

The British Columbia Gypsy Moth Detection Story, 1911-2010

1911-1989 > [1990 - 1999](#) > [2000 - 2009](#) > [2010 - present](#)

| 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. Back to the TOP |

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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. |

[Back to the TOP](#)

| 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](#)

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| 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) |

[Back to the TOP](#)

| 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) |

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| 2017 | 0 | 0 | 93 | 30 | Agassiz (8) , Pt Coquitlam (1), 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) |
|------|---|---|----|----|---|

* 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.

[Back to the TOP](#)