

**ANNUAL REPORT - UNLISTED PESTICIDE USE  
for the year 2023**

**GC IPM #:** 09-061

**Golf Course:** Camelot Golf and Country Club

**Address:** 906 Quigley Hill Rd. Cumberland Ontario K4C1H1

**Email Address:** aspove@camelotgolf.ca **Tel:** 613-833-0801

**IPM Certified Agent(s):** Chris Chapman, Antonio Bock **IPM Agent(s) Certification Number(s):** 1460,2976

Unlisted Pesticide Ingredient	Reason for Use	Total Quantity Unlisted Pesticide Ingredient Used (kg)		Reason for Increase/Decrease from Previous Calendar Year
		2022	2023	
trinexapac-ethyl	Used to control growth on greens.	0.19	.878	Used to improve playability of greens.
propiconazole	Used to control various diseases.	3.889	2.024	Used less on bentgrass areas in rotation with another product.
chlorothalonil	Used to control various diseases.	20.851	22.851	Not a significant change.
lambda-cyhalothrin	Used to control ant populations.	0.024	.100	There was an increase in ant hill populations this season.

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		2022	2023	
fludioxonil	Used to control snow mold.	9.515	8.615	Not a significant change.
trifloxystrobin	Used to control various diseases.	1.695	.480	Used less on fairways in rotation with another product.
carfentrazone-ethyl	Used to control silvery thread moss.	0.067	.262	New spray program this year due to limited success with hand removal the previous year.
bispyribac (sodium)	Used to reduce Poa Annua in bentgrass.	0.301	.234	Not a significant change.

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fluopyram	Used to control various diseases.	0.375	.000	Unused in rotation with another product on greens.
boscalid	Used to control dollar spot.	0.567	.000	Unused in rotation with another product on tees.
benzovindiflupyr	Used to control snow mold.	0.9	1.036	Not a significant change.
Fluazinam	Used to control various diseases.	8.28	14.880	Used more on fairways in rotation with another product.

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chlorantraniliprole	Used to control grubs.	1.758	3.504	Used on all acreage this season due to previous year's insect pressure.
Pydiflumetofen	Used to control dollar spot.	1.62	1.150	Used less on fairways in rotation with another product.
azoxystrobin	Used to control various diseases.	0.362	.969	Used on all greens this season in rotation with another product.
penthiopyrad	Used to control various diseases.	1.248	.000	Unused in rotation with another product on greens.

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glyphosate	Used to control weeds.	8.28	11.475	Used on more acreage to eradicate wild parsnip in fescue areas.
tebuconazole	Used to control various diseases.	5.225	1.900	Used less on fairways in rotation with another product.
2,4-D	Used to control broadleaf weeds.	40.945	42.940	Used on more acreage to eradicate wild parsnip in fescue areas.
dicamba	Used to control broadleaf weeds	3.879	8.076	Used on more acreage to eradicate wild parsnip in fescue areas.

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mecoprop	Used to control broadleaf weeds.	21.55	23.365	Used on more acreage to eradicate wild parsnip in fescue areas.
difenoconazole	Used to control various diseases.	NA	.743	Used on fairways in rotation with another product.
Isofetamid	Used to control dollar spot.	NA	1.600	Used on tees in rotation with another product.
deltamethrin	Used to control various insects.	NA	.075	Used in rotation with another product.

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dithiopyr	Used to control crabgrass.	NA	.285	Used to control crabgrass which had reached a threshold level.

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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.

By maintaining IPM Accreditation with the IPM Council of Canada, Camelot can have a positive impact on the environment around us now and for the future. We have always strived to minimize chemical applications, but IPM makes us rethink how we deal with pests and where we deal them as well. It helps educate people on different methods or thought processes on what and when to do something. It constantly keeps you focused on sustainable pest management and what we can do to maintain our turf quality with less frequent pesticide application. A good example of this is the recent introduction of our GPS sprayer. This will help us further reduce our pesticide totals due to the removal of the possibility of over applying on areas by minimizing operator error. In addition, the individual nozzle control from a full boom to an individual nozzle minimizes even more potential for overapplication. IPM has solidified the importance of bolstering cultural practices to encourage turf health. A healthier stand of turf will continually contribute to the reduction of pesticides.

*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:** 22-December-2023

**Owner's representative name & position:**

Andreas Spove, General Manager

**Signature:**



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