

Reference list of fruits with *Drosophila suzukii*

Hosts were confirmed by observed infestation in the field or by testing in laboratory studies.

How to cite this, reference list, and whom to contact for edits are given at the end of the Table.

Common name	Scientific name ¹	Location ²	Collect- ion date	Field Lab	Reference ³
na	<i>Alangium platanifolium</i>	Japan	Aug	F	Mitsui 2010
Aucuba					
Japanese aucuba	<i>Aucuba japonica</i>	France Japan	na Apr-Jun	L F	Poyet 2015 Mitsui 2010
Akamono	<i>Gaultheria adenothrix</i>	Japan	Aug	F	Mitsui 2010
Apple ^{damaged}					
Crabapple	<i>Malus baccata</i>	Netherlands	na	F	Kenis 2016
Paradise apple ^{damaged}	<i>Malus pumila</i>	Japan	na	F	Kanzawa 1939
Apricot ^{damaged}	<i>Prunus aremniaca</i>	Japan Italy	na na	F F	Kanazwa 1935, 39 Kenis 2016
Ash					
Rowan ash	<i>Sorbus aucuparia</i>	Netherlands	na	F	Kenis 2016
Western Mountain ash	<i>Sorbus sitchensis</i>	Oregon	Oct	L	Lee 2015
Whitebeam ash	<i>Sorbus aria</i>	Italy	na	F	Kenis 2016
Barberry	<i>Berberis (=Mahonia)</i>	Italy	na	F	Kenis 2016
Unnamed barberry	<i>Berberis hortensis (=Mahonia x media)</i>	France	na	L	Poyet 2015
Bayberry					
Chinese bayberry	<i>Morella rubra (=Myrica rubra)</i>	Japan	July	F	Yukniari 1988
Blackberry (wild)					
Allegheny	<i>Rubus allegheniensis</i>	New York	na	F	Lee ex 2015
Greenland thornless blackberry	<i>Rubus saxatilis</i>	Italy	na Aug	F F	Kenis 2016 Tonina 2016
Himalaya blackberry	<i>Rubus aremeniacus</i>	Oregon	Jul-Oct	F, L	Lee 2015
Blackthorn	<i>Prunus spinosa</i>	France Italy, Neth	na na	L F	Poyet 2015 Kenis 2016
Blueberry (other)					
Bilberry	<i>Vaccinium myrtillus</i>	Italy, Swit	na	F	Kenis 2016
Sourtop blueberry	<i>Vaccinium myrtilloides</i>	Netherlands	na	F	Kenis 2016
Unnamed berry	<i>Vaccinium oldhamii</i>	Netherlands	na	F	Kenis 2016
Unnamed berry	<i>Vaccinium praestans</i>	Netherlands	na	F	Kenis 2016
Bryony					
Black bryony	<i>Tamus (=Dioscorea) communis</i>	Italy, Swit	na	F	Kenis 2016
Buckthorn					
Cascara buckthorn	<i>Frangula purshiana</i>	Oregon	Aug	F	Lee 2015
European buckthorn	<i>Rhamnus cathartica</i>	Netherlands	na	F	Kenis 2016
Glossy buckthorn	<i>Frangula alnus</i>	France	na	L	Poyet 2015

		Italy It, Neth, Swit	na na	F F	Grassi 2011 Kenis 2016
Sea buckthorn	<i>Hippophae rhamnoides</i>	France Switzerland	na na	L F	Poyet 2015 Kenis 2016
Cherry (wild, ornamental)					
Black cherry	<i>Prunus serotina</i>	France Netherlands	fall na na	F L F	Poyet 2014 Poyet 2015 Kenis 2016
Cherry (type)	<i>Prunus buergeriana</i>	Japan	na	F	Sasaki 1995
Cherry (type)	<i>Prunus donarium</i>	Japan	May-Jun	F	Kanzawa 1939, Mitsui 2006
Choke cherry	<i>Prunus virginiana</i>	New York	na	F	Lee ext 2015
European bird cherry	<i>Prunus padus</i>	Neth, Swit	na	F	Kenis 2016
Japanese alpine cherry	<i>Prunus nipponica</i>	Japan	July	F	Mitsui 2010
Japanese bush cherry	<i>Prunus japonica</i>	Japan	na	F	Kanzawa 1935, 39
Mahaleb cherry	<i>Prunus mahaleb</i>	France Japan Italy	na na na	L F F	Poyet 2015 Kanzawa 1935, 39 Kenis 2016
Sargent's cherry	<i>Prunus sargentii</i>	Japan	na	F	Kanzawa 1935
Sour cherry	<i>Prunus cerasus</i>	Japan Italy	na na	F F	Kanzawa 1939 Kenis 2016
Surinam cherry	<i>Eugenia uniflora</i>	Florida	na	F	PIA 2010
Wild cherry	<i>Prunus avium</i>	Japan Neth, Swit Oregon	na Jul-Aug	F F F, L	Kanzawa 1939 Kenis 2016 Lee 2015
Winter cherry	<i>Physalis alkekengi</i>	France	na	L	Poyet 2015
Yoshino cherry	<i>Prunus yedoensis</i>	Japan	na	F	Kanzawa 1935, 39, Sasaki 1995
Cotoneaster					
Bullate cotoneaster	<i>Cotoneaster rehderi</i>	Netherlands	na	F	Kenis 2016
Franchet's cotoneaster	<i>Cotoneaster franchetii</i>	Netherlands	na	F	Kenis 2016
Milkflower cotoneaster	<i>Cotoneaster lacteus</i>	Italy Oregon	na May	F F	Kenis 2016 Lee 2015
Cranberry ^{damaged}	<i>Vaccinium macrocarpon</i>	Wisconsin	Fall	L	Steffan 2013
Currant					
Common currant	<i>Ribes rubrum</i>	France Netherlands	na na	L F	Poyet 2015 Kenis 2016
Redflower currant	<i>Ribes sanguineum</i>	France	na	L	Poyet 2015
Daphne					
Paradise plant	<i>Daphne mezereum</i>	Italy	na Sept	F F	Kenis 2016 Tonina 2016
Dewberry					
European dewberry	<i>Rubus caesius</i>	Italy Italy, Neth	Aug na	F F	Tonina 2016 Kenis 2016
Dogwood					
Bloodtwig dogwood	<i>Cornus sanguinea</i>	Italy, Neth	na	F	Kenis 2016

Giant dogwood	<i>Cornus controversa</i>	Japan	Aug-Oct	F	Mitsui 2010
Gray dogwood	<i>Cornus racemose</i>	New York	na	F	Lee ext 2015
Japanese dogwood	<i>Cornus kousa</i>	Japan	Sep	F	Mitsui 2010
		Netherlands	na	F	Kenis 2016
		Oregon	Aug	F	Lee 2015
Red osier dogwood	<i>Cornus sericea</i>	France	na	L	Poyet 2015
		Oregon	Aug-Sep, Oct ^L	F, L	Lee 2015
Silky dogwood	<i>Cornus amomum</i>	Michigan	Aug-Oct	F	Lee 2015
Siberian dogwood	<i>Cornus alba</i>	Netherlands	na	F	Kenis 2016
Sorbet dogwood	<i>Cornus mas</i>	Italy, Neth	na	F	Kenis 2016
Stiff dogwood	<i>Conrus foemina</i>	Michigan	Aug-Oct	F	Lee 2015
Elderberry	<i>Sambucus sp.</i>	Michigan	Aug	F	Lee 2015
Black elderberry	<i>Sambucus nigra</i>	France	na	L	Poyet 2015
		Italy	na	F	Grassi 2011
		It, Neth, Swit	na	F	Kenis 2016
		Oregon	Jun-Nov	F, L	Lee 2015
Blue elderberry	<i>Sambucus nigra</i> spp. <i>cerulea</i>	Canada	na	F	Lee ext 2015
Dwarf elderberry	<i>Sambucus ebulus</i>	France	na	L	Poyet 2015
		Italy	na	F	Kenis 2016
Red elderberry	<i>Sambucus racemosa</i>	Italy	Jul-Aug	F	Tonina 2016
		It, Neth, Swit	na	F	Kenis 2016
Rocky Mountain elderberry	<i>Sambucus racemose</i> var. <i>melanocarpa</i>	Canada	na	F	Lee ext 2015
Fig					
Common fig	<i>Ficus carica</i>	California	Aug-Sep	F	Yu 2013
		Italy, Switz	na	F	Kenis 2016
Firethorn	<i>Pyracantha</i>	Netherlands	na	F	Kenis 2016
Gooseberry	<i>Ribes uva-crispa</i>	Oregon	Jul	L	Lee 2015
Hawthorn					
Fireberry hawthorn	<i>Crataegus chrysocarpa</i>	Netherlands	na	F	Kenis 2016
Oneseed hawthorn	<i>Crataegus monogyna</i>	Netherlands	na	F	Kenis 2016
Herb-Paris	<i>Paris quadrifolia</i>	Netherlands	na	F	Kenis 2016
Honeysuckle	<i>Lonicera</i> spp.	Italy	na	F	Grassi 2011
		Michigan	Jun-Oct	F	Lee 2015
		Switzerland	na	F	Kenis 2016
Alpine honeysuckle	<i>Lonicera alpigena</i>	Italy	na Aug	F F	Kenis 2016 Tonina 2016
Bell's honeysuckle	<i>Lonicera x bella</i>	Canada	na	F	Lee ext 2015
Black honeysuckle	<i>Lonicera nigra</i>	Italy	Aug	F	Tonina 2016
			na	F	Kenis 2016
Blue honeysuckle	<i>Lonicera caerulea</i>	Italy	na	F	Kenis 2016
			Aug	F	Tonina 2016
		Oregon	June	F	Lee 2015
Box honeysuckle	<i>Lonicera nitida</i>	France	na	L	Poyet 2015

		Netherlands	na	F	Kenis 2015
Dwarf honeysuckle	<i>Lonicera xylosteum</i>	France Italy	na na	L F	Poyet 2015 Kenis 2015
Italian honeysuckle	<i>Lonicera caprifolium</i>	Netherlands	na	F	Kenis 2015
Morrow honeysuckle	<i>Lonicera morrowii</i>	New York	na	F	Lee ext 2015
Tatarian honeysuckle	<i>Lonicera tatarica</i>	Canada	na	F	Lee ext 2015
Unnamed honeysuckle	<i>Lonicera ferdinandii</i>	Netherlands	na	F	Kenis 2015
Huckleberry					
Evergreen huckleberry	<i>Vaccinium ovatum</i>	Oregon	Oct	L	Lee 2015
Lords & Ladies					
Italian lords & ladies	<i>Arum italicum</i>	Netherlands	na	F	Kenis 2016
Lords & ladies, cuckoo pint	<i>Arum maculatum</i>	France	na	L	Poyet 2015
Juneberry	<i>Amelanchier lamarckii</i>	Netherlands	na	F	Kenis 2016
Kiwi					
Chinese kiwi	<i>Actinidia chinensis</i>	Italy	na	F	Kenis 2016
Hardy kiwi ^{postharvest}	<i>Actinidia arguta</i>	Oregon	Oct	L	Lee 2015
Laurel					
Cherry laurel	<i>Prunus laurocerasus</i>	It, Neth, Swit Oregon	na Aug-Oct	F F, L	Kenis 2016 Lee 2015
Portugeuse laurel	<i>Prunus lusitanica</i>	France Italy Oregon	na na Aug-Sep	L F F	Poyet 2015 Kenis 2016 Lee 2015
Lingonberry	<i>Vaccinium vitis-idaea</i>	Oregon	Oct	L	Lee 2015
Loquat ^{damaged}	<i>Eriobotrya japonica</i>	Florida Italy Japan	na na na	F F F	PIA 2010 Kenis 2016 Kanzawa 1939
Matrimonyvine	<i>Lycium barbarum</i>	Italy	na	F	Kenis 2016
Mistletoe	<i>Viscum album</i>	France Germany	na April	L L	Poyet 2015 Briem 2016
Mulberry	<i>Morus sp.</i>	France Japan	na na	L F	Poyet 2015 Kanzawa 1935, Sasaki 1995
Black mulberry	<i>Morus nigra</i>	Oregon	Jun-Sep	F	Lee 2015
'Illinois Everbearing' mulberry	<i>Morus alba x rubra</i>	California	Aug	F	Yu 2013
Red mulberry	<i>Morus rubra</i>	Florida	na	F	PIA 2010
White mulberry	<i>Morus alba</i>	Japan	na	F	Kanzawa 1939
Wild Korean mulberry	<i>Morus australis</i> (= <i>bombycis</i>)	Japan	Jun	F	Mitsui 2010
Nightshade					
Bittersweet nightshade	<i>Solanum dulcamara</i>	France Michigan Neth, Swit Oregon	na Jul-Oct na Sep	L F F F	Poyet 2015 Lee 2015 Kenis 2016 Lee 2015
Black nightshade	<i>Solanum nigrum</i>	France Neth, Swit	na na	L F	Poyet 2015 Kenis 2015

Deadly nightshade	<i>Atropa belladonna</i>	France	na	L	Poyet 2015
Hairy nightshade	<i>Solanum villosum</i>	Spain	Oct-Jan	F	Arnó 2012
Orange ^{damaged}					
Orange jasmine	<i>Murraya paniculata</i>	Florida	na	F	PIA 2010
Sweet orange ^{damaged}	<i>Citrus X sinensis</i>	California	na	L	Caprile 2016
Oregon grape	<i>Berberis (=Mahonia) aquifolium</i>	France Netherlands Oregon	na na Jul ^l , Sep	L F F, L	Poyet 2015 Kenis 2016 Lee 2015
Peach ^{damaged}	<i>Prunus persica</i>	Japan	na	F	Kanzawa 1935, 39, Sasaki 1995
'Erlich' peach ^{damaged}	<i>Prunus persica</i>	California	fall	L	Stewart 2014
Pear					
Callery pear	<i>Pyrus calleryana</i>	France	na	L	Poyet 2915
Chinese pear ^{cut}	<i>Pyrus sinensis</i>	Japan	na	na	Kanzawa 1939
Persimmon ^{damaged}	<i>Diospyros kaki</i>	Japan	na Aug-Oct	F F	Kanzawa 1935, 39 Mitsui 2010
Photinia					
Christmas berry	<i>Photinia beauverdiana</i>	Netherlands	na	F	Kenis 2016
Oriental photinia	<i>Photinia villosa</i>	Netherlands	na	F	Kenis 2016
Unnamed photinia	<i>Photinia prunifolia</i>	Netherlands	na	F	Kenis 2016
Plum ^{damaged}					
Asian plum ^{damaged}	<i>Prunus salicina (=triflora)</i>	Japan	na	F	Kanzawa 1935, 1939
Cherry plum	<i>Prunus cerasifera</i>	Italy	na	F	Kenis 2016
European plum	<i>Prunus domestica</i>	Switzerland	na	F	Kenis 2016
Pokeweed					
American pokeweed	<i>Phytolacca americana</i>	France Japan Italy, Swit Michigan	na na na Aug-Oct	L F F F	Poyet 2015 Sasaki 1995 Kenis 2016 Lee 2015
Indian pokeweed	<i>Phytolacca esculenta</i>	Netherlands	na	F	Kenis 2016
Raspberry (wild)					
Wild raspberry	<i>Rubus crataegifolius</i>	Japan	July	F	Mitsui 2010
Wild raspberry	<i>Rubus mirophyllus</i>	Japan	Aug na	F F	Mitsui 2010 Kanzawa 1939
Wild raspberry	<i>Rubus parvifolius (=triphyllus)</i>	Japan	na	F	Kanazawa 1939, Sasaki 1995
Rose					
Dog rose	<i>Rosa canina</i>	Netherlands	na	F	Kenis 2016
Prickly rose	<i>Rosa acicularis</i>	Netherlands	na	F	Kenis 2016
Rugosa rose	<i>Rosa rugose</i>	Netherlands	na	F	Kenis 2016
Scottish rose	<i>Rosa pimpinellifolia</i>	Netherlands	na	F	Kenis 2016
Unnamed rose	<i>Rosa glauca</i>	Netherlands	na	F	Kenis 2016
Oleaster/silverberry					
Autumn Olive	<i>Eleaegnus umbellata</i>	Michigan	Aug-Oct	F	Lee 2015

Cherry silverberry	<i>Elaeagnus multiflora</i>	Japan	na	F	Kanazawa 1939, Sasaki 1995
Unnamed silverberry	<i>Elaeagnus x ebbingei</i>	France	na	L	Poyet 2015
Salmonberry	<i>Rubus spectabilis</i>	Oregon	Jun ^L , Jul	F, L	Lee 2015
Salal	<i>Gaultheria shallon</i>	Oregon	Aug	L	Lee 2015
Serviceberry	<i>Amelanchier ovalis</i>	Italy	na	F	Kenis 2016
Snowberry					
Common snowberry	<i>Symphoricarpos albus</i>	France Netherlands Oregon	na na Sep-Oct, Dec ^L	L F F, L	Poyet 2015 Kenis 2016 Lee 2015
Solomon's Seal	<i>Polygonatum multiflorum</i>	Netherlands	na	F	Kenis 2016
Spicebush	<i>Lindera benzoin</i>	Michigan	Aug-Oct	F	Lee 2015
Strawberry (others)					
Alpine strawberry	<i>Fragaria vesca</i>	France It, Neth, Swit	na na	L F	Poyet 2015 Kenis 2016
Indian strawberry	<i>Duchesnea indica</i>	It, Neth, Swit Oregon	na July	F L	Kenis 2016 Lee 2015
Strawberry Tree	<i>Arbutus unedo</i>	Italy Spain Oregon	na Oct-Jan Oct	F F L	Kenis 2016 Arnó 2012 Lee 2015
Sweet box	<i>Sarcococca confusa</i>	Oregon	May-Jun, Dec ^L	F, L	Lee 2015
Tomato ^{damaged}	<i>Solanum lycopersicum</i>	Japan Florida Oregon	na na store ^{intact}	F F L ^{low}	Kanzawa 1935 PIA 2010 Lee 2015
Torreya					
Japanese torreyia	<i>Torreya nucifera</i>	Japan	Sep-Oct	F	Mitsui 2010
Viburnum					
Leatherleaf viburnum	<i>Viburnum rhytidophyllum</i>	Netherlands	na	F	Kenis 2016
Linden viburnum	<i>Viburnum dilatatum</i>	Japan	Oct	F	Mitsui 2010
Wayfaring tree	<i>Viburnum lantana</i>	Italy	na	F	Kenis 2016
Virginia creeper	<i>Parthenocissus quinquefolia</i>	Netherlands	na	F	Kenis 2016
Wineberry					
Japanese wineberry	<i>Rubus phoenicolasius</i>	Switzerland	na	F	Kenis 2016
Wintergreen	<i>Gaultheria x wisleyensis</i>	Netherlands	na	F	Kenis 2016
Yew					
European yew	<i>Taxus baccata</i>	France It, Neth, Swit	na na	L F	Poyet 2015 Kenis 2016

¹ When possible, scientific names and common names were based on the Integrated Taxonomic Information System (IT IS) and the US National Plant Germplasm System (GRIN) database.

ITIS database: <http://www.itis.gov/servlet/SingleRpt/SingleRpt>

GRIN database: <https://npgsweb.ars-grin.gov/gringlobal/taxon/taxonomysimple.aspx>

² For brevity, U.S. states are given as California, Florida, Michigan, New York and Oregon, and the country U.S.A. is not stated. Countries are sometimes abbreviated It = Italy, Neth = Netherlands, Swit = Switzerland. Host collections for each location are described in a separate row if information differed, or grouped together if the collection information is similar.

³ For brevity, the first author is given for the references.

Contact: jana.lee@ars.usda.gov for new references and edits

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Reference list

Arno J, Riudavets J, Gabarra R (2012) Survey of host plants and natural enemies of *Drosophila suzukii* in an area of strawberry production in Catalonia (northeast Spain). IOBC/wprs Bulletin 80:29-34

Briem F, Eben A, Gross J, Vogt H (2016) An invader supported by a parasite: Mistletoe berries as a host for food and reproduction of spotted wing drosophila in early spring. Journal of Pest Science, doi 10.1007/s10340-016-0739-6

Caprile JL, Grant JA, Hamby KA, Haviland DR, Rill SM (2016) Phenology of spotted wing drosophila in the San Joaquin Valley varies by season, crop and nearby vegetation. California Agriculture 70:24-31

Grassi A, Giongo L, Palmieri L (2011) *Drosophila suzukii* (Matsumura), new pest of soft fruits in Trentino (North-Italy) and in Europe. IOBC/wprs Bulletin 70:121-128

Kanzawa T (1935) Research into the fruit-fly *Drosophila suzukii* Matsumura (Preliminary Report). Yamanashi Prefecture Agricultural Experiment Station Report. In Japanese, Translated by S. Kawai.

Kanzawa T (1939) Studies on *Drosophila suzukii* Mats. Kofu, Yamanashi Agric. Exp. Sta., 49 pp. In Japanese, Translated by S. Kawai.

Kenis M, Tonina L, Eschen R, van der Sluis B, Sancassani M, Mori N, Haye T, Helsen H (2016) Non-crop plants used as hosts by *Drosophila suzukii* in Europe. Journal of Pest Science, doi 10.1007/s10340-016-0755-6

- Lee JC, Dreves AJ, Cave AM, Kawai S, Isaacs R, Miller JC, Van Timmeren S, Bruck DJ (2015) Infestation of wild and ornamental noncrop fruits by *Drosophila suzukii* (Diptera: Drosophilidae). *Annals of the Entomological Society of America* 108:117-129
- Lee ext 2015 Lee J, Dreves A, Isaacs R, Loeb G, Thistlewood H, Brewer L (2015) Noncrop host plants of spotted wing drosophila in North America. Oregon State University Extension, EM 9113, April 2015. <<https://catalog.extension.oregonstate.edu/em9113>>
- Mitsui H, Beppu K, Kimura MT (2010) Seasonal life cycles and resource uses of flower- and fruit-feeding drosophilid flies (Diptera: Drosophilidae) in central Japan. *Entomological Science* 13:60-67
- Mitsui H, Takahashi KH, Kimura MT (2006) Spatial distributions and clutch sizes of *Drosophila* species ovipositing on cherry fruits of different stages. *Population Ecology* 48:233-237
- PIA 2010 Plant Inspection Advisory (2010) Update for spotted wing drosophila, *Drosophila suzukii* and potential on blueberries. Memo to: Bureau of Plant & Apiary Inspectors and Supervisors [in Florida], May 6, 2010.
- Poyet M, Eslin P, Heraude M, Le Roux V, Prevost G, Gibert P, Chabrierie O (2014) Invasive host for invasive pest: When the Asiatic cherry fly (*Drosophila suzukii*) meets the American black cherry (*Prunus serotina*) in Europe. *Agricultural and Forest Entomology* 16:251-259
- Poyet M, Le Roux V, Gibert P, Meirland A, Prevost G, Eslin P, Chabrierie O (2015) The wide potential trophic niche of the Asiatic fruit fly *Drosophila suzukii*: The key of its invasion success in temperate Europe? *PLoS One* 10:e0142785
- Sasaki M, Sato R (1996) Bionomics of the cherry drosophila, *Drosophila suzukii* Matsumura (Diptera: Drosophilidae) in Fukushima Prefecture. *Tohoku Agricultural Research* 49: 161-162. In Japanese, Translated by S. Kawai.
- Steffan SA, Lee JC, Singleton ME, Vilaire A, Walsh DB, Lavine LS, Patten K (2013) Susceptibility of cranberries to *Drosophila suzukii* (Diptera: Drosophilidae). *Journal of Economic Entomology* 106:2424-2427
- Tonina L, Mori N, Giomi F, Battisti A (2016) Development of *Drosophila suzukii* at low temperatures in mountain areas. *Journal of Pest Science*, in press
- Yu D, Zalom FG, Hamby KA (2013) Host status and fruit odor response of *Drosophila suzukii* (Diptera: Drosophilidae) to figs and mulberries. *Journal of Economic Entomology* 106:1932-1937
- Yukinari M (1988) Drosophilid flies injurious to the fruits of wax-myrtle, *Myrica rubra*. *Japan J. Appl Entomol Zool* 32:146-148. In Japanese, Translated by S. Kawai.