

ANNUAL REPORT - UNLISTED PESTICIDE USE
for the year 2023

Golf Course: Keystone Links Golf and Country Club

Address: 2402 Clifford Line Peterborough Ontario K9J 6X6

Email Address: kestonelinks@gmail.com

IPM Certified Agent(s): Tara DeBois, Chris Wilkinson

GC IPM #: 11-690

Tel: 705-876-8061

IPM Agent(s) Certification Number(s): 2845, 3056

Unlisted Pesticide Ingredient	Reason for Use	Total Quantity Unlisted Pesticide Ingredient Used (kg)		Reason for Increase/Decrease from Previous Calendar Year
		2022	2023	
chlorpyrifos	Ants	0.108	1.080	Full Green treatment early in the year. Only spot treatment previous year.
tebuconazole	Dollar Spot	3.84	2.400	Product Rotation (Mirage Stressgard)
fludioxonil	Snow Mold	0.9	1.800	Increased area treated including some parts of fairways that were subject to significant early season snow mold pressure in 2023.
2,4-D	Dandelion	2.85	.000	Dandelion was just below threshold on fairways, and above threshold in some rough areas, however the decision was made to hold off for 2023 and dandelion will need to be treated in 2024.

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dicamba	Dandelion	0.27	.000	Dandelion was just below threshold on fairways, and above threshold in some rough areas, however the decision was made to hold off for 2023 and dandelion will need to be treated in 2024.
mecoprop	Dandelion	1.5	.000	Dandelion was just below threshold on fairways, and above threshold in some rough areas, however the decision was made to hold off for 2023 and dandelion will need to be treated in 2024.
carfentrazone-ethyl	Silver Moss	0.005	.016	Increase in spot treatments. Significant increase with full greens treatment anticipated for 2024.
chlorantraniliprole	Japanese Beetle	0.12	.110	Same amount used, just slightly less due to no additional treatment required as applied slightly earlier in the year to impact larvae.

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trifloxystrobin	Dollar Spot	0.375	.250	Product Rotation (Exterris Stressgard)
fluopyram	Dollar Spot	0.375	.250	Product Rotation (Exterris Stressgard)
azoxystrobin	Dollar Spot	0.058	.000	Product Rotation (Heritage Maxx)
lambda-cyhalothrin	Ants	0	.001	Tiny increase due to a few more spot treatments than previous year.

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benzovindiflupyr	Snow Mold	0.09	.180	Increased area treated including some parts of fairways that were subject to significant early season snow mold pressure in 2023.
trinexapac-ethyl	Dollar Spot	NA	.306	New product (Primo Maxx) used to thicken turf to improved playability and prevent dollar spot
fluoxastrobin	Dollar Spot	NA	.672	Product Rotation (Disarm). Ineffective and resulted in significant disease pressure which increased amount of other products used to control dollar spot.
chlorothalonil	Dollar Spot	NA	10.000	Product (Daconil) used to control active dollar spot outbreaks.

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		2022	2023	
propiconazole	Dollar Spot	NA	.780	Product Rotation (Banner Maxx)
Isofetamid	Dollar Spot	NA	.600	Product Rotation (Kabuto)
Fluazinam	Dollar Spot	NA	1.200	Product Rotation (Secure). Used two applications late in the year to avoid late season disease pressure and thus having to include Heritage Maxx in snow mold treatment

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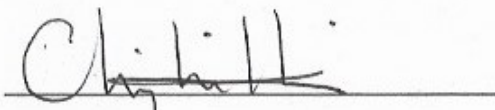
Please upload map(s) of the golf course showing the locations where unlisted pesticides were applied, and identify use by unlisted pesticide ingredient or by product type (fungicide, insecticide, herbicide, growth regulator)

Please explain how practicing integrated pest management (IPM) and maintaining IPM accreditation with the IPM Council of Canada minimized the use of pesticides on your golf course and how it will minimize use in this current calendar year.

In response to member feedback, our 2023 program once again placed a strong emphasis on greens quality. Our robust cultural program aimed to eliminate stressors to create strong turf with good pest resistance. The irrigation improvements made in 2022, coupled with a new moisture monitoring program for greens in 2023, allowed us to control green moisture levels through primarily morning watering and helped prevent stress due to drought and untimely watering. We retained a similar verti-cutting, aeration, and nutrition application schedule as in 2022 which had similar positive effects. We again rotated chemical products used for disease control to address potential chemical resistance in disease organisms. One product used this year on the greens did not have the desired results and required additional rotated products to manage systematic dollar spot. Japanese beetle did not affect green quality as much in 2023 due to an earlier treatment for this pest, however member and staff feedback indicated significant pest presence in the rough areas as we continue to eliminate insect breeding grounds by mowing areas previously maintained as tall links style fescue. Infiltration of silver moss onto greens continued in 2023 with a spot treatment program using Quicksilver herbicide that still caused some areas to get above threshold and affect putting quality. Areas with moss plaques were also targeted with spike aeration as to improve air flow into the affected root zones however had little effect. We continued to repair affected areas with topdressing and seeding to introduce competitive turf into dead plaque zones. A full chemical treatment program on greens for Silver moss is required in 2024. Perennial weed control continues to be a rotating program targeting only those areas with a high percentage of weed cover or where play is most impacted. Unlike previous years, no chemical perennial weed control was required in 2023 as remaining control from the 2021 and 2022 seasons, and frequent mowing during peak bloom periods reducing seed dispersion and maintained the pest under threshold. Overall the strategy of our program aimed to identify areas where conditions were deficient, and synchronize cultural practices, irrigation, nutrition, and pest control applications to build healthy turf in these key areas of play. Improvements in quality were noticeable to players and we will continue adapting our program into future seasons.

We, the undersigned, attest that the above information is accurate and inclusive of all pesticide products applied on our golf course for the entire year. We are aware that it is an offence under the Pesticides Act: 17(6) to include false or misleading information in any document or data required to be created, stored or submitted under the Act.

Primary IPM Certified Agent signature:

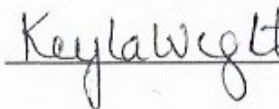


Date: 15-January-2024

Owner's representative name & position:

Keyla Wight, Owner

Signature:



Print hard copy for signatures. Signed Annual Reports must be scanned and uploaded in My IPM area of IPM Council of Canada website.