-118

Phantom Pressurized_ EPA Reg#67197-4

Bifen P/L CSI_ EPA Reg#53883-124

Phantom Termiticide_ EPA Reg#67197-4

Bisect L_ EPA Reg#34704-955

Phantom_ EPA Reg#67197-4

Boractin_ EPA Reg#73079-4

Precor_ EPA Reg#2724-352

CB 80 Areocide_ EPA Reg#279-3393

PrimeSource Chlorothalonil 720 Select_ EPA Reg#2724-352

CB 80 Extra_ EPA Reg#9444-175

PrimeSource Tebucanzole 3.6 Select_ EPA Reg#89442-1

CB 80_ EPA Reg#279-3393

Pro-ketch mousetrap solid_ EPA Reg#Exempt

CB-80_ EPA Reg#279-3393

PRO-PELL Roden Repellant_ EPA Reg#Exempt

cg kick cg liquid_ EPA Reg#499-304

PROPLANT Turf & Ornamental Fungicide_ EPA Reg#Exempt

cg kick cg pressurized_ EPA Reg#499-303

Protecta Evo Express_ EPA Reg#Exempt

Chipco 26019 Flo Brand Fungicide_ EPA Reg#432-888	Protecta Rtu Mouse Station_ EPA Reg#55260-9
Cimexa_ EPA Reg#73079-12	PRS Post_ EPA Reg#119049
Conserve SC_ EPA Reg#62719-291	PRS Pre_ EPA Reg#119052
Conserve_ EPA Reg#8033-111-10163	PT Alpine Cockroach Gel Bait_ EPA Reg#499-507
Contrac ALL Weather Blox_ EPA Reg#12455-79	PT Alpine Pressurized Fly Bait_ EPA Reg#499-568
Contrac Blox_ EPA Reg#12455-79	PT Avert Dry Flowable_ EPA Reg#499-294
Contrac Pellets_ EPA Reg#12455-69	PT Fendona_ EPA Reg#499-569
Contrac with Lumitrack_ EPA Reg#12455-133	PT P.I. Contact Insecticide_ EPA Reg#499-569
Crew Specialty Herbicide_ EPA Reg#62719-742	PT Phantom II Aerosol_ EPA Reg#499-385
Criterion_ EPA Reg#432-1312	PT TriDie Aerosol_ EPA Reg#499-444
Cross Check Plus 0.06_ EPA Reg#279-3206-10404	PT Ultracide_ EPA Reg#499-404
Crossfire Aerosol_ EPA Reg#1021-2776	PT Wasp Freeze II_ EPA Reg#499-500
Crossfire_ EPA Reg#1021-2788	Pure Spray Green_ EPA Reg#69526-9
Cueva Fungicide_ EPA Reg#67702-2-70051	Pyrocide 100_ EPA Reg#1021-1424
Cyxmic CS_ EPA Reg#53883-389	Quali-Pro Bifenthrin I/T 7.9F_ EPA Reg#53883-118
Damoil_ EPA Reg#19713-123	Quali-Pro T-Nex Plant Growth Inhibitor_ EPA Reg#53883-353
Delta Dust D_ EPA Reg#432-772	Resolv Soft Bait_ EPA Reg#7173-297
Delta guard g_ EPA Reg#432-836	RMR_ EPA Reg#7173-297
Demand CS_ EPA Reg#100-1066	Rozol Tracking Powder White_ EPA Reg#7173-113
D-Fence SC_ EPA Reg#53883-276	Safari 20 SG_ EPA Reg#86203-11-59639
D-Foam_ EPA Reg#9444-227	Secure Fungicide_ EPA Reg#71512- 20-100
D-Force HPX_ EPA Reg#279-9554	Shock Wave RTU - Fiberlock Technologies_ EPA Reg#71512- 20-100
Dimension 2EW_ EPA Reg#62719-542	Shockwave_ EPA Reg#1021-1810
Ditrac Blox_ EPA Reg#12455-79	Snaptrap for mice_ EPA Reg#Exempt

Dominant 1% Liquid Ant Bait_ EPA Reg#64405-24	Spectre 2 SC_ EPA Reg#91234-24-53883
Drinne Dust_ EPA Reg#64405-24	Speedzone BRDLF Herbicide for Turf_ EPA Reg# 12217-833
Drione Dust_ EPA Reg#432-992	Sterifab_ EPA Reg#397-13
Eco Via MT_ EPA Reg#Exempt	Strobe 50WG_ EPA Reg#53883-3434
Eco Vin EC_ EPA Reg#Exempt	SUREKILL-FLUSHER_ EPA Reg#1021-1761
Ecovia EC_ EPA Reg#NA FIFRA 25(b) Product	Suspend Polyzone_ EPA Reg#432-1514
Ecovia MT_ EPA Reg#NA FIFRA 25(b) Product	Suspend SC_ EPA Reg#432-763
Ecovia WH_ EPA Reg#NA FIFRA 25(b) Product	Take Down Soft Bait_ EPA Reg#7173-304
Entrust_ EPA Reg#62719-282	Talstar PL Granular_ EPA Reg#279-3168
Essentia IC3_ EPA Reg#62719-282	Talstar Professional_ EPA Reg#279-3206
Essentria G_ EPA Reg#Exempt	Talstar Select S Insecticide_ EPA Reg#279-3155
Essentria IC3_ EPA Reg#Fifra 256 Exempt	Talstar Xtra_ EPA Reg#279-9552
Essentria IC4_ EPA Reg#FIFRA-25(b) Exempt	Talstar_ EPA Reg#279-3162
Essentria IC5_ EPA Reg#FIFRA-25(b) Exempt	Taurus Fipronil_ EPA Reg#58383-279
Exciter_ EPA Reg#89459-41	Taurus SC_ EPA Reg#53883-279
Fastrac All Weather Blox_ EPA Reg#12455-95	Tebuject 16_ EPA Reg#89442-1
Fastrac Pellets_ EPA Reg#12455-137	Tekko Pro IGR_ EPA Reg#53883-355
Fendona CS_ EPA Reg#499-570	Tempo 1% Dust_ EPA Reg#432-1373
Ference Insecticide_ EPA Reg#100-1551	Temprid FX_ EPA Reg#432-1544
Fiesta_ EPA Reg#67702-26	Temprid SC_ EPA Reg#53883-279
Final All Weather Blox_ EPA Reg#12455-89	Terad 3 AG_ EPA Reg#12455-116
Final BB_ EPA Reg#1245-89	Terad 3 BLOX_ EPA Reg#12455-106
Finalsan_ EPA Reg#67702-8-87865	Termidor SC_ EPA Reg#7969-210
First Strike_ EPA Reg#7173-258	Tick Killz_ EPA Reg#999999-25B-99999
Formus_ EPA Reg#12455-108	Transport GHP_ EPA Reg#8033-96-279
Generation Mini Block Blue (20 grm/block)_ EPA Reg#7173-288	Transtect Infusible_ EPA Reg#8033-96-279

Generation Mini Block_ EPA Reg#7173-218	Transtect WSP_ EPA Reg#8033-96-279
Gentrol Aerosol_ EPA Reg#2724-484	Trap Right MS_ EPA Reg#Exempt
Gentrol IGR_ EPA Reg#2724-351	Tree-Age G4_ EPA Reg#Exempt
Gentrol PointSource_ EPA Reg#2724-469	Triact 70_ EPA Reg#70051-2-59807
Glue Board for Mice_ EPA Reg#Exempt	TriDie Dust_ EPA Reg#70051-2-59807
Grub Gone_ EPA Reg#88347-2	Trinity Fungicide_ EPA Reg#7969-257
ILT Adhesive Pad_ EPA Reg#88347-2	ULD-BP 300 II_ EPA Reg#499-522
ILT Lightbulb_ EPA Reg#Exempt	Velista Fungicide_ EPA Reg#100-1534
Instrata Fungicide_ EPA Reg#7969-257	Vendetta Cockroach Gel Plus_ EPA Reg#1021-2593
Intice 10_ EPA Reg#73079-6	Vendetta Nitro Roach Bait_ EPA Reg#1021-2796
Intice Roach Bait_ EPA Reg#73079-5	Weatherblox XT_ EPA Reg#100-1055
Intice Smart Ant Gel_ EPA Reg#73079-9	Whitmore Wasp Freeze_ EPA Reg#499-550
Kocide 3000-0_ EPA Reg#91411-11-700513	Wisdom TC Flowable _ EPA Reg#548-520
Lesco Horticultural Oil_ EPA Reg#10404-66	Xytect 2F_ EPA Reg#42750-115-74779
Lexicon Fungicide_ EPA Reg#7969-350	Xzemplar Fungicide_ EPA Reg#42750-115-74779
Magnetic Roach Bait_ EPA Reg#54452-2	Zenprox_ EPA Reg#2724-804
	Zylam_ EPA Reg#2217-937

**Appendix C:
2021 Pesticide See-Click-Fix Reports**

scf #	Description
10161751	Notice was posted in only one place. This is a Portland Housing Authority property. Notice states that Erlich Exterminators are coming by today to administer pesticide applications for an ant issue on perimeter grounds of Franklin Towers @ the corner of Franklin St. & 211 Cumberland Ave.
10382580	I've witnessed a landscaper spraying roundup all around my neighbor's yard. I asked them if it was roundup and they confirmed that it was
10775808	This pesticide label has no actual pesticide product listed. I believe it is

	Cross Check Plus with an active ingredient being Bifenthrin.
11100814	Pesticide applied to city facility/property. Presumably hired by the city? Unclear what chemical(s) used. Gotta set a good example for the people if you want the ordinance to be practiced. Please let us know herein what the chemicals are once it's figured out.
11135954	The pesticide signs in Portland are NOT showing what pesticide has been sprayed
11214435	no description

**Appendix D:
Documents Which Informed Fertilizer Ordinance Recommendations South Portland
Landcare Management Ordinance**

- [South Portland Fertilizer Ordinance 2020](#)
- [Dover, NH Resolution, 2018](#)
- [Brunswick, ME Ordinance with Groundwater Provisions, 2017](#)
- [NOFA Standards and Best Practices, 2017](#)
- [Hyattsville, MD Best Practices, 2016](#)
- [Nantucket, MA Best Practices, 2013](#)