

NORTH AMERICAN BUTTERFLY ASSOCIATION

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ANNUAL NABA BUTTERFLY COUNT - INSTRUCTIONS (CANADA)

Please report your count results directly to NABA through our online count form at www.naba.org. The online form allows compilers to enter all data for their counts through the Web and also allows the regional editors to review and edit the reports more efficiently. Most importantly, Butterfly Count information will be entered and stored in a database which in the future will allow it to be available online to NABA members and the public. All compilers are now requested to enter the data for their counts through the online count form. If this presents any difficulty, please contact NABA for assistance.

COUNT PROGRAM OVERVIEW

In order to encourage increased participation in the NABA Butterfly Count Program and to encourage even more monitoring possibilities, the NABA Board of Directors authorized the introduction of Seasonal Butterfly Counts in 2007 for the United States and Mexico. While Seasonal Counts were originally considered for Canada, they were not feasible due to the short flight season. Canada's count program will remain as the traditional 1st of July Counts

TIMING OF THE COUNT

1st of July Counts may be held any day. Participants should select ONE DATE (one calendar day) on which to compile a list of butterflies observed during a period not longer than 24 hours. NABA 1st of July Butterfly Counts REQUIRE A MINIMUM of four adult observers AND 6 party-hours per count for all counts started after 2008, and, except in extenuating circumstances, ALL counts should expend at least 6 party-hours of effort.

DATE OF COUNT

Please contact NABA (at address/phone above, or e-mail to naba@naba.org) with the date of your count and information on how to contact the compiler. This information is given to people asking about counts in their area, and is entered on the website.

Count data must be entered online at <http://www.butterflycounts.org/>. Count forms can be downloaded from www.naba.org/counts.html. The count form can be filled in to use as a guide when submitting count data online.

COUNTERS & COUNT CIRCLES

Unless your count is an existing 1st of July count started before 2008, at least 4 adult observers must participate. One or more groups of counters always produce better results. It is usually desirable to visit several habitats and areas within a count circle, which may be done best by several parties. Since counts are open for public participation, we encourage you to publicize your count plans!

A count is held at one or more selected sites within a 15-mile diameter CIRCLE. Groups starting a new count MUST designate this 15-mile diameter circle. No count circles may overlap—that is, count centers must be a minimum of 15 miles apart. Groups repeating a count held a previous year MUST use the same circle, and count the same sites and habitats as before so far as practical.

The goal of the count is not to compete for the highest numbers, but rather to provide long-term data on trends in butterfly populations. Sites should be chosen for the likelihood that the count can be repeated year after year, not just for richness or rarities. Counts held only one year at distant localities are not as valuable. Most of the interest to counters comes from comparisons of annual results within their own count circle.

Starting in 2009, the category of garden watcher was discontinued. Additionally, children who participate in and contribute to a count are considered field observers.

RULES FOR CONDUCTING THE COUNT

- Count only within an area 7.5 miles in radius from a designated center (making a 15-mile diameter circle).
- For a given count, survey within the same circle every year. If any change is made to the count circle or center, notify NABA Vice President Jim Springer (springer@naba.org).
- Report only butterflies actually observed alive in the wild during a single, one-day period. Butterflies seen from cars or other conveyances may be counted.
- Species that are unusual for your location or date should be documented by photographs, if possible, which should be submitted online with your other count data..
- You may estimate the number of butterflies you ACTUALLY SEE (e.g. if there are a great number of American Snouts in a tree, you may count the number in a portion of the tree and extrapolate to generate an estimate of the total number you ACTUALLY SEE in the tree), but not the number of butterflies you think you would have seen had you covered more of the same habitat (e.g., do NOT

multiply a count of 1 acre by the number of acres of similar habitat nearby or in the circle but not covered; do not estimate the number of butterflies in a field by walking through a portion of the field and estimating how many butterflies might be in the entire field; and do not multiply numbers seen during some time period by the number of similar time periods that you think butterflies would have been flying.). If you estimate numbers of butterflies that you actually saw, explain your method of estimating in Field Notes. Compilers should explain to all participants the need for reporting an estimation method.

- Keep an accurate record of miles covered on foot (to the nearest 1 mi.) and hours spent (to the nearest 0.5 hr.) by each party of counters, as a measure of census effort. If a party counts together some of the time but separates some of the time (to the point where they are counting different butterflies), report maximum number of parties that counted (e.g., for 1-4 parties, report 4), and add in the miles and hours spent by these separated parties to those spent while together.
- Please look over the forms carefully BEFORE the count so that you will be able to provide the information required. We recommend that you record count data on the paper form, then refer to that when filling in the online form.
- A MINIMUM of 6 party-hours per count is REQUIRED for new counts, and (except in extenuating circumstances) ALL counts should expend at least 6 party-hours.
- At least one person per existing 1st of July count, and four persons per new count, must be an adult field observer (over age 12).
- The compiler is the contact person for the count.

REPORTING BUTTERFLIES OBSERVED

- The count form lists the butterflies' scientific and English names as given in NABA's checklist (available for download or for sale at www.naba.org/pubs/checklst.html). The 2nd edition of this checklist was published in spring 2001, and NABA will periodically review and revise it. Other butterfly publications may use different species concepts and names.
- Record the total ADULT individuals of each species seen on your count. Do not break totals down by separate sites within the count circle.
- Use the Unlisted Species section of the online form to enter species observed but not included on the count form or online list, using the English or scientific names from NABA's checklist.
- Do NOT specify subspecies UNLESS, in the opinion of the compiler more than one subspecies of a particular species occurs within, or close to, the count circle.
- Use the Unidentified Species section of the online form to enter individuals seen but not identified to species, e.g., 9 *Satyrrium* sp., 2 Grass-Skipper sp. Please enter all Unidentified species in the form "Satyrrium sp.," "Fritillary sp.," "Nymphalidae sp.," etc. NOT "Satyrrium," "Fritillaries" or "Nymphalids."
- Record totals of immature forms (eggs, caterpillars, pupas) in the Immature Butterflies section of the online form. These do NOT count in totals for individuals and species.
- Each different ADULT butterfly identified to species counts as a species. If more than one subspecies is reported, count them as only one species.

- A butterfly not identified to species does not count toward your species total UNLESS that is the only entry reported for that type of butterfly. (E.g., *Satyrrium* sp. counts as a species ONLY if no other *Satyrrium* hairstreak seen on the count was identified to species.)
- Count only ADULT butterflies in the totals for individuals and species. All unidentified adult individuals should be added to the total of individuals.
- Non-butterflies should be mentioned in the Field Notes section only to the extent that they help illuminate butterfly species occurrence or abundance. For example, "gypsy moth infestation may have affected oak-feeding hairstreak abundance." or "many species nectaring at abundant common milkweed."
- On the Butterfly Review/Unusual Sightings page of the online count form, check off any butterfly species that are noteworthy for your location as to species, number, timing, etc., AND include a brief explanation in the Unusual Sighting Notes field. The species will then be boldfaced in the Count Report, and your explanation will appear as a footnote to your count summary.

FILLING OUT THE PAPER COUNT FORM

- While count data must be submitted online, the paper count forms are used for field records. Filling out a paper count form prior to starting online data entry makes the process smoother and faster. Some hints are:
- Please estimate the percentage of time in the AM and PM (during which you actually counted) that the sun was shining, and the temperature range, and the wind speed, during the count.
- Number of parties: A "party" may consist of 1 person or a group of people who are butterflying together—meaning that while butterflying they remain in visual or auditory contact.

Party-hours: A party, as defined above, that spends one hour in the field actively butterflying on foot is equivalent to one party-hour. For example, if you had three groups of butterflyers and group A, consisting of two people, counted butterflies for 3 hours; group B, consisting of one person, counted butterflies for 5 hours; and group C, consisting of three people, counted butterflies for 4 hours, the total party-hours would be $3 + 5 + 4 = 12$. **Total party-hours cannot exceed the number of hours of the count x the number of parties.** Parties that temporarily separate to count different butterflies become separate parties with separate party-hours during the time of separation. E.g., if a party of 3 counts for 3 hours as a single party, breaks up into 3 sub-parties for 2 hours to count separate butterflies, then counts together for 2 more hours, you should report 3 parties (the maximum number at one time) totaling 11 party-hours (1 party x 3 hours + 3 parties x 2 hours + 1 party x 2 hours). Exclude time when butterfly counting did not occur.

- Party-miles = The total miles traveled **on foot** observing butterflies by each field party as a whole. E.g., 4 observers in 1 party walking 2 miles in the field = 2 party-miles (**NOT 8**). Add up party-miles of all parties on the count to determine total party-miles. Party-miles for temporarily separated parties are counted in the same manner as described for party-hours above. Butterflies identified from cars or other conveyances may be counted, but the miles are not.

- List first initial and last name of all field observers on the online count form. It is the compiler's responsibility to obtain the correct names of all participants.
- Imminent threats to habitat, Habitat changes since last year, and Field Notes (such as weather, or explanations of unusual species) should be brief and relevant to the count's butterfly observations. Do NOT include weather in Habitat changes. Do NOT include organisms other than butterflies in Field Notes, except for a limited mention of plants or animals that may have affected butterflies. If there are no imminent threats or habitat changes, please leave these fields blank.
- **DOUBLE CHECK** paper forms for accuracy, and completeness before entering the information online. **After you have entered your data online, check that the count summary that is generated matches the data on your paper form.**

TIPS FOR FIRST-YEAR COUNTS

- Read instructions and forms carefully BEFORE count day.
- All counts are required to submit results online at www.butterflycounts.org
- New counts should pre-register with NABA to ensure that their proposed count circle does not overlap with other count circles. When you pre-register, please submit a map showing the new count circle. Pre-registered counts will also be advertised by NABA. Visit <http://www.naba.org/counts/start.html> for information.
- It's a good idea to practice how to do the count BEFORE your first count date.
- It's important that at least one counter in each party can identify all butterflies likely to be found in the count area, and that each party carries at least one butterfly field guide.
- Along with your count form, please submit a map showing the new count circle.
- Within your count circle, try to cover as many areas and habitats as possible.
- Consult www.naba.org or last year's Count Report for information on existing count circles.

PUBLIC PARTICIPATION

All counts published in the annual report must be open to public participation. If a person wishes to participate in a count, it must be possible for him/her to find out from the compiler, or other designated contact person, the date of the count, where he/she may go within the circle to count, and how to submit results and fees to the compiler. Compilers and counting parties are not obliged to include anyone in their particular counting activities, although cooperation and assistance to new counters are encouraged. If a compiler does not operate within the spirit of this policy (within constraints of unforeseen weather delays), NABA may, at its discretion, not accept the count.

FEES

- A fee of **U.S. \$3.00** is required for each field observer on each count (whether or not they want their names published in the Count Report) to help defray program costs.

- NABA WILL NOT accept or publish your count unless the full fee is paid.
- **It is the compiler's responsibility to inform participants ahead of time that they must pay a fee for participation, and to ensure that all fees are paid upon count submission.**

WHEN, WHERE, & HOW TO SUBMIT COUNTS

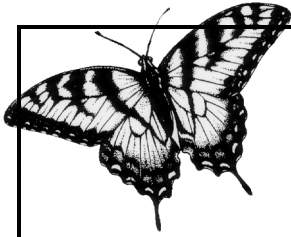
- DEADLINE for count submission to be received by NABA or completed online: **September 2, 2015**
- Compilers submit count data online at www.butterflycounts.org. Once submitted online, please print the participants list and mail along with full fee payment (in ONE check or money order) to NABA, 4 Delaware Road, Morristown, NJ 07960. Do not send NABA copies of counts submitted online, but do send fee payment and participants list.
- It is the responsibility of the count compiler to get an acceptable count submitted online with appropriate fee sent to NABA by the DEADLINE.
- Counts submitted or paid late will be held for publishing in the following year's Count Report.
- Please keep a copy of your count forms or online count summary for your records, AND keep details of unusual species sightings, as you may be contacted for confirmatory information by a NABA editor. **Please set your email program to accept messages with NABA in the subject line, so that messages from the editors will reach you.**
- NABA retains full editorial control over the content of the Count Report, including butterfly species reports.

SUBMITTING COUNT PHOTOS

We strongly encourage compilers to submit photographs taken on a count of interesting butterflies or of butterflies whose identification is not 100% certain. Interesting, good-quality photos may be published in the Count Report or on the NABA website, and the NABA staff may be able to help with those uncertain IDs. You may upload photos to your online count form, along with information including name of photographer, subject, and its significance. **Please, no email attachments.**

VOLUNTEER OPPORTUNITIES

Publication of the Count Report depends upon many volunteers (editors, artists, etc.). For more information, contact Count Report Editor Mike Cerbone at cerbone@naba.org.



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PRESS RELEASE ANNUAL NABA BUTTERFLY COUNT

Butterflies are one of the most beautiful elements of the natural world, and scientists now recognize that they can also serve an important indicator of the health of ecosystems. A dedicated group of local naturalists will soon be both enjoying their beauty and contributing to a nationwide program that conducts long-term monitoring of butterfly populations. They welcome public participation, and while knowledge of butterflies is a plus, it is not necessary.

The _____ NABA Butterfly Count will be held on _____
(name of count)
_____, _____. Counters will meet at _____ at _____
(day of week) (date) (time)
_____. The count will last until about _____,
(location) (time)
weather permitting. This butterfly count has been held since _____. For more information please contact
(first year)
_____ at _____ during the: day / evening / weekend
(name of count compiler) (phone number/email) (circle appropriate time)

The NABA Butterfly Count Program has been held annually since 1975, when only 29 counts were held. Volunteers around North America select a count area 15 miles in diameter and conduct a one-day census of all butterflies observed within that circle. Spring Seasonal counts are held prior to June, 4th of July counts are held in June or July, and Fall Seasonal counts are held after July. The best timing for butterfly observation in each count circle varies. The count program is intended to promote interest in butterflies and provide results useful for scientific monitoring of this beautiful and fascinating group of insects.

The **North American Butterfly Association (NABA)** organizes the counts and publishes their annual reports. For more information on NABA and the count program, please send a self-addressed, stamped business envelope to: **NABA, 4 Delaware Road, Morristown, NJ 07960**. Or check out our website at www.naba.org.

Instructions to Count Compilers:

- Please fill in the above press release. Make as many photocopies as you need to send to the news organizations that serve your area, including newspapers, radio stations, and local-access TV stations.
- You may also follow-up with these media contacts after your count by making your own press release providing interesting results and photos from your butterfly count.

NABA BUTTERFLY COUNT – PARTICIPANTS LIST - CANADA

PLEASE NOTE: **ALL count submissions MUST include a participants list.** You may use this form to record the participants on your count prior to entering this information online. THANK YOU!

- This form is for accounting only. PLEASE, NO notes pertaining to butterfly observations or butterfly count form here.
- The count fee is U.S.\$3.00 and is required for EACH field observer, regardless of age on EACH count (regardless of how many counts a participant attends, and whether or not participants want their names published). Each count must have at least one paying participant..
- The cost of a hard copy the Count Report is U.S.\$7.00 for NABA members and U.S.\$11 for non-members.
- For each person buying the report, please list their name AND FULL MAILING ADDRESS to which the report should be sent.
- **Make payment for this count with a single check or money order in U.S. dollars payable to NABA.**
- Make payment, if desired, for annual NABA membership dues with a separate check or money order in U.S. dollars payable to NABA. **NABA ANNUAL DUES:** U.S.\$35 for single, U.S.\$45 for family (U.S.\$70/90 outside U.S., Canada, Mexico).
- An email notice that count forms are available for download will be sent to the compiler at the email address listed below.
- Please attach additional sheet(s) if needed.
- Please print the completed online participants list and mail it with appropriate fee to: **NABA, 4 Delaware Road, Morristown, New Jersey, USA 07960**
- Please do not send your participants list via registered mail, as this can add much delay. Your cancelled check is your receipt.

Count Name, Province: _____
 Planned date for next Count: _____

NAME/ADDRESS	FEE	Report	Donation	TOTAL
1 Compiler: _____ Address: _____ City: _____ State, Zip Code: _____ email (for NABA use only): _____ phone (for NABA use only): _____ (home or work?)	_____	_____	_____	_____
2 _____ _____	_____	_____	_____	_____
3 _____ _____	_____	_____	_____	_____
4 _____ _____	_____	_____	_____	_____
5 _____ _____	_____	_____	_____	_____
6 _____ _____	_____	_____	_____	_____
7 _____ _____	_____	_____	_____	_____
8 _____ _____	_____	_____	_____	_____
9 _____ _____	_____	_____	_____	_____
TOTALS / SUBTOTALS	_____	_____	_____	_____

Count Name, Province: _____

SUBTOTALS FROM PRECEDING PAGE

	FEE	Report	Donation	TOTAL
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
TOTAL				

BUTTERFLY COUNT FORM - CANADA

*** REQUIRED INFORMATION ***

DEADLINE for complete, online submission and fees to be received by NABA: **September 2nd.**

Count Name(as it appears in the Count Report), Province:

Year of count (1st, 5th, etc.): _____

DATE held: _____ TIME

(military, to nearest 0.5 hr): _____ to _____ (which equals ____ hours)

Weather:

1. % sunshine in AM: ____ ≤10% ____ 11-25% ____ 26-50%

____ 51-75% ____ 76-100% ____ Data not recorded

2. % sunshine in PM: ____ ≤10% ____ 11-25% ____ 26-50%

____ 51-75% ____ 76-100% ____ Data not recorded

3. Temperature: ____ to ____ °F ____ Data not recorded

4. Wind: ____ to ____ mph ____ Data not recorded

Participants:

1. Number of field observers: _____

2. Number of field parties (report maximum number—e.g., for 1-4 parties, report 4): _____

3. Total number of party-hours by field parties: _____
(Total party-hours cannot exceed the number of hours of the count x the number of parties.)

4. Total party-miles on foot by field parties (to nearest 1 mile only): _____

Compiler's name: _____

Address: _____

City: _____

Province: _____ Postal Code : _____

Email address (please include so that Count Report editors may contact you if necessary. It will NOT be published in the Count Report without your permission.): _____

____ OK to publish ____ Do NOT publish

Phone (for NABA use only, will NOT be published): _____

Check here if compiler was NOT also a field observer.

Useful information requested from all counts:

Imminent threats to specific butterfly habitats (new, specific information only; please do not repeat generalities year after year, e.g., development, pesticide spraying). If none, leave blank:

Information required from 1st-year counts only

Center in decimal degrees at (latitude) _____ . _____
(longitude) _____ . _____

For information on reporting and mapping count circle centers please see:

http://www.naba.org/count_center.html

Center at (describe in words, as exactly as possible, e.g., "at intersection of A St. and B Rd. in Town of C, D Count." This description must match the coordinates above.): _____

Elevation (range that is actually counted): _____ to _____ ft.

Includes (any significant named areas in circle that are counted, e.g., "X County Park, XX Wildlife Management Area, and XXX Preserve"):

Habitats actually covered on the count:

Uses of land within the count circle:

Please mail a map of the count circle to NABA

Changes to butterfly habitats noticed since last year (do NOT include weather/climate). If none, leave blank:

COUNT NAME, Province: _____

*** ADULT BUTTERFLIES ***

If a species is not listed, write it in at end of form. If subspecies are observed, do NOT include these numbers in the line for the full species. Do NOT check off a subspecies if only one for that species occurs in your area

PAPILIONIDAE - Swallowtails

- ___ *Parnassius clodius* Clodius Parnassian
- ___ *P. phoebus* Phoebus Parnassian
- ___ (*P. p. smintheus*) 'Rocky Mountain' Phoebus Parnassian
- ___ *Battus philenor* Pipevine Swallowtail
- ___ *Eurytides marcellus* Zebra Swallowtail
- ___ *Papilio polyxenes* Black Swallowtail
- ___ *Papilio machaon* Old World Swallowtail
- ___ (*P. m. bairdii*) 'Baird's' Old World Swallowtail
- ___ *Papilio zelicaon* Anise Swallowtail
- ___ *Papilio indra* Indra Swallowtail
- ___ *Papilio cresphontes* Giant Swallowtail
- ___ *Papilio glaucus* Eastern Tiger Swallowtail
- ___ *Papilio canadensis* Canadian Tiger Swallowtail
- ___ *Papilio rutulus* Western Tiger Swallowtail
- ___ *Papilio multicaudata* Two-tailed Swallowtail
- ___ *Papilio eurymedon* Pale Swallowtail
- ___ *Papilio troilus* Spicebush Swallowtail

PIERIDAE - Whites & Sulphurs

- ___ *Neophasia menapia* Pine White
- ___ *Pontia beckerii* Becker's White
- ___ *Pontia sisymbrii* Spring White
- ___ *Pontia protodice* Checkered White
- ___ *Pontia occidentalis* Western White
- ___ *Pieris napi* Mustard White
- ___ (*P. n. oleracea*) 'Veined' Mustard White
- ___ (*P. n. marginalis*) 'Margined' Mustard White
- ___ *Pieris rapae* Cabbage White
- ___ *Ascia monuste* Great Southern White
- ___ *Euchloe ausonides* Large Marble
- ___ *Euchloe creusa* Northern Marble
- ___ *Euchloe hyantis* Pearly Marble
- ___ (*E. h. lotta*) 'Desert' Pearly Marble
- ___ *Euchloe olympia* Olympia Marble
- ___ *Anthocharis sara* Sara Orangetip
- ___ (*A. s. stella*) 'Stella' Sara Orangetip
- ___ *Colias philodice* Clouded Sulphur
- ___ *Colias eurytheme* Orange Sulphur
- ___ *Colias occidentalis* Western Sulphur
- ___ *Colias christina* Christina's Sulphur
- ___ *Colias alexandra* Queen Alexandra's Sulphur
- ___ *Colias meadii* Mead's Sulphur
- ___ *Colias canadensis* Canadian Sulphur
- ___ *Colias nastes* Labrador Sulphur
- ___ *Colias gigantea* Giant Sulphur
- ___ *Colias pelidne* Pelidne Sulphur
- ___ *Colias interior* Pink-edged Sulphur
- ___ *Colias palaeno* Palaeno Sulphur
- ___ *Colias cesonia* Southern Dogface
- ___ *Phoebis sennae* Cloudless Sulphur
- ___ *Phoebis philea* Orange-barred Sulphur
- ___ *Eurema mexicana* Mexican Yellow
- ___ *Eurema lisa* Little Yellow
- ___ *Eurema nicippe* Sleepy Orange
- ___ *Nathalis iole* Dainty Sulphur

LYCAENIDAE - Harvester & Coppers

- ___ *Feniseca tarquinius* Harvester
- ___ *Lycaena phlaeas* American Copper
- ___ *Lycaena cupreus* Lustrous Copper
- ___ *Lycaena dione* Gray Copper
- ___ *Lycaena hyllus* Bronze Copper
- ___ *Lycaena rubidus* Ruddy Copper
- ___ *Lycaena heteronea* Blue Copper
- ___ *Lycaena epixanthe* Bog Copper
- ___ *Lycaena dorcas* Dorcas Copper
- ___ *Lycaena helloides* Purplish Copper
- ___ *Lycaena nivalis* Lilac-bordered Copper
- ___ *Lycaena mariposa* Mariposa Copper

LYCAENIDAE - Hairstreaks

- ___ *Satyrium titus* Coral Hairstreak
- ___ *Satyrium behrii* Behr's Hairstreak
- ___ *Satyrium fuliginosum* Sooty Hairstreak
- ___ *Satyrium acadica* Acadian Hairstreak
- ___ *Satyrium californica* California Hairstreak
- ___ *Satyrium sylvinus* Sylvan Hairstreak
- ___ *Satyrium edwardsii* Edwards' Hairstreak
- ___ *Satyrium calanus* Banded Hairstreak
- ___ *Satyrium caryaevorum* Hickory Hairstreak
- ___ *Satyrium liparops* Striped Hairstreak
- ___ *Satyrium saepium* Hedgerow Hairstreak
- ___ *Satyrium favonius* Oak Hairstreak
- ___ (*S. f. ontario*) 'Northern' Oak Hairstreak
- ___ *Callophrys dumetorum* Bramble Hairstreak
- ___ *Callophrys sheridanii* Sheridan's Hairstreak
- ___ *Callophrys augustinus* Brown Elfin
- ___ *Callophrys mossii* Moss' Elfin
- ___ *Callophrys polios* Hoary Elfin
- ___ *Callophrys irus* Frosted Elfin
- ___ *Callophrys henrici* Henry's Elfin
- ___ *Callophrys niphon* Eastern Pine Elfin
- ___ *Callophrys eryphon* Western Pine Elfin
- ___ *Callophrys spinetorum* Thicket Hairstreak
- ___ *Callophrys johnsoni* Johnson's Hairstreak
- ___ *Callophrys gryneus* Juniper Hairstreak
- ___ (*C. g. gryneus*) 'Olive' Juniper Hairstreak
- ___ (*C. g. siva*) 'Siva' Juniper Hairstreak
- ___ *Parrhasius m-album* White M Hairstreak
- ___ *Strymon melinus* Gray Hairstreak
- ___ *Calycopis cecrops* Red-banded Hairstreak
- ___ *Erora laeta* Early Hairstreak

LYCAENIDAE - Blues

- ___ *Leptotes marina* Marine Blue
- ___ *Hemiargus isola* Reakirt's Blue
- ___ *Everes comyntas* Eastern Tailed-Blue
- ___ *Everes amyntula* Western Tailed-Blue
- ___ *Celastrina ladon* Spring Azure
- ___ (*C. l. ladon*) 'Spring' Spring Azure
- ___ (*C. l. neglecta*) 'Summer' Spring Azure
- ___ *Euphilotes battoides* Square-spotted Blue
- ___ *Euphilotes enoptes* Dotted Blue (includes *ancilla*)
- ___ *Glaucopsyche piasus* Arrowhead Blue

COUNT NAME, Province: _____

____ *Glaucopsyche lygdamus* Silvery Blue
____ *Lycaeides idas* Northern Blue
____ *Lycaeides melissa* Melissa Blue
____ *Plebejus saepiolus* Greenish Blue
____ *Plebejus icarioides* Boisduval's Blue
____ *Plebejus shasta* Shasta Blue
____ *Plebejus acmon* Acmon Blue
____ *Plebejus optilete* Cranberry Blue
____ *Agriades glandon* Arctic Blue
____ (*A. g. franklinii*) 'Mountain' Arctic Blue
____ (*A. g. rusticus*) 'Rustic' Arctic Blue
RIODINIDAE - Metalmarks
____ *Apodemia mormo* Mormon Metalmark
NYMPHALIDAE - Brushfoots
____ *Libytheana carinenta* American Snout
____ *Agraulis vanillae* Gulf Fritillary
____ *Euptoieta claudia* Variegated Fritillary
____ *Euptoieta hegesia* Mexican Fritillary
____ *Speyeria cybele* Great Spangled Fritillary
____ *Speyeria aphrodite* Aphrodite Fritillary
____ *Speyeria idalia* Regal Fritillary
____ *Speyeria edwardsii* Edwards' Fritillary
____ *Speyeria zerene* Zerene Fritillary
____ *Speyeria callippe* Callippe Fritillary
____ *Speyeria atlantis* Atlantis Fritillary
____ (*S. a. atlantis*) 'Atlantis' Atlantis Fritillary
____ (*S. a. hesperis*) 'Hesperis' Atlantis Fritillary
____ *Speyeria hydaspe* Hydaspe Fritillary
____ *Speyeria mormonia* Mormon Fritillary
____ *Boloria eunomia* Bog Fritillary
____ *Boloria selene* Silver-bordered Fritillary
____ *Boloria bellona* Meadow Fritillary
____ *Boloria frigga* Frigga Fritillary
____ *Boloria improba* Dingy Fritillary
____ *Boloria epithore* Pacific Fritillary
____ *Boloria freija* Freija Fritillary
____ *Boloria montinus* Purplish Fritillary (formerly *titania*)
____ *Boloria chariclea* Arctic Fritillary
(see also *Boloria montinus* Purplish Fritillary)
____ *Chlosyne gorgone* Gorgone Checkerspot
____ *Chlosyne nycteis* Silvery Checkerspot
____ *Chlosyne harrisii* Harris' Checkerspot
____ *Chlosyne palla* Northern Checkerspot
____ *Chlosyne whitneyi* Rockslide Checkerspot
____ *Chlosyne acastus* Sagebrush Checkerspot
____ *Chlosyne hoffmanni* Hoffman's Checkerspot
____ *Phyciodes tharos* Pearl Crescent
____ *Phyciodes selenis* Northern Crescent
____ *Phyciodes batesii* Tawny Crescent
____ *Phyciodes campestris* Field Crescent
____ *Phyciodes pallida* Pale Crescent
____ *Phyciodes mylitta* Mylitta Crescent
____ *Euphydryas chalcedona* Variable Checkerspot
____ (*E. c. anicia*) 'Anicia' Variable Checkerspot
____ *Euphydryas editha* Edith's Checkerspot
____ *Euphydryas phaeton* Baltimore Checkerspot
____ *Polygonia interrogationis* Question Mark
____ *Polygonia comma* Eastern Comma
____ *Polygonia satyrus* Satyr Comma
____ *Polygonia faunus* Green Comma

____ *Polygonia gracilis* Hoary Comma
____ (*P. g. zephyrus*) 'Zephyr' Hoary Comma
____ *Polygonia oreas* Oreas Comma
____ *Polygonia progne* Gray Comma
____ *Nymphalis vaualbum* Compton Tortoiseshell
____ *Nymphalis californica* California Tortoiseshell
____ *Nymphalis antiopa* Mourning Cloak
____ *Nymphalis milberti* Milbert's Tortoiseshell
____ *Vanessa virginiensis* American Lady
____ *Vanessa cardui* Painted Lady
____ *Vanessa annabella* West Coast Lady
____ *Vanessa atalanta* Red Admiral
____ *Junonia coenia* Common Buckeye
____ *Limenitis arthemis* Red-spotted Admiral
____ (*L. a. arthemis*) White Admiral
____ (*L. a. astyanax*) Red-spotted Purple
____ *Limenitis archippus* Viceroy
____ *Limenitis weidemeyerii* Weidemeyer's Admiral
____ *Limenitis lorquini* Lorquin's Admiral
____ *Asterocampa celtis* Hackberry Emperor
____ *Asterocampa clyton* Tawny Emperor
NYMPHALIDAE - Satyrs
____ *Enodia anthedon* Northern Pearly-eye
____ *Satyrodes eurydice* Eyed Brown
____ *Satyrodes appalachia* Appalachian Brown
____ *Megisto cymela* Little Wood-Satyr
____ *Coenonympha tullia* Common Ringlet
____ (*C. tullia inornata*) 'Inornate' Common Ringlet
____ (*C. tullia nipisiquit*) 'Salt Marsh' Common Ringlet
____ *Cercyonis pegala* Common Wood-Nymph
____ *Cercyonis sthenele* Great Basin Wood-Nymph
____ *Cercyonis oetus* Small Wood-Nymph
____ *Erebia disa* Disa Alpine
____ *Erebia mancinus* Taiga Alpine
____ *Erebia discoidalis* Red-disked Alpine
____ *Erebia theano* Theano Alpine
____ *Erebia epipsodea* Common Alpine
____ *Neominois ridingsii* Riding's Satyr
____ *Oeneis nevadensis* Great Arctic
____ *Oeneis macounii* Macoun's Arctic
____ *Oeneis chryxus* Chryxus Arctic
____ *Oeneis uhleri* Uhler's Arctic
____ *Oeneis alberta* Alberta Arctic
____ *Oeneis taygete* White-veined Arctic
____ *Oeneis jutta* Jutta Arctic
____ *Oeneis melissa* Melissa Arctic
____ *Oeneis polixenes* Polixenes Arctic
NYMPHALIDAE - Milkweed Butterflies
____ *Danaus plexippus* Monarch
HESPERIIDAE - Spreadwing Skippers
____ *Epargyreus clarus* Silver-spotted skipper
____ *Urbanus proteus* Long-tailed Skipper
____ *Achalarus lyciades* Hoary Edge
____ *Thorybes bathyllus* Southern Cloudywing
____ *Thorybes pylades* Northern Cloudywing
____ *Staphylus hayhurstii* Hayhurst's Scallopwing
____ *Erynnis icelus* Dreamy Duskywing
____ *Erynnis brizo* Sleepy Duskywing
____ *Erynnis juvenalis* Juvenal's Duskywing
____ *Erynnis propertius* Propertius Duskywing
____ *Erynnis horatius* Horace's Duskywing

COUNT NAME, Province: _____

____ *Erynnis martialis* Mottled Duskywing
____ *Erynnis pacuvius* Pacuvius Duskywing
____ *Erynnis zarucco* Zarucco Duskywing
____ *Erynnis funeralis* Funereal Duskywing
____ *Erynnis lucilius* Columbine Duskywing
____ *Erynnis baptisiae* Wild Indigo Duskywing
____ *Erynnis afranius* Afranius Duskywing
____ *Erynnis persius* Persius Duskywing
____ *Pyrgus centaureae* Grizzled Skipper
____ *Pyrgus ruralis* Two-banded Checkered-Skipper
____ *Pyrgus scriptura* Small Checkered-Skipper
____ *Pyrgus communis* Common Checkered-Skipper
____ *Pholisora catullus* Common Sootywing

HESPERIIDAE - Skipperlings

____ *Carterocephalus palaemon* Arctic Skipper

HESPERIIDAE - Grass-Skippers

____ *Ancyloxypha numitor* Least Skipper
____ *Oarisma poweshiek* Poweshiek Skipperling
____ *Oarisma garita* Garita Skipperling
____ *Thymelicus lineola* European Skipper
____ *Hylephila phyleus* Fiery Skipper
____ *Hesperia uncas* Uncas Skipper
____ *Hesperia juba* Juba Skipper
____ *H. comma* Com. Branded Sk. (incl. *manitoba*, *assiniboia*, *colorado*)
____ *Hesperia ottoe* Ottoe Skipper
____ *Hesperia pahaska* Pahaska Skipper
____ *Hesperia dacotae* Dakota Skipper
____ *Hesperia sassacus* Indian Skipper
____ *Hesperia nevada* Nevada Skipper
____ *Polites peckius* Peck's Skipper
____ *Polites sabuleti* Sandhill Skipper
____ *Polites draco* Draco Skipper
____ *Polites themistocles* Tawny-edged Skipper
____ *Polites origenes* Crossline Skipper
____ *Polites mystic* Long Dash
____ *Polites sonora* Sonora Skipper
____ *Polites vibex* Whirlabout
____ *Wallengrenia egeremet* Northern Broken-Dash
____ *Pompeius verna* Little Glassywing
____ *Atalopedes campestris* Sachem
____ *Anatrytone logan* Delaware Skipper
____ *Ochlodes sylvanoides* Woodland Skipper
____ *Poanes massasoit* Mulberry Wing
____ *Poanes hobomok* Hobomok Skipper
____ *Poanes viator* Broad-winged Skipper
____ *Euphyes dion* Dion Skipper
____ *Euphyes dukesi* Duke's Skipper
____ *Euphyes conspicua* Black Dash
____ *Euphyes bimacula* Two-spotted Skipper
____ *Euphyes vestris* Dun Skipper
____ *Atrytonopsis hianna* Dusted Skipper
____ *Amblyscirtes simius* Simius Roadside-Skipper
____ *Amblyscirtes oslari* Oslar's Roadside-Skipper
____ *Amblyscirtes hegon* Pepper and Salt Skipper
____ *Amblyscirtes vialis* Common Roadside-Skipper
____ *Calpodetes ethlius* Brazilian Skipper
____ *Panoquina ocola* Ocola Skipper

UNLISTED/UNIDENTIFIED SPECIES: Butterflies not on preceding list, or butterflies not fully identified to species, should be listed here and copied to Unlisted Species page of online count form. Butterflies identified only to group (e.g., Hairstreak sp.) or to genus (e.g., *Satyrium* sp.) are added to the total of adult species **ONLY** if no other butterflies in that group or genus have been identified to species. However, ALWAYS add the number of **individuals** listed here to your total individuals. Please be sure to include ALL unidentified butterflies, even if it's 600 Grass-Skipper sp. or simply 20 Butterfly sp., as these figures are important for data analysis.

Field Notes (use for unusual weather, methods of estimating numbers, etc.). Copy to Field Notes section on first page of online count form.

Submit your count data online at www.butterflycounts.org and mail 1 copy of your printed Participants List along with fee payment to:

Compilers: Please check your totals against those calculated by the online count form!

NABA, 4 Delaware Rd, Morristown, NJ 07960 USA

_____ ADULT SPECIES / _____ TOTAL INDIVIDUALS

*** IMMATURE BUTTERFLIES ***

Use English names and copy to Immature Butterflies page of online count form. Do NOT add to totals of species or individuals.

Species: _____
 Number: _____ egg(s) _____ caterpillar(s) _____ pupa(s)
 on (plant/surface): _____

Species: _____
 Number: _____ egg(s) _____ caterpillar(s) _____ pupa(s)
 on (plant/surface): _____

Species: _____
 Number: _____ egg(s) _____ caterpillar(s) _____ pupa(s)
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Species: _____
 Number: _____ egg(s) _____ caterpillar(s) _____ pupa(s)
 on (plant/surface): _____

- * Please send entire count submission together in ONE package.
- * Please make full payment for this count in ONE check or money order; include a separate check or money order for NABA membership dues.
- * Please do NOT send via registered mail.

Thank you very much for your cooperation & participation!