ANNUAL NABA BUTTERFLY COUNT - INSTRUCTIONS (USA)

This printed count forms is for field use only. All counts must submit their results using the online data entry system. Please contact the NABA Count Program if you have questions or concerns.

Please report your count results directly to NABA through our online count form at www.butterflycounts.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 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. If entering your data through the online count form presents any difficulty, please contact NABA for assistance.

COUNTER 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. Prior to 2007, only one count per count circle per year could be submitted to NABA. With the introduction of Seasonal Butterfly Counts, a group can, if it so wishes, submit multiple counts of the same circle; however there can still be only one count conducted in the June-July period. For example, a group could count a circle in May, in July, and in Sept., and have the results of all three counts flow into the database that NABA is creating and also be published in the NABA Butterfly Count Report. A NABA Seasonal Butterfly Count should be submitted only if the compiler believes it is likely that a count of that particular circle at that time of year can be maintained long term.

TIMING OF THE COUNT

4th of July Counts may be held any day in June or July. Seasonal Counts may be held any day outside of June-July. 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. The date of your count will determine the minimum number of adult observers and party-hours required:

<table>
<thead>
<tr>
<th>Count</th>
<th>Date of June or July</th>
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<tbody>
<tr>
<td>NABA 4th of July Butterfly Count: A minimum of four adult observers AND 6 party-hours per count are REQUIRED for all counts started after 2008; and, except in extenuating circumstances, ALL counts should expend at least 6 party-hours of effort.</td>
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<tr>
<td>NABA Seasonal Butterfly Count: A minimum of four adult observers AND 6 party-hours per count is REQUIRED.</td>
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DATE OF NEXT YEAR'S COUNT

Please contact NABA (at address/phone above, or e-mail to cerbone@naba.org) with the date of your next year's 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 & COUNTRY CIRCLES

Unless your count is an existing 4th 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.
Up to THREE counts per circle per year (one Spring Seasonal count, one 4th of July count, and one Fall Seasonal count) will be published in the annual Count Report. 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. 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 adult 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, please explain your method of estimating in your 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 are out of sight of each other, report the maximum number of parties that counted (e.g., if there were 1-4 parties over the course of the day, 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 all counts started after 2008, and—except in extenuating circumstances—ALL counts should expend at least 6 party-hours.**
- For any count started after 2008, at least four persons per count must be adult field observers (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., *Satyrium* sp., *Grass-Skipper* sp. Please enter all Unidentified species in the form "*Satyrium* sp.," "*Fritillary* sp." "*Nymphalidae* sp.," etc., NOT "*Satyrum," "*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., *Satyrium* sp. counts as a species ONLY if no other *Satyrium* 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 Sightings 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 can be 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 field 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 butterflies 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 field observers on the 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.
• 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.
- 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 with appropriate fee 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 administrator Mike Cerbone at cerbone@naba.org.
PRESS RELEASE
THE 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 (name of count compiler) ___________________________ at ___________________________ during the: day / evening / weekend (first year) (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

**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!**

- 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).
- 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 in spring of the year following the count.
- **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.
- An email notice that count forms are available for download will be sent to the compiler at the email address listed below in the spring of the following year.
- Please attach additional sheet(s) if needed.
- Please print the 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.

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**Count Name, State:**

Planned date for next year's count (not binding): ____________________________

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<th>NAME/ADDRESS</th>
<th>FEE</th>
<th>Report</th>
<th>Donation</th>
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<td>Email (for NABA use only):</td>
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**TOTALS / SUBTOTALS**

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<table>
<thead>
<tr>
<th>Count Name, State:</th>
<th>SUBTOTALS FROM PRECEDING PAGE</th>
<th>FEE</th>
<th>Report</th>
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<td>TOTAL</td>
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</table>
**BUTTERFLY COUNT FORM - USA**

* * * **REQUIRED INFORMATION** * * *

DEADLINE for submission of completed online count form to NABA:

**Count Name** (as it appears in the Count Report), State: __________________________________________

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 ___

4. Wind: ______ to ______ mph ___

Participants:
1. Number of field observers: ______

2. Number of field parties (report the maximum number: if 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:** ____________________________ **State:** ______ **Zip:** __________________________

**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:

__________________________________________

__________________________________________

__________________________________________

Changes to butterfly habitats noticed since last year (do NOT include weather/climate). 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](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 County." This description must match the coordinates above.):

__________________________________________

__________________________________________

__________________________________________

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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 submit a map of the count circle to NABA
COUNT NAME, State, Year:

** **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 of that species occurs in your area.

**PAPILIONIDAE - Swallowtails**

<table>
<thead>
<tr>
<th>Species</th>
<th>subspecies</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Parnassius eversmanni</td>
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<td>Eversmann's Parnassian</td>
</tr>
<tr>
<td>Parnassius clodius</td>
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<td>Clodius Parnassian</td>
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<tr>
<td>Parnassius phoebus</td>
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<td>Phoebus Parnassian</td>
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<tr>
<td>(P. p. behri) * Sierra Nevada*</td>
<td></td>
<td>Phoebus Parnassian</td>
</tr>
<tr>
<td>Battus philenor</td>
<td></td>
<td>Pipevine Swallowtail</td>
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<tr>
<td>Battus polydamas</td>
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<td>Polydamas Swallowtail</td>
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<tr>
<td>Eurytides marcellus</td>
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<td>Zebra Swallowtail</td>
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<td>Eurytides philaena</td>
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<td>Dark-kite Swallowtail</td>
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<td>Papilio polyxenes</td>
<td></td>
<td>Black Swallowtail</td>
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<tr>
<td>Papilio joanae</td>
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<td>Ozark Swallowtail</td>
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<td>(P. m. bairdii) * Baird's*</td>
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<td>Papilio cresphontes</td>
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<td>Papilio aristodemus</td>
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<td>Papilio rutulus</td>
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<td>Papilio anchisiade</td>
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<td>Ruby-spotted Swallowtail</td>
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**PIERIDAE - Whites & Sulphurs**

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<tr>
<th>Species</th>
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<tr>
<td>Neophasia menapia</td>
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<tr>
<td>Neophasia terlottii</td>
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<td>Appias drusilla</td>
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<td>Pontia beckerii</td>
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<td>Pontia sisybrii</td>
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<td>Spring White</td>
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<td>Pontia protodice</td>
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<td>Checkered White</td>
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<td>Pontia occidentalis</td>
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<td>Pieris napi</td>
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<td>(P. n. marginalis) * Margined*</td>
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<td>Pieris rapae</td>
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<td>Ascia monuste</td>
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<td>Ganyra josephina</td>
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<td>Euchloe ausonides</td>
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<td>Large Marble</td>
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<td>Euchloe creusa</td>
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<td>Euchloe hyantis</td>
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<td>Pearly Marble</td>
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<tr>
<td><strong>LYCAENIDAE - Harvester &amp; Coppers</strong></td>
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<tr>
<td>Feniseca tarquinii - Harvester</td>
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<td>Lycaena arota - Tailed Copper</td>
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<td>Lycaena phlaeas - American Copper</td>
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<td>Lycaena xanthonoides - Great Copper</td>
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<td>Lycaena editha - Edith's Copper</td>
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<td>Lycaena gorgon - Gorgon Copper</td>
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<td>Lycaena hyllus - Bronze Copper</td>
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<td>Lycaena rubidus - Ruddy Copper</td>
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<td>(L. r. ferrisi) 'White Mountains' Ruddy Copper</td>
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<td>Lycaena heteronea - Blue Copper</td>
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<td>Lycaena epixanthus - Bog Copper</td>
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<td>Lycaena dorcas - Dorcas Copper</td>
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<td>Lycaena helleoides - Purplish Copper</td>
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<td>Lycaena nivalis - Lilac-bordered Copper</td>
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<td>Lycaena mariposa - Mariposa Copper</td>
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<tr>
<td>Hypaurotis cralusus - Colorado Hairstreak</td>
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<td>Habrodais grunus - Golden Hairstreak</td>
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<tr>
<td>Eumaeus atala - Atala</td>
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<tr>
<td>Atlides hesalus - Great Purple Hairstreak</td>
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<td>Chlorostrymon sinaethis - Silver-banded Hairstreak</td>
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<tr>
<td>Phaethrion alcestis - Soapberry Hairstreak</td>
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<td><strong>Satyrion titus</strong> - Coral Hairstreak</td>
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<tr>
<td>Satyrion behrii - Behr's Hairstreak</td>
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<tr>
<td>Satyrion fuliginosum - Sooty Hairstreak</td>
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<td>Satyrion acadica - Acadia Hairstreak</td>
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<td>Satyrion californica - California Hairstreak</td>
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<td>Satyrion sylvius - Sylvan Hairstreak</td>
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<td>Satyrion Edwardsii - Edwards's Hairstreak</td>
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<tr>
<td>Satyrion calanus - Banded Hairstreak</td>
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<td>Satyrion caryaevorum - Hickory Hairstreak</td>
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<tr>
<td>Satyrion kingi - King's Hairstreak</td>
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<td>Satyrion liparopus - Striped Hairstreak</td>
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<td>Satyrion auretorum - Gold-hunter's Hairstreak</td>
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<td>Satyrion tetra - Mountain Mahogany Hairstreak</td>
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<td>Satyrion saepium - Hedgerow Hairstreak</td>
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<tr>
<td>Satyrion favonius - Oak Hairstreak</td>
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<tr>
<td>(S. f. favonius) 'Southern' Oak Hairstreak</td>
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<tr>
<td>(S. f. ontario) 'Northern' Oak Hairstreak</td>
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<td>Satyrion polingi - Poling's Hairstreak</td>
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<tr>
<td>Cyanophrys herodotus - Tropical Greenstreak</td>
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<td>Panthiades bathidis - Zebra Cross-streak</td>
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<td>Calliphrys dumetorum - Bramble Hairstreak</td>
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<tr>
<td>(C. d. apama) 'Canyon' Bramble Hairstreak</td>
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<tr>
<td>(C. d. affinis) 'Immaculate' Bramble Hairstreak</td>
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<tr>
<td>Calliphrys sheridani - Sheridan's Hairstreak</td>
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<tr>
<td>Calliphrys xami - Xami Hairstreak</td>
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<tr>
<td>Calliphrys augustinus - Brown Elfin</td>
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<tr>
<td>Calliphrys mossii - Moss' Elfin</td>
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<tr>
<td>Calliphrys polios - Hoary Elfin</td>
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<tr>
<td>Calliphrys irus - Frosted Elfin</td>
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<tr>
<td>Calliphrys henrici - Henry's Elfin</td>
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<tr>
<td>Calliphrys niphon - Eastern Pine Elfin</td>
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<td><strong>Callophrys eryphon</strong> - Western Pine Elfin</td>
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<tr>
<td>Callophrys spinetorum - Thicket Hairstreak</td>
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<tr>
<td>Callophrys johnsoni - Johnson's Hairstreak</td>
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<tr>
<td>Callophrys gryneus - Juniper Hairstreak</td>
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<tr>
<td>(C. g. gryneus) 'Olive' Juniper Hairstreak</td>
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<tr>
<td>(C. g. siva) 'Siva' Juniper Hairstreak</td>
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<tr>
<td>(C. g. nelsoni) 'Nelson's' Juniper Hairstreak</td>
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<tr>
<td>Callophrys hessei - Hessey's Hairstreak</td>
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<td>Parrhasius m-album - White M Hairstreak</td>
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<td>Strymon melinus - Gray Hairstreak</td>
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<tr>
<td>Strymon martialis - Martial Scrub-Hairstreak</td>
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<tr>
<td>Strymon acis - Bartram's Scrub-Hairstreak</td>
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<td>Strymon istapa - Mallow Scrub-Hairstreak</td>
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<td>Strymon bazarci - Lanta Scrub-Hairstreak</td>
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<td>Electrostrymon angeli - Fulvous Hairstreak</td>
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<tr>
<td>Calycopis cecrops - Red-banded Hairstreak</td>
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<tr>
<td>Calycopis isabeo - Dusky-blue Groundstreak</td>
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<td>Ministrumy leda - Leda Ministreak</td>
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<tr>
<td>Ministrumy clytie - Clytie Ministreak</td>
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<td>Ministrumy azia - Gray Ministreak</td>
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<tr>
<td>Erura laeta - Early Hairstreak</td>
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<tr>
<td>Erura quaderna - Arizona Hairstreak</td>
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<table>
<thead>
<tr>
<th><strong>LYCAENIDAE - Blues</strong></th>
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<tr>
<td>Brephidium exile - Western Pygmy-Blue</td>
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<tr>
<td>Brephidium isophthalma - Eastern Pygmy-Blue</td>
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<tr>
<td>Leptotes cassius - Cassius Blue</td>
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<td>Leptotes marina - Marine Blue</td>
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<td>Zizula cyna - Cyna Blue</td>
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<td>Hemiargus thomasi - Miami Blue</td>
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<td>Hemiargus ambon - Nickerbean Blue</td>
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<td>Hemiargus ceraunus - Ceraunus Blue</td>
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<td>Hemiargus isola - Reakirt's Blue</td>
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<td>Everes comynata - Eastern Tailed-Blue</td>
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<td>Everes amyntula - Western Tailed-Blue</td>
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<td>Celastrina ladon - Spring Azure</td>
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<td>(C. l. humulus) 'Hops' Spring Azure</td>
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<td>(C. l. neglecta) 'Summer' Spring Azure</td>
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<td>Celastrina neglectata - Appalachian Azure</td>
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<td>Celastrina nigra - Dusky Azure</td>
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<td>Philotes sonorensis - Sonoran Blue</td>
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<td>Euphilotes battoides - Square-spotted Blue</td>
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<tr>
<td>(E. b. allyni) 'El Segundo' Square-spotted Blue</td>
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<tr>
<td>(E. b. bernardino) 'Bernardino' Square-spotted Blue</td>
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<tr>
<td><strong>Euphilotes enoptes</strong> - Dotted Blue (includes ancilla)</td>
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<tr>
<td>(E. e. mojave) 'Mojave' Dotted Blue</td>
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<tr>
<td>Euphilotes rita - Rita Blue (includes pallescens)</td>
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<td>Euphilotes spaldingi - Spalding's Blue</td>
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<td>Glaucopsyche piassus - Arrowhead Blue</td>
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<tr>
<td>Glaucopsyche lygdamus - Silvery Blue</td>
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<td>Lycaenides idas - Northern Blue</td>
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<td>Lycaenides melissa - Melissa Blue</td>
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<tr>
<td>(L. m. samuelis) 'Karner' Melissa Blue</td>
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</table>
COUNT NAME, State, Year:

NYMPHALIDAE - Fritillaries

- Speyeria mormonia - Mormon Fritillary
- Boloria napaea - Mountain Fritillary
- Boloria eunomia - Bog Fritillary
- Boloria selene - Silver-bordered Fritillary
- Boloria bellona - Meadow Fritillary
- Boloria frigga - Frigga Fritillary
- Boloria improba - Dingy Fritillary
- Boloria kriemhild - Relict Fritillary
- Boloria ephippia - Pacific Fritillary
- Boloria freija - Freija Fritillary
- Boloria montiniscus - Purplish Fritillary (formerly titania)

RIODINIDAE - Metalmarks

- Calephelis virginiansis - Little Metalmark
- Calephelis borealis - Northern Metalmark
- Calephelis nemesis - Fatal Metalmark
- Calephelis perditalis - Rounded Metalmark
- Calephelis wrightii - Wright's Metalmark
- Calephelis mutica - Swamp Metalmark
- Calephelis rawsoni - Rawson's Metalmark
- Calephelis arizonensis - Arizona Metalmark
- Caria ino - Red-bordered Metalmark
- Lasaia sula - Blue Metalmark
- Melanis pice - Red-bordered Pixie
- Emesis zela - Zela Metalmark
- Emesis ares - Ares Metalmark
- Apodemia mormo - Mormon Metalmark
- Apodemia palmerii - Palmer's Metalmark
- Apodemia nais - Nais Metalmark

NYMPHALIDAE - Brushfoots

- Libytheana carinenta - American Snout
- Agraulis vanillae - Gulf Fritillary
- Dione moneta - Mexican Silverspot
- Dryadula phaetusa - Banded Orange Heliconian
- Dryas iulia - Julia Heliconian
- Eueides isabella - Isabella's Heliconian
- Heliconius charithonia - Zebra Heliconian
- Heliconius erato - Erato Heliconian
- Euptoieta claudia - Variegated Fritillary
- Euptoieta hesperia - Mexican Fritillary
- Speyeria diana - Diana Fritillary
- Speyeria cybele - Great Spangled Fritillary
- Speyeria aphrodite - Aphrodite Fritillary
- Speyeria idalia - Regal Fritillary
- Speyeria edwardsii - Edwards' Fritillary
- Speyeria coronis - Coronis Fritillary
- Speyeria zerene - Zerene Fritillary
- Speyeria callippe - Callippe Fritillary
- Speyeria egleis - Great Basin Fritillary
- Speyeria adiast - Unsilvered Fritillary
- Speyeria atlantis - Atlantis Fritillary
- (S. a. atlantis) 'Atlantis' Atlantis Fritillary
- (S. a. hesperis) 'Hesperis' Atlantis Fritillary
- Speyeria hydaspe - Hydaspe Fritillary
- Boloria chariclea - Arctic Fritillary
- Poladryas minuta - Dotted Checkerspot
- Poladryas arachne - Arachne Checkerspot
- Chlosyne theona - Theona Checkerspot
- Chlosyne cyneas - Black Checkerspot
- Chlosyne fulvia - Fulvia Checkerspot
- Chlosyne larissa - Harris' Checkerspot
- Chlosyne palla - Northern Checkerspot
- Chlosyne whitneyi - Rosy Checkerspot
- Chlosyne acustus - Sagebrush Checkerspot
- Chlosyne gabbii - Gabb's Checkerspot
- Chlosyne hoffmanni - Hoffman's Checkerspot
- Dymasia dymas - Tiny Checkerspot
- Tezola elada - Elada Checkerspot
- Phyciodes texana - Texan Crescent
- Phyciodes frisius - Cuban Crescent
- Phyciodes tulcis - Pale-banded Crescent
- Phyciodes vesta - Vesta Crescent
- Phyciodes phaon - Phaon Crescent
- Phyciodes thersos - Pearl Crescent
- Phyciodes selenis - Northern Crescent
- Phyciodes batesii - Tawny Crescent
- Phyciodes campestris - Field Crescent
- Phyciodes picta - Painted Crescent
- Phyciodes orseis - California Crescent
- Phyciodes pallida - Pale Crescent
- Phyciodes mylitta - Mylitta Crescent
- Euphydryas gillettii - Gillett's Checkerspot
- Euphydryas chalcedona - Variable Checkerspot
- (E. c. chalcedona) 'Chalcedon' Variable Checkerspot
- (E. c. colon) 'Snowberry' Variable Checkerspot
- (E. c. anicia) 'Anicia' Variable Checkerspot
- Euphydryas editha - Edith's Checkerspot
- Euphydryas phaeton - Baltimore Checkerspot
<table>
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<th>Family</th>
<th>Common Name</th>
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<td>HESPERIIDAE</td>
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<td>-Polygongia comma*</td>
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<td>-Polygongia progne*</td>
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<td>-Nymphalalis vauaalbum*</td>
<td>Compton Tortoiseshell</td>
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<td>-Nymphalalis antiope*</td>
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<td>-Vanessa cardui*</td>
<td>Painted Lady</td>
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<td>West Coast Lady</td>
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<td>-Junonia coenia*</td>
<td>Common Buckeye</td>
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<td>-Junonia evarete*</td>
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<td>White Peacock</td>
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<td>-Anarta fatima*</td>
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<td>-Limenitis artemis*</td>
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<td>-Limenitis lorrini*</td>
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<td>-Mysscella ethusa*</td>
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<td>Dingy Purplewing</td>
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<td>-Eunicia tatila*</td>
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<td>-Mestra amymone*</td>
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<td>-Biblis hyperia*</td>
<td>Red Rim</td>
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<td>-Marpesia petreus*</td>
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<td>-Anaea aidea*</td>
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<td>-Anaea floridals*</td>
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<td>-Anaea andria*</td>
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<td>-Asterocampa celtis*</td>
<td>Hackberry Emperor</td>
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<td>-Asterocampa leilia*</td>
<td>Empress Leilia</td>
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<tr>
<td>-Asterocampa clyton*</td>
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<tr>
<td>-Doxocopa laure*</td>
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<td>Milkweed Butterflies</td>
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<td>-Danaus plexippus*</td>
<td>Monarch</td>
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<td>-Danaus gilippus*</td>
<td>Queen</td>
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<td>-Danaus eresimus*</td>
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<td>HESPERIIDAE</td>
<td>Firetips</td>
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<tr>
<td>-Pyrrhopyge araxes*</td>
<td>Dull Firetip</td>
</tr>
<tr>
<td>HESPERIIDAE</td>
<td>Spreadwing Skippers</td>
</tr>
<tr>
<td>-Phocides pigmalion*</td>
<td>Mangrove Skipper</td>
</tr>
<tr>
<td>-Phocides polybius*</td>
<td>Guava Skipper</td>
</tr>
<tr>
<td>-Phocides belus*</td>
<td>Big-spotted Beamer</td>
</tr>
<tr>
<td>-Epargyreus zestos*</td>
<td>Zestos Skipper</td>
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<tr>
<td>-Epargyreus clarus*</td>
<td>Silver-spotted Skipper</td>
</tr>
<tr>
<td>-Polygonus leon*</td>
<td>Hammock Skipper</td>
</tr>
<tr>
<td>-Choiodes catillus*</td>
<td>White-striped Longtail</td>
</tr>
<tr>
<td>-Choiodes zilpa*</td>
<td>Zilpa Longtail</td>
</tr>
<tr>
<td>-Zestusa catillus*</td>
<td>White-striped Longtail</td>
</tr>
<tr>
<td>-Codatracrus arizonensis*</td>
<td>Arizona Skipper</td>
</tr>
<tr>
<td>-Codatracrus myst*</td>
<td>Valeriana Cloudywing</td>
</tr>
<tr>
<td>-Urbanus proteus*</td>
<td>Long-tailed Skipper</td>
</tr>
<tr>
<td>-Urbanus belli*</td>
<td>Double-striped Longtail</td>
</tr>
</tbody>
</table>
COUNT NAME, State, Year:

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Turquoise Longtail - Urbanus evona
Urbanus dorantes Dorantes Longtail
Urbanus teles Teles Longtail
Urbanus proene Brown Longtail
Astraptes fulgerator Two-barred Flasher
Autochton cellus Golden Banded-Skipper
Achalarus lyciades Hoary Edge
Achalarus casica Desert Cloudywing
Achalarus tehuacana Dark Cloudywing
Achalarus toxoe Coyote Cloudywing
Thorybes bathylus Southern Cloudywing
Thorybes pylades Northern Cloudywing
Thorybes mexicanus Mexican Cloudywing
Thorybes confusis Confused Cloudywing
Thorybes drusius Drusius Cloudywing
Cogia calchas Mimosa Skipper
Cogia hippalus Acacia Skipper
Cogia outis Outis Skipper
Cogia catus Gold-costa Skipper
Staphylus cees Golden-headed Scallopwing
Staphylus mazans Mazans Scallopwing
Staphylus hayhurstii Hayhurst's Scallopwing
Gorgythus begga Variegated Skipper
Sostrata bifasciata Blue-studded Skipper
Carthenes canescens Hoary Skipper
Xenophanes tryxus Glassy-winged Skipper
Antigonus emorsus White Spurwing
Systasea pulverulentia Texas Powdered-Skipper
Systasea zampa Arizona Powdered-Skipper
Achlyodes thraso Sickle-winged Skipper
Achlyodes pallida Pale Sicklewings
Grais stigmaticus Hermit Skipper
Timochaeres rufipilifex Brown-banded Skipper
Anastreus septemtenuetor Common Bluevent
Chiomara asychis White-patched Skipper
Gesta gesta False Duskywing
Ephyriades brunneus Florida Duskywing
Erynnis icelus Dreamy Duskywing
Erynnis brizo Sleepy Duskywing
Erynnis juvenalis Juvenal's Duskywing
Erynnis telemachus Rocky Mountain Duskywing
Erynnis propertiis Proptertius Duskywing
Erynnis meridianus Meridian Duskywing
Erynnis scudderii Scudder's Duskywing
Erynnis horatius Horace's Duskywing
Erynnis tristis Mournful Duskywing
Erynnis maritensis Mottled Duskywing
Erynnis pacuvius Pacuvius Duskywing
Erynnis zarucco Zarucco Duskywing
Erynnis funeris Funereal Duskywing
Erynnis lucilius Columbine Duskywing
Erynnis baptisiae Wild Indigo Duskywing
Erynnis afranius Afranian Duskywing
Erynnis perversus Persius Duskywing
Erynnus centaureae Grizzled Skipper
Pyrgus ruralis Two-banded Checkered-Skipper
Pyrgus xanthus Mountain Checkered-Skipper
Pyrgus scriptura Small Checkered-Skipper
Pyrgus communis Common Checkered-Skipper
Pyrgus albescens White Checkered-Skipper
Pyrgus sp. Common/White Checkered-Skipper
Pyrgus oileus Tropical Checkered-Skipper
Pyrgus philetus Desert Checkered-Skipper
Heliopetes domicella Erickson's White-Skipper
Heliopetes ericetorum Northern White-Skipper
Heliopetes laviana Laviana White-Skipper
Heliopetes macaire Turk's-cap White-Skipper
Heliopetes sublinea East-Mexican White-Skipper
Celotes nussa Common Streaky-Skipper
Pholisora catullus Common Sooywing
Hesperopsis libya Mojave Sooywing
Hesperopsis alpigena Saltbush Sooywing (incl. graciela)

HESPERIIDAE - Skipperlings
Carterocephalus palaemon Arctic Skipper
Piruna pirus Russet Skipperling
Piruna polingi Four-spotted Skipperling
Piruna cingo Many-spotted Skipperling

HESPERIIDAE - Grass-Skippers
Vidius perigenes Pale-rayed Skipper
Nastra lherminier Swarthy Skipper
Nastra julia Julia's Skipper
Nastra neamathla Neamathla Skipper
Cymaenes tripuncta Three-spotted Skipper
Cymaenes adilia Fawn-spotted Skipper
Lerema accius Clouded Skipper
Decinea percusius Double-dotted Skipper
Ancyloxypha numitor Least Skipper
Ancyloxypha areni Least Least Skipper
Oarisma poweshiek Poweshiek Skipperling
Oarisma garita Garita Skipperling
Oarisma edwardsii Edwards' Skipperling
Copaeodes aurantius Orange Skipperling
Copaeodes minus Southern Skipperling
Adopaeoides perritwitzi Sunrise Skipper
Thymelicus lineola European Skipper
Hylephila phyleus Fiery Skipper
Pseudocopaeodes eumus Alkali Skipper
Hesperia uncas Uncas Skipper
Hesperia juba Juba Skipper
H. comma Common Branded Skipper (incl. manitoba, assiniboia, colorado)
Hesperia ottoe Ottoe Skipper
Hesperia phalaena Pahaska Skipper
Hesperia columbia Columbian Skipper
Hesperia metea Cobweb Skipper
Hesperia viridis Green Skipper
Hesperia attalus Dotted Skipper
Hesperia meskei Meske's Skipper
Hesperia dacotae Dakota Skipper
Hesperia lindseyi Lindsey's Skipper
Hesperia sassacus Indian Skipper
Hesperia miriamae Sierra Skipper
Hesperia nevada Nevada Skipper
Polites carus Carus Skipper
Polites peckius Peck's Skipper
Polites sabuleti Sandhill Skipper
Polites draco Draco Skipper
Polites baracka Baracoa Skipper
Polites themistocles Tawny-edged Skipper
Polites origenes Crossline Skipper
Polites mystic Long Dash
Polites sonora Sonora Skipper
Polites vibex Whirlabout
Wallengrenia otho Southern Broken-Dash
Wallengrenia egeremet Northern Broken-Dash
Pompeius verna Little Glassywing
Atalopedes campestris Sachem
Atrytone aragos Arogos Skipper
Anatrytone logan Delaware Skipper
Problema byssus Byssus Skipper
Problema bulenta Rare Skipper
Ochlodes sylvanoides Woodland Skipper
Ochlodes agricola Rural Skipper
Ochlodes yuma Yuma Skipper
Paratrytone snowi Snow's Skipper
Poanes massasoit Mulberry Wing
Poanes hobomok Hobomok Skipper
Poanes zabulon Zabulon Skipper
Poanes taxiles Taxiles Skipper
Poanes aaroni Aaron's Skipper
Poanes yehl Yehl Skipper
Poanes viator Broad-winged Skipper
Poanes melane Umber Skipper
Quasimellana eulogius Common Mellana
Euphyes arpa Palmetto Skipper
Euphyes palatka Palatka Skipper
Euphyes dion Dion Skipper
Euphyes dukesi Dukes' Skipper
Euphyes conspicua Black Dash
Euphyes berryi Berry's Skipper
Euphyes bimacula Two-spotted Skipper
Euphyes vestris Dun Skipper
Asbolis capucinus Monk Skipper
Atrytonopsis hianna Dusted Skipper
Atrytonopsis lunus Moon-marked Skipper
Atrytonopsis vierecki Viereck's Skipper
Atrytonopsis pittacus White-barred Skipper
Atrytonopsis python Python Skipper
Atrytonopsis cestus Cestus Skipper
Atrytonopsis edwardsii Sheep Skipper
Notamblyscirtes simius Simius Skipper
Amblyscirtes exoteria Large Roadside-Skipper
Amblyscirtes cassus Cassus Roadside-Skipper
Amblyscirtes aenus Bronze Roadside-Skipper
Amblyscirtes oslari Oslar's Roadside-Skipper
Amblyscirtes hegon Pepper and Salt Skipper
Amblyscirtes elissa Elissa Roadside-Skipper
Amblyscirtes texanae Texas Roadside-Skipper
A. tolteca Toltec Roadside-Skipper
A. aesculapius Lace-winged Roadside-Skipper
Amblyscirtes carolina Carolina Roadside-Skipper
Amblyscirtes reversa Reversed Roadside-Skipper
Amblyscirtes nereus Slaty Roadside-Skipper
Amblyscirtes ynsa Nysa Roadside-Skipper
Amblyscirtes eos Dotted Roadside-Skipper
Amblyscirtes cialis Common Roadside-Skipper
Amblyscirtes celia Celia's Roadside-Skipper
Amblyscirtes bell Coweb's Roadside-Skipper
Amblyscirtes alternata Dusky Roadside-Skipper
Amblyscirtes phylace Orange-headed Roadside-Skipper
Amblyscirtes fimbriata Orange-edged Roadside-Skipper
Lerodea cofaqui Purple
Lerodea arabus Violet-clouded Skipper
Lerodea dysaules Olive-clouded Skipper
Oligoria maculata Twin-spot Skipper
Calpodes ethlius Brazilian Skipper
Panoquina panoquin Salt Marsh Skipper
Panoquina panoquinoides Obscure Skipper
Panoquina errans Wandering Skipper
Panoquina ocola Ocola Skipper
Panoquina sylvicola (=leucas) Purple-washed Skipper
HESPERIIDAE - Giant-Skippers
Megathymus streckeri Strecker's Giant-Skipper
Megathymus yuccae Yucca Giant-Skipper
Megathymus cofaqui Cofaqui Giant-Skipper
Megathymus ursus Ursine Giant-Skipper
COUNT NAME, State, Year: __________________________

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.

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

<table>
<thead>
<tr>
<th>ADULT SPECIES</th>
<th>TOTAL INDIVIDUALS</th>
</tr>
</thead>
</table>

* 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:**
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**Species:**
Number: ____ egg(s) ____ caterpillar(s) ____ pupa(s)
on (plant/surface):______________________________

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

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

NABA, 4 Delaware Rd, Morristown, NJ 07960 USA

* 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!