

This list includes 86 species and 1 subspecies of butterfly known to have occurred in High Park to the end of September 2022 – more than half the butterflies listed for Ontario.

All species listed are known to or assumed to breed, or have bred, in High Park unless otherwise noted.

Common Name	Scientific Name	Status in High Park	Status in Ontario	Host Plant	Comments
SKIPPERS	HESPERIIDAE				
Silver-spotted Skipper	Epargyreus clarus	fairly common	locally fairly common, mainly in the south	black locust, hog peanut, showy tick trefoil	closely associated with black locust in our area
Long-tailed Skipper	Urbanus proteus	very rare southern immigrant	very rare immigrant in the south; one record each at Point Pelee and Windsor in 1994, and two seen near Hamilton and one in Toronto in 2012	legume family vines, including beans	a striking species from the southern U.S., not known to breed at this latitude; on October 4, 2012 one was photographed by B. Yukich as it nectared on <i>Buddleia</i> at the Hillside Gardens in High Park; this is the most northerly record for Ontario (2012 was a spectacular year for southern immigrants in the province)
Southern Cloudywing	Thorybes bathyllus	historical record	locally rare to common in the southwest	legumes	one of two old specimens from Toronto in the ROM, labeled "Toronto", has been attributed to High Park; likely a rare breeder in our area historically
Northern Cloudywing	Thorybes pylades	common	common and widespread	legumes including tick trefoil and vetch	High Park's population density may be the highest in the province with one-day tallies of 100+ in recent years
Dreamy Duskywing	Erynnis icelus	historical record	common and widespread throughout	poplar, aspen, willow, birch	old specimens from High Park in the ROM
Juvenal's Duskywing	Erynnis juvenalis	uncommon	common and widespread, mainly in the southern part of the province	oaks	previously known only from historical records, but on May 10, 2006 B. Yukich found a fresh male at the north end of Plot 1C; now breeds annually in small numbers throughout the park
Horace's Duskywing	Erynnis horatius	very rare southern immigrant (bred?)	rare immigrant from the U.S. to the southwestern part of the province, more often at Point Pelee where it may have occasionally bred in recent years	oaks	on Aug. 27, 2022, B. Yukich photographed a very fresh male nectaring in a flowerbed along Colborne Lodge Dr. south of the park office, the 2 nd record for Toronto and the 1 st for High Park; given its pristine condition, it could have emerged in the park where its host plant is common (a gravid female, arriving from the south, could have laid eggs earlier in the summer)
Mottled Duskywing	Erynnis martialis	historical record	rare and local	New Jersey tea	old specimens from High Park in the ROM; declining in eastern North America; federally and provincially endangered; apparently common in High Park in the early 1900s

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Funereal Duskywing	Erynnis funeralis	very rare southern immigrant	very rare immigrant in the south	legumes	a very rare migratory species from the U.S. Southwest that is not known to breed in the province; B. Yukich recorded one nectaring on purple loosestrife along the south end of Grenadier Pond on August 12, 1999, first record for High Park and fourth for Ontario and Canada
Wild Indigo Duskywing	Erynnis baptisiae	uncommon	locally uncommon to common in the south	legumes including wild indigo, crown vetch (mainly) and wild lupine	first recorded in Toronto in 1998 after undergoing a northward range extension from the U.S. following plantings of crown vetch, its adopted host plant; B. Yukich recorded a single individual on an open hillside near the High Park Forest School on August 1, 2002; egg-laying on wild lupine was recorded on July 25, 2008; breeds annually in the park in small numbers
Columbine Duskywing	Erynnis lucilius	historical record	locally common, mainly in the south	wild columbine	one old specimen from High Park in the ROM
Least Skipper	Ancyloxypha numitor	uncommon	common in the southern and central regions	wetland grasses including bluegrass, rice cut grass, marsh millet	breeds uncommonly in and near wetlands in High Park
European Skipper	Thymelicus lineola	common	common to abundant throughout	grasses including Timothy and red top	our only non-native grass-skipper; introduced near London, Ontario around 1910 after arriving in an overseas shipment of Timothy
Ocola Skipper	Panoquina ocola	very rare southern immigrant	very rare immigrant from the southern U.S.; most records from the southwestern part of the province	grasses	does not breed at this latitude; one was photographed by B. Yukich as it nectared on <i>Sedum</i> in a flowerbed at Colborne Lodge on Sept. 23, 2012, a first for the Toronto region and, at that time, the most northerly record for the province; a few have been recorded in the city since, including one in High Park nectaring on Buddleia on Oct. 14, 2021 (B. Yukich photo)
Fiery Skipper	Hylephila phyleus	uncommon to common immigrant from the southern U.S.	uncommon to common immigrant in the southern part of the province	various grasses, including turf grass	in most years, a late summer immigrant, breeding after its arrival and producing one or more generations that often persist into October; does not overwinter in the province
Leonard's Skipper	Hesperia leonardus	historical record	locally common, mainly in the southern part of the province	various grasses including bluestem and panic grass	an old specimen from High Park in the ROM
Peck's Skipper	Polites peckius	uncommon	locally uncommon to common throughout	grasses including rice grass	
Tawny-edged Skipper	Polites thermistocles	uncommon	common and widespread	grasses including panic grass	
Crossline Skipper	Polites origenes	common	locally uncommon to common, mainly in the south	grasses including purpletop and little bluestem	once uncommon in the park, this species has become quite common in recent years, likely due to habitat improvement
Long Dash	Polites mystic	rare	common and widespread	grasses including bluegrass, quack, barnyard, Timothy	has bred in the park in small numbers near wetlands; no recent records, but may be overlooked

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SKIPPERS	HESPERIIDAE				
Northern Broken-Dash	Wallengrenia egeremet	common	locally common, mainly in the south	grasses including panic grass and crab grass	easily confused with other small dark skippers
Little Glassywing	Pompeius verna	uncommon	locally uncommon to common in the south	grasses including purpletop	easily confused with other small dark skippers
Sachem	Atalopedes campestris	very rare southern immigrant	very rare immigrant in the south; in June 1988 several were found in southwestern Ontario, with confirmed breeding at Point Pelee; there was another larger incursion in 2012; otherwise, very few records	grasses including Bermuda grass and crab grass	during the summer of 2012, this species migrated into southern Ontario in unprecedented numbers, breeding as far north as Toronto; on August 13, 2012 B. Yukich photographed a female on the lawn in front of the High Park Training Centre, the first park record (2012 was a spectacular year for southern immigrants in the province)
Hobomok Skipper	Poanes hobomok	common	common and widespread	grasses including panic and bluegrass	one of our earliest-flying skippers; breeds in and near wooded areas
Broad-winged Skipper	Poanes viator	historical records; may now be a rare breeder	locally common, mainly in the south	sedges and phragmites	a wetland species; old specimens from High Park in the ROM; on July 10, 2007, B. Yukich saw a fresh male nectaring on wild bergamot along the east side of Grenadier Pond, and on July 14, 2012, during a butterfly count, A. Adamo and J. Foster photographed one on phragmites at the south end of Grenadier Pond; the closest known colony to High Park is in the Rouge Valley
Delaware Skipper	Anatrytone logan	common	locally uncommon to common in the south; has been expanding its range northward	grasses including bluestem, switch, woolly beard	this species was present in the park in the 1980s but may have been over-looked in subsequent years due to its scarcity; B. Yukich observed a fresh male in a wet meadow along Spring Creek in July 2000; numbers in the park have since increased and it is now quite common
Black Dash	Euphyes conspicua	very rare	locally uncommon in southern Ontario	sedges including tussock sedge	B. Yukich observed a fresh individual of this wetland species, the first record for the city of Toronto, in plot 1D near Grenadier Pond on July 16, 2004; at the time, the most easterly known colony in the province was in Halton Region; it has since colonized wetlands northeast of Toronto, mainly in Durham Region, and there is a 2016 record from Toronto Islands; the remarkable occurrence of this non-migratory species in High Park was likely due to an apparent range extension
Dun Skipper	Euphyes vestris	common	common and widespread	sedges	the most common small dark skipper in High Park; can sometimes be confused with other small dark skippers
SWALLOWTAILS	PAPILIONIDAE				
Pipevine Swallowtail	Battus philenor	rare southern immigrant	rare immigrant, mainly in the southern part of the province	pipevines (<i>Aristolochia</i>)	occasionally breeds in the province where its host plant occurs as an ornamental; a few fresh individuals were recorded in High Park in 2000 and again in 2001 and 2002; was easily seen in the park in 2012 (a spectacular year for southern immigrants in the province)

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SWALLOWTAILS	PAPILIONIDAE				
Zebra Swallowtail	Eurytides marcellus	historical records; very rare southern immigrant	very rare southern immigrant; rare breeder historically in the southwest	pawpaw	there was an incursion of this species into Ontario in 1896 with records from Toronto, including High Park
Black Swallowtail	Papilio polyxenes	uncommon to fairly common	common, mainly in the south	parsley family, often Queen Anne's lace	our earliest flying swallowtail, typically emerging in early May
Giant Swallowtail	Papilio cresphontes	rare breeder and late summer migrant from the south	uncommon to common in southern and eastern parts of the province where host plants occur; in recent years has colonized areas north of historical range	hoptree, prickly ash, and non-native ornamentals in the citrus family	B. Yukich recorded the first one for High Park on August 28, 2003 following a northward incursion of this species into our area; since 2006 small numbers have been reported almost annually in the park; a female was observed ovipositing on a hoptree in the park in 2011 by J. Paluck; now a rare breeder in the Toronto region, using both native and non-native plants as hosts
Eastern Tiger Swallowtail	Papilio glaucus	common	common in the southern part of the province; sporadically distributed north of Toronto	cherry, ash, tulip tree, hoptree	the northern edge of this species' range in the province is not clearly delineated; it overlaps the range of the smaller, more northern, Canadian Tiger Swallowtail <i>P. canadensis</i> which is almost identical in appearance and with which it likely hybridizes
Spicebush Swallowtail	Papilio troilus	uncommon to common resident; occasional immigrant	uncommon to common resident in the southwest, north to Toronto; occasional immigrant	spicebush, sassafras	historically rare in the park, this Carolinian species bred in High Park in 1999 (two broods) and in subsequent years in variable numbers, using abundant sassafras as host; over- winters as a pupa within 30 cm of the ground; small, isolated population makes it vulnerable
WHITES & YELLOWS	PIERIDAE				
Little Yellow	Pyrisitia lisa	rare southern immigrant	rare immigrant, mainly in the south	partridge pea and other legumes	does not overwinter in the province; not known to breed in our area
Clouded Sulphur	Colias philodice	common	common and widespread	white clover, alfalfa, vetch	
Orange Sulphur	Colias eurytheme	common southern immigrant	common and widespread immigrant	alfalfa, white clover	breeds after its arrival producing at least two more generations; at times abundant in southern Ontario; not known to overwinter in the province
Cloudless Sulphur	Phoebis sennae	very rare southern immigrant	rare southern immigrant	sennas	on Aug. 6, 2017, B. Yukich observed a slightly worn male in a flowerbed at Colborne Lodge, the first park record
Cabbage White	Pieris rapae	common	common and widespread	mustard family	non-native; introduced from Europe around 1860
GOSSAMER-WINGS	LYCAENIDAE				
Harvester	Feniseca tarquinius	uncommon	locally uncommon to common	our only carnivorous butterfly, the larvae feed on woolly aphids primarily on alders, but also on beech, ash, hawthorn, witch hazel and others	on Aug. 27, 2022, B. Yukich discovered a colony in the densely vegetated wetland at the southwest corner of Grenadier Pond when two were seen on alders with woolly aphids; this species is known from only a few of locations in the city; first record for High Park
American Copper	Lycaena phlaeas	historical record	locally common throughout	sheep sorrel, curled dock	an old specimen from High Park in the ROM

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GOSSAMER-WINGS	LYCAENIDAE				
Bronze Copper	Lycaena hyllus	historical record; one modern-day sighting; breeding uncertain	locally common, especially in the south	curled dock, water dock, smartweed	old specimens from High Park in the ROM; a species associated with wetlands; B. Yukich saw a very fresh individual in suitable breeding habitat along the east side of Grenadier Pond on July 10, 2007
Acadian Hairstreak	Satyrium acadica	rare to uncommon	widespread, mostly in the south	willows	previously more common in the park, this species is now rarely encountered; in July 2008 B. Yukich observed a freshly emerged individual near the Forest School, and later a worn one near Grenadier Pond
Coral Hairstreak	Satyrium titus	extirpated	locally common in the south	cherry, plum	last reported from High Park in the 1980s
Edwards' Hairstreak	Satyrium edwardsii	extirpated	locally uncommon to common in the south	scrub oaks, oak saplings	once common, this very local species disappeared from High Park in the mid-1990s, a period when very few oaks were regenerating
Banded Hairstreak	Satyrium calanus	fairly common	common mainly in the south	oak, walnut, hickory	the most common hairstreak in High Park
Hickory Hairstreak	Satyrium caryaevorus	rare	typically rare to uncommon in the south	hickories, oaks and others	few park records; can be difficult to distinguish from <i>S. calanus</i> ; occasionally undergoes local population explosions
Striped Hairstreak	Satyrium liparops	uncommon	uncommon to fairly common throughout	heath and rose families including hawthorn, cherry, plum	
Gray Hairstreak	Strymon melinus	rare southern immigrant	uncommon immigrant (resident?) in the southwest; a resident population breeds locally in the north	a wide variety including "weedy" plants; sweetfern in the north	a few likely bred in the park in 1999, a banner year for southern immigrants; breeding confirmed again in 2012 when B. Yukich observed 2 females, one ovipositing on wild lupine; one was observed by B. Harrison on Aug. 3, 2008 and a very fresh one was photographed by B. Yukich on Aug. 30, 2021
Northern Azure	Celastrina lucia	uncommon	common and widespread	wide variety including cherry, blueberry, viburnums	two broods; one of our earliest emerging butterflies; the azures have recently undergone a revision with early flying individuals being split into 3 species
Spring Azure	Celastrina ladon	hypothetical; not yet recorded; may occur	locally common along Lake Erie shoreline; complete range unknown	dogwoods, viburnums, likely others	one brood; one of our earliest emerging butterflies; separating this southern species from our other azures requires viewing its longer strap-like wing scales under a microscope; High Park's habitat is similar to that found in parts of Norfolk County where this species is known to occur; both locations are on sand plains with similar flora and, historically, similar butterflies
Summer Azure	Celastrina neglecta	common	common, mainly in the south	wide variety including dogwoods, viburnums, New Jersey tea and white sweet-clover	multiple broods; flies later than our other azures; however, new information suggests it has an early spring brood when our other "spring" azures are still flying
Silvery Blue	Glaucopsyche lygdamus	fairly common	common, except absent from much of the southwest, where it continues to spread	legumes, mainly cow vetch in our area	this species has been undergoing a southward range extension and was first recorded in Toronto in 1997; the first confirmed breeding in High Park was in plot 1D in June 2003; it now breeds annually in the park

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GOSSAMER-WINGS	LYCAENIDAE				
Marine Blue	Leptotes marina	very rare southern immigrant	very rare immigrant in the south; first reported in 1993 at Point Pelee where it bred; arrived and bred again in 2022 at multiple locations in the southwest part of the province	various legumes	a species from the U.S. Southwest that migrates northward, occasionally reaching the Midwest; a small colony of freshly emerged individuals was discovered near Marie Curtis Park, Toronto on July 12, 2008. On July 22, 2008, B. Yukich observed a freshly emerged male and female of this species nectaring on blue vervain in a wet meadow at the southeast corner of Grenadier Pond; does not overwinter in the province
Eastern Tailed-Blue	Cupido comyntas	common	common, mainly in the south	legumes, including tick trefoil	in recent years has been expanding its range northward
Karner Blue	Plebejus samuelis	historical record	extirpated around 1991	wild lupine	historically common in High Park, it was extirpated around 1926
European Common Blue	Polyommatus icarus	recent colonizer	a colony was first observed in August 2017 at a rest stop along Hwy 401 near Ingleside; subsequent sightings in Toronto and Vaughan from 2018 to 2021; locally common and spreading	birdsfoot trefoil and other legumes	this common European species was first detected in North America in 2005 near Montreal's Mirabel Airport; with access to a ubiquitous host plant, its numbers increased dramatically in a relatively short time; it has since expanded its range both in Quebec and into Ontario, first appearing in Toronto in July 2018; a male was photographed in savannah on the east side of High Park on July 10, 2021 during an annual butterfly count; others were found elsewhere in the park shortly after
BRUSHFOOTS	NYMPHALIDAE				
American Snout	Libytheana carinenta	rare to uncommon southern immigrant; breeding first noted in 2019	locally rare to uncommon southern immigrant as far north as Ottawa; previously confined mainly to the southwest	hackberries	first recorded in High Park by B. Harrison when one was seen near the Training Centre on July 29, 2007; another was photographed by B. Yukich at the Children's Garden on September 13, 2017; during July 2019, multiple individuals were observed in hackberry trees near the High Park zoo; does not overwinter in the province
Monarch	Danaus plexippus	common southern immigrant	common and widespread, but numbers have been declining in recent years	milkweeds	does not overwinter; southbound migration can be observed over High Park each fall; migratory population threatened; federally endangered
Variegated Fritillary	Euptoieta claudia	rare southern immigrant	uncommon to rare immigrant, mainly in the south	wide variety including violets, flax, stonecrop, plantain	occasionally breeds after its arrival, as in 2012 when it became widespread in southern Ontario
Meadow Fritillary	Boloria bellona	historical record; one or two recent sightings; does not breed	locally common throughout much of the province	violets	old specimens from High Park in the ROM; B. Yukich photographed a fresh female nectaring on boneset in a wet meadow, its preferred habitat, at the southeast corner of Grenadier Pond on August 21, 2006; there are no known colonies in the west end of Toronto, but this species is known to wander
Great Spangled Fritillary	Speyeria cybele	uncommon	common and widespread	violets	the only breeding fritillary in High Park
Aphrodite Fritillary	Speyeria aphrodite	historical record	common to uncommon throughout much of the province	violets	old specimens from High Park in the ROM
Atlantis Fritillary	Speyeria atlantis	historical record	common in the north; absent from the southwest	violets	two old specimens from High Park in the ROM

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White Admiral	Limenitis arthemis arthemis	uncommon and recently declining	common in the north, mostly absent from the southwest	willow, aspen, poplar, birch	<i>L. a. arthemis</i> and <i>L. a. astyanax</i> were once considered separate species
Red-spotted Purple	Limenitis arthemis astyanax	uncommon and recently declining	common in the south, mainly absent from the north	cherries, poplars, oaks	intermediates between <i>astyanax</i> and <i>arthemis</i> are often seen in the Toronto region; both forms have occasionally been seen side by side in High Park
Viceroy	Limenitis archippus	rare; not known to breed	common throughout, especially in the south	willows, poplars	mainly associated with wetlands; surprisingly, this species is rarely encountered in High Park
Hackberry Emperor	Asterocampa celtis	very rare	locally uncommon to common, mainly in the southwest and the east	hackberries	on July 8, 2017, during a butterfly count, one was recorded by A. Adamo at the south end of the park next to the Queensway where hackberries have been planted; first record for the Toronto region
American Lady	Vanessa virginiensis	uncommon to common southern immigrant	uncommon to common immigrant throughout	everlastings, wormwoods, burdocks, ironweed	breeds after its arrival in the spring, producing one or more generations; does not overwinter in the province
Painted Lady	Vanessa cardui	rare to common southern immigrant	rare to common immigrant throughout	thistles, knapweed, burdock, sunflowers	breeds after its arrival, often later in the season than <i>V. virginiensis</i> , producing one or more generations; does not overwinter in the province
Red Admiral	Vanessa atalanta	uncommon to common southern immigrant	uncommon to common immigrant throughout	nettles	breeds after its arrival in the spring, producing one or more generations; may overwinter rarely, only as an adult
Milbert's Tortoiseshell	Aglais milberti	historical records; now rare; breeding uncertain	locally uncommon to fairly common throughout much of the province	nettles	old specimens from High Park in the ROM; a handful of recent sightings, all in summer, nectaring on ornamentals: a few in 2007, one in 2016
Compton Tortoiseshell	Nymphalis I-album	uncommon; may occasionally breed	uncommon to common throughout	willow, birch, poplar	individuals recorded in the park in spring are likely migrants from the north that, having arrived the previous fall, hibernated over the winter; occasional in summer
Mourning Cloak	Nymphalis antiopa	fairly common	common and widespread	wide variety including willows, elms, poplars	like other Nymphalis, hibernates over the winter as an adult butterfly; fall migrants occasionally observed
Question Mark	Polygonia interrogationis	uncommon to common southern immigrant	uncommon to common immigrant throughout	nettles, elms, hops	does not typically overwinter in the province, but recent evidence suggests it may on rare occasions
Eastern Comma	Polygonia comma	uncommon to common	uncommon to common throughout	nettles, elms, hops	like other <i>Polygonia</i> , hibernates over the winter as an adult butterfly; some migration has been reported
Gray Comma	Polygonia progne	rare	uncommon to fairly common throughout much of the province	currants, gooseberries, birches, elms	old specimens from High Park in the ROM; a few recent sightings by B. Yukich, beginning with a fresh individual photographed on July 27, 2008 at the Children's Garden where there were currant bushes
Common Buckeye	Junonia coenia	rare to uncommon southern immigrant	uncommon to common immigrant, mainly in the south	gerardia, toadflax, plantain	an annual colonizer, not known to overwinter in the province; has become more common in recent years; common in High Park in 2012
Baltimore Checkerspot	Euphydryas phaeton	historical record; bred in 2019	locally common where host plant occurs	turtlehead & others	a species associated with wetlands where it breeds in colonies; previously known in High Park from one old specimen in the ROM; however, on July 15, 2019, B. Yukich observed a small colony near the High Park zoo

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BRUSHFOOTS	NYMPHALIDAE				
Silvery Checkerspot	Chlosyne nycteis	rare	locally uncommon to common throughout	composites such as sunflowers and asters	most park records are from the early 1900s; a few recent sightings, all by B. Yukich in July: two in 2000 and singles in 2001, 2002 and 2004; this species appears to be very sensitive to habitat disturbance and even large colonies can sometimes disappear
Pearl Crescent	Phyciodes tharos	uncommon to common	common in the south	asters	similar in appearance to <i>P. cocyta,</i> and can sometimes be confused with that species
Northern Crescent	Phyciodes cocyta	usually uncommon	common and widespread	asters	similar in appearance to <i>P. tharos,</i> and can sometimes be confused with that species
Tawny Crescent	Phyciodes batesii	historical record	locally uncommon to fairly common	asters	one old specimen from High Park in the ROM
Northern Pearly-Eye	Lethe anthedon	uncommon to rare	locally uncommon to common throughout	various grasses including purple oat and reed canary	a species of shady, light-dappled woodlands; often perches head-down on tree trunks; very few reports from High Park in recent years
Eyed Brown	Lethe eurydice	historical record	locally common, mainly in the south	sedges	old specimens from High Park in the ROM; a wetland species that breeds in sedge marshes
Common Ringlet	Coenonympha tullia	uncommon	common throughout much of the province, less so in the southwest	various grasses including bluegrass and needle grass	has been expanding its range southward
Little Wood-Satyr	Megisto cymela	common to abundant	common to abundant throughout, especially in the south	various grasses including bluegrass and orchard grass	prefers lusher, shadier areas with grasses near woodlands
Common Wood-Nymph	Cercyonis pegala	fairly common	common throughout	various grasses including wild oat, bluestem, purpletop	

NOTES:

Common names used in this list are those found in *Checklist & English Names of North American Butterflies, Second Edition* (North American Butterfly Association (NABA), 2001) and *The ROM Field Guide to Butterflies of Ontario* (Peter W. Hall, Colin D. Jones, Antonia E. Guidotti and Brad Hubley, 2014). Scientific names and taxonomic order follow Jonathan P. Pelham's *A Catalogue of the Butterflies of the United States and Canada*, revised July 1, 2017.

Host plants listed for each species were taken from *The Butterflies of Canada* (R. A. Layberry, P. W. Hall and J. D. Lafontaine, 1998), *The Ontario Butterfly Atlas* (A. M. Holmes, Q. F. Hess, R. R. Tasker and A. J. Hanks, 1991) and *The ROM Field Guide to Butterflies of Ontario* (2014) noted above. ROM = Royal Ontario Museum. The species abundance designations are based on a typical year, and a skilled observer being in suitable habitat, in the appropriate season, under favourable weather conditions. It should be noted, however, that the population of any butterfly species can fluctuate dramatically from year to year, or even within a breeding season, due to a variety of environmental factors.

abundant: usually recorded in large numbers on all visits

common: normally recorded on all visits

fairly common: likely to be recorded on most visits

uncommon: present in small numbers; can be missed on most visits

rare: can be less than annual in occurrence

very rare: often several years between sightings; not to be expected

historical record: no longer present; specimens in the ROM dating as far back as the late 1800s