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CANARY YPSOLOPHA

Ypsolopha canariella

Uncommon

36a-0146 (2371)



TL 10 mm Dimorphic. Brownish-yellow FW has brown V-shaped shading adjacent to slanting pale PM line, with a blackish dot at apex of V shape. Stripe-backed morph has a yellowish-brown FW, with wide, pale yellow stripe along inner margin that usually projects as tooth at PM line. Anal angle is falcate. Typically rests with antennae held forward. **HOSTS** Honeysuckle, snowberry, and willow. **NOTE** *Y. dentiferella* has recently been synonymized with Canary Ypsolopha.



FAWN YPSOLOPHA

Ypsolopha cervella

Uncommon

36a-0147 (2372)



TL 7-10 mm Orange-brown FW has black speckles and black spots along inner margin at AM and median areas. Anal angle sometimes slightly falcate. Typically rests with antennae held forward. **HOSTS** Coast live oak and other oaks.



PENNANT YPSOLOPHA

Ypsolopha cockerella

Rare

36a-0148 (2373)



TL 10-11 mm White FW has golden-brown stripes along costa except at apex, and along inner and outer margins. Scales of fringe are longer at anal angle. Typically rests with antennae held forward. **HOSTS** Unknown.



SCYTHED YPSOLOPHA

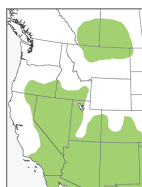
Ypsolopha falciferella

Uncommon

36a-0153 (2380)



TL 11-14 mm Light brown FW has indistinct brown AM, PM, and ST bands. Veins are slightly traced with brown. Black speckles across wing are raised tufts near inner margin. Apex is strongly falcate, and anal angle bulges to create concave curve along outer margin. Typically rests with antennae held forward. **HOSTS** Bitter cherry, chokecherry, and other *Prunus* species.



STREAKED YPSOLOPHA

Ypsolopha barberella

Rare

36a-0144 (2370)



TL 11-12 mm Hoary brown FW has a thick blackish streak down central wing, with a thin sliver-like tooth at median area; inner side is edged with hoary gray shading. FW is narrow and lacks falcate tips. Typically rests with antennae held forward. **HOSTS** Willow.



OCHRE YPSOLOPHA

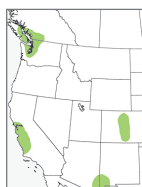
Ypsolopha ochrella

Rare

36a-0159 (2391)



TL 7-9 mm Orange-brown FW has black dots at inner median and central PM lines and a dark streak at central terminal area that extends into fringe. Some individuals may also show a darker or dusky streak down length of central FW. White antennae are typically held forward at rest. **HOSTS** Barberry.



DAME'S ROCKET MOTH

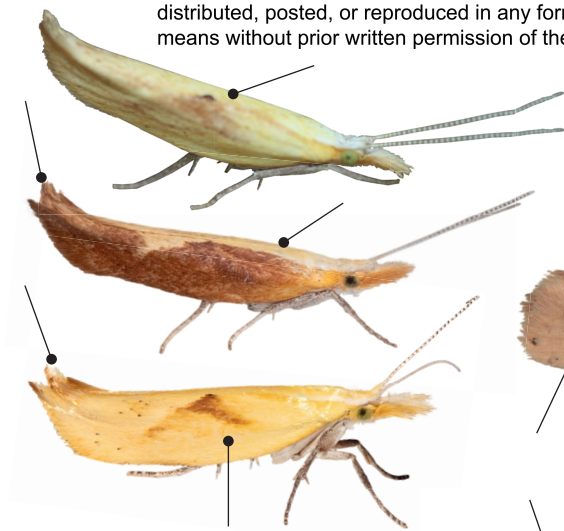
Plutella porrectella

[IN] Rare

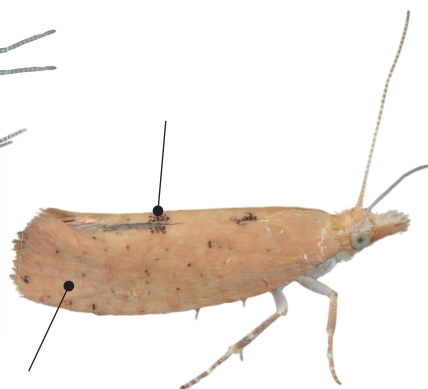
36a-0179 (2363)



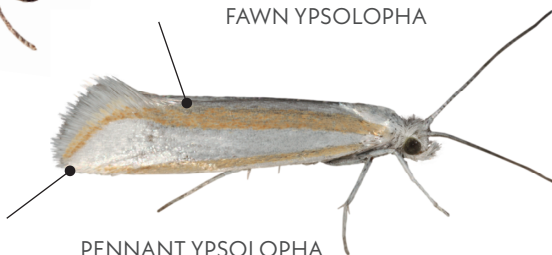
TL 7-8 mm Tan FW is streaked with brown and has thin blackish basal dash along inner margin and short blackish dash in central median area. Terminal line is blackish and often curves onto inner margin. Forward-facing antennae are dusky near tips. **HOSTS** Dame's rocket.



CANARY YPSOLOPHA



FAWN YPSOLOPHA



PENNANT YPSOLOPHA



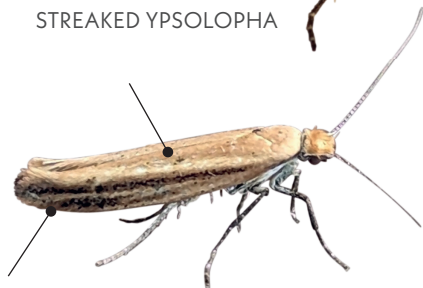
SCYTHED YPSOLOPHA



actual size



STREAKED YPSOLOPHA



OCHRE YPSOLOPHA



DAME'S ROCKET MOTH



DIAMONDBACK MOTH

Plutella xylostella

Very Common

36a-0180 (2366)

TL 7–8 mm Sexually dimorphic. Speckled, dark brown FW of male has a jagged, pale tan stripe along inner margin, edged with dusky shading. Paler female shows less contrast. **HOSTS** Brassicaceae.



INTERRUPTED SCHOLAR

Rhigognostis interrupta

Rare

36a-0182 (2360)

TL 8–9 mm Pale gray, speckled FW has thick, curving, black crescents at inner basal/AM and median areas. Inner and outer margins and costa have tiny black dots and two blackish patches on costa. Typically rests with antennae held forward. **HOSTS** Unknown.



SEDGE MOTHS

SUPERFAMILY Yponomeutoidea (36a)

FAMILY Glyphipterigidae SUBFAMILY Glyphipteriginae

Small moths with a broad, notched, outer margin to the forewing. Most species are brown to bronze, with bold patterns of white lines and metallic spots. Adults can be encountered both at flowers during daytime and at lights at night.



TWO-BANDED GLYPHIPTERIX

Glyphipterix bifasciata

Rare

36a-0194 (2339)

TL 5–9 mm Bronzy FW has white AM and PM bands and triangular white dashes with metallic silver tips along lower costa. Anal angle is black with four metallic silver spots. Narrow metallic PM line is sometimes indistinct. **HOSTS** Unknown. **NOTE** Primarily diurnal.



BRISTLE-LEGGED MOTHS

SUPERFAMILY Schreckensteinoidea (43a)

FAMILY Schreckensteiniidae

A unique superfamily with just three North American species. Small grayish moths with long pointed wings held in a V shape and long spiny hindlegs often raised above their wings when at rest. Adults can be encountered both at flowers during daytime and at lights at night.



BLACKBERRY SKELETONIZER

Schreckensteinia festaliella

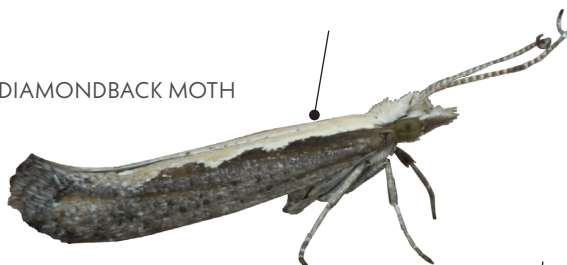
Rare

43a-0003 (2509)

TL 4–7 mm Strongly pointed tan FW has two narrow brown central streaks and a broad brown PM band. Typically rests with its wings held slightly flared and its spiky hindlegs raised. **HOSTS** California blackberry, thimbleberry, salmonberry, and other *Rubus* species.



DIAMONDBACK MOTH



actual size

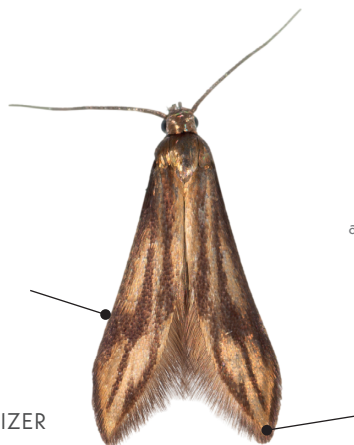


INTERRUPTED SCHOLAR



actual size

TWO-BANDED GLYPHIPTERIX



actual size

BLACKBERRY SKELETONIZER

METALMARK MOTHS

FAMILY Choreutidae

Very small moths with broad squared wings typically bearing areas of metallic scales. Some species flick their wings during display on host-plant leaves. Adults can be encountered both at flowers during daytime and at lights at night.



JEWEL TEBENNA

Tebenna gemmalis

Rare

47a-0039 (2644)

RANGE-WIDE

TL 6–9 mm FW is yellow orange in basal half, with slightly metallic central streak. Lower half is hoary gray, with three large, black-edged, metallic silver spots set in a whitish patch and a few small metallic spots scattered around it. **HOSTS** Arrowleaf balsamroot.



EVERLASTING TEBENNA

Tebenna gnaphaliella

Rare

47a-0044 (2647)

RANGE-WIDE

TL 4–5 mm Resembles Jewel Tebenna, but yellow-orange basal half has two metallic central streaks, and trio of black-edged metallic spots are arranged in a triangle, with central spot much larger than the others. Hoary gray lower half of FW lacks whitish patch and often appears to have a distinct gray median band. **HOSTS** Herbaceous plants, including cudweed, pussytoes, and strawflower.



APPLE LEAF SKELETONIZER

Choreutis pariana

[IN] Rare

47a-0046 (2650)

RANGE-WIDE

TL 7–9 mm Brown FW has a zigzag black AM line and thin, wavy, brown PM line set against broad grayish band. ST line is usually dusky or blackish, and terminal line is reddish. **HOSTS** Crab apple.



DIANA'S CHOREUTIS

Choreutis diana

Common (uncommon in South)

47a-0047 (2651)

RANGE-WIDE

TL 6–8 mm Grayish-tan FW has a wavy white AM line edged with blackish and narrow black patch at inner end of indistinct whitish PM area. Costal PM area has divided white patch. Terminal area is usually dusky. **HOSTS** Primarily alder, birch, willow, balsam poplar, and cherry.



BANYAN LEAF SKELETONIZER

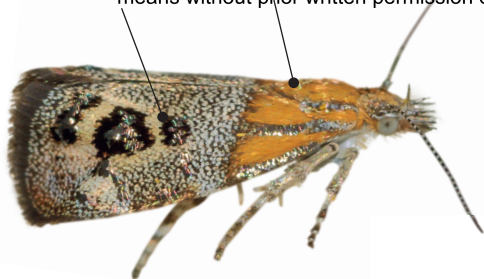
Choreutis sexfasciella

[IN] [Uncommon]

47a-0048.1 (2652.01)

RANGE-WIDE

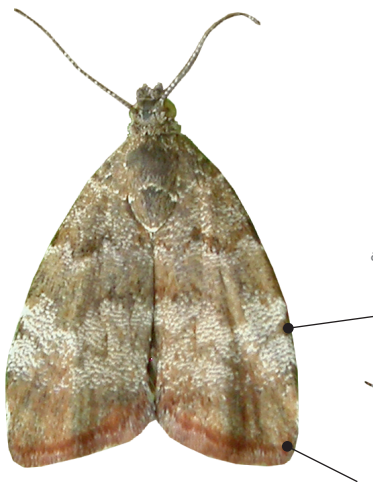
TL 6–8 mm Reddish-brown FW has brown, broad, straight AM and narrow wavy PM lines strongly edged with metallic gray. Central median area has irregular tan patch edged broadly in black below with small patches of metallic gray scales. **HOSTS** Fig and banyan.



JEWELLED TEBENNA



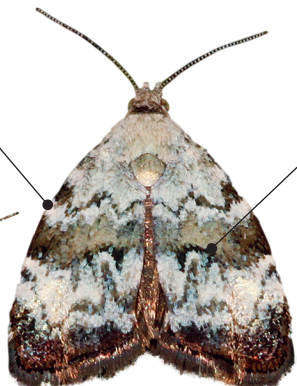
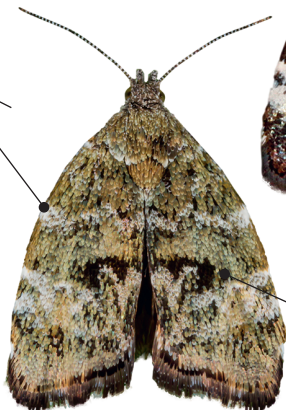
EVERLASTING TEBENNA



APPLE LEAF SKELETONIZER



actual size



DIANA'S CHOREUTIS



BANYAN LEAF SKELETONIZER

TORTRIX LEAFROLLERS

FAMILY Tortricidae SUBFAMILY Tortricinae,

TRIBES Torticini and Cnephasiini

Small flat moths with broad squared wings, sometimes with a curving costa. Many species have a dark triangular patch along the central costa, while other species are remarkably polymorphic. Caterpillars are typically leaf-rollers of woody plants. Adults are nocturnal and readily come to lights.



MAPLE LEAF-TIER MOTH

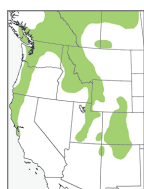
Acleris forsskaeana

[IN] Uncommon

51a-0001 (3501)

RANGE-WIDE

TL 7–9 mm Pale yellow FW has fine reddish to orange net-like pattern. Median and terminal lines are usually darker, sometimes brown or dusky, with a pair of small dark dots near inner margin. Some individuals have a dusky patch in place of dots, while others have a large dusky patch across entire inner median area. **HOSTS** Maple and sycamore.



RED-EDGED ACLERIS

Acleris albicomana

Uncommon

51a-0002 (3502)

RANGE-WIDE

TL 8–9 mm Tan FW is heavily mottled with orange. Reddish-brown basal, AM, PM, and terminal bands are often metallic. Some individuals have black spot at inner median area. **HOSTS** Rose; also red columbine, red oak, and blueberry.



SNOWY-SHOULDERED ACLERIS

Acleris nivisellana

Uncommon

51a-0010 (3510)

RANGE-WIDE

TL 7–8 mm FW has white basal half heavily mottled with gray, with raised tuft of brown scales at inner AM area. Lower half is mottled brown and gray, with warm brown at inner PM area. Costa has large dusky triangle from AM to ST area. Head is dark brown. **HOSTS** Pin cherry.



RHOMBOID TORTRIX

Acleris rhombana

[IN] Uncommon

51a-0011 (3511)

RANGE-WIDE

TL 9–12 mm Light orange-brown FW has fine net-like brown lines. Broad, dark brown, angled median bar usually has small white dot at inner end. Thin brown AM line is V-shaped, sometimes indistinct. In some individuals, median bar curves from costa to costal ST area, extending into large brown patch at inner median area. **HOSTS** Fruit trees and shrubs, including hawthorn, crabapple, cherry, and pear.



GARDEN ROSE TORTRIX

Acleris variegana

[IN] Uncommon

51a-0030 (3530)

NORTH

 SOUTH

TL 8–10 mm Polymorphic. Most common form has whitish basal half, with tufted scales at inner AM area, and mottled, dark brown to dark gray lower half. Tufts of scales along median line and outer ST area are usually slightly metallic. Many individuals have a dark brown patch at inner AM area with raised tufts of slightly metallic scales, and grayish mottling at inner median area. Uncommonly, some individuals have the lower half partly or entirely white, with just a dark triangle along costa from median to ST areas. Other morphs not typically seen in western North America. **HOSTS** Rosaceae, including apple, pear, cherry, hawthorn, and firethorn.



MAPLE LEAFTIER MOTH



RED-EDGED ACLERIS



SNOWY-SHOULDERED
ACLERIS



RHOMBOID TORTRIX



GARDEN ROSE TORTRIX



actual size

WESTERN BLACK-HEADED BUDWORM



Acleris gloveranus

Common (uncommon in South)

51a-0048 (3547)

TL 9–11 mm Polymorphic. Most common form has mottled, pale gray FW, with thick gray to black AM line, pale gray AM band below, and blackish crescents along costa from median to ST areas. Some individuals are hoary gray to brown, with indistinct AM band

and costal crescent. Uncommonly, some individuals have mottled gray FW, with broad tan stripe down center from base to apex. Rare individuals are gray, with thin black striations, dusky AM band, and tan basal patch. **HOSTS** Fir, Douglas-fir, and hemlock. **NOTE** Can be an abundant forest pest in some regions.



MARBLED BUTTON

Acleris maccana

Uncommon

51a-0050 (3549)

TL 10–13 mm Variable. Gray, tan, brown, or reddish FW has thin angled median line that may be tan or dusky and terminates in central wing. Outer basal area and triangle along costa from AM to ST areas are shaded darker. Thin PM line and small dark spot at inner basal area are often indistinct. **HOSTS** Generalist on woody

shrubs and trees, including huckleberry, blueberry, rhododendron, apple, birch, willow, and poplar.



GREAT ACLERIS

Acleris maximana

Uncommon

51a-0057 (3557)

TL 12–15 mm Variable. Hoary gray FW has thin lines of slightly raised whitish scales along AM and median lines. Sometimes has dusky or blackish bands along AM and median lines, occasionally with mottling in ST/terminal area. Sometimes has just blackish spots at inner AM, median, and PM areas; rarely, this form may

have entire AM and median areas also shaded darker gray. Some individuals have dusky spot at inner and costal AM line and fragmented dusky triangle at costa from median to PM areas. Large long wings for an acleris give the moth a particularly small-headed appearance. **HOSTS** Poplar and willow.



SILVER SHADE

Eana argentana

Uncommon

51a-0068 (3568)

TL 12–16 mm Long, satiny, white FW is unmarked. As wings become worn, they may develop a hoary gray appearance. **HOSTS** Roots of grass, willow, larch, and spruce. **NOTE** A complex of at least three cryptic species requiring more study.



GRAY-MARKED TORTRICID

Decodes basiplagana

Uncommon

51a-0072 (3573)

TL 8–10 mm Light gray FW is lightly striated with black. Pale, black-edged median band widens at inner margin and has short black dash in middle on inner margin. AM and PM bands are slightly darker gray. **HOSTS** Oaks.



ASHY TORTRICID

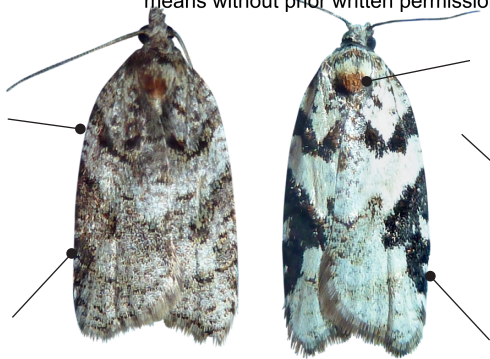
Decodes fragariana

Rare

51a-0073 (3574)

TL 7–9 mm Resembles Gray-marked Tortricid, but markings are less contrasting and lack distinct black striations or edging, and inner margin of pale median band lacks short black dash. **HOSTS** Oaks.





WESTERN BLACK-HEADED BUDWORM



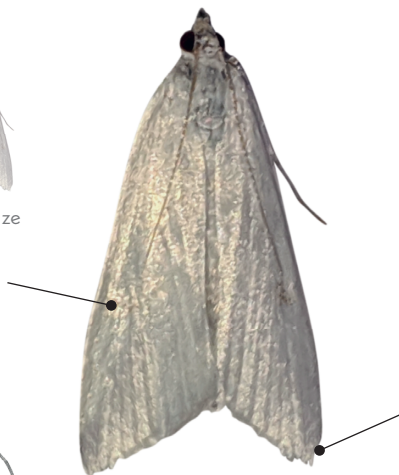
MARBLED BUTTON



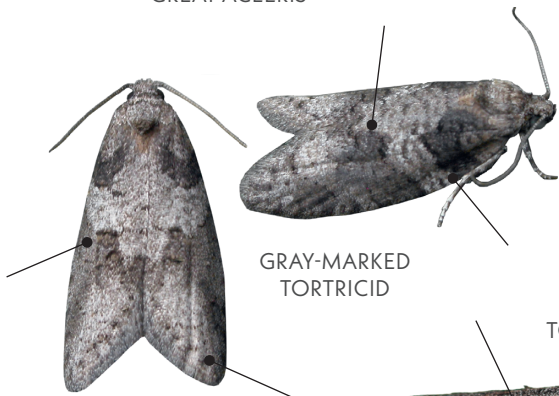
GREAT ACLERIS



actual size



SILVER SHADE



GRAY-MARKED
TORTRICID



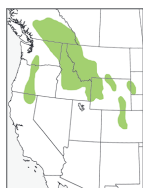
ASHY
TORTRICID

COCHYLID MOTHS

SUPERFAMILY Tortricidae (51a)

FAMILY Tortricidae SUBFAMILY Tortricinae TRIBE Cochylini

Small to very small moths with long, slightly flared wings held folded against the sides of the body and bushy labial palps that are typically held pointed downward at rest. This group was once considered its own family (Cochylidae). Caterpillars are typically borers. Adults are nocturnal and readily come to lights.



SULPHUR KNAPWEED MOTH

[IN] Common

RANGE-WIDE

Agapeta zoegana

51a-0089.1 (3762)



TL 8–13 mm Bright yellow FW has lumpy brown ST line in the shape of an inverted V and lumpy brown spot at inner median area. Terminal line and fringe are brown. Thorax has a brown tuft at base and brown stripes laterally. **HOSTS** Knapweeds, especially spotted knapweed. **NOTE** Intentionally released in 1984 for biological control of spotted knapweed.



CONTRASTING HENRICUS

Rare

RANGE-WIDE

Henricus edwardsiana

51a-0122.2 (3797)



TL 6–7 mm White FW has silvery-gray basal area mottled with dark brown that extends along inner margin to PM area. ST/terminal area has mottled grayish shading. **HOSTS** Associated with fly galls in fleabane.



CONE COCHYLID

Rare

RANGE-WIDE

Henricus fuscodorsana

51a-0123.1 (3798)



TL 8–10 mm White FW has warm brown basal area that extends along inner margin, often mottled with silver, to PM area, where brown PM band reaches to central FW. Apex and costal PM area are mottled with brown. **HOSTS** Cones of Douglas-fir, alpine fir, western larch, and coast redwood.



BROWN-SHOULDERED HENRICUS

Uncommon

NORTH

Henricus umbrabasana

51a-0126.1 (3801)



TL 6–10 mm Tan FW is lightly striated with gray or brownish. Dusky to brownish patch at inner margin of median area is mottled with metallic scales and has a small black dot adjacent. Upper half of basal area and thorax are brown. **HOSTS** Oaks.



SMEATHMANN'S AETHES

Uncommon

RANGE-WIDE

Aethes smeathmanniana

51a-0155.1 (3760.3)



TL 6–8 mm Pale tan FW has warm brown angled AM and split PM bands (sometimes edged with black) that terminate at central wing, and patches along costa at AM and PM lines. Basal, median, and ST areas are shaded tan along center. **HOSTS** Yarrow, chamomiles, knapweeds, and lettuces.



SULPHUR KNAPWEED MOTH



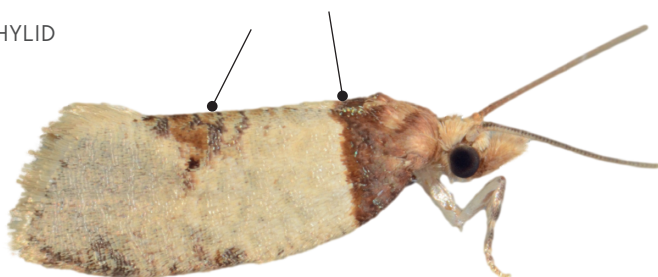
actual size



CONTRASTING HENRICUS



CONE COCHYLID



BROWN-SHOULDERED HENRICUS



SMEATHMANN'S AETHES





BLACK-TIPPED RUDENIA

Rudenia leguminana

Uncommon

51a-0161.1 (3839)



TL 6–9 mm Light gray to whitish FW has gray basal area with sparse black striations and dark gray ST/terminal area and inner median area. ST area has a small, black-outlined, dark brown patch at midpoint. Inner median and PM lines along gray median patch are black, usually with short raised scales.

Gray thorax has brown scale tufts. **HOSTS** Legumes, including acacia, locust, and mesquite.



CHRYSANTHEMUM FLOWER BORER

Lorita scarificata

Uncommon

51a-0169.1 (3803)



TL 4–6 mm Light tan FW has a mottled pattern of dark tan and light blackish patches. Inner AM and (often) PM, costal median, and central ST areas have blackish patches. Central basal and median areas and most of ST area have dark tan patches. In some individuals, some of the patches may be fainter

or indistinct. **HOSTS** Dodder; also cultivated species, including bell pepper and chrysanthemum.



HAPPY TORTRIX

Platphalonidia felix

Uncommon

51a-0206.1 (3831)



TL 7–10 mm Light tan FW has brown, angled median and curving ST bands; median is darker brown at inner margin, and ST band has a blackish spot at midpoint. Terminal line is checkered. **HOSTS** Groundsel, including threadleaf groundsel and Blochman's ragwort.



BROAD-PATCH COCHYLID

Thyralia nana

Rare

51a-0221.1 (3778)



TL 6–7 mm FW is mottled dark gray from base to median area, with darker striations, and dusky brown to blackish patch at inner median band and paler patch at inner basal area. Lower wing is ivory, with a warm brown wash and dusky gray patch at costa of ST area. **HOSTS** Unknown.



FERRUGINOUS EULIA

Eulia ministrana

Uncommon

51a-0227 (3565)



TL 9–11 mm Yellowish-tan FW has large rusty bands at basal, median, and terminal areas. Center of FW is often washed with rusty brown. Central PM area has a small whitish discal dash. Thorax is tufted with brown scales. **HOSTS** Deciduous trees and shrubs, including birch, rose, and willow.



TRIANGULAR ANOPINA

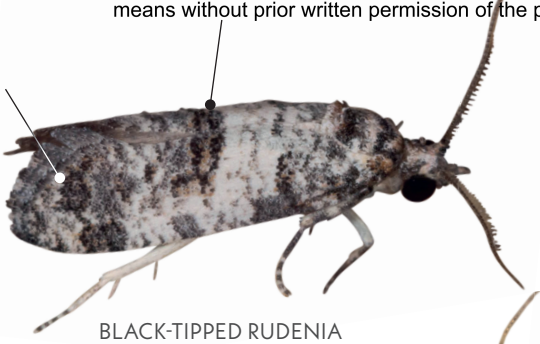
Anopina triangulana

Common

51a-0232 (3583)



TL 6–9 mm Tan to grayish FW is usually peppered with rusty scales and has triangular dusky patch in outer half of median area. Pale AM and PM bands become double at costa. Base of FW is narrowly dusky. In some individuals, entire lower half of wing is washed gray. **HOSTS** Willow.



BLACK-TIPPED RUDENIA



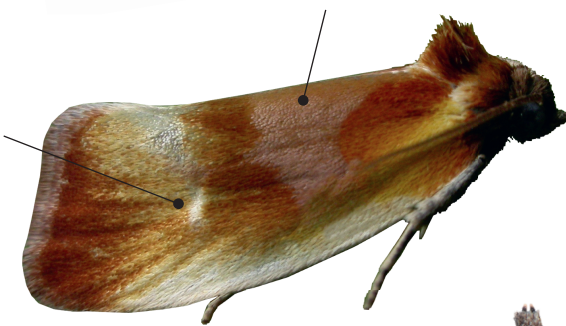
CHRYSANTHEMUM
FLOWER BORER



HAPPY TORTRIX



BROAD-PATCH COCHYLID



FERRUGINOUS EULIA



actual size



TRIANGULAR
ANOPINA

Small moths with broad squared wings typically bearing a pattern of transverse brown lines and bands or a reticulated pattern. Caterpillars are mostly leaf-rollers of woody plants; some can be serious crop pests of orchards or the forestry industry. Adults are nocturnal and readily come to lights.



BARRED FRUIT-TREE TORTRIX

[IN] Rare

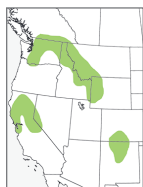
RANGE-WIDE

Pandemis cerasana

51a-0246 (3592)



TL 8–13 mm Light brown FW has a darker basal area bounded by curving AM line. Darker median band slants from costa of median area to inner margin of ST area. Costal ST area has a small darker semicircle. **HOSTS** Generalist on many deciduous trees; also several shrubs, including blueberry and European honeysuckle, and a few flowering plants, including avens and *Impatiens*.



PANDEMIS LEAFROLLER

Rare

RANGE-WIDE

Pandemis pyrusana

51a-0251 (3596)



TL 8–14 mm Resembles Barred Fruit-tree Tortrix, but AM line is wavy, with a distinct bulge near inner margin. **HOSTS** Willow; also cultivated fruit trees.



PASQUEFLOWER TORTRIX

Rare

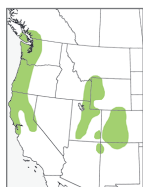
RANGE-WIDE

Argyrotaenia coloradana

51a-0267 (3608)



TL 9–12 mm Tan FW has broad reddish-brown basal and median bands and dark brown semicircle at costa of PM area. Basal half of FW is heavily suffused with rosy purple to warm brown. **HOSTS** Pasqueflower; possibly also other species.



CLOUDY-BANDED TORTRIX

Rare

RANGE-WIDE

Argyrotaenia provana

51a-0268 (3609)



TL 9–12 mm Light gray FW has gray basal and median bands and gray semicircle at costal PM area (sometimes also a small patch at central ST area), edged with blackish lines. Pale areas often show fine gray striations. **HOSTS** Fir and Douglas-fir.



ORANGE TORTRIX

Common

NORTH

Argyrotaenia franciscana

51a-0270 (3612)



TL 6–9 mm Highly variable. Pale tan, light brown, or reddish-brown FW usually has faint, short, brown striations. Broad median band is shaded slightly darker than ground color (sometimes faint) and slants from costal AM to inner margin of PM area; many individuals have a dusky to blackish bar at inner end of median band that flares along inner margin. Lower costa has a semicircular patch of a darker shade of ground color (sometimes faint). Outer margin is straight, and apex does not flare. **HOSTS** Broad generalist.

SOUTH





BARRED FRUIT-TREE
TORTRIX



PANDEMIS
LEAFROLLER



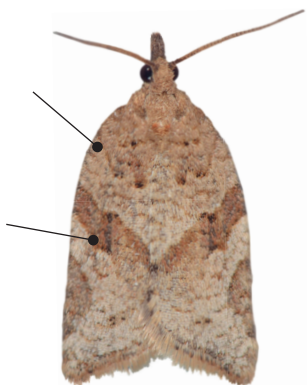
actual size



PASQUEFLOWER TORTRIX



CLOUDY-BANDED
TORTRIX



ORANGE TORTRIX



CHAMISE TORTRIX

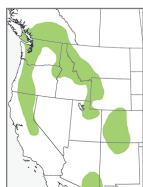
Argyrotaenia niscana

Rare

51a-0273 (3610)



TL 6–10 mm Warm brown FW has narrow, pale tan AM and PM bands, edged in central wing with blackish color. PM band connects to tan fringe at anal angle, and costal half of PM band is often whitish. Subapical area has two short, pale tan bars. **HOSTS** Chamise.



VARIABLE CONIFER TORTRIX

Argyrotaenia dorsallana

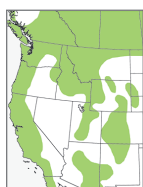
Uncommon

51a-0277 (3618)



TL 8–13 mm Variable. Pale tan to yellowish FW has a brown bar (sometimes widened into a patch) at inner margin of median area and two smaller brown patches on costa at AM and PM areas. Some individuals have reduced or absent patches on costa, while others have larger AM and median patches that almost join

to form a band. Occasionally, individuals have brown reticulations below small median patch and in terminal area. **HOSTS** Fir, Douglas-fir, larch, spruce, juniper, and whitecedar; also oak.



OBLIQUE-BANDED LEAFROLLER

Choristoneura rosaceana

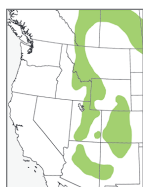
Common

51a-0300 (3635)



TL 8–14 mm Light brown FW has short brown striations and a thin, brown, slanting median line broadly bordered by brown shading. Thin brown PM line curves basally to costa, framing a dark brown costal patch. Basal and ST/terminal areas are sometimes faintly shaded brown. Outer margin is slightly

wavy, and rounded apex flares outward. **HOSTS** Woody plants, including apple, blueberry, oak, and pine.



LARGE ASPEN TORTRIX

Choristoneura conflictana

Uncommon

51a-0302 (3637)



TL 13–18 mm Grayish brown FW is very broad, with a wide whitish AM band bordered by darker gray. Dark gray striations are primarily visible in ST and terminal areas. **HOSTS** Primarily quaking aspen; also other poplars and willow. **NOTE** Can be an abundant forest pest in some regions.



SPRUCE BUDWORM

Choristoneura fumiferana

Common

51a-0303 (3638)



TL 11–15 mm Variable reddish-brown to gray, and virtually identical to Western Spruce Budworm; best identified by range and host species. Populations tend to average more gray individuals than rusty. **HOSTS** Balsam fir and white spruce; also hemlock, tamarack, and other spruce and fir.



WESTERN SPRUCE BUDWORM

Choristoneura occidentalis

Common

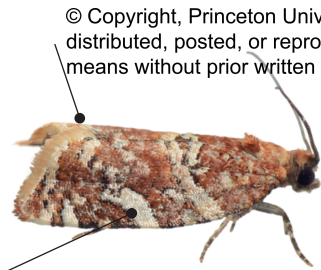
51a-0305.1 (3640)



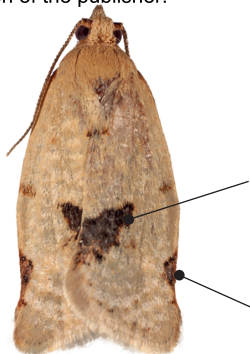
TL 12–18 mm Reddish-brown to gray FW has a lighter AM band and terminal area, usually lighter patch at central PM area, and pale square on costa at median area. Central median area has a vertical black bar, sometimes reduced to patchy black scales. Wing is usually covered with brown to black reticulations, sometimes reduced to

short striations. Best separated from Spruce Budworm by range and host species.

HOSTS Douglas-fir; also hemlock, spruce, fir, and larch. **NOTE** Part of a complex of multiple, very similar western species that can be difficult to separate; one of the most common, Modoc Budworm (*C. retiniana*, not shown), is found on fir in CA, OR, ID, and UT and is similar but tan, with stronger pale patches in PM area.



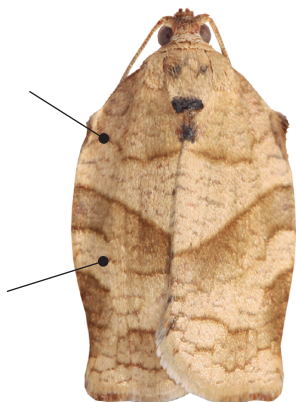
CHAMISE TORTRIX



VARIABLE
CONIFER TORTRIX



actual size



OBLIQUE-BANDED
LEAFROLLER



LARGE ASPEN TORTRIX



SPRUCE BUDWORM



WESTERN SPRUCE BUDWORM



SUGAR PINE TORTRIX
Choristoneura lambertiana

Uncommon
51a-0309 (3644)



TL 11–15 mm Resembles Western Spruce Budworm, but rusty FW lacks any black scales in median area or along reticulations, and reticulations are weaker, particularly along pale bands. Southern populations are darker reddish orange. Northern populations may have a small black dash in median area. **HOSTS** Sugar and ponderosa pine in North; lodgepole and Jeffrey pine in South. **NOTE** Similar Jack Pine Budworm (*C. pinus*, not shown), found on jack pine in AB, SK, MB, and eastward, has strong rusty reticulation.



JUNIPER BUDWORM
Choristoneura houstonana

Uncommon
51a-0313 (3647)



TL 10–12 mm Orange-brown FW has a reticulated pattern of dark brown lines, shaded slightly darker in between at basal, median, and ST areas. Paler areas are often slightly raised, creating a bumpy appearance. **HOSTS** Juniper.



ROSE TORTRIX
Archips rosana

[IN] Uncommon
51a-0320 (3650)



TL 7–11 mm Lightly striated, light to golden-brown FW has angled brown median band that broadens at inner margin and rectangular brown patch along lower costa that tails out along ST line. Inner basal area is shaded brown. Brown areas are sometimes edged with thin, dark brown lines. **HOSTS** Broad generalist.

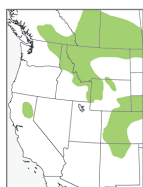


FRUIT-TREE LEAFROLLER
Archips argyrospila

Common
51a-0323 (3648)



TL 8–13 mm Reddish-brown FW is mottled reddish gray along indistinct AM and PM bands and has squarish ivory patches on costa of bands. Median band and costa adjacent to ivory patches is usually darker reddish brown. Some individuals appear more tan, with brown markings. **HOSTS** Fruit-bearing trees and plants, including apple, blueberry, peach, and pear.



UGLY-NEST CATERPILLAR MOTH
Archips cerasivorana

Uncommon
51a-0334 (3661)



TL 11–13 mm Purplish pink FW is crossed with orange to orange-brown striations. Costa at AM and PM bands, and inner median area, have squarish, dark reddish patches; sometimes also has dark reddish marks at inner basal area. **HOSTS** Wild cherries; also cultivated cherry, chokecherry, apple, hawthorn, and roses. **NOTE**

Larvae form silken webs in their host plant resembling those of tent caterpillars but present later in the season.



CARNATION TORTRIX
Cacoecimorpha pronubana

[IN] Uncommon
51a-0349 (3678)



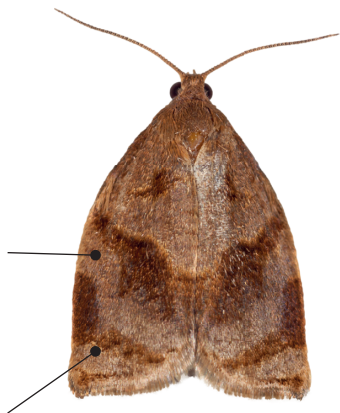
TL 8–12 mm Orange-brown FW has thick, angled, brown median band that is connected along inner margin to brown ST/terminal area. Inner basal area has a small brown patch. Brown areas are sometimes indistinctly edged with thin brown lines. FW often has short brown striations and sometimes has a rosy wash over lower half. **HOSTS** Generalist on a wide variety of herbaceous plants.



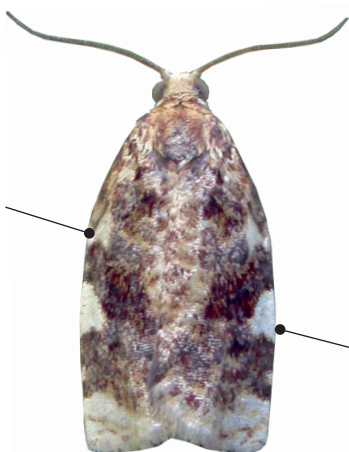
SUGAR PINE TORTRIX



JUNIPER BUDWORM



ROSE TORTRIX

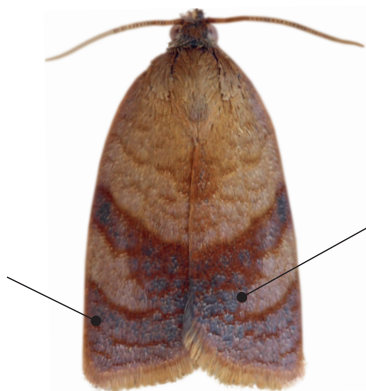


actual size

FRUIT-TREE LEAFROLLER



UGLY-NEST CATERPILLAR MOTH



CARNATION TORTRIX

WHITE TRIANGLE TORTRIX



Clepsis persicana

Common (uncommon in South)

51a-0357 (3682)



TL 10–11 mm FW has yellow-orange basal half, reddish-brown lower half, and bold white triangle at costa of median area. Fringe is pale. In some individuals, white costal patch is more rectangular, and inner end seems to diffuse into central wing. **HOSTS** Various trees, including alder, apple, birch, maple, and spruce.



PRIVET TORTRIX

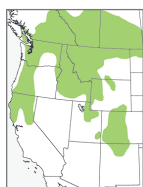
[IN] Common

Clepsis consimilana

51a-0359 (3683)



TL 8–10 mm Sexually dimorphic. Yellowish- to reddish-brown FW has an indistinct net-like pattern. Female FW is otherwise unmarked. Male has indistinct darker reddish-brown median band that angles down toward inner margin and an indistinct small reddish-brown patch at costal ST arc. Costal edge of wing is convex at midpoint. **HOSTS** Privet, lilac, and English yew.



CLEMENS' CLEPSIS

Uncommon

Clepsis clemensiana

51a-0360 (3684)



TL 10–11 mm Tan FW has darker tan along veins (sometimes indistinct). Outer margin relatively square, with pointed apex. **HOSTS** Grasses; also aster and goldenrod.



GARDEN TORTRIX

Very Common (rare in North)

Clepsis peritana

51a-0364 (3688)



TL 6–8 mm Lightly striated, light brown FW has dark brown patches at costal median and ST areas and slanting brown median band that ends at dark brownish shading at inner margin. **HOSTS** Herbaceous plants, including strawberry.



GREENISH APPLE MOTH

Uncommon

Clepsis virescana

51a-0366 (3689)



TL 6–9 mm Resembles Garden Tortrix, but median band is usually lighter and lacks dark shading at inner margin (sometimes also at costa). **HOSTS** Fresh and decaying leaves of *Prunus* and *Rosa*.



LIGHT BROWN APPLE MOTH

[IN] Common

Epiphyas postvittana

51a-0368 (3693.1)

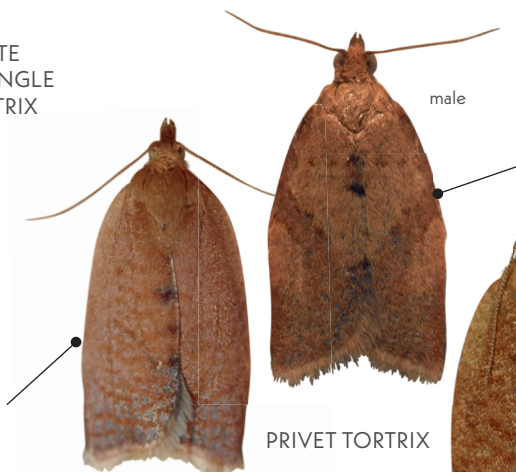


TL 7–12 mm Variable. Brown FW has an indistinct, darker brown, net-like pattern, a thin, brown, slanting median line, and a thin brown crescent along lower costa. Broad band of reddish-brown shading along inner and outer margins is sometimes indistinct. Some individuals are entirely dark reddish brown below median

line. Uncommonly, sometimes all markings except net-like pattern are nearly absent. **HOSTS** Generalist on many herbaceous plants and trees. **NOTE** Considered a serious pest of apples and other fruit.



WHITE
TRIANGLE
TORTRIX



male

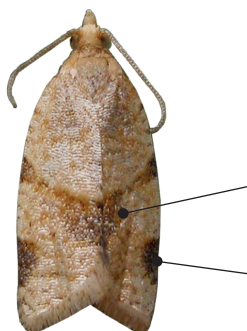
PRIVET TORTRIX



female



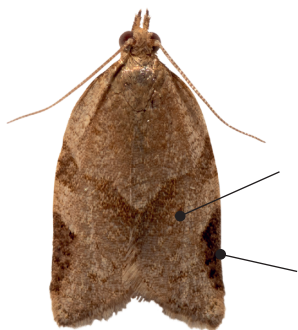
CLEMENS' CLEPSIS



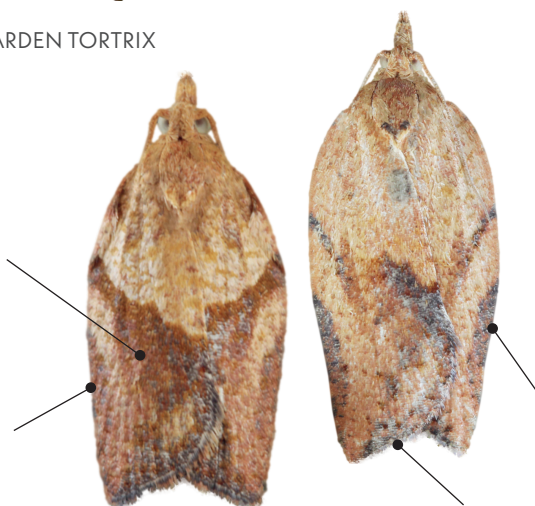
GARDEN TORTRIX



actual size



GREENISH APPLE MOTH



LIGHT BROWN APPLE MOTH



RED-BARRED TORTRIX

Ditula angustiorana

Uncommon

51a-0371 (3692)



TL 6–8 mm Reddish-brown (sometimes olive) FW has paler basal half, with slanting reddish-brown patch at inner basal area. Hoary, white-edged band slants from white patch at costa of median area to anal angle. Hoary, white-edged ST band slants from costa to midpoint of outer margin but, when wings are folded at rest,

appears as a straight band across both wings. Some individuals have a dusky patch at outer half of basal area. **HOSTS** Broad generalists at northern latitudes; recorded only from ornamental yew in CA.

SPARGANOTHID LEAFROLLERS

SUPERFAMILY Tortricoidea (51a)

FAMILY Tortricidae SUBFAMILY Tortricinae TRIBE Sparganothini

Small moths with broad, slightly pointed wings and relatively long labial palps. Many species are yellow or orange, with rusty bands or reticulations. Males of most species are often more strongly marked. Caterpillars are leaf-rollers of woody plants, and most are host generalists. Adults are nocturnal and readily come to lights.



WESTERN AVOCADO LEAFROLLER MOTH

Uncommon

Amorbia cuneana

51a-0373 (3749)

TL 10–15 mm Broad, rounded, tan FW has fine, light brown striations, thin, dark brown edging along costa and outer margin, and a hooked, dark brown triangle at costal median area. Apex is often slightly falcate. Some individuals have diffuse, dark brown patches in inner median area. Rare individuals may be dark brown

instead of tan. **HOSTS** Generalists, but particularly on manzanita, madrone, toyon, and *Prunus*.



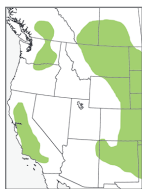
SPARGANOTHIS FRUITWORM

Uncommon

Sparganothis sulfureana

51a-0390 (3695)

TL 7–12 mm Yellow FW has a loose network of fine orange lines (occasionally absent) and straight brownish-orange AM and PM lines that join at inner margin to form a distinct X shape when wings are folded at rest. Terminal line has brownish-orange band. Some individuals have dark reddish or brown patches at midpoint and inner margin of AM and PM lines, and sometimes also costa. **HOSTS** Various trees and plants, including apple, clover, corn, cranberry, pine, and willow.



ONE-LINED SPARGANOTHIS

Rare

Sparganothis unifasciana

51a-0396 (3711)

TL 10–12 mm Yellow FW has a slanting reddish-brown bar from costal AM to inner margin of PM areas and reddish-brown patches at costal PM and central ST areas. **HOSTS** Various trees and herbaceous plants, including ash and pine.



ANCIENT SPARGANOTHIS

Uncommon

Sparganothis senecionana

51a-0406 (3714)

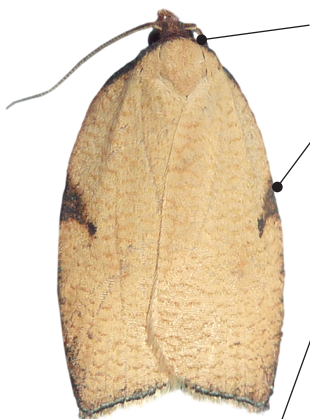
TL 8–13 mm Variable. Most commonly, yellowish-brown (rarely whitish or brown) FW has a slanting brown AM bar and curving PM line bounding brown ST/terminal area. Rare individuals have a pale apical bar bisecting ST/terminal shading or only a shaded triangle at costa of ST area. **HOSTS** Broad generalist.



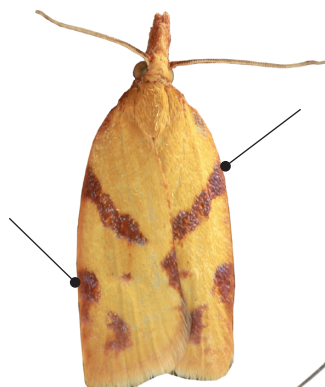
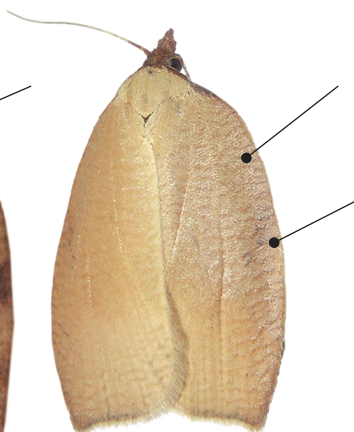
RED-BARRED TORTRIX



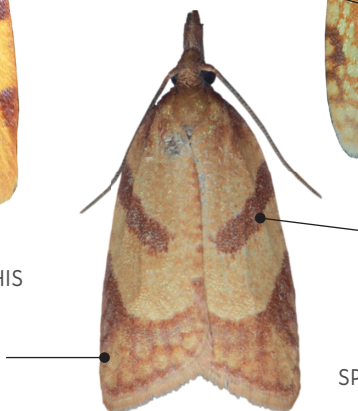
actual size



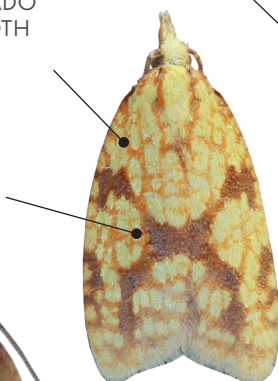
WESTERN AVOCADO
LEAFROLLER MOTH



ONE-LINED
SPARGANTHIS



ANCIENT
SPARGANTHIS



SPARGANTHIS
FRUITWORM



actual size



RETICULATED FRUITWORM *Uncommon (rare in South)*

Cenopis reticulatana

51a-0419 (3720)



TL 9–12 mm Resembles Sparganothis Fruitworm, but network of orange lines is dense, sometimes making FW appear more orange than yellow. AM and PM lines have brown patches at costa and inner margin but not at midpoint. Terminal line is a thin brown line. **HOSTS** Various trees, shrubs, and herbaceous plants, including alder, apple, aster, blueberry, maple, and oak.



TOASTED PLATYNOTA

Uncommon

Platynota labiosana

51a-0440 (3738)



TL 6–10 mm Brown FW has darker brown patches at costal median and ST areas. Angled median band is indistinctly shaded darker. Major transverse FW lines are marked by raised scales, with scale tufts (sometimes colored dark brown) at inner AM and median and central PM lines. **HOSTS** Generalist, including prickly poppy, okra, boneset, and penstemon.



OMNIVOROUS LEAFROLLER

Common

Platynota stultana

51a-0449 (3736)



TL 4–8 mm FW is mottled warm brown in basal half and tan in lower half, with large dusky patch at central median area and mottled, warm brown patch at costal ST area. Major transverse FW lines are marked by silvery raised scales, with scale tufts (sometimes colored dusky) at inner AM and central median lines.

Rare individuals appear in grayscale, with dark gray basal and medium gray lower half, and pale scale tuft at inner median line. **HOSTS** Broad generalist.

OLETHREUTINE MOTHS

SUPERFAMILY Tortricoidea (51a)

FAMILY Tortricidae SUBFAMILY Olethreutinae

A large and varied group of small moths with long squared wings typically held near or folded against the body. Most have a slight crease in the central ST/terminal area of the forewing. Adults are primarily nocturnal and readily come to lights, though some species can be encountered at flowers or in foliage during daytime.



VERBENA BUD MOTH

Uncommon

Endothenia hebesana

51a-0466 (2738)



TL 6–9 mm FW has a complexly mottled appearance. Dusky AM, PM, and ST bands are irregularly shaped; PM band has two prominent projections on lower edge. Outer median and lower basal area have bluish-gray patches. Terminal band and thoracic tuft are rusty. **HOSTS** Seeds of herbaceous plants, including iris, speedwell, and vervain.



RUSH BACTRA

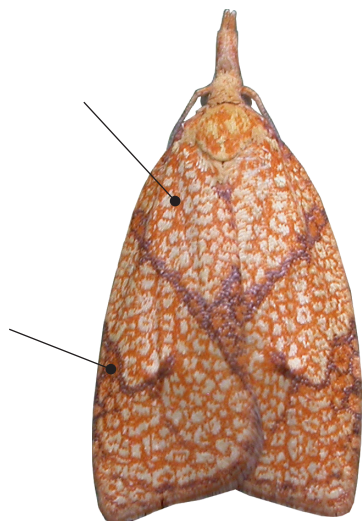
Rare

Bactra furfurana

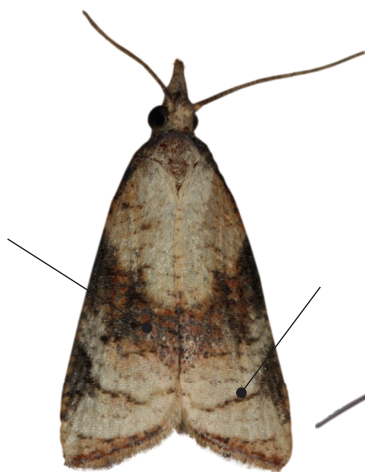
51a-0477 (2706)



TL 6–8 mm Light brown FW has a warm brown, black-speckled, hook-shaped median band with a blackish tip, a curving, warm brown AM band, and elongate, warm brown apical patch speckled black. Curving, metallic silver lines pattern the areas in between. Costa has paired white to tan dashes interspersed with dark brown spots. **HOSTS** Rush and bulrush.



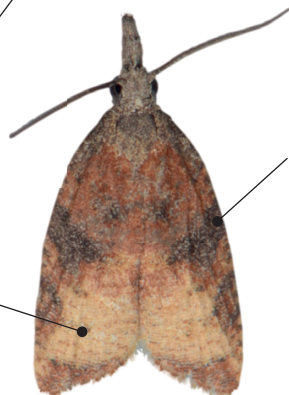
RETICULATED FRUITWORM



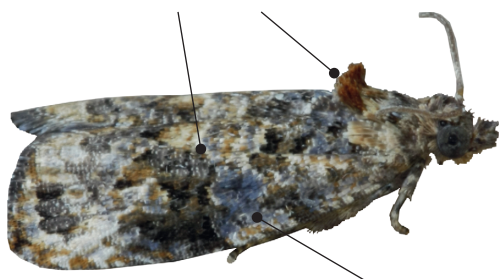
TOASTED PLATYNOTA



actual size



OMNIVOROUS
LEAFROLLER



VERBENA BUD MOTH



actual size



RUSH BACTRA



AXLE-IN MOTH

Bactra verutana

Uncommon
51a-0478 (2707)



TL 6–10 mm Light brown FW has dusky patches at central AM and PM areas (sometimes indistinct). Costa and outer margin are checkered. Some individuals are shaded slightly darker along inner half; others have sparse striations in central FW. **HOSTS** Flatsedge.



SUMAC LEAF-TIER

Episimus argutana

Rare
51a-0485 (2701)



TL 7–8 mm Mottled brown FW has black-edged brown patches (sometimes indistinct) at inner AM and outer PM areas; the latter has a narrow, black-edged, brown line crossing to inner margin. Lower half of wing has dark bluish-gray shading between mottling, particularly dense in inner ST area. Inner terminal area

has three or four black spots set inside a brown patch. **HOSTS** Spurge, poison ivy, sumac, and witch hazel.



GREEN ASPEN LEAFROLLER

Apotomis removana

Uncommon
51a-0523 (2768)



TL 10–13 mm Mottled gray FW has irregular, black-edged, dark gray AM, PM, and ST bands; PM band splits near midpoint to become two narrower bands in inner half. Some individuals have dusky fill in costal half of PM band, and sometimes at costa of AM band. Rare individuals have a dark, diffuse streak from base to PM area along inner margin. **HOSTS** Quaking aspen.



POPLAR LEAFROLLER

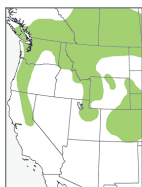
Pseudosciaphila duplex

Common (uncommon in South)
51a-0538 (2769)



TL 9–13 mm Mottled, light gray FW has a white hourglass-shaped AM band, with a tooth near midpoint projecting into median area. White PM band runs diagonally to anal angle, becoming diffuse in inner half. Lower costa has white dashes, and brown apex usually contains a black spot. Thoracic tuft is brown or gray.

Rare dark morph is charcoal, with blackish basal and median bands and brown terminal line and apex; some individuals have a white wash across ST/terminal area. **HOSTS** Poplar; also alder, birch, maple, and willow.



CELYPHA MOTH

Celypha cespitana

Common (uncommon in South)
51a-0629 (2859)



TL 7–9 mm Mottled brown FW has white AM band with gray striations. Often-indistinct PM band crosses to anal angle, with a basal-pointing bulge near midpoint. Costa has paired white dashes along lower half. **HOSTS** Clover, cottonwood, and strawberry.



OFF-WHITE HEDYA

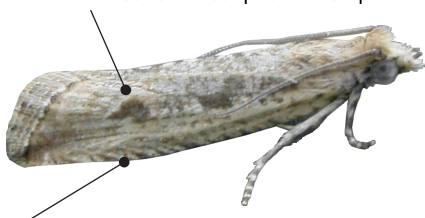
Hedya ochroleucana

Uncommon
51a-0635 (2861)



TL 8–12 mm FW is ivory below PM line and marbled brown, black, and white above, with large black-speckled patches of dark bluish gray at inner basal, outer median, and central PM areas.

HOSTS Apples, mountain-ashes, and roses.



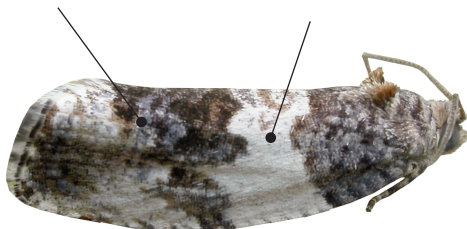
JAVELIN MOTH



SUMAC LEAFTIER



GREEN ASPEN LEAFROLLER



POPLAR LEAFROLLER



actual size



CELYPHA MOTH



OFF-WHITE HEDYA





GREEN BUDWORM MOTH

Hedya nubiferana

UN1 Uncommon

51a-0636 (2862)



TL 9–11 mm Resembles Off-white Hedya, but ivory section has gray patch at anal angle and brownish shading across terminal area, and blue-grayish color extends into entire basal and median bands. **HOSTS** Hawthorn and blackthorn.



SIMILAR ANCYLIIS COMPLEX

Ancyliis columbiana/simuloides

Uncommon

51a-0650/1 (3362/3)



TL 8–11 mm Ivory FW has a large, warm to dark brown patch in inner basal, AM, and median areas that creates a prominent oval dorsally when wings are folded at rest. Thick median bar slants down to connect to triangular patch in central PM area. Inner PM, ST, and terminal area is speckled gray. Costa has squat brown triangles below median bar and brown spot at falcate apex. Similar (*A. simuloides*) and Columbia (*A. columbiana*) *Ancyliis* can be separated only by DNA or genitalia.

HOSTS Ceanothus.



SERVICEBERRY LEAFFOLDER

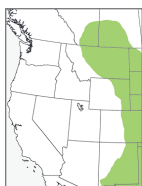
Ancyliis mediofasciana

Rare

51a-0673 (3384)



TL 8–12 mm Mottled brownish-gray FW has a wide white costa, with a thick gray median bar. Central AM area has a warm brown patch mottled with black. Falcate apex has a black spot surrounded by warm brown dashes. Costa edge has small blackish dots. Head is brown. **HOSTS** Not fully known; has been reared from chokeberry, serviceberry, and *Prunus*.



SNOWY TORTRICID

Hystichophora vestaliana

Rare

51a-0689 (3399)



TL 10–13 mm White FW has a crisp black terminal line, sometimes edged with warm brown shading, and short black dashes along lower half of costa. Inner PM area has a small black dot. Apex is pointed. **HOSTS** Unknown.



KNOTTY RETINIA

Retinia sabiniana

Uncommon

51a-0725 (2896)



TL 10–14 mm Golden-orange FW has white median and ST bands, with patches of raised scales in central wing along usual positions of cross-lines. Thorax has a white band at posterior. **HOSTS** Pines.



FIR TWIG RETINIA

Retinia piciccola

Rare

51a-0731 (2901)



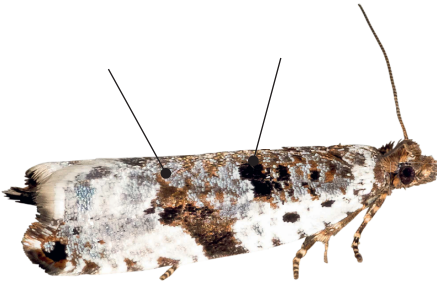
TL 13–18 mm Mottled gray FW has curving black crescent in ST area connecting to brown shading along outer margin and black spot on inner margin of PM area. Head is orange. **HOSTS** Firs.



GREEN BUDWORM MOTH



SERVICEBERRY LEAFFOLDER



KNOTTY RETINIA



SIMILAR ANCYLIS
COMPLEX



SNOWY TORTRICID



FIR TWIG RETINIA



actual size



KNOTTY RETINIA



FIR TWIG RETINIA



DOUGLAS-FIR CONE MOTH

Barbara colfaxiana

Rare

51a-0733 (2903)

RANGE-WIDE



TL 9–10 mm Gray FW has warm brown along outer margin and around apex to costal PM area and is sometimes streaked through central wing. Irregular, darker gray, transverse bands are sometimes thinly outlined with black. **HOSTS** Cones of Douglas-fir and fir.



EYE-SPOTTED BUD MOTH

Spilonota ocellana

[IN] Uncommon

51a-0735 (2906)

RANGE-WIDE



TL 6–9 mm FW has mottled brown and gray basal/AM area, and whitish median/PM area mottled with gray and brown in costal half. Inner margin of PM area has a smallish gray and black triangle. Inner ST area has a gray stripe. Outer ST area has a patch of thick black dashes. **HOSTS** Generalist, primarily of deciduous trees.



WESTERN PINE SHOOT BORER

Eucopina sonomana

Rare

51a-0737.3 (3065)

RANGE-WIDE



TL 9–12 mm Orange FW has reddish shading along costa and central wing and silvery AM, PM, and terminal bands mottled with orange. Basal area has scattered silvery scales. Fringe, head, and thorax are ivory. **HOSTS** Ponderosa, lodgepole, and Bishop pine and Engelmann spruce.



PINYON CONEBORER

Eucopina bobana

Rare

51a-0737.4 (3067)

RANGE-WIDE



TL 9–14 mm Golden-orange FW has rusty-orange basal, AM, PM, and ST bands edged with white lines; rusty bands typically contain scattered blackish scales, particularly in ST band. PM band often appears as connected but slightly offset squares. ST band has a broad squarish section at midpoint. Costa has two small rounded semicircles between PM and ST bands, the most basal sometimes thinly connected to PM band. Thorax is golden orange. **HOSTS** Pinyon pine.



PONDEROSA CONEBORER

Eucopina ponderosa

Rare

51a-0737.45 (3068)

RANGE-WIDE



TL 9–12 mm Resembles Pinyon Coneborer, but rusty-orange bands have very little black shading and the edging along bands is silvery gray, sometimes peppery. Thorax is golden orange, shaded rusty at anterior. **HOSTS** Ponderosa and Jeffrey pine.



LODGEPOLE CONEBORER

Eucopina rescissoriana

Rare

51a-0737.6 (3071)

RANGE-WIDE



TL 9–12 mm Resembles Ponderosa Coneborer, but rusty basal and AM bands are close together, with the narrow band between them often also rusty, and the silvery lines tend to be more densely peppered. The dark bands are frequently deeper reddish orange. Thorax is reddish, with gray posterior. **HOSTS** Lodgepole and western white pine.

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