

The British Columbia Gypsy Moth Detection Story, 1911-2020

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1911 to 1989					
YEAR	EGG MASSES **	LARVAE	ADULTS TRAPPED	NO. OF SITES	COMMENTS (bold text indicates areas treated the following year)
1911*	8	Few		0	On <i>Thuja</i> (cedar) trees imported from Japan, eggs hatched after interception
1978	40		5	1	Egg masses found on canoe in Kitsilano
1980			1	1	Male trapped at Tsawwassen
1981			1	1	Single male in Kitsilano
1982*	Few	Few	10	4	European males in Fraser Valley, Vancouver; Asian egg masses found on vessel at Vancouver, eggs hatched after interception
1983	34		38	5	Egg masses at Ft. Langley & Courtenay
1984	33	Few	35	5	First trap capture in interior (Adams River); European egg masses at Chilliwack & Courtenay
1985	3		17	4	Egg masses at Chilliwack
1986	21		24	8	Egg masses at Chilliwack & Kelowna
1987	43		259	6	33 egg masses, 38 females & 27 pupae at Kelowna ; 7 egg masses at Colwood ; 3 new, 29 old egg masses Parksville
1988		11	7		
1989*	81	Few	27	11	One egg mass and a pupa found at Parksville ; 80 Asian egg masses found on ship at Victoria.

1990-1999					
YEAR	EGG MASSES **	LARVAE	ADULTS TRAPPED	NO. OF SITES	COMMENTS (bold text indicates areas treated the following year)
1990*	>236	Few	147	16	36 egg masses & 12 females in North Saanich ; hundreds of Asian egg masses, some hatching larvae and 15 dead females on vessel.
1991*	>2000	>1000	81	24	Thousands of Asian egg masses on ships, eggs hatching and larvae ballooning in Vancouver harbour; 29 grain ships infested, ban effected; 23 Asian males trapped around port of Vancouver.
1992*	>120	Few	165	33	European egg masses on Salt Spring Island (9), Hope (3) , 8 new, 1 old egg mass & 3 females in Richmond; 16 ships banned when Asian egg masses (>100) and some hatching larvae found
1993*	25		142	17	European egg masses (19) at Victoria, Hope, Nanaimo, South Vancouver & Whiskey Creek , 2 females at Hope; single Asian males at Victoria & Surrey, 4 egg masses on vessel; 2 egg masses, 1 dead male found associated with military equipment from Germany, possible hybrids.
1994*			39	8+	European moths captured at 8 separate locations including: Nanaimo (5) ; Gabriola Is. (2); Burnaby (2) and Victoria (2). Populations present at Hope (8) and Chilliwack(15) epicentres. Asian males recovered in Langley (1); Surrey (3)
1995*			38	14+	European moths captured at 14 locations including: 2 sites in greater Victoria; Sproat Lake on Vancouver Island; Mission; and 8 locations around greater Vancouver. A new population epicenter was found in New Westminster (12 males). Single Asian moths were captured at two locations in greater Vancouver.

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1996	3		52	11+	Low numbers of European gypsy moth males captured in the Esquimalt (2) and Langford (8) areas of greater Victoria; 2 moths present in Nanaimo; 27 moths captured at New Westminster epicentre discovered in 1995. Three live and 4 hatched egg masses, 1 pupa and 3 female found at New Westminster site. No Asian males captured anywhere in the province.
1997	82		260	14+	Increased numbers of European moth captures at Esquimalt (60) and Langford (147) ; first captures at Knockan Hill (3) in greater Victoria. First capture of moths in Duncan (6). Egg masses laid in 1997 discovered in association with Langford and Esquimalt populations during searches and 1998 treatment program.
1998	>50	>1 000	585	10+	Moth captures in the Esquimalt, Langford and Knockan Hill areas of greater Victoria increase to total 503 European males; male captures increase in the Duncan (33) and Nanaimo (8) areas. Three males captured in both Richmond and near Tsawwassen (1) . Egg masses present at Duncan (12), Nanaimo (1) and Tsawwassen (1). Hatching egg masses and feeding larvae discovered during inspections conducted as part of ground spray efforts in Langford. Single male moths were also recovered from Richmond, N. Delta, and, the most northern catch ever recorded in B.C., near Kitwanga in northwestern British Columbia.
1999	15	-	44	9	CFIA located moths in Comox (6), Duncan (1), Victoria (1), the Highlands (2), Burnaby (23) , Kelowna (2), Sechelt (5), Chilliwack (1) and North Delta (3). The moths found in Comox, the Highlands, Burnaby, Kelowna, Sechelt, Chilliwack and North Delta were not in the 1999 aerial spray zones. Egg masses were only located in Burnaby.

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2000-2009

YEAR	EGG MASSES **	LARVAE	ADULTS TRAPPED	NO. OF SITES	COMMENTS (bold text indicates areas treated the following year)
2000	3	-	23		Chilliwack (2), Kelowna (1), Coquitlam (1), Vancouver (1), Oak Bay (1), Sechelt (9), Delta (8)
2001	‡	-	11		Chase (1), Grand Forks (1), Mission (1), Langley (1), Delta (3), Sooke (1), Saanich (1), Victoria (2)
2002	-	-	15	7	Courtenay (2), Saanich (2), Colwood (1), Delta (6), Chilliwack (1), Kal Beach (1), Mabel Lk. (2)
2003	18	-	100	16	Lower Mainland: Abbotsford (2), Burnaby (2), Chilliwack (1), N. Delta (43, 15 egg masses), Langley (4), N. Vancouver (1), Richmond (1), Vancouver (1) Vancouver Is.: Campbell R. (1), Duncan (3), Gabriola Is. (4), Gordon Head (Saanich) (33, 2 egg masses), Nanaimo (1), Oak Bay (1), Sooke (1), View Royal (1)
2004	0	-	89	14	Langley (4), Burnaby (1), Chilliwack (2), Harrison Hot Springs (4), Vancouver (2), Courtenay (1), Nanaimo (5), Gabriola Island (22 mt), Duncan (24 mt), Saltspring Island (7), Sidney (1), Esquimalt (3) and Victoria (Saanich, Oak Bay and Vic West)(12). No egg masses found
2005	2 on Salt Spring, 1 in Nanaimo, 1 in Saanich and 1 non-viable (unfertilized) egg mass on Gabriola Is.	-	135	22	Maple Ridge (1), Langley (3 mt), Cloverdale (2), Surrey (1), Delta (4), Burnaby (3), Coquitlam (1), Silver Ck. (1), Courtenay (8), Nanaimo (11), Gabriola Is. (19 mt), Saltspring Is. (43), Duncan (2 mt), Sidney (8), Central Saanich (1), Christmas Hill (1), Esquimalt (1), Colwood (1), Saanich (17 mt), Cedar Hill (6), and Oak Bay (1)
2006	4 at Cedar Hill Golf Course(Saanich), 1 non-viable in Sidney, 1 Belmont Park (Colwood)	-	153	15	Grand Forks (1), Harrison Lk. (1), Chilliwack (1), White Rock (1), Delta (Annacis Is.)(2), Saanich (3), Courtenay (39), Sidney (22 mt), Colwood (7), Lk Cowichan (1), Mill Bay (1), Ladysmith (6), Nanaimo (1), Cedar Hill Golf Course (32 mt), Saltspring Island (35 mt)
2007	-	-	45	15	Saltspring Island (13 - 10 in mt grid), Saltair (Ladysmith)(10 - 6 mt), Lake Cowichan (5), Shawnigan Lk (1), Prospect Lk (1), Delta (2), Burnaby (1), White Rock (1), Harrison Hot Springs (6), Langley (5) Back to the TOP
2008	100	-	33	17	Chilliwack (1), Harrison Hot Springs (16), Richmond (2), S. Surrey/White

					Rock (3), Delta (3), Langley (2), Vancouver (2), Burnaby (1), Victoria (2), Creston (1)
2009	7	-	30	24	Richmond (10) , North Vancouver (2), Harrison (5) , White Rock (5), Vancouver (1), Abbotsford (2), Langley (1), Duncan (1), Comox (1), Chemainus (1), Shawnigan Lake (1)

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2010 to present					
YEAR	EGG MASSES **	LARVAE	ADULTS TRAPPED	NO. OF SITES	COMMENTS (bold text indicates areas treated the following year)
2010	0	-	12	9	Harrison (1), Port Moody (1), North Vancouver (2), Comox (4), Nelson (2), Revelstoke (2)
2011	0	-	6	6	Revelstoke (1), Victoria (2), Richmond (1), Surrey (1), Chilliwack (1)
2012	0	-	3	3	Kaslo (1), Sooke (1), Delta (1)
2013	0	-	13	12	Shawnigan Lk (4), Surrey (3), Richmond (1), New Westminster (1), Langley (3), McLeese Lk (1)
2014	10+	10+	214	28	Surrey(197) , Delta (7) , Aldergrove (1), Golden Ears Park (1), N. Surrey (4), Saanich (1), Colwood (1), Comox (1), Trail (1)
2015	0	0	31	22	1 Parksville (1), Saanich (3), Courtenay (4), Vancouver (1*)(1), N. Van (1), Coquitlam (1), Langley (2), Delta (1), Mission (2), N Surrey RV park (9), Fleetwood (1), Maple Ridge (1), Surrey (2 in spray block), Armstrong (1)
2016	0	0	36	12	Agassiz-Kent (1), N. Surrey (14) , Vancouver (1), Campbell R (2), Courtenay (1), Langford (2), Saanich (14)
2017*	0	0	93	30	Agassiz (8) , Pt Coquitlam (1), N. Surrey – Fraser Heights (51) , Surrey – Guilford (4), Surrey – Johnson Heights (2), Richmond (1), Victoria (1), Arbutus Ridge (3), Spectacle Lk (1), Cowichan (1*), Courtenay (11) , Campbell R. (8) ,

					Queen Charlotte City (1)
2018	0	0	55	22	N. Surrey – Fraser Heights (41) , Crescent Beach (3), Chilliwack (1), Castlegar (3), Campbell River (1), Courtenay (3), Lake Cowichan (2)
2019	0	0	58	35	N. Surrey-Fraser Heights (14) , Lake Cowichan (21) , Metchosin (3), Saanich (1), Maple Ridge (3), Annacis Island (1 *), Hope (1), Castlegar (13) , Revelstoke (1)

2020 to present					
YEAR	EGG MASSES **	LARVAE	ADULTS TRAPPED	NO. OF SITES	COMMENTS (bold text indicates areas treated the following year)
2020	0	-	51	28	Burnaby (3), Vancouver (2), West Vancouver (1), Coquitlam (6), Surrey (7), Langley (2), Maple Ridge (10), Mission (5), Chilliwack (1), Penticton (1), West Kelowna (2), Big White (1), Castlegar (1), Campbell R (1), Courtenay (5), Metchosin (1), Saanich (1), North Saanich (1)
2021	1	-	176	91	Oak Bay (1), Esquimalt (2), Saanich (1), Victoria (3), View Royal (11), Colwood (2), Saltspring Island (6), Duncan (1), Lake Cowichan (10), Youbou (7), Gabriola Island (1), Nanoose/Lantzville/Nanaimo (22), Parksville (1), Qualicum Beach (2), Sproat Lake (1), Port Alberni (4), Bowser (4), Denman Island (1), Courtenay (12), Comox (1), Campbell River (1), North Vancouver (1), West Vancouver (2), Langley (6*), Surrey (11), Burnaby (19), Delta (2), Coquitlam (10), Maple Ridge (1), Mission (8), Chilliwack (9), Harrison Mills (1), Sechelt (1), Madeira Park (3), Squamish (1), Penticton (1), Canoe (1), Sicamous (2), Revelstoke (1), Prince George (1)
2022	1 in Port Alberni, 3 in Campbell River		359	44	Armstrong (1), Bowser (8), Burnaby (4), Campbell R (33) , Chilliwack (1), Clearwater (1), Central Saanich (1), Colwood (16) , Comox (19) , Courtenay (49) , Cowichan Lk. (2), Cowichan Bay (11), Cranbrook (1), Delta (15*), Duncan (2), East Saanich (1), Esquimalt (12) , Kamloops (1), Kelowna (1), Langford (3), Langley

					(5), Madeira Park (4), Maple Ridge (4), Metchosin (1), Nanaimo (6), North Saanich (1), Port Alberni (56), Quadra Is. (5), Qualicum Beach (7), Richmond (1), Rossland (1), Saanich (13), Salmon Arm (5), Salt Spring Is. (16), Sicamous (4), Sidney (1), Squamish (10), Surrey (4), Texada Is. (1), Victoria (4), View Royal (14), Westbank (5), Whistler (6), Youbou (3)
2023***	1 in Nanaimo	0	411	51	<p> Armstrong (1) Bear Mountain (1) Belmont (32) Bowser (6) Burnaby (Cascade heights)(1) Burnaby (Robert Burnaby Park)(1) Campbell River (4) Cassidy (3) Courtney (1) Courtney (Dove Creek) (4) Cowichan Bay (11) Cranbrook (34) Delta East (airport) (1) Delta West (1) Esquimalt (12) Esquimalt base (1) Galiano Island (1) Glenn lake (2) Kamloops (29) Langford Bellamy rd (1) Langford Mill Hill (1) Langley (10) Metchosin (1) Metchosin Mountain (1) Millstream East (1) Millstream Falcon heights (1) Nanaimo (Glenn oaks) (1) Nanaimo (Hammond) (36) Nanaimo (Rock City) (1) Nanaimo South (1) Nanaimo South (Cedar) (2) Nanaimo South (extension) (1) North Burnaby (2) NW Saanich Ardmore (21) Okanagan Falls (1) Peachland (1) Port Alberni (Town) (1) Quadra Island (7) Qualicum Beach (9) Saanich Albion rd (1) Saanich Cedar Hill (2) Saanich Hector rd. (1) Saanich Marigold park (2) Saanich Panama flats (1) Saanich Rosedale park (1) Saanich West Saanich Rd. (2) Salmon Arm (3) Saltspring Core (17) Saltspring Vesuvius (1) Saturna Island (1) Shawnigan Lake (1) </p>

					Sicamous (2) Squamish (6) Sunshine Coast (1) Surrey (Bear Creek) (1) Surrey (Mud Bay) (2) Surrey (Newton) (3) Tsawwassen (87) Victoria Fort St. (1) View Royal (16) View Royal Myra Place (1) West Bank (12)
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* Denotes years in which gypsy moths of Asian origin were detected (see comments)

** Does not include old (emerged) egg masses.

mt = mass trapping at 9 traps per acre = 5,760 traps/sq.mi.

*** - positive trap location sites are aligned with CFIA database records. Previous years areas were combined and assigned to the closest common geographic location name.

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