

TABLE 1 - GOLF COURSE IPM 2018 ANNUAL REPORTS OF PESTICIDE USAGE																	
C	P	ACTIVE INGREDIENT NAME (as of October 28 2019)	B	B	C	D	G	M	P	P	R	S	F	H	I	I	G
#			a	l	r	u	a	o	u	o	o	o	u	n	n	n	n
			t	u	e	e	b	n	s	s	s	s	n	c	c	c	c
			e	a	s	s	e	t	e	e	e	e	e	e	e	e	e
			a	s	s	s	s	s	s	s	s	s	s	s	s	s	s
			x	u	e	e	e	e	e	e	e	e	e	e	e	e	e
87		MECOPROP (p-ISOMER) PRESENT AS AMINE SALTS															
86		MECOPROP (p-ISOMER) PRESENT AS POTASSIUM SALT															
89	A	Mesotrione															
90		METALAXYL-M AND S-ISOMER															
91		METALDEHYDE															
92		METAM															
93	A	Metconazole															
94		METIRAM															
95		METSULFURON METHYL															
96		MYCLOBUTANIL															
97		NALED															
98		NAPROPAMIDE															
99		OXINE BENZOATE															
100		OXYCARBOXIN															
101		PARAQUAT															
103		PERMETHRIN									0.004		0.010				
104		PHOSALONE															
121	R	PIRIMICARB															
122		PROPAMCARB															
107		PROPOXUR															
108		PROPYZAMIDE															
109	A	Pydiflumetofen															
112		PYRETHRINS															
111	A	Pyroxasulfone															
113		QUINTOZENE															
114		RESMETHRIN															
115		ROTENONE															
117	A	Safluenacil															
132		SCIMITAR TO CONTROLANTS															
118		SIMAZINE PLUS RELATED ACTIVE TRIAZINES									10.000	10.000	0.010				
116		S-METOLACHLOR															
119		SPINOSAD															
120		TETRAMETHRIN PLUS RELATED ACTIVE COMPOUNDS															
121	A	Thiabendazole															
122	A	Thiamethoxam															Y
124		THIOPHANATE-METHYL															
123		THIRAM															
125		TRICLOPYR															
127		TRIFLURALIN									0.200						
128		TRIFORINE															
131		ZINEB															
146		TOTAL KGs USED	167.291	354.945	26.740	92.711	556.265	219.244	579.640	1,996.836	100.00%			1,757.8	126.5	108.8	3.7
147																	
148		Course Type	Public	Private	Public	Public	Private	Public	Private					88.0%	6.3%	5.4%	0.2%
149		Public	506	25%													
150		Private	1,491	75%													
151		Total	1,997	100%													

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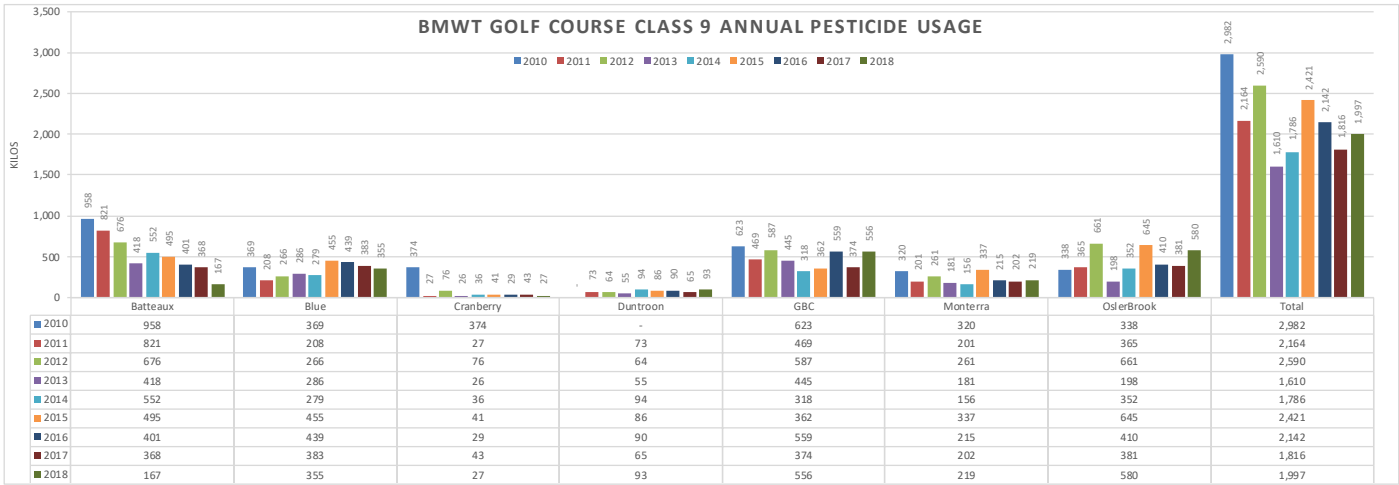
C9P #	Added/Removed	ACTIVE INGREDIENT NAME (as of October 28 2019)	RANK	Bateaux	Blue	Cranberry	Duntroon	GBC	Monterra	OslerBrook	KG USED	PERCENT OF TOTAL	TYPE
25		CHLOROTHALONIL	1	96.00	239.73		30.56	388.16	24.25	416.92	#####	59.88%	F
78		IPRODIONE	2	-	5.68	-	15.36	9.36	92.60	5.12	128.12	6.42%	F
67		FOSETYL-AL	3	12.20	25.31				56.79	24.00	118.31	5.92%	F
106		PROPICONAZOLE	4	19.39	35.89	3.09	4.44	23.61	1.01	30.21	117.65	5.89%	F
23		CHLORPYRIFOS	5	1.44			9.60	36.67	10.08	12.96	70.75	3.54%	I
1		2,4-D PRESENT AS ACID	6	0.57		2.28	19.00	17.35		27.13	66.33	3.32%	H
58		FLUDIOXONIL	7	12.62	10.95		0.82	23.14		6.49	54.01	2.70%	F
88		MECOPROP (p-ISOMER)	8	0.30		1.20	10.00	9.13	2.25	16.53	39.41	1.97%	H
102		PENTHIOPYRAD	9					17.41		10.92	28.33	1.42%	F
57	A	Fluazinam	10	12.32				16.00			28.32	1.42%	F
38		DICAMBA PRESENT AS ACID, AS DIETHANOLAMINE SALT ...	11	0.05	14.04	0.22	1.80	1.64		2.57	20.32	1.02%	H
130		TRITICONAZOLE	12	-		11.52		0.74	6.85		19.11	0.96%	F
126		TRIFLOXYSTROBIN	13	5.25	1.08	0.22	0.96	1.25	8.79	0.82	18.37	0.92%	F
	???	Tebuconazole (use reported but not a C9P - C1P, C2P, C3P))	14					2.40	12.84	2.40	17.64	0.88%	F
20		CARBARYL	15		14.40						14.40	0.72%	I
61	A	Fluopyram	16	5.25	0.41			0.75	3.79	0.50	10.70	0.54%	F
75		IMIDACLOPRID	17		3.61		0.07	1.70		5.32	10.70	0.54%	I
69		GLYPHOSATE ACID	18					3.22		7.02	10.24	0.51%	I
105		PROPAMOCARB HYDROCHLORIDE	19							8.19	8.19	0.41%	F
17		BOSCALID	20			4.70		-		-	4.70	0.24%	F
129		TRINEXAPAC-ETHYL	21	0.64	2.14	0.20	0.10	0.22		0.42	3.71	0.19%	GH
15	A	Benzovindiflupyr	22	1.05	0.90			1.44			3.39	0.17%	F
12		AZOXYSTROBIN	23		0.79			-		1.44	2.23	0.11%	F
110		PYRACLOSTROBIN	24			2.00				-	2.00	0.10%	F
29		CLOTHIANIDIN	25					1.33			1.33	0.07%	I
24		CHLORANTRANILIPROLE	26					0.69		0.50	1.19	0.06%	I
62	A	Fluoxastrobin	27			1.13				-	1.13	0.06%	F
22		CARFENTRAZONE-ETHYL	28	0.21				0.05		0.18	0.44	0.02%	H
79		LAMBDA-CYHALOTHRIN	29			0.19					0.19	0.01%	I

Ranking Class 9 Pesticide Use - 2018 vs 2017

C9P #	A/R	2018			TYPE	2017			Change (KG)	
		ACTIVE INGREDIENT NAME (as of October 28 2019)	Rank	KG USED		ACTIVE INGREDIENT NAME	KG USED	Rank	KG	%
25		CHLOROTHALONIL	1	1,195.6	F	CHLOROTHALONIL	1,083.0	1	112.6	10%
67		FOSETYL-AL	3	118.3	F	FOESTYL-AL	25.3	7	93.0	367%
23		CHLORPYRIFOS	5	70.8	I	CHLORPRIIFOS	16.6	10	54.2	327%
102		PENTHIOPYRAD	9	28.3	F				28.3	-
57	A	Fluazinam	10	28.3	F				28.3	-
38		DICAMBA PRESENT AS ACID, AS DIETHANOLAMINE SALT ...	11	20.3	H				20.3	-
58		FLUDIOXONIL	7	54.0	F	FLUDIOXONIL	37.3	6	16.7	45%
1		2,4-D PRESENT AS ACID	6	66.3	H	2,4-D	58.7	4	7.6	13%
106		PROPICONAZOLE	4	117.6	F	PROPICONAZOLE	110.2	3	7.5	7%
130		TRITICONAZOLE	12	19.1	F	TRITICONAZOLE	21.8	9	-2.7	-13%
88		MECOPROP (p-ISOMER)	8	39.4	H	MECOPROP	45.5	5	-6.1	-13%
126		TRIFLOXYSTROBIN	13	18.4	F	TRIFLOXYSTROBIN	24.8	8	-6.4	-26%
78		IPRODIONE	2	128.1	F	IPRODIONE	323.4	2	-195.3	-60%

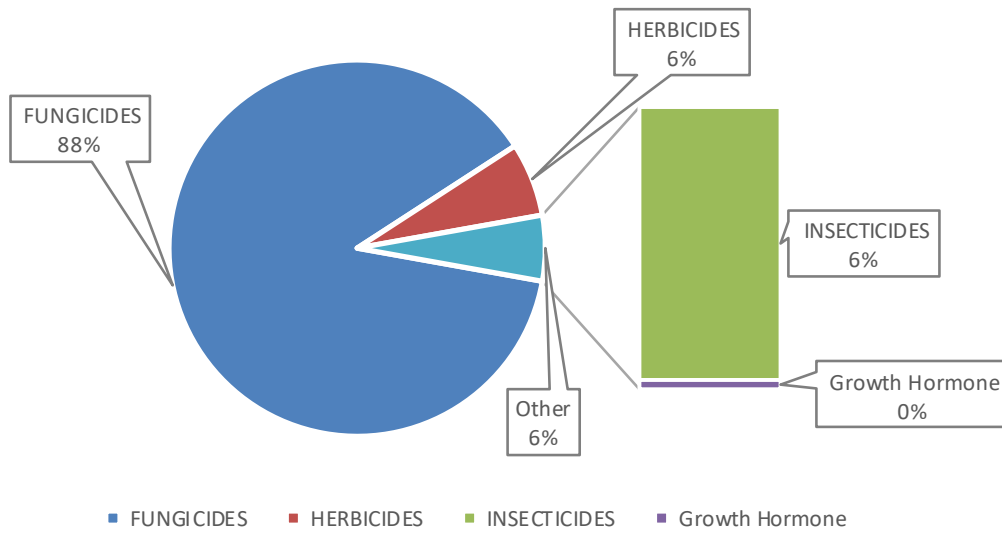
Class 9 Pesticide by Type - 2018 vs 2017

2018					2017					Change				
FUNGICIDES	HERBICIDES	INSECTICIDES	Growth Hormone	Total	FUNGICIDES	HERBICIDES	INSECTICIDES	GH	Total	FUNGICIDES	HERBICIDES	INSECTICIDES	GH	Total
1,757.8	126.5	108.8	3.7	1,996.8	1,664.4	118.6	28.0	4.8	1,815.9	93.4	7.9	80.8	-1.1	180.9
88.0%	6.3%	5.4%	0.2%	100.0%	91.7%	6.5%	1.5%	0.3%	100.0%	-3.6%	-0.2%	3.9%	-0.1%	10.0%



Blue Mountain Watershed Golf Courses Class 9								
Year	1	2	3	4	5	6	7	Total
Year	Batteaux	Blue	Cranberry	Duntroon	GBC	Monterra	OslerBrook	Total
2010	958	369	374	-	623	320	338	2,982
2011	821	208	27	73	469	201	365	2,164
2012	676	266	76	64	587	261	661	2,590
2013	418	286	26	55	445	181	198	1,610
2014	552	279	36	94	318	156	352	1,786
2015	495	455	41	86	362	337	645	2,421
2016	401	439	29	90	559	215	410	2,142
2017	368	383	43	65	374	202	381	1,816
2018	167	355	27	93	556	219	580	1,997
Average	539.5	337.8	75.4	77.5	477.0	232.6	436.4	2,167.5
Median	495.0	354.9	35.8	79.5	468.9	214.6	381.0	2,141.9
Maximum	958.4	455.3	373.7	94.2	623.1	337.3	660.7	2,982.2
Minimum	167.3	208.0	26.2	55.1	317.5	156.1	197.6	1,609.6

Pesticide Breakdown by Type 2018



2017 Top 10 Class 9 Pesticides			
CHLOROTHALONIL	1083	1	YES
IPRODIONE	323	2	NO
PROPICONAZOLE	110	3	NO
2,4-D	59	4	YES
MECOPROP	45.47	5	NO
FLUDIOXONIL	37	6	NO
FOESTYL-AL	25	7	NO
TRIFLOXYSTROBIN	25	8	NO
TRITICONAZOLE	22	9	NO
CHLORPRIIFOS	17	10	YES