

Spotted Wing Drosophila Monitoring Report and Updates for Southern Interior of British Columbia

Spotted Wing Drosophila (SWD) monitoring results for soft fruit, berries and table grapes (June – November, 2010)

Area	Original # of traps in Area	# of traps in area (Nov 4 - 10)	# of Sites with +ve Captures to Date	Number of Spotted Wing Drosophila																				
				June 17 - 23	June 24 - 30	July 1 - 7	July 8 - 14	July 15 - 21	July 22 - 28	July 29 - Aug 4	Aug 5 - 11	Aug 12 - 18	Aug 19 - 25	Aug 26 - Sept 1	Sept 2 - 8	Sept 9 - 15	Sept 16 - 22	Sept 23 - 29	Sept 30 - Oct 6	Oct 7 - 13	Oct 14 - 20	Oct 21 - 27	Oct 28 - Nov 3	Nov 4 - 10
Salmon Arm	4	0	3	0	0	0	0	0	0	0	0	8	0	10	0	4	0	2	done	done	done	done	done	done
Vernon	8	1	3	0	0	0	0	1	0	1	1	1	3	0	6	7	2	3	10	5	28	11	10	4
Oyama	27	11	11	2	2	4	3	12	20	5	0	6	23	52	67	50	30	109	320	559	194	94	309	192
Carr's Landing	10	0	5	0	0	0	1	0	3	0	2	1	0	0	5	0	2	1	done	done	done	done	done	done
Winfield	24	5	15	0	0	0	1	1	5	12	9	13	56	37	87	62	128	89	30	133	96	168	660	237
Ellison	4	0	3	0	0	0	0	1	1	1	0	3	4	11	6	7	1	3	done	done	done	done	done	done
Glenmore	7	1	3	0	0	0	0	1	0	0	2	0	7	3	0	3	6	3	4	9	8	18	10	26
Rutland	10	1	10	0	0	0	0	0	7	4	1	5	6	36	5	26	1	42	4	22	6	18	0	9
Belgo	13	1	13	0	1	0	0	4	6	2	7	7	23	27	32	50	8	26	3	9	14	5	3	2
East Kelowna	24	1	14	1	1	0	2	1	9	2	5	17	9	11	15	11	9	36	2	1	8	4	23	13
SE Kelowna	15	4	11	0	1	0	4	1	8	8	6	19	36	17	34	30	16	12	35	14	37	7	50	37
Mission	23	11	13	0	10	4	8	0	3	5	6	11	35	92	136	214	207	644	301	898	1324	647	2731	1644
Westbank	14	4	14	2	2	0	11	13	22	14	17	10	65	48	96	84	57	25	171	211	120	84	100	532
Peachland	2	0	2	0	0	0	0	1	1	1	3	0	5	2	1	7	2	5	done	done	done	done	done	done
Summerland	24	0	24	0	1	11	8	34	30	14	17	23	8	50	78	done	done	done	done	done	done	done	done	done
Naramata	10	0	8	0	0	2	1	10	3	2	15	23	4	28	18	done	done	done	done	done	done	done	done	done
Penticton	13	0	7	0	0	0	0	3	2	1	5	12	10	69	9	done	done	done	done	done	done	done	done	done
Oliver (to Road 9)	23	7	18	0	0	1	1	4	1	8	9	18	48	187	63	89	94	94	277	279	338	799	900	1448
Oliver (Road 9 to 19)	15	5	6	0	0	0	0	2	1	0	5	9	29	80	97	200	146	196	135	203	197	216	99	73
Keremeos	12	2	12	0	0	0	0	8	16	40	10	19	52	171	66	130	201	201	254	266	228	498	118	192
Cawston	11	3	9	0	0	0	0	11	18	16	7	6	14	83	40	77	64	64	259	176	161	161	240	165
Osoyoos	31	9	21	0	0	0	0	0	1	5	6	29	67	130	110	370	96	78	141	226	186	478	490	182
Creston	25	6	4	0	0	1	0	0	0	0	0	0	2	3	0	1	3	1	0	0	0	0	0	0
Total	349	72	229	5	18	23	40	108	157	141	133	240	506	1147	971	1422	1073	1634	1946	3011	2945	3208	5743	4756
SWD/Trap				0.01	0.05	0.07	0.11	0.31	0.45	0.4	0.38	0.69	1.72	3.84	3.31	5.43	4.6	7.1	26.3	40.7	40.3	43.3	79.8	66
Male/Female Ratio				0.05	7:11	10:13	18:22	48:60	61:96	66:75	65:68	129:111	261:245	708:440	559:412	900:522	765:308	1088:546	1289:657	2170:841	2049:896	2383:825	3333:2490	2755:2001
Percent females				100	61	56	55	55	61	53	51	46	48	38	42	37	29	33	34	28	30	26	43	42

Comments

- **Spotted wing drosophila adults have been reared from Oregon grapes, black currant and blue elderberry** (Howard Thistlewood, AAFC- Summerland)
- SWD have been captured in traps placed outside orchards in chokecherry, wild seedling cherry, mahaleb cherry, Saskatoon berry, Mulberry tree and backyard gardens.
- Spotted wing drosophila have been captured in traps from grocery stores, fruit stands, a city park, a Provincial park, outside a packing house, and from traps around cull and compost piles.

Management recommendations for BC tree fruit and grapes

http://www.agf.gov.bc.ca/cropprot/swd_surveillance.pdf

Management recommendations for BC berries

http://www.agf.gov.bc.ca/cropprot/swd_management.pdf

Spotted wing drosophila identification guide

http://www.agf.gov.bc.ca/cropprot/swd_identification.pdf

Coastal BC trapping results

http://www.agf.gov.bc.ca/cropprot/swd_trapresults.pdf

Management of cull fruit

http://www.agf.gov.bc.ca/cropprot/swd_sanitation.pdf

Monitoring and Data Collection by:

Okanagan Tree Fruit Cooperative Staff and Summer Students, Private Consultant, and Agriculture and Agri-Food Canada (Summerland) Research Scientists.

Report submitted on behalf of Spotted Wing Drosophila Subcommittee by:

Susanna Acheampong Ph.D.
Ministry of Agriculture and Lands, Kelowna
(250) 861 7230