



Summer Butterfly Census

9:45 AM - 2:00 PM, Saturday, June 30, 2012

What is a Butterfly Census? It's Citizen Science, just like the Christmas Bird Count!! Every year we add to the database on the distribution of butterflies in the Twin Cities area. We take note of both the number of species and the quantity of each species seen. The census findings are tallied by the North American Butterfly Association (NABA) and are used for further research into such things as habitat loss and change. We have observed 59 species of butterflies over time. For studying ahead, here are a few species that we see quite often: American Lady, Baltimore Checkerspot, Clouded Sulphur, Common Wood Nymph, Delaware Skipper, Eastern Tailed Blue, Eyed Brown, Great Spangled Fritillary, Monarch, Orange Sulphur, Pearl Crescent, Red Admiral, and Summer Azure.

How Do I Participate? Saint Paul Audubon's annual NABA Butterfly Census will take place at Arden Hills Army Training Site (AHATS). There is a \$5 fee to participate. We can only take 25 people, so register early! We must give the National Guard the names of all participants. Please register with Dorothy Waltz by Wednesday, June 27. [Sorry kids, new EPA reg's; no one under age 18 may participate.] Registrants should arrive at Arden Hills City Hall on Hwy 96 between Hamline and Lexington Avenues by 9:45 AM. We will carpool into AHATS. For more info and to register please contact Dorothy Waltz at 651-917-0930 or dwaltz@isd.net. A map and information packet will be mailed before the count.

Butterfly expert Dean Hansen will demonstrate how to catch and handle butterflies. Even if you don't know the difference between a Viceroy and a Monarch, you are welcome to come. This is a great "ID Class!" As we participate, we explore three areas of AHATS: a native prairie, a restored prairie, and a bog. After we finish counting at the prairies, we'll stop in a shady spot for lunch, then proceed to the bog and the woodland. This site overlooks Marsden Lake, where we'll look for swan and loon families. At the end of the count, we tally what we've seen. A complete list of species will be mailed after the count.



What to Bring & Wear Be sure to bring plenty of cool drinks and a bag lunch. A wide-brimmed hat, light-weight long pants and long-sleeve shirt, sunscreen, high socks, old shoes or rubber boots, and insect repellent are recommended. You may want to bring a butterfly field guide and a butterfly net. Binoculars are also a good idea, as 40-50 species are usually tallied. Past lists included Trumpeter Swan, Common Loon, flycatchers, sparrows, warblers, Osprey, Red-tailed and Cooper's Hawks, and sometimes Sandhill Cranes.

Equipment To get the most out of the day you should bring a butterfly net, available from Trans-Mississippi Bio-Supply, 590 Cardigan Rd, Shoreview, 651-484-4488.

Internet Sites for Butterflies The best site for upper midwest butterflies is maintained by Mike Reese, a Wisconsin expert: <http://www.wisconsinbutterflies.org/>

The NABA site contains oodles of info, at www.naba.org

Books for Butterflies

"Butterflies of North America" Focus Guide: Highly-acclaimed. Enhanced photos illustrate field marks.

Maps, text together on 2-page spread.

"Butterflies Through Binoculars-East" Great species accounts, informative intro. Maps, basic ID text and photos are together. Abundance graphs. Gardening tips.

"Peterson Field Guide to Eastern Butterflies" Text, maps, photos organized by species, very informative. Butterflies of the North Woods Nice regional guide, great photos and information. Limited scope for travel.

Stokes Butterfly Book A guide to butterfly gardening, identification, and behavior. Descriptions of larval and nectaring plants. Section on caterpillars. Informative.

Butterfly Gardening: Creating Summer Magic in Your Garden. Gardening, life cycles, essays, garden design tips, photography info, even a chapter on moths and the garden at night! Great Photos. www.sierra.org/books

Attracting Birds and Butterflies. Discussion of flora needed to attract both butterflies and birds, including hummingbirds.

CHAPTER INFO & VOLUNTEER OPPORTUNITIES

BOARD MEETINGS

Saint Paul Audubon's Board Meetings are held at the Ramsey-Washington Metro Watershed Office at 2665 Noel Drive, Little Canada. Exit 35-E at Little Canada Rd, go east to Noel. Meetings are held on the 1st Monday of the month unless otherwise noted, 6:30 to 8:30 PM. **Upcoming dates are: June 4.** For more info or regrets, contact Louis Asher at lbashernow@iphouse.com

The Five Reasons Why Clean Renewable Energy is so Critically Needed

Many people are aware that global warming is a critical reason why we need clean, renewable energy. But did you know there are at least four other strong reasons, including acidification of the oceans from CO₂, health concerns such as mercury contamination from burning coal, national security, and economics.

As the population as a whole begins to focus on global warming, environmental advocates need to bring out information about the *other* reasons to work for renewable energy. Otherwise, naysayers may continue to focus only on global warming and claim that it does not exist. The whole population needs to realize that we are faced with *multiple* serious hazards from the use of non-renewable energy sources!

97% of climate experts agree that global warming is happening. The average worldwide temperature has risen 1.4° F. in recent decades. At current rates humans send ~40 billion tons of CO₂ into the atmosphere each year. 1/3 to 1/2 of that amount is being absorbed by the oceans, leading to acidification. They are 25 to 30% more acidic than at the start of the 1900's. This increased acidification greatly affects coral reefs, and the carbonate structures in marine animals, including shell fish and plankton with carbonate structures.

Five Reasons, con't on page 3

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ABOUT OUR CHAPTER

Founded in 1945 as the 'St. Paul Bird Club' with 12 members, the Saint Paul Audubon Society now serves the entire East Metro region of the Twin Cities area, and has around 2,600 members. We hold 9 Member Meetings a year. Feel free to contact those listed at left for more info, or write to SPAS at PO Box 7275, Saint Paul, Minnesota, 55107 or visit our website at www.saintpaulaudubon.org

ABOUT OUR NEWSLETTER

The Cardinal is published 6 times a year. Articles are due on the 5TH of January, March, May, July, Sept, and Nov. Submissions may be edited. Send to hpbirdscouter@msn.com

THE CARDINAL Electronic Version Members may now receive the newsletter by download from the website. To sign up, contact Webmaster **Ben Wilson** online.

LOCAL SUPPORT

Audubon members who don't live in the East Metro Area who want to receive *The Cardinal* may send \$15 for a 1 year's subscription to **John O'Connell**, 2184 Larry Ho Drive, Saint Paul, MN 55119

ADDRESS CHANGES

Please call **1-800-274-4201** to change your address for National Audubon Society mailings, including *Audubon Magazine* and *The Cardinal*, or to sign up for Audubon's paper-free renewal program.

Nat'l Audubon Soc. www.audubon.org

Val Cunningham Receives 2012 Sustainable Saint Paul Natural Resources Conservation Award

Each year the *Sustainable Saint Paul* awards program honors the outstanding achievements of individuals, businesses and organizations that are protecting and restoring the environment of Saint Paul. By sponsoring these awards, the City of Saint Paul hopes to encourage residents, businesses, community groups and non-profits in Saint Paul to implement similar projects. Replication of these efforts will further enhance the City's quality of life. In addition to her work with her Como neighborhood



conservation group, Val has been an active St. Paul Audubon volunteer for over 10 years. In addition to being Co-chair of the SPAS Conservation Committee, she worked on the "Go Native" handbook, does speaking events about insects and birds around St. Paul, brought author Doug Tallamy to Minnesota to speak, created posters and banners for booths, and was our Member Meeting writer until late last year.

Many hearty Congratulations, Val!

SUMMER FIELD TRIPS & EVENTS

Rachel Lilly Preserve

June 6, July 11, August 15, 7:00 - 9:00 AM

Join Chase Davies and others on this monthly walk. Visiting a Special Place repeatedly develops a familiarity, which in turn develops interest, love, and desire to care for it. This is a portion of Dodge Nature Center that was placed in Conservation Easement.

It is located on MN Hwy 110, between Dodd Rd. and Delaware Ave. in Mendota Hts. As you enter the church driveway, go straight ahead up a slight hill, and park near the red barn. Meet in that parking area, not on the asphalt church parking lot. Dress for the weather and be prepared for bugs. For information about the preserve: www.co.dakota.mn.us/CountyGovernment/Projects/FarmlandNaturalArea

Chase Davies, ccdavies@aol.com or 651-633-1663

Volunteer at our 9th Birding Camp!

June 18-22, 2012, Como Streetcar Station

SPAS Education Committee will offer our 9th *Summer Birding Camp for Kids* for grades 3-6 through St. Paul Parks & Rec. The program will again meet at the Como Park Street Car Station. **St. Paul Audubon Volunteers are needed to help the children learn about birds. It's great fun to work with these young**

birders! Several of our members are hooked and have volunteered year after year. For more information, please contact Barb Lindeke, at 651-489-0318 or send email to: bclindek@ties2.net



Five Reasons, con't from page 2

Biking & Birding, Elm Creek Park Reserve

Saturday, June 9th, 8:00 AM to Noon

Discover the fun of birding from a bicycle on the paved bicycle trails within Elm Creek Park Reserve in N. Hennepin County, at www.threeriversparks.org/parks/elm-creek-park.aspx. Bring your bicycle, helmet, binoculars, snacks, and water. Registration required. Participation limited to 8. To register, contact JulianSellers@msn.com.

Summer Nesters

Lake Elmo area, Saturday, June 16, 7:00-10:00 AM

Gems in the Lake Elmo area, Sunfish Lake Park is nicely wooded, while neighboring Tapestry has meadows which host a very different group of birds. By now most of the resident birds are well along in nesting. Birds usually include Scarlet Tanager, Wood Thrush, Savannah and Vesper Sparrows, Bobolink, and Orchard Oriole.

DIRECTIONS: Exit 55 from I-694 (S. of MN 36), go E. on MN 5, bear left off MN 5 onto Stillwater Lane N. After 100 yds, turn left (north) on the Sunfish Lake Park entrance road. Meet in the parking lot.

Leader: Linda Kellar, aandlkellar@comcast.net

Long Lake Prairie in Bloom

Tuesday, July 17, 7:00-9:00 AM

Early summer prairie flowers! Come enjoy delightful summer prairie plants at this easily accessible restored prairie. It has matured well and the diversity is notable. Prairie birds, butterflies, and other pollinators rely on these native plants for their very existence. Mid-July is midway in the bloom period. **DIRECTIONS:** I-35W to Hwy 96, W. to T w/ Old Hwy 8. Go S. about ½ mile to the Park Entrance. Meet in first parking lot on the RIGHT side.

Chase Davies, ccdavies@aol.com or 651-633-1663

These organisms span the entire food chain and could therefore result in the devastation of a number of marine animals, including fish species that humans rely upon as food sources.

Regarding our health as the Earth warms up, biological pathogens will affect many life forms. For example, since 2000, millions of acres of forest in the U.S. have perished due to the voracious fingernail-sized pine beetle. likewise, serious health issues stem from mercury pollution from burning coal. Most of the lakes in Minnesota have fish consumption advisories due to high mercury levels (per MN PCA). Oceans cover 75% of the Earth's surface, and are contaminated to the point that worldwide advisories on the consumption of tuna, sword fish, shark, and others have been issued. Coal-fired power plants are the single largest source of mercury pollution, with 40% of those emissions. The U.S. Center for Disease Control has found that 6% of American women have mercury blood levels that may put a fetus at risk of neurological damage.

The last two of the five reasons for clean renewable energy center on national security and economics. By using oil, we not only add CO² into the atmosphere, but we add to the pockets of people with questionable environmental records. James Woolsey, who was the director of the CIA between 1993 and 1995 said, "We are paying for both sides in the war on terror. That's about as nuts as a society can be."

We in the U.S. (and St. Paul Audubon) must step up our advocacy for all five serious reasons to use homegrown clean renewable energy. You can help! Write letters on these subjects to your legislators. Use less non-sustainable energy in your homes and vehicles. Recycle. Stay informed.

BY LOUIS B. ASHER, CHAPTER PRESIDENT

SAINT PAUL AUDUBON SOCIETY

PO Box 7275, St Paul, MN 55107-7275

WWW.SAINTPAULAUDUBON.ORG

June July 2012

August September Deadline 7/5/2012

Welcome... To the Saint Paul Audubon Society. We're a chapter of the National Audubon Society. Our Mission is to conserve and restore natural ecosystems, focusing on birds, other wildlife, and their habitats for the benefit of humanity and Earth's biological diversity.

CALENDAR

JUNE

Field Trip: Lebanon Hills	2
Field Trip: Birding by Ear at Afton	2
Board Meeting	4
Tuesday AM: Benson Prairie	5
Field Trip: Rachel Lily Preserve	6
Field Trip: Biking and Birding	9
Field Trip: Lake Elmo area Parks	16
NABA Butterfly Count	30

JULY

Field Trip: Long Lake Regional Park	10
Field Trip: Rachel Lily Preserve	11



HOARY PUCCOON
LONG LAKE REGIONAL PARK

Non-profit Organization
U.S. Postage
PAID
Permit # 3795
Twin Cities, Minnesota

Time Dated Material
CHANGE SERVICE REQUESTED

Butterfly Census, con't from page 1

"The Family Butterfly Book"

Anatomy, migration, rearing. ID includes range, larval plants, egg, caterpillar, and chrysalis.

Peterson First Guides: Caterpillars

The best book currently found on caterpillars. Shows 120 species, including larval plants, eggs, cocoons, and chrysalis.

Golden Guide: Butterflies and

Moths Small, fits into backpack. Illustrates larval and adult food plants, caterpillars, maps for many North American species.

The Audubon Society Guide to Attracting Birds.

Not about butterflies. Landscaping ideas for back yards, farms, road sides, and wild areas.

One should never overlook the appendices, which are rich in plant sources, reading material, and Internet sites.

St. Paul Audubon Society Local Sponsorship

Yes! I want to be a sponsor of my local chapter, Saint Paul Audubon, by donating \$15, for which I will receive *The Cardinal* newsletter and other online news. Please fill in the personal information, make a check for \$15 out to Saint Paul Audubon Society, and send it to the address below. *Thank You Very Much!*

- ☐ I'm a NEW member! Please send my Welcome Packet right away!
☐ I currently receive National's *Audubon Magazine*.

Name _____

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Please sign gift card: _____

Mail to: Saint Paul Audubon, c/o John O'Connell, 2184 Larry Ho Drive, St. Paul, MN 55119

National Audubon Society Membership C9ZM030Z

Yes! I will become a new member or give a new gift membership in the National Audubon Society. I will receive *Audubon Magazine* and Saint Paul Audubon's *The Cardinal* newsletter. Please fill in the form, make a check for \$20 out to National Audubon Society, and send it to the address below. *Thank You Very Much!*

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Mail to: National Audubon Society, P.O. Box 422250, Palm Coast, FL 32142-2250
(Write on envelope: "Attention: New Membership — please process immediately")