Insecticides for Commercial Use Labeled for Control of Spotted Lanternfly in New York State Pesticide Name (s) and EPA Reg. No(s). Active Ingredient(s) Application species/crops and labeling types Commercial Use (Agriculture, Arborists, Landscape Professionals Transtect 70WSP (59639-170-74779) SLN NY-170007 Ailanthus (tree-of-heaven) only outdoor landscapes (commercial, industrial, recreational and residential), parks, schools, cemeteries, airport grounds, military Zylam () 891 (2217-937) SLN NY-120020 dinotefuran hasal hark snrav SLE grounds, golf courses, woodlots, athletic fields, forests (National, Private and State) and other wooded areas. Zylam, Transfert: max Safari 205G (86203-11-59639) SIN NY-120008 one application/year: Safari: max 2 applications/tree/year Ailanthus (tree-of-heaven) only Use sites on primary label include forests, woodlands, ornamental landscapes such as residential and commercial settings, median NYS Dinocide (7946-35) SIN No. NV-190007 dinotefuran trunk injection SLF N. I strips, roadways, Christmas tree farms, cemeteries, parks, and interior and exterior plantscapes, SLN label expires Dec 31, 2024 Trees & Ornamentals: Trees, Shrubs, Evergreens, Interior Plantscapes, Palms NYS Ima-iet (74578-1) imidacloprid trunk injection SLF Forest gregs: Non-urban Forests, Tree Plantations, Planted Christmas Trees, Parks, Rural Shelter Relts, Rangeland, New Section 3 ornamental 2(ee), Section 3 label includes use for SLF. Not for use on linden, basswood or other Tilia species in Oregon. Trees: Including shade trees, ornamental trees, evergreens and palms in interior plantscapes, non-urban forests, tree plantations, NYS Ima-let 10 (74578-6) imidacloprid trunk injection SIF parks, planted Christmas trees. Rural shelter belts, rangeland trees, woodland trees including conifers. New Section 3 label includes 2(ee). Section 3 use for SLF. Not for use on linden, basswood or other Tilia species in Oregon. Forest and ornamental trees. Use sites not specifically named but label includes Ag Use Requirements box (for agriculture NYS Forest and ornamental trees Xytect 10% Infusible (74779-11) trunk injection Section 3 annlications) Merit 75W (432-1314) ornamental trees, shrubs, evergreens, flowers, foliage Landscape use only plants, groundcovers - not for use on linden, basswood Merit 2F (432-1312 Drench on trees/shrubs in and around the perimeter of industrial and commercial buildings, in residential and recreational areas, Merit 75WSP (432-1318) or other Tilia species and in municipal city state national and private wooded and forested areas Prokoz Zenith 75WSP (432-1318) NYS foliar and drench Prokoz Zenith 2F (432-1312) imidaclonrid planthopper Foliar spray on outdoor ornamental trees, shrubs, evergreens, flowers, foliage plants, groundcovers in residential, commercial and application Criterion 2F (432-1312) industrial landscape areas. Do not apply to plants that are flowering apply only after all petals have fallen off Criterion 75WSP (432-1318) Lesco Randit 2E (432-1312) Not for use on linden, basswood or other Tilia species Lesco Bandit 75WSP (432-1318) ornamental and non-bearing fruit & nut trees, shrubs, Landscape use only evergreens, flowers, foliage plants, groundcovers - not Foliar application only (systemic uses not labeled for planthoppers) to ornamental and non-bearing fruit & nut trees, shrubs, ImidaStar 2L T & O (42750-115) for use on linden, basswood or other Tilia species. evergreens flowers foliage plants groundcovers interior plantscapes for industrial commercial buildings residential and Xytect 2F (42750-115-74779) ndscaped planting areas. Be careful to note formulation and EPA Reg # as similar formulations (e.g. ArmorTech IMD 2F) may not be Xytect 75WSP (42750-117-74779) imidacloprid foliar application ONLY nlanthonners Section 3 ArmorTech IMD 2SC (83529-2-86064) labeled. Do not apply to plants that are flowering, apply only after all petals have fallen off. Not for use on linden, basswood or other Imidacloprid 75WSP Select (89442-11) ornamental trees. shrubs, evergreens, flowers, foliage Foliar application only (systemic uses not labeled for planthoppers) to ornamental trees (including non-bearing fruit & nut trees), plants, groundcovers, vegetables - not for use on shrubs, evergreens, flowers, foliage plants, groundcovers, interior plantscapes, vegetable plants (around field-grown nursery and NVS Lada 2F (83100-6-83979) (NOT Lada 75WSP (83100-26-83979)) application ONLY linden, basswood or other Tilia species. container stock, indoor and outdoor ornamentals (including both greenhouse and interior plantscapes) and ornamentals grown in Section 3 flats, benches or beds). Do not apply to plants that are flowering, apply only after all petals have fallen off. Not for use on linden, basswood or other Tilia species in Oregon. Although label includes commercial production greenhouse and nursery uses as well as landscape and interiorscape applications, SLF Ornamental trees, shrubs, flowers and groundcovers 2(ee) applies only to soil injection (except no soil injection in Nassau and Suffolk Counties) and soil drench application in and around perimeter of industrial and commercial buildings and residential areas, and state, national and private wooded and forested Soil drench, injection NVS areas. It does not cover foliar or other application methods or uses in other sites. Note: separate 2(ee) for basal bank application Quali-Pro Imidaclonrid 2F Turf & Ornamental (66222-203) 2(ee) broadcast applies only to hemlock woolly adelgid on eastern hemlock. Do not apply to plants that are flowering, apply only after all petals have fallen off. Not for use on linden, basswood or other Tilia species Expires November 1, 2025 Evergreens, flowers, foliage plants, groundcovers, Outdoor ornamentals (foliar soray, soil drench) in residential, commercial and industrial landscaped areas amd for plants in interior NYS foliar and drench Mineiro 2F (91234-137) imidaclonrid nlanthonners 1.1 shrubs, trees plantscapes (foliar spray only). Do not apply to plants that are flowering, apply only after all petals have fallen off. Not for use on linden, basswood or other Tilia species. Ornamental trees, shrubs, and ornamental plants in Landscapes, forested areas, and interiorscapes for in-ground and containerized ornamentals. Nursery and greenhouse uses, including non-bearing fruit trees, do not include use for planthoppers. Not for use on linden, basswood or other Tilla species. Tablet formulation containers prior to, during or after planting into NYS Coretect (432-1457) Placed below soi G. N. L. I landscapes and interiorscapes; Established or newly-Section 3 planted orgamental trees and shrubs ornamentals, Christmas trees Ornamentals in interiorscapes and on outdoor ornamentals. Christmas trees. & nurseries G. N. L. I OnvxPro Inserticide (279-4269) hifenthrin foliar application SLF 2(ee ornamentals and non-hearing fruit and nut trees Ornamentals in greenhouses, lath houses, shade houses and outdoor nurseries, including non-hearing fruit and nut trees Talstar S Select Insecticide (279-3155) hifenthrin SIF G. N 2(ee Ornamentals and trees in interior plantscapes Apply to nymphs and adults: label includes application to trunks and base of trees. Repeat no sooner than every 7 days. Note NY NYS ornamental gardens, parks, lawns and grounds and specific language concerning turf areas. Not for use in greenhouses or nurseries or on plants intended for sale. Rifen I/T (53883-118) hifenthrin 2+C19:C28(ee other ornamental sites. Includes non-bearing fruit and nut trees Ornamentals and trees in interior plantscapes Apply to nymphs and adults: label includes application to trunks and base of trees. Repeat no sooner than every 7 days. No use within 100' of water bodies. Not for use in nurseries or on plants intended for sale. Note newer EPA Registration Number ornamental gardens, parks, lawns and grounds and Quali-Pro Rifenthrin I/T (53883-365) hifenthrin NYS 2(ee) SLE other ornamental sites. Includes non-bearing fruit and nut trees. Label also includes non-production Vegetables (many); fruits and berries (many); tree nuts; Greenhouse, shadehouse, indoor/outdoor nursery, landscape, interiorscape and outdoor food crops, rangeland, improved pastures. forestry, turf and soil applications in orchards and container ornamentals. Revised (Oct 2020) label includes use rates as foliar spray BotaniGard ES (82074-1) and forest seedlings, and woody ornamentals; herbs and for outdoor agriculture production of fruit, nuts and some other food crops. Ag*,G,N,L,I spices: ornamentals including flowers, flowering and foliage Mycotrol ESO (82074-1) Section 3 plants, bedding plants, groundcovers, shrubs, vines, evergreens, and trees: turf Vegetables (many): fruits and berries (many), herbs and Greenhouse nursery landscape interiorscape; turf and soil application in container ornamentals. Forestry sites not included. *USE spices, ornamentals including flowers, flowering and foliage ON FOOD CROPS LIMITED TO GREENHOUSE, SHADEHOUSE, NURSERY PLANTS, INTERIORSCAPE, AND LANDSCAPE RotaniGard 22WP (82074-2) Beauveria hassiana foliar application planthonners Ag*, G, N, L, I plants, bedding plants, groundcovers, shrubs, vines, Mycotrol WPO (82074-2) Crops: (Outdoors and in greenhouses) vegetables (root Vegetable and orchard crops; ornamentals and vegetables, indoor/outdoor nursery, greenhouse; shadehouse; commercial and tuber, bulb, leafy, brassica leafy, legume (succulent landscape*, interiorscape and turf* or dried), fruiting, cucurbit, oriental); foliage of legume, root & tuber vegetables; fruits (citrus, pome, *Label omits specific use directions and rates for outdoor nursery, interiorscape, landscape ornamentals, and turf. (NY labels approved stone, listed subtropical); small fruits and berries; tree 2016) nuts: cereal grains: forage, fodder & straw of cereal BotaniGard Maxx (82074-5) Ag, G, N*, L*, grains; grasses for seed, forage, fodder & hay; nonplanthonners Xpectro OD (82074-5) grass animal feeds; herbs and spices; artichoke; asparagus: avocado: coffee: hons: jojoha: mushrooms okra; olives; peanuts, pineapple; rice; safflower; sesame; sugar cane; sunflower; tea; greenhouse fruits, vegetables, flowers, & foliage plants.

BoteGHA (82074-1)	Beauveria bassiana	NR Section 3	foliar application	planthoppers	Ag*, L	Vegetables (many), fruits and berries (many), tree nuts, agronomic crops, forestry including trees and conifers, tree and forest seedlings; herbs and spices; turf	Outdoor food crops, rangeland, improved pastures, forestry, turf and soil applications in orchards. Revised (October 2020) label now includes use rates as a foliar spray for outdoor agriculture production of fruit, nuts and some other food crops.
Pyronyl Crop Spray (89459-26)	pyrethrins + PBO	NYS Section 3	foliar application	'fulgorid' [planthoppers]	Ag, G, N	Vegetables (many), tree and small fruit (many), tree nuts, herbs/spices, agronomic crops, many listed ornamentals	Agricultural growing and stored crops; greenhouse fruit, vegetable, flower and foliage plants; outdoor/indoor trees, shrubs, flowers, foliage plants, harvested fruit, also labeled as a surface spray in homes, restaurants, industrial installations, warehouses, etc.
PYClear (89459-40-70299)	pyrethrins + PBO	NYS Section 3	foliar application	'fulgorids' [planthoppers]	L?	Many greenhouse and outdoor vegetables, fruit, herbs/spices, ornamentals	Sites for food and ornamentals not listed but no WPS labeling and agriculture production not specified, so may be for non- agricultural use on listed crops.
Altus (432-1575)	flupyradifurone	NYS, LI Section 3	foliar and drench application	planthoppers	G, N, L	Ornamental Plants including Flowers, Foliage Plants Shrubs, Trees, and Groundcovers	Greenhouse, nursery, landscape ornamentals - foliar application. Greenhouse and container nursery ornamentals, annual landscape ornamentals - drench application. Labeled site for interiorscape not addressed in use directions. Not for use in Nassau, Suffolk Counties
Swagger (34704-1045)	bifenthrin + imidacloprid	F 2(ee)	foliar application	SLF	Ag	grapes, hops, tree nuts	Agricultural
Sniper Helios (34704-858)	bifenthrin	F 2(ee)	foliar application	SLF	Ag	grapes, hops, tree nuts	Agricultural; NYS SPECIFIC BUFFER LANGUAGE - NO GOLF COURSES OR SOD FARMS ON LI
Mustang Maxx Insecticide (279-3426)	zeta-cypermethrin	F 2(ee)	foliar application	SLF	Ag	grapes, pome & stone fruit	Agricultural; NYS SPECIFIC BUFFER LANGUAGE - NO GOLF COURSES OR SOD FARMS ON LI; note there are two 2(ee) SLF labels in NY, one covers only grapes, the other all three crops
Hero Insecticide (279-3315)	bifenthrin + zeta-cypermethrin	F 2(ee)	foliar application	SLF	Ag	grapes	Agricultural
DuPont Avaunt Insecticide (352-597)	Indoxacarb	NR 2(ee)	foliar application	SLF	Ag	grapes, pears, pome, and stone fruits	Agricultural
Drexel Carbaryl 4L Insecticide (19713-49)	carbaryl	NR 2(ee)	foliar application	SLF	Ag	grapes	Agricultural
Danitol 2.4EC Spray (59639-35)	fenpropathrin	F 2(ee)	foliar application	SLF	Ag	grapes, pome & stone fruit	Agricultural; note there are 2 2(ee) SLF labels in NY; the October 2018 label covers grapes, the Nov 2018 label all three crops. ADDITIONAL NEW YORK STATE RESTRICTIONS
Brigade WSB Insecticide/Miticide (279-310)	bifenthrin	F 2(ee)	foliar application	SLF	Ag	grapes, hops, pears	Agricultural; note there are 2 2(ee) SLF labels in NY; one only covers grapes, the other all three crops
Brigade 2EC Insecticide/Miticide (279-3313)	bifenthrin	F 2(ee)	foliar application	SLF	Ag	grapes, hops, pears	Agricultural
Actara Insecticide (100-938)	thiamethoxam	NYS, LI 2(ee)	foliar application	SLF	Ag	grapes	Agricultural; No IJ, NYS MAX APP RATE 0.188 LB/AI/ACRE/YEAR EXCEPT POME 0.172
Imidan 70WP (10163-169)	phosmet	NYS 2(ee)	foliar application	SLF	Ag	apples, grapes, peaches	Agricultural
Aza-Direct (71908-1-10163)	azadirachtin	NR 2(ee)	foliar application	SLF	Ag	apples, grapes, peaches	Agricultural, for suppression. Targets immature stages (nymphs). Organic-compatible
M-Pede Insecticide, Miticide, Fungicide (10163-324)	potassium salts of fatty acids (ins. soap)	NR 2(ee)	foliar application	SLF	Ag	apples, grapes, peaches	Agricultural, for suppression. Organic-compatible. Not for Calmeria or Italia grape varieties
Maxxthor SC (81824-5)	bifenthrin	NYS, 2(ee)	structural	SLF	s	Structural indoor and outdoor use	can be applied in and on any residential or commercial structure, building, or mode of transport including food/feed handling establishments unless otherwise prohibited. Do not apply within aricraft cabins. Not for use in greenhouses or nurseries. Avoid runoff to severs and drains, aquatic areas, etc. See 2 feel abbel for other restrictions.
Demand CS (100-1066)	lambda-cyhallothrin	NYS 2(ee)	Surface spray	SLF	L, S	Structural and perimeter outdoor surfaces, ornaments plants (incl. trees and shrubs) next to foundations of buildings	al For use on and around buildings and structures, including ornamental trees and shrubs around residential, institutional, public, commercial, agricultural and industrial buildings; parks, recreational areas and other stee. Not for use on golf course turf. See label for longer list of stees. Use or normanental plants appears inlineted to those near structures.
Golden Pest Spray Oil (57538-11)	soybean oil	NR Section 3	Spray	Lanternfly	N, L, S*	Trees, nursery stock, non-plant sites. Note conifer issues on label.	Egg masses only on trees, ground litter, outdoor household articles, recreational vehicles, firewood, nursery stock, rocks, ships, boats and other forms of transportation, or on other articles moved in interstate commerce. High rate for egg masses can be damaging to foliage.
Insecticides for Home Garden Use to Control Spotted Lanternfly in New York State							
Optrol Insect Control (74779-14)	imidacloprid	ш	soil drench	planthoppers	HG	Flowers, groundcovers	Outdoor residential use. Planthoppers are target pests listed only for flowers and groundcovers. Not for use on Long Island.
Orange Guard Ornamental Plants (61887-3)	d-limonene	NR Section 3	foliar application	plant hoppers	HG	All ornamental plants	Indoors and outdoors.
Ortho BugClear Insect Killer for Lawns and Landscapes Concentrate (239-2718)	bifenthrin + zeta-cypermethrin	NR 2(ee)	foliar application	SLF	HG	Roses, flowers, shrubs, small (non-fruit bearing) trees, home vegetable gardens, melons, & fruit and nut tree: (see label).	
Ortho BugClear Insect Killer for Lawns and Landscapes Ready to Spray (239-2718)	bifenthrin + zeta-cypermethrin	NR 2(ee)	foliar application	SLF	HG	Roses, flowers, shrubs, small (non-fruit bearing) trees, home vegetable gardens, melons, & fruit and nut tree: (see label).	s Residential outdoor use only. Expires 3/1/2022
Bug-B-Gon Insect Killer for Lawns and Gardens Concentrate [239 2718]	bifenthrin + zeta-cypermethrin	NR 2(ee)	foliar application	SLF	HG	Roses, flowers, shrubs, small (non-fruit bearing) trees, home vegetable gardens, melons, & fruit and nut tree: (see label).	s Residential outdoor use only. Expires 3/1/2022
Bug-B-Gon Insect Killer for Lawns and Gardens Ready-to-Spray (239-2718)	bifenthrin + zeta-cypermethrin	NR 2(ee)	foliar application	SLF	HG	Roses, flowers, shrubs, small (non-fruit bearing) trees, home vegetable gardens, melons, & fruit and nut tree: (see label).	s Residential outdoor use only. Expires 3/1/2022
Ortho Home Defense Insect Killer for Lawn and Landscape Ready to Spray (239-2718)	bifenthrin + zeta-cypermethrin	NR 2(ee)	foliar application	SLF	HG	Roses, flowers, shrubs, small (non-fruit bearing) trees, home vegetable gardens, melons, & fruit and nut tree: (see label). Roses, flowers, shrubs, small (non-fruit bearing) trees,	s Residential outdoor use only. Expires 3/1/2022
Ortho Home Defense Insect Killer for Lawn and Landscape Concentrate (239-2718)	bifenthrin + zeta-cypermethrin	NR 2(ee)	foliar application	SLF	HG	home vegetable gardens, melons, & fruit and nut tree: (see label).	
Monterey Fruit Tree Spray Plus (70051-111-54705)	pyrethrins + neem oil	NR 2(ee)	foliar application	SLF	HG		bs Residential outdoor use only. Organic-compatible. Note sensitive plants on full label.

^Restriction: NR=None (i.e. general-use, no applicator license needed); NYS = NYS-restricted, F= federally restricted, Li=No use on Long Island

#Labeling type: 2(ee) label in NY, 24(c) Special Local Need label in NY. 40(c) Special Local Need label in N

Information included is not a substitute for labeling. Always read and understand the product label before applying any pesticide. Changes in pesticide registations, regulations, and guidelines continually occur.
Verify product registration status in NY before use and obtain product labels, including ¿(ee) and 24(c) SM labels which applications must have when making such applications, at the NYSPAD website: http://www.dec.ny.gov/nyspad/ Trade names used are for convenience only. No endorsement of products is intended, or los richicism of unnamed products implied.

Thank you to Mike Helms Cornell Cooperative Extension Pesticide Safety Education Program for his input on this document 10/20/2021 updated D. Gilrein, CCE Suffolk

Labeled Target pest: SLF = Spotted lanternfly

Use: Ag - food & for forage crop production; h = nursery (production); G = Greenhouse (production); L = landscape (maintenance); I =interiorscape (maintenance); HG = home garden (also includes commercial landscape unless otherwise indicated); S = Structural

^{*}see notes in labeled sites column