

**ANNUAL REPORT - CLASS 9 PESTICIDE USE  
for the year 2016**

Golf Course: Roanoke Golf Club

GC IPM #: 10-425

Address: 610 Biesenthal Road Petawawa Ontario K8A 6W7

Email Address: roanokepetawawa@gmail.com

Tel: 613-735-4444

IPM Certified Agent(s): Michael Zohr

IPM Agent(s) Certification Number(s): 1472

Class 9 Pesticide Ingredient	Reason for Use	Total Quantity Class 9 Pesticide Ingredient Used (kg)		Reason for Increase/Decrease from Previous Calendar Year
		2015	2016	
triticonazole	This chemical was used to help reduce and or prevent Grey and Pink Snow Moulds.	0.79	.691	I have a slight reduction in the use of this chemical for several reasons. I was very careful when applying spray to reduce any overlap of spray with the use of blue spray dye for greater visibility. I also tried not to spray much beyond the greens surface. It would be great to spray a larger area around the green so that the whole area is in better shape in the spring however the added expense and larger chemical usage are both undesirable outcomes.
propiconazole	This chemical is used to help prevent Dollar Spot Fungus on our greens.	0.306	.178	I have a decrease in the use of this chemical in an attempt to control Dollar Spot while using minimal amounts of this chemical. At this reduced rate and with the conditions of the past summer the fungus was well controlled.
pyraclostrobin	This chemical was used to help reduce and or prevent Grey and Pink Snow Moulds.	0.392	.367	I have a slight reduction in the use of this chemical for several reasons. I I was very careful to when applying spray in an effort to reduce both overlap and spray gaps with the use of spray dye. I was also careful not to spray much beyond the greens surface.

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propamocarb hydrochloride	This chemical was used in 2015 because we had a large outbreak of Phythium Fungus.	2.729	.000	I did not have a serious outbreak of Phythium in 2016 so therefore I did not treat for it.
imidacloprid	This Chemical was not used in 2015 but in hind-sight I probably should have treated some of the questionable areas while they were still only a small issue.	NA	.540	This increase is because it is the first time I have treated for grubs using this chemical.

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At the end of our seventh year in the I.P.M. program I am amazed at yet another year of record breaking extremes. 2017 was hotter and dryer than any in recent history and the difficulties in maintaining a healthy turf environment becomes a serious challenge. Even with extra efforts with irrigation we have suffered turf loss on some greens and fairways due to normal turf stresses becoming magnified due to extreme drought. No-one can predict the seasons ahead so we are continuing to install irrigation to areas that previously did not have any and better drainage in areas that are historically wet. Both of these very different actions are critical in creating a healthy turf better able to withstand pressures placed upon it by extreme conditions ( Drought, Temperatures, Insects ). This past season with the compound pressures placed upon our turf I for the first time used an insecticide to help control a grub problem on our course. With the assistance of previous I.P.M. records I was able to better target problem areas and potential high value areas while minimizing our chemical usage in an attempt to maintain some sort of a balance with this insect. In 2017 I will work closely with the superintendent to implement any added mechanical care to our greens not only to repair damage on them but to also help reduce stresses we place upon them through from regular daily maintenance. We will also continue with our nutrient program on our greens which in its second year has proven successful in eliminating the need for a second application of fungicide against "Dollar Spot" when conditions for infection were ideal. This past season we sustained very little damage to our greens from "Dollar Spot" with again a reduced amount of fungicide applied compared to the season of 2016. Golf courses will always have challenges in maintaining healthy turf environments, with I.P.M. as a road-map these challenges can be reduced and overcome. We continue to look at all factors involved as we search for positive outcomes, for not only us but the environment when dealing with pests and extreme conditions. We must evaluate each situation, come to a logical conclusion and act appropriately (mechanically, Culturally or Chemically )while always minimizing chemical dependency as we strive to maintain a healthy turf environment suitable for the game of golf.

**Primary IPM Certified Agent signature:** \_\_\_\_\_

**Date:**

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

**Signature:**

  
\_\_\_\_\_  
President.

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