

ANNUAL REPORT - CLASS 9 PESTICIDE USE

for the year 2019

Golf Course: Tyandaga Municipal Golf Course

GC IPM #: 09-159

Address: 1265 Tyandaga Pk. Dr. Burlington Ontario L7P 1N1

Email Address: evan.coakwell@burlington.ca

Tel: 905-336-0006

IPM Certified Agent(s): Evan Coakwell

IPM Agent(s) Certification Number(s): 2339

Class 9 Pesticide Ingredient	Reason for Use	Total Quantity Class 9 Pesticide Ingredient Used (kg)		Reason for Increase/Decrease from Previous Calendar Year
		2018	2019	
iprodione	Dollar Spot, Anthracnose, Microdochium Patch, Brown Patch, Pink an Grey Snow molds.	23.84	15.360	let more visible disease be present.
triticonazole	Dollar Spot, Anthracnose, Microdochium Patch, Brown Patch, Pink and Grey Snow molds.	1.48	1.280	let more visible disease be present
trifloxystrobin	Dollar Spot, Anthracnose, Microdochium Patch, Brown Patch, Pink and Grey Snow molds	1.82	1.210	let more visible disease be present
trinexapac-ethyl	growth regulation for greens	0.242	.290	additional spray this season

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		2018	2019	
chlorothalonil	dollar spot, leaf spot, brown patch	10	10.000	no difference
2,4-D	broadleaf weeds	6.08	.000	did not spray for weeds this year
dicamba	broadleaf weeds	0.576	.000	did not spray for weeds this year
mecoprop	broadleaf weeds	3.2	.000	did not spray for weeds this year

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imidacloprid	grubs	0.69	.000	did not spray for grubs this season
tebuconazole	Dollar Spot, Anthracnose, Brown Patch	6	2.400	allowed some more visible disease to be present while monitoring
flupyram	dollar spot control	0.5	.250	allowed for more visible disease this season, one fewer application
carfentrazone-ethyl	moss control	0.637	.000	did not spray for moss this season

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		2018	2019	
Fluazinam	dollar spot control for fairways	4	.000	did not spray fairways this season for dollar spot
glyphosate	non selective control of weeds and grasses	0.18	2.700	sprayed weeds and grass in bunkers more than previous season
dithiopyr	crabgrass control	NA	.496	tees needed to be treated for crabgrass this year
pyraclostrobin	part of winter control application	NA	1.000	used a different chemistry for winter control last year

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We have been using IPM for many years at Tyandaga Golf Course to help minimize the use of pest control products. Scouting and monitoring the course environment from year to year enables us to develop methods of cultural controls to try and keep pest levels at a minimum. Part of our cultural control practices includes Aeration of playing surfaces, topdressing, verticutting, Overseeding, appropriate fertilizer timing. All of these things together help to promote root growth, discouragement of pests that want to invade, and help to provide overall better turf health and quality. We also use spot treatments and test areas where we do not spray products to try and see how to manage areas without the use of pesticides. We will continue to monitor and record historical data and keep our usage rates as minimal as possible.



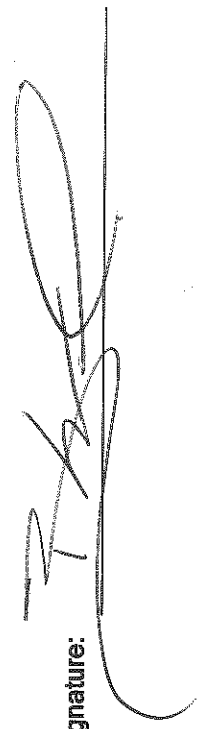
Primary IPM Certified Agent signature:

Date: 03-January-2020

Owner's representative name & position:

Brad Weake, Supervisor of Tyandaga Golf Course

Signature:



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