

# TortAI

## TORTRICIDS OF AGRICULTURAL IMPORTANCE

TortAI examined larvae log. The following larvae were examined to create the data matrix for the interactive larval key. Other specimens not listed here were also examined; this is not an exhaustive list.

Genus	Species	Location	No.	Host	Collection	Notes
<i>Acleris</i>	<i>comariana</i>	Canada: British Columbia	1	[no data]	CSCA	
<i>Acleris</i>	<i>hastiana</i>	USA: Oregon	2	[no data]	UCB	J. A. Powell reared
<i>Acleris</i>	<i>minuta</i>	USA: Alabama	4	folding apple leaves	USNM	71-15614
<i>Acleris</i>	<i>minuta</i>	USA: New Jersey	9	[no data]	USNM	3 larval skins in large microvial also containing a smaller microvial with 1 male genitalia, 5 larvae loose; labeled <i>Peronea minuta</i>
<i>Acleris</i>	<i>semipurpurana</i>	USA: Texas	5	oak leaves	USNM	62-20442; Houston 8991; 2 larvae, 2 pupal shells (1 fragmented), 1 pupa; labeled <i>Argyrota semipurpurana</i>
<i>Adoxophyes</i>	<i>orana</i>	Netherlands	1	lilac flowers	USNM	51-2412; N.Y. 114,755; labeled <i>Adoxophyes reticulana</i>
<i>Adoxophyes</i>	<i>orana</i>	Netherlands	2	lilacs	USNM	51-1292; N.Y. 114,496; larva not typical, pupa OK; labeled <i>Adoxophyes reticulana</i>
<i>Adoxophyes</i>	<i>orana</i>	Netherlands	1	[no data]	TMG	ex. Plant Protection, Wageningen
<i>Adoxophyes</i>	<i>orana</i>	Netherlands	1	<i>Ligustrum</i>	TMG	ex. Plant Protection, Wageningen
<i>Amorbia</i>	<i>cuneana</i>	USA: California	12+	various	CSCA	
<i>Amorbia</i>	<i>emigratella</i>	USA: California	12+	various	CSCA	
<i>Archips</i>	<i>argyrospila</i>	USA: California	1	[no data]	UCB	J. A. Powell reared
<i>Archips</i>	<i>cerasivorana</i>	USA: California	2	[no data]	UCB	J. A. Powell reared
<i>Archips</i>	<i>rosana</i>	Netherlands	2	<i>Ligustrum</i>	TMG	ex. Plant Protection, Wageningen
<i>Archips</i>	<i>xylosteara</i>	Netherlands	1	[no data]	TMG	ex. Plant Protection, Wageningen
<i>Archips</i>	<i>argyrospila</i>	USA: California	12+	[no data]	CSCA	
<i>Archips</i>	<i>cerasivorana</i>	USA: Washington	7	on <i>Prunus demissa</i>	USNM	6 larvae, 1 pupa; labeled <i>Cacoecia cerasivorana</i>
<i>Archips</i>	<i>rosana</i>	USA: Washington	11	blueberry	USNM	73-10533
<i>Argyrotaenia</i>	<i>franciscana</i>	USA: California	20+	primarily from nursery inspections	CSCA	
<i>Argyrotaenia</i>	<i>franciscana</i>	USA: California	1	[no data]	UCB	J. A. Powell reared
<i>Argyrotaenia</i>	<i>velutinana</i>	USA: West Virginia	95	on apple foliage	USNM	38 larvae, 39 pupae, 18 adults
<i>Cacoecimorpha</i>	<i>pronubana</i>	Netherlands	3	oleander	USNM	Netherlands interception; larvae
<i>Cacoecimorpha</i>	<i>pronubana</i>	England	3	bay ( <i>Laurus</i> )	USNM	49-15634; New York 107809; labeled <i>Capua pronubana</i>
<i>Cacoecimorpha</i>	<i>pronubana</i>	France	1	<i>Dianthus</i>	TMG	ex. Plant Protection, Wageningen
<i>Cacoecimorpha</i>	<i>pronubana</i>	Italy	1	<i>Dianthus</i>	TMG	ex. Plant Protection, Wageningen
<i>Choristoneura</i>	<i>rosaceana</i>	USA: California	12+	various	CSCA	
<i>Clepsis</i>	<i>fucana</i>	USA: California	12+	[no data]	CSCA	
<i>Clepsis</i>	<i>fucana</i>	USA: California	3	[no data]	UCB	J. A. Powell reared
<i>Clepsis</i>	<i>peritana</i>	USA: California	12+	[no data]	CSCA	
<i>Clepsis</i>	<i>peritana</i>	USA: California	1	[no data]	UCB	J. A. Powell reared

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<i>Clepsis</i>	<i>spectrana</i>	Netherlands	1	<i>Veronica</i>	USNM	Netherlands intercept; larva
<i>Clepsis</i>	<i>spectrana</i>	Netherlands	1	<i>Gerbera</i>	TMG	ex. Plant Protection, Wageningen
<i>Clepsis</i>	<i>spectrana</i>	Netherlands	3	<i>Rosa</i>	TMG	ex. Plant Protection, Wageningen
<i>Cnephasia</i>	<i>longana</i>	USA: California	12+	[no data]	CSCA	
<i>Crociosema</i>	<i>aporema</i>	Netherlands Antilles	1	string beans	USNM	Lot 41-18594; Mobile, 6892; locality given as Dutch West Indies; labeled <i>Epanotia opposita</i>
<i>Crociosema</i>	<i>aporema</i>	Chile	7	string beans	USNM	Lot 40-12940; 2 pupal shells, 4 adults, 1 pupal case; labeled <i>Epanotia opposita</i>
<i>Crociosema</i>	<i>aporema</i>	Venezuela	2	string beans	USNM	Lot 39011914; labeled <i>Epanotia opposita</i>
<i>Crociosema</i>	<i>plebejana</i>	Peru	9	cotton buds	USNM	61-21867; No. 44-61; pupal shells; labeled <i>Crociosema plebeiana</i> [sic]
<i>Crociosema</i>	<i>plebejana</i>	Texas	39	<i>Wissadula amplissima</i>	USNM	Lot 39-20384; labeled <i>Crociosema plebeiana</i> [sic]
<i>Crociosema</i>	<i>plebejana</i>	St. Croix	7	okra pods	USNM	labeled <i>Crociosema plebeiana</i> [sic]
<i>Cryptaspasma</i>	<i>perseana</i>	Guatemala	12	avocado	TMG/UCR	reared avocado, M. Hoddle
<i>Cryptophlebia</i>	<i>illepida</i>	USA: Hawaii	2	macadamia nuts	USNM	Honolulu, T.H. 9 Sept. 1942 Olt 42-12026 Hawaii # 794
<i>Cryptophlebia</i>	<i>illepida</i>	USA: Hawaii	1	<i>Vaccinium reticulatum</i> berries	USNM	
<i>Cryptophlebia</i>	<i>ombrodelta</i>	USA: Hawaii	1	<i>Averrhoa</i> sp. fruit	USNM	69-25343; San Francisco 408
<i>Cydia</i>	<i>caryana</i>	USA: Texas	1	[no data]	CSCA	PDR #5003381
<i>Cydia</i>	<i>pomonella</i>	USA: Colorado	1	[no data]	CSCA	PDR #5007606
<i>Cydia</i>	<i>splendana</i>	Japan	2	chestnuts	USNM	labeled <i>Laspeyresia splendana</i>
<i>Cydia</i>	<i>splendana</i>	Netherlands	2	ex. <i>Quercus</i>	TMG	ex. Plant Protection, Wageningen
<i>Cydia</i>	<i>toreuta</i>	USA: California	10	<i>Pinus ponderosa</i> , cones and seeds	USNM	2 larvae decapitated with heads loose in vial; Hopk. 10870a1; labeled <i>Laspeyresia toreuta</i>
<i>Decodes</i>	<i>basiplagana</i>	USA: California	12+	[no data]	CSCA	
<i>Decodes</i>	sp.	USA: California	12	ex. <i>Quercus</i>	UCB	J. A. Powell reared
<i>Enarmonia</i>	<i>formosana</i>	USA: Washington	3	<i>Prunus</i> sp., under bark	USNM	First U.S. record
<i>Enarmonia</i>	<i>formosana</i>	Netherlands	2	<i>Prunus</i>	TMG	ex. Plant Protection, Wageningen
<i>Epiphyas</i>	<i>postvittana</i>	USA: California	100+	various	CSCA	
<i>Epiphyas</i>	<i>postvittana</i>	Australia: WA	5	ex. greenhouse	ANIC	WA mtDNA variant
<i>Epiphyas</i>	<i>postvittana</i>	USA: California	50+	lab colony	USDA/CSCA/TMG	USDA Albany lab colony
<i>Eupoecilia</i>	<i>ambiguella</i>	France	1	grapes	USNM	51-9772; Boston 19268; labeled <i>Clysia ambiguella</i>
<i>Eupoecilia</i>	<i>ambiguella</i>	Italy	1	apricot	USNM	61-27730; N.Y. 172151; labeled <i>Clysia ambiguella</i>
<i>Eupoecilia</i>	<i>ambiguella</i>	Italy: Trentino	25+	lab colony	TMG/CSCA	ex. lab colony

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<i>Grapholita</i>	<i>delineana</i>	USA: Nebraska	9	<i>Cannabis sativa</i> , seed heads	USNM	
<i>Grapholita</i>	<i>funebrana</i>	Austria	2	<i>Prunus</i> sp. (plum), fruit	USNM	67-20469; Boston 36789; labeled <i>Grapholitha</i> [sic] <i>funebrana</i>
<i>Grapholita</i>	<i>funebrana</i>	Portugal	1	peaches	USNM	67-22183; JFKIA 16860; labeled <i>Grapholitha</i> [sic!] <i>funebrana</i>
<i>Grapholita</i>	<i>funebrana</i>	Netherlands	2	plum	TMG	ex. Plant Protection, Wageningen
<i>Grapholita</i>	<i>interstinctana</i>	USA: Arkansas	3	<i>Trifolium reflexum</i> , heads	USNM	1 larva, 2 adults in microvial; labeled <i>Grapholitha interstinctana</i>
<i>Grapholita</i>	<i>interstinctana</i>	USA: Maryland	3	clover, in flowers & buds	USNM	2 larvae decapitated with heads loose in vial; labeled <i>Grapholitha interstinctana</i>
<i>Grapholita</i>	<i>molesta</i>	Portugal	2	peaches	USNM	67-22183; JFKIA 16866; labeled <i>Grapholitha</i> [sic] <i>molesta</i>
<i>Grapholita</i>	<i>packardi</i>	USA: Ohio	8	blueberry	USNM	62-30524; larvae in microvial; labeled <i>Grapholitha packardi</i>
<i>Grapholita</i>	<i>prunivora</i>	USA: Connecticut	12	apple	USNM	labeled <i>Laspeyresia prunivora</i>
<i>Henricus</i>	<i>macrocarpana</i>	USA: California	26	<i>Cupressus macrocarpa</i> , in cones	USNM	13 larvae, 2 enclosed larval skins, 11 pupae; labeled <i>Henricus macrocarpanus</i>
<i>Lobesia</i>	<i>botrana</i>	Italy	1	grapes	USNM	61-27394; N.Y. 171561; pupa
<i>Lobesia</i>	<i>botrana</i>	USA: California	100+	grapes	CSCA/TMG	Napa Co., example PDR #1586700
<i>Lobesia</i>	<i>botrana</i>	Chile: Santiago	12	wine grapes	TMG	ex. University of Chile, R. H. Gonzalez
<i>Pandemis</i>	<i>limitata</i>	USA: New Hampshire	1	<i>Betula populifolia</i>	USNM	70-14720
<i>Pandemis</i>	<i>pyrusana</i>	USA: California	12+	various	CSCA	
<i>Pandemis</i>	<i>pyrusana</i>	USA: California	5	[no data]	UCB	J. A. Powell reared
<i>Paralalobesia</i>	<i>liriodendrana</i>	USA: Virginia	10	tulips	USNM	labeled <i>Polychrosis liriodendrana</i>
<i>Paralalobesia</i>	<i>viteana</i>	USA: Arizona	1	grapes	USNM	labeled <i>Polychrosis viteana</i>
<i>Paralalobesia</i>	<i>viteana</i>	USA: New York	1	grapes	USNM	Lot 36-30576; larval skin; labeled <i>Polychrosis viteana</i>
<i>Planotortrix</i>	<i>excessana</i>	New Zealand	60	[no data]	USNM	labeled <i>Tortrix excessana</i>
<i>Platynota</i>	<i>flavedana</i>	USA: Louisiana	20	cotton	USNM	18 larvae, 2 pupae in microvial
<i>Platynota</i>	<i>idaeusalis</i>	USA: Florida	4	string beans	USNM	labeled <i>P. ideusalis</i> [sic]; 1 adult sans abdomen; 2 larvae, 1 pupal shell in microvial; 1 larval skin in second microvial
<i>Platynota</i>	<i>nigrocervina</i>	USA: Texas	9	cotton	USNM	5 larvae, 3 adults, 1 pupa
<i>Platynota</i>	<i>stultana</i>	USA: California	3	[no data]	UCB	J. A. Powell reared
<i>Sparganothis</i>	<i>distincta</i>	USA: Florida	3	<i>Solidago</i> sp.	USNM	3 larvae in microvial
<i>Sparganothis</i>	<i>sulfureana</i>	USA: South Carolina	6	[no data]	USNM	Int'l paper Co., Marlboro Co., S.C. 19 Jul 1989, D.G. Manley, collr.
<i>Sparganothis</i>	<i>sulfureana</i>	USA: Florida	1	[no data]	UCB	J. A. Powell reared
<i>Sparganothis</i>	<i>tunicana</i>	USA: California	1	[no data]	CSCA	
<i>Thaumatotibia</i>	<i>leucotreta</i>	South Africa	50+	lab colony	CSCA	ex. lab colony
<i>Tortrix</i>	<i>viridana</i>	France	19	oak	USNM	pupae

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<i>Tortrix</i>	<i>viridana</i>	France	20	oak	USNM	
<i>Tortrix</i>	<i>viridana</i>	France	2	oak	TMG	ex. Plant Protection, Wageningen
<i>Tortrix</i>	<i>viridana</i>	Netherlands	1	oak	TMG	ex. Plant Protection, Wageningen
<i>Xenotemna</i>	<i>pallorana</i>	USA: Virginia	4	alfalfa	USNM	57-6082

\* No. = number of specimens in the collection. Not all specimens were examined.

### Collection abbreviations:

ANIC = Australian National Insect Collection, CSIRO, Canberra

CSCA = California State Collection of Arthropods, CDFA, Sacramento

TMG = Todd M. Gilligan collection, Loveland, CO

UCB = University of California, Berkeley, Essig Museum of Entomology

UCR = University of California, Riverside

USNM = United States National Museum, Smithsonian, Washington, D.C.