

Detailed History of Gypsy Moth Eradication Treatments in British Columbia (1999 – 2018)

Maps of treatment areas are available on the gypsy moth web site.

Year	Treatment Location	Details
1999	Victoria 12,203 ha Blocks A-1 & B-1	The 1st spray was completed on May 10th. The 2nd spray was partially completed on Thursday MAY 20th and the remaining 5 lines were completed on May 21st. A single diagonal line from Langford Lake to Goldstream was also completed. Parts of A-1 and A-2 around Goldstream, Cole Ck. Valley required a touch up spray. The 3rd spray was completed successfully on Wed. June 9th.
	Block A-2 & B-2	The 1st spray was completed on May 9th. The 2nd spray was completed on Wednesday May 19th. A touch up spray was done on Friday May 21st. The start of the 3rd spray was rain delayed on Monday, June 7th. The 3rd spray was completed on June 8th. One extra line was added over the Helmecken Rd. area which is normally included in B-1. Touch-ups in the Langford Lake and Cole Ck. area were completed on Wed. June 9th.
	Brentwood 602 ha	The 1st spray was completed on May 9th. The 2nd spray began on Wednesday May 19th but only completed half of the area. Spraying will resume on Thursday May 20th. The 3rd spray was completed on Tues., June 8th.
	Duncan 429 ha	The 1st spray was completed on Monday May 10th. The 2nd spray was originally planned for Friday May 21st but was moved up to the 20th due to a rain in Nanaimo. The 3rd spray was completed on June 9th.
	Nanaimo 164 ha	The 1st spray was completed on Monday May 10th. The 2nd spray was completed on for Friday May 21st following the completion of Duncan. The 3rd spray was completed on June 9th.
	Tsawwassen 51 ha	On May 7th, a 51 ha block (incorporating a small strip of unoccupied crown land and Tsawwassen Indian Band land) on the mainland was added to the spray operation. The 1st spray was completed on Tuesday May 11th. The 2nd spray was completed on Friday May 21st. The 3rd spray was completed at 5:19 a.m. on June 10th.

Year	Treatment Location	Details
2000	Burnaby 279.5 ha	<p>Aerial Spray</p> <p>Application 1 (May 5-8, 2000)</p> <p>The first of up to four sprays began on May 5th but due to a rain delay was only able to complete about one-third of the area. Completion of the area was delayed again by wet weather on Saturday, May 6th. Low lying fog caused a delay in Sunday morning's spray and only allowed completion of one-third of the spray zone. The final third of the first spray was completed on Monday, May 8th at about 6:20 am under ideal conditions.</p> <p>Application 2 (May 15-16)</p> <p>Spraying began at about 5:20 am, Monday May 15th under ideal</p>

		<p>conditions. The spray ended at about 7:00 am with about 80% of the area completed. Completion of the spray occurred at 5:30 am on Tuesday, May 16th.</p> <p>Application 3 (final) (June 1)</p> <p>Spraying began at about 5:05 am and was completed at 7:25 am. A slight delay was caused by ground fog which later lifted allowing the entire spray area to be completed.</p>
2001	N. Delta 34 ha	Ground Spray – conducted by Ministry of Agriculture and Food and the BC Landscape Nursery Association

Year	Treatment Location	Details
2004	Saanich - (Mt. Douglas Park/ Gordon Head) 570 ha	<p>Aerial Spray</p> <ul style="list-style-type: none"> • Application 1 - Day 2 of the 2-day treatment of the Mt. Douglas/Gordon Head (Saanich) site was conducted on May 1st from 5:30 AM until 7:30 AM. The first day of spraying was completed on Friday, April 30th. • Application 2 - was completed on Thursday, May 13 and Friday, May 14th under ideal weather conditions. • Application 3 - final application completed on Monday, May 24th, . Spraying began at dawn (about 5 AM) and was completed by 6:30 AM under ideal weather conditions. Day 1 or the 2 day treatment was completed from 5 AM to 7 AM, Sunday, May 23rd under ideal weather conditions. Rain and wind postponed the spray originally scheduled for Sat., May 22nd.
	N. Delta spray 23 ha	<p>Aerial Spray</p> <ul style="list-style-type: none"> • The first application was completed between 6 and 6:30 AM on April 29th. • The second application was completed successfully on Friday, May 7th. Spraying occurred between 5:45 AM and 6 AM. • The third (final) application was completed on Sunday, May 16th, between 5:20 AM and 6 AM.

Year	Treatment Location	Details
2006	Saanich (Cedar Hill X Rd. centred on Merriman Dr.) 9 ha	<p>Ground Spray</p> <p>Wed., May 3rd - First treatment completed (8:30 AM to 5 PM)</p> <p>Thur., May 18th, Second Treatment completed (8:30 AM to 3:45 PM)</p> <p>Tues., May 30th - Third Treatment completed (8:00 to 3 PM)</p>
	Salt Spring	Ground Spray

	Island (Fulford-Ganges Rd. centred on Lee Rd.) 43 ha	First treatment completed on Wed., May 10th and 11th Second treatment completed on Tues., May 23rd (8AM - 4:30 PM) and Wed., May 24th (8 AM to 1 PM). Third Application: Mon., June 5th (8 AM to 5:30 PM)
	Nanaimo (Hammond Bay Road near Parkway Drive) 10 ha	Ground Spray Tues., May 16th - first treatment completed (8:30 AM to 2:10 PM) Thurs., May 25th - 2nd treatment completed (8 AM to 12:15 PM) Wed., May 31st - 3rd treatment completed (8 AM to 12 PM)
<p>SPRAY FORMULATIONS</p> <p>Two different Btk formulations were used in 2006. Saanich and Nanaimo were sprayed with Foray 48B. Dipel 2XDF was used on Salt Spring Island since it is an acceptable product for maintaining organic farm certification of two farms in the spray zone.</p> <p>OTHER TREATMENTS</p> <p>Both the Nanaimo and Salt Spring Island treatment areas were also be mass trapped in summer 2006. Mass trapping of several other sites was also done in S. Duncan, Gabriola Island, Saanich (Cedar Hill Golf Course), Sidney and Langley</p>		

Year	Treatment Location	Details
2007	Victoria/ Saanich (Cedar Hill Rd. South of the Cedar Hill Golf Course) 14 ha	Ground spray Three applications of Foray 48B. Following discussions with residents a compromise was reached to offer treatment of properly identified properties with Dipel 2XDF instead of Foray 48B for the second and third treatments. FIRST APPLICATION: Treatment was completed on May 7th 2:30 PM SECOND APPLICATION: May 22nd - the treatment was completed at 5 PM. THIRD APPLICATION: completed at 3:35PM on Monday, June 4th. Mass Trapping High density grid established in Summer, 2007.
	Salt Spring Island (Fulford-Ganges Rd. centred on Lee Rd.) 10 ha	Ground spray Three applications of Dipel 2XDF from late April to early June, depending on weather and insect growth rates. FIRST APPLICATION: Completed at 2 PM on May 15th SECOND APPLICATION: Completed at 1 PM on Thursday, May 31st.

		<p>THIRD APPLICATION: completed at 3:35PM on Friday, June 8th.</p> <p>Followed with an application of a mass trapping grid centred over the ground spray treatment site</p>
	Courtenay 210 ha	<p>Aerial spray of 210 ha.</p> <p>Three applications of Foray 48B from late April to early June, depending on weather and insect growth rates. Note that the boundary in the NE corner of the treatment zone was recently modified.</p> <p>FIRST APPLICATION: completed on May 17th. The spray began at 5:30 AM and was completed at 7:23 AM.</p> <p>SECOND APPLICATION: completed on Wed., May 30th.</p> <p>THIRD APPLICATION: completed at 7 AM, Thursday, June 7th.</p>
	Belmont Park, Colwood 18 ha	<p>Ground spray</p> <p>Three applications of Foray 48B from late April to early June, depending on weather and insect growth rates.</p> <p>FIRST APPLICATION: The first treatment was completed at 5 PM (May 14th)</p> <p>SECOND APPLICATION: The treatment was completed at 4:05 PM on May 28th</p> <p>THIRD APPLICATION: Completed after 4 PM on Thursday, June 7th.</p> <p>Mass Trapping High density grid established in Summer, 2007.</p>
	Sidney	<p>Mass Trapping High density grid established in Summer, 2007.</p>
	Saltair (Ladysmith).	<p>Mass Trapping High density grid established in Summer, 2007.</p>

Year	Treatment Location	Details
2008	Saltspring Island 7.4 ha	<p>Ground spray</p> <p>Three applications of Foray 48B.</p> <p>FIRST APPLICATION: The first application was completed at 2 PM on Thursday, May 22nd. The treatment began at about 8:25 AM.</p> <p>SECOND APPLICATION: The second application was completed on Wednesday June 4th from 8 AM to 2PM.</p> <p>THIRD APPLICATION: The third (final application) has been completed. The treatment began at 8 AM on Thursday, June 12th and was finished at ~11 AM under ideal weather conditions.</p>

		<p>Mass Trapping</p> <p>High density trapping grid was established in Summer, 2008 by volunteers from the community.</p> <p>RESULTS: No moths were caught in the mass trapping grid indicating that the ground spray was a success.</p>
	<p>Saltair (Ladysmith) 13.3 ha</p>	<p>Ground spray</p> <p>Three applications of Foray 48B.</p> <p>FIRST APPLICATION: The first application was completed on Wednesday, May 21st. The treatment began at about 8:00 AM and was completed at about 3 PM.</p> <p>SECOND APPLICATION: The second application started at ~8 AM, Monday, June 2nd and was completed by 2:50 PM.</p> <p>THIRD APPLICATION: The third (final) application began at 7:50 AM on Wed., June 11th and was completed at 2:25PM the same day.</p> <p>Mass Trapping</p> <p>High density trapping grid was established in Summer, 2008.</p> <p>RESULTS: No moths were caught in the mass trapping grid indicating that the ground spray was a success.</p>
	<p>Lake Cowichan</p>	<p>Mass Trapping</p> <p>High density trapping grid was established in Summer, 2008.</p> <p>RESULTS: No moths were caught in the mass trapping grid which meant that this particular population has died out.</p>
<p>SPRAY FORMULATIONS</p> <p>A recently revised formulation of Foray 48B was used in both treatment sites. This formulation is permitted to be used on certified organic farms and gardens by being Organic Materials Review Institute (OMRI) Listed</p>		

Year	Treatment Location	Details
2009	<p>Harrison</p> <p>329 ha</p>	<p>Aerial Spray</p> <p>Application 1 began at 5:26 AM on Sunday, May 10th and ended at 7 AM, and covered about 75% of the treatment area. Though it takes two mornings to treat the area due to the size and terrain involved, the second morning was cancelled due to very poor weather.</p> <p>Application 2 - the second day of the second round of treatments was completed on Friday, May 22nd between 5:10 AM and 6:10 AM under ideal conditions. This completes the treatment that began on Thursday, May 21 (5 AM to 7 AM) under excellent weather conditions.</p>

		Application 3 began on Saturday, May 30th at 5:08 AM, ending at 7:28 AM, was completed on Sunday, May 31st. Spraying took place from 5:10 AM to 6:20 AM.
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Year	Treatment Location	Details
2010	Richmond 766 ha	<p>Aerial Spray of 766 ha Application 1</p> <ul style="list-style-type: none"> • Day 1 - The first round of sprays (completed over 4 mornings) began on Friday, April 30th at 5:30 AM to 7:30 AM. • Day 2's spray was completed on Wednesday, May 5th. Spraying took place from 5:30 AM to 7:15 AM. Treatments will be starting from the Eastern edge of Landsdowne Mall and moving West and also from the Garden City Lands, moving East. • Day 3's treatment ended at 7 AM (started at 5:27 AM) Thursday, May 6th. The plan was to complete the remaining lines near the Eastern and Western boundaries of the block (Gilbert and Shell Roads) however high winds ended the treatment early (7AM) • Day 4 - was completed from 5:21 to 5:47 AM on Friday, May 7th. Treatment line were all West of No. 3 Road to Gilbert Rd.
		<p>Application 2</p> <ul style="list-style-type: none"> • Day 1 - Round 2 began at 5:15 AM and ended at 7:15 AM on Thursday, May 13th under ideal conditions. Treatment will follow the same pattern as in Round 1 with the first morning's spraying focussed on the centre of the block along Garden City Rd. • Day 2 - began at ~5:10 AM Friday, May 14th; ending at 6:45 AM due to restrictions by airport air traffic control. Treatment continued from Day 1's lines West of Landsdowne Mall and East of the Garden City Lands to Shell Road. • Day 3- The remaining few lines were completed on Saturday, May 15th from 5:16 AM to 6:09 AM. Treatment was focussed on the East and West boundaries of the block East of Gilbert Rd and West of Shell Rd.
		<p>Application 3</p> <ul style="list-style-type: none"> • Day1 - Round 3 began at 5 AM Wednesday, May 26th starting at the centre of the Garden City lands, moving west towards Landsdowne Mall. Unfortunately, rain halted the treatment at 6:20 AM and only the western half of the Garden City Lands to Garden City Road were completed. • Day 2 - resumed at ~5:30 AM but ended early due to airport traffic conflicts at 6:20 AM. This morning's treatment only managed to cover several lines situated west of Garden City Road to Landsdowne Mall. • Day 3 - Treatment resumed at 5 AM on Sunday, May 30th after rain delays on Friday, May 28th and Saturday, May

		<p>29th. Treatment ended at 6:30 AM. Treatment covered from west of Landsdowne Mall (No. 3 Rd) to just East of Minoru Blvd and from the middle of the Garden City Lands to the intersection of Cambie Rd. and Hwy 99.</p> <ul style="list-style-type: none"> • Day 4 - treatment of the remaining lines resumed on Tuesday, June 1st at 5 AM and was completed at 5:55 AM Treatment started on lines east of the intersection of Hwy 99/Cambie Rd. to Shell Rd and then moved to the lines west of Minoru Blvd to Gilbert Rd. This was the final treatment.
	Harrison Ground Spray 25 ha	<ul style="list-style-type: none"> • Application 1 was completed on Tuesday May 4th • Application 2 started at ~8AM on Friday, May 14th • Application 3 was completed on Sunday, May 30th. The residential areas were not treated

Year	Treatment Location	Details
2015	Surrey 4,576 ha Delta 204 ha	<p>Aerial Spray of 204 ha (Delta) and 4,576 ha (Surrey) Application 1</p> <ul style="list-style-type: none"> • Day1 - Wednesday, April 15, 5:50 -7:30 AM. Treatment begins in Surrey-Cloverdale • Day 2 - Thursday April 16, 5:45 - 7:30 AM. The 204 ha Delta spray block's first treatment was treated on Thursday, April 16 from about 5:45 to 6:55 AM; Surrey-Cloverdale treatment continued. • Day 3 - Friday, April 17, 5:50 - 7:30 AM. Treatment resumed • Day 4 - Saturday, April 18, 5:50 - 7:30 AM. Treatment resumed • Day 5 - Sunday, April 19, 5:50 - 6 AM. The first round of treatments in Surrey-Cloverdale was completed following the spraying of a critical 300 m strip that remained untreated along 170th and 171st Streets. The treatment took only 6 minutes.
		<p>Application 2</p> <ul style="list-style-type: none"> • Day 1 - Monday, April 27 - 5:15 AM - Postponed due to wet weather. • Day 2 - Tuesday, April 28 - 5:50 - 7:30 AM. The second round of treatments in Surrey-Cloverdale began following the same pattern as done on April 15th. • Day 3- Wednesday, April 29 7:30 AM. This morning's treatment began with a single line along 196th Street that was missed on Tuesday morning. The pilot then continued to treat west of 188th Street. One aircraft treated Delta from 5:30 to about 6:30 AM and then it moved back to resume treatment of the western portion of the Surrey block starting around 149th. Weather conditions were ideal. • Day 4 - Thursday, April 30, 5:20 AM - 7:30 AM. The 3rd morning of 4 treatments was completed this morning under ideal conditions.

		<p>The most western portion of the Surrey-Cloverdale block was completed from about 149a St to 146th St, then moved up to begin treating the Fleetwood area. The aircraft working the eastern portion of the block continued working westward starting from about 182nd Street. The third helicopter continued working westward in the agricultural area.</p> <ul style="list-style-type: none"> • Day 5 - Friday, May 1, 2015 4:55 AM - The treatment this morning was cancelled due to precipitation • Day 6 - Saturday, May 2, 5:30- 6:45 AM. This morning's treatment completed the Fleetwood area and the remaining portions from 162A St to 172B St and the agricultural area in the central portion of the Surrey-Cloverdale treatment block
		<p>Application 3</p> <ul style="list-style-type: none"> • Day1 - Sunday, May 10th, 5 AM to 7:30 AM. The application followed the same pattern as in the previous two rounds. One aircraft started working from 156th Street moving westward to 148th Street. The second aircraft began at 196th Street and worked westward and treated up to 186th Street. The third aircraft continued working over the agricultural area. • Day 2 - Monday, May 11th, 5 AM to 7:25 AM. The second morning of treatments completed the Delta spray block. No further treatments will be done in Delta. The treatment resumed from where Sunday's application ended in Surrey-Cloverdale from 5AM but was cut short by a few minutes due to an unexpected rain squall that passed through the block. A decision will be made later today to determine if some lines will have to be re-treated. The western portion of the block was nearly completed with only a few lines left east of 144th street between 146a Street to just west of 148th Street while the eastern portion of the block was treated from about 185th Street to the Cloverdale Fairgrounds (179a Street). The third helicopter continued treating the agricultural area in the central portion of the block. • Day 3 - Tuesday, May 12th, 5AM to 7:30 AM. The Surrey-Cloverdale treatment was completed this morning ending the 2015 Gypsy Moth Eradication program. The three helicopters completed the remaining sections of the Surrey-Cloverdale block. The areas treated were from 146a to 148th streets, from about 180th moving west to 163rd Streets, the Fleetwood area (76th and 78th Streets), and the remaining portion of the agricultural area from the Northview Golf and Country Club to Surrey Lake. The eastern helicopter started the morning with a re-treatment of the last few lines treated on Monday along 180th because of the surprise rain squall Monday.
	<p>Surrey (Mound Hill Park) 26 ha</p>	<p>Ground Spray 26 ha</p> <ul style="list-style-type: none"> • First Application - completed on April 9 • Second Application - completed April 27 • Third Application – completed May 11

Year	Treatment Location	Details
2017	Surrey 26 ha	<p>Ground Spray of 26 ha North Surrey(South approach to the Port Mann Bridge)</p> <ul style="list-style-type: none"> • First Application: COMPLETED on Wednesday, May 10th ~8AM to 2:30 PM. • Second Application: COMPLETED, Tuesday, May 23rd - 8AM to 2 PM • Third Application: COMPLETED, Wednesday, May 31st - 8 AM to 12:30 PM
	Bear Hill (Saanich) 182 ha	<p>Aerial Spray of 182 ha – Bear Hill Regional Park (Saanich)</p> <ul style="list-style-type: none"> • First Application: COMPLETED. 5:30 to 7:19 AM, Thursday, May 18th, 2017. • Second Application: COMPLETED on Friday, May 26th (5:20AM to 6:36 AM) • Third Application: COMPLETED on WEDNESDAY, June 7th (5:30 AM to 7:10AM)
2018	Courtenay 94 ha	<p>Aerial Spray of 92 ha – Courtenay (Comox Valley Regional District)</p> <ul style="list-style-type: none"> • First Application – COMPLETED - 6:00 AM to 6:42 AM, Monday, May 14th • Second Application – COMPLETED – 6:04 to 6:45 AM, Tuesday, May 22nd • Third Application – COMPLETED – 5:44AM 6:15 AM, Thursday, May 31st
	Agassiz 41 ha	<p>Ground Spray of 41 ha – Agassiz (Kent)</p> <ul style="list-style-type: none"> • First Application – COMPLETED - 8:00 AM to 6:00 PM, Friday, May 4th: • Second Application – COMPLETED – 8:00 AM to 5:00 PM, Wednesday, May 16th • Third Application – COMPLETED – 8:00 AM 5:00 PM, Thursday, May 24th
	Campbell River 45 ha	<p>Ground Spray of 45 ha – Campbell River</p> <ul style="list-style-type: none"> • First Application – COMPLETED - 8:00 AM to 6:00 PM, Tuesday, May 15th: • Second Application – COMPLETED – 8:00 AM to 5:00 PM, Wednesday, May 23rd • Third Application – COMPLETED – 8:00 AM 5:00 PM, Thursday, May 31st
	North Surrey 62 ha	<p>Ground Spray of 62 ha – North Surrey (Port Mann/Guildford)</p> <ul style="list-style-type: none"> • First Application – COMPLETED - 8:00 AM to 6:00 PM, Tuesday, May 8th :

		<ul style="list-style-type: none"> • Second Application – COMPLETED – 8:00 AM to 5:00 PM, Thursday, May 17th • Third Application – COMPLETED – 8:00 AM 5:00 PM, Monday, May 28th
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Year	Treatment Location	Details
2019	Surrey 62.2 ha	<p>Aerial Spray of 62.2 ha North Surrey(South approach to the Port Mann Bridge)</p> <ul style="list-style-type: none"> • First Application: completed at about 7:15 AM on Wednesday, May 1, 2019. The treatment took about 45 minutes to complete under ideal conditions. • Second Application: Completed on Monday, May 13th - it began at ~5:40 AM under perfect weather conditions. The operation ended at ~6:45 AM • Third Application: The third and final aerial gypsy moth spray for North Surrey began on Thursday, May 23, 2019 at around 5:20 a.m. and was completed at 6:22 a.m. The weather conditions were ideal and no issues were reported.