

Leafroller Species	Common Name	Head Capsule Coloration	Thoracic Shield Coloration	Body Coloration	Egg location and appearance	Larvae attack	Overwintering form	Time larvae present	# of generations per season
<i>R. nanella</i>	Lesser bud moth (Lesser brown burworm)	Dark brown	Black w/ green posterior and lateral margins	Light brown (final instar: greenish, orange-green, or	Singly/groups of 3-4, both sides of leaf, Oblong-cylindrical, pale yellow	Buds, leaves	Half-grown larva	June	1
<i>P. incana</i>	Two-leaf tier	Yellow	Amber, yellow	Pink, greenish yellow		Leaves	Pupal stage	Aug.-Sept.	1
<i>A. fusociliana</i>	Spider-web leaf folder	Amber	Yellow	Yellow, greenish	Singly, presumed to be flat discs, & ~0.5mm diameter	Leaves	Full-grown larvae Hibernation chamber of silk	Aug.-Sept.	1
<i>G. prunivora</i>	Lesser appleworm	Brownish yellow w/ fusous marks	Brown w/ dark brown posterior, anterior and lateral markings	Pink	Singly on young fruits or upper surface of leaves, flat oval discs, initially opaque whitish. Later yellowish w/ reddish embryo ring	Fruit, internal, shoots	Full-grown larvae	July, Sept.-Oct.	2
<i>D. ligulella</i>	Palmerworm	Brownish-yellow	U-shaped marks on the lateral & posterior margins	Olivaceous green stripes (may be fragmented)	Singly on new growth, oblong oval, ~0.35 by 0.15 mm, newly laid eggs are pearly white	Leaves, fruit	Adult stage	June-July	1
<i>A. nubeculana</i>	Apple leaf folder	Brownish-yellow	Single irregular markings on posterior-lateral	Olivaceous green	Singly on undersurface of apple leaves, flat, oval discs, ~0.8x0.6 mm initially translucent, then deep	Leaves	Full grown larvae within fallen leaf	Aug.-Sept.	1
<i>E. malanum</i>	Slender brown budworm	Dark brown	Dark Brown	Brown	Singly, presumably flat discs, slightly oval	Leaves	Half-grown larva within a hibernaculum on	June	1
<i>P. mali</i>	Pale apple budworm	Amber	Pale amber, concolorous with body, may be edged laterally w/ brown	Creamy	Singly in leaf scars and other crevices on fruit spurs and small holes woody growths, oval, plump, ~0.55 x 0.40 mm, initially creamy pink, turn dull purplish brown	Leaves, rarely fruit	Pupal stage (in soil w/in cocoon)	May-June	1
<i>S. ocellana</i>	Eye-spotted bud moth (Brown apple budworm)	Dark brown	Shiny dark brown	Dull, reddish, brown	Singly, on either leaf surface, oval in outline, flat discs ~0.83x0.67 mm, translucent creamy white until embryo forms	Buds, leaves, fruit	Third larval instar within hibernaculum on small diameter	June	1
<i>A. minuta</i>	Yellow-headed fireworm (lesser apple leaf-folder)	Amber		Greenish yellow	Singly, 1st generation lay eggs on apple wood, Adults from eggs of overwintering adults lay eggs on both surfaces of leaves flat, oval in outline, ~0.4x0.6 mm	Buds, leaves	Adult stage	June, Aug.	2
<i>H. chionosema</i>	Twin-spotted budworm	Green	Bright green	Bright yellowish green	Singly, presumably flat discs, ~0.6mm diameter	Buds	Half grown larvae within a hibernaculum on a	May-June	1
<i>S. diluticostana</i>	Spring dead-leaf roller	Red-brown	May have darker pigment around lateral and posterior margins, anterior	Feed on half-dead leaf tissue: pink/reddish Feed on green leaves: Pale		Leaves, fruit		June	1

<i>A. velutinana</i>	Red-banded leaf roller	Green-amber	Green	Green, but varies b/t yellow & gray depending on health & food	Laid by spring/overwintering generation: On trunk & scaffold limbs Irregularly oval, dull yellow/orange, large masses ~3 x 5 mm Laid by 1st generation adults: On leaves Whitish, thinly covered w/ cementing material	Leaves, fruit	Pupal stage within a folded lead in ground cover	June-July, Sept.-Oct.		2
<i>P. idaeusalis</i>	Tufted apple bud moth	Brown w/ dark brown and fasciae marks	Dark Brown	Dirty or brownish green body may have pale longitudinal	Overlapping patches containing >100 eggs initially apple-green, turns yellowish to light brown b/f	Leaves, fruit	mid-late instar larva within leaf litter on orchard	June-Aug.		1
<i>A. nivisellana</i>	Apple leaf twister	Blackish	Brown (or green) w/ black posterior-lateral spots	Dependent on food source Dead dying leaf tissue: Fig. C.	Presumably occur singly, disc-like. ~0.5mm diameter	Leaves	Partly grown larva (3rd instar)	Aug.-Sept.		1
<i>H. nubiferana</i>	Green budworm (Spotted apple budworm)	Black	Shiny black, pale along anterior edge	Grayish green, black pinacula or spots	Singly, usually on lower surface of leaf, flat oval discs, initially translucent, turn creamy, ~0.65 x 0.8 mm	Buds, leaves	3rd instar larva within a hibernaculum on a small diameter	May-June		1
<i>A. quadrifasciana</i>	Lesser all-green leaf roller	Green-amber		Yellowish/green, opaque w/ milky cast, thinly ringed w/ gold	Overlapping, oval/circular patches w/ ~50 eggs each, dull grayish, yellow, mass is ~ 4 x 6 mm	Leaves	3rd instar larva within a hibernaculum on a	May-June		1
<i>S. afflictana</i>	Fall dead-leaf roller	Amber	Light greenish brown w/ posterior-lateral spots	Pale, greenish gray	Patches on smooth bark of host tree	Leaves, fruit	Full grown larva within fallen leaf in ground cover	Sept.		1
<i>A. rosanus</i>	European leaf roller	Mod. Brown	Greenish brown-dark brown	Dull bluish green	Masses of ~60 on woody growth of hosts, oval outline, mass ~3 x 7 mm, dull orange - dark brown, winter changes it to bluish gray	Leaves, fruit	Egg stage	June		1
<i>A. mortuanus</i>	Dusky-black leaf roller	Brownish-yellow, dusky markings	May be brownish yellow, unmarked	Upper part is dark green, lower portion	Patches of ~60	Leaves, fruit		June		1
<i>C. pomonella</i>	Codling moth	Brownish-yellow w/ fasciae & fuscous marks	Dark speckling	Cream-pinkish	Singly on leaves and fruits, flat discs, oval outline, ~1.0 x 1.25 mm, initially translucent, later reddish embryonic ring visible	Fruit, internal	Full grown larva	July-Sept.		1
<i>F. epulatrix</i>	Candy-striped leaf tier	Brownish-yellow	Light reddish brown w/ dark posterior	Cream & reddish brown stripes		Leaves	Full grown larva	Sept.		1
<i>A. leucillana</i>	Well-marked leaf tier	Amber w/ elaborate blackish marks	Dark brown/blackish markings	Pale green to deeper green w/ bluish cast	Singly or in groups or 2-3, laid on upper surface of host leaves, cylindrical, pointed at one end and rounded at other, pale yellow, ~1 mm long and 0.5 mm wide	Leaves, fruit	Pupal stage	Aug.-Sept.		1
<i>A. griseus</i>	Black-shield leaf roller	Black	Black	Black (green)	Patches of ~50-60 on small diameter branches of primary host	Leaves, fruit	Egg stage	June		1
<i>A. argyrospilus</i>	Fruit-tree leaf roller	Dark brown	Amber, edged laterally with brownish pigment	Translucent light green	Patches of ~60 on small diameter twigs of primary host, 3 color changes; orange to dark brown to pale bluish gray	Leaves, fruit	Egg stage	June		1

<i>A. mariana</i>	Gray-banded leaf roller	Green, amber	Greenish amber	Yellowish green - green	Patches of ~20-120 on upper surface of leaves and on smooth bark of larger limbs, initially greenish yellow, turns to yellowish	Leaves, fruit	Pupal stage	Sept.		1
<i>C. rosaceana</i>	Oblique-banded leaf roller	Green to brown w/ variable marks	Moderate-dark brown	Yellowish green - grayish	Patches of ~200, dull greenish yellow, average size 5.3 x 9.2 mm	Leaves, fruit	3rd instar larva within	June, Aug.		2
<i>P. limitata</i>	Three-lined leaf roller (vari-spotted leaf roller)	Green-amber	Pair of posterior-lateral spots	Bright yellowish green	Overlapping patches on upper surface of apple leaves, oval outline, yellowish green	Leaves, fruit	3rd instar larva within a hibernaculum on	June, Aug.		2
<i>P. lamprosana</i>		Green-amber	Yellowish green	Yellowish green	Patches on upper surface of apple leaves, change from yellowish green to dull orange, ~ 3 x 5 mm	Leaves, fruit	3rd instar larva within a hibernaculum on	June-July		1
<i>A. humerosana</i>	White-line leaf roller	Green-brown w/ white line on front	Light green-brown, dark lateral edging	Yellowish green	Patches of ~65 on upper surface of apple leaves, light green eggs, milky-white egg mass	Leaves, fruit	Pupal stage within a cell within a fallen leaf	Sept.		1