



Southern Lepidopterists' **NEWS**

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THE OFFICIAL PUBLICATION OF THE SOUTHERN LEPIDOPTERISTS, SOCIETY ORGANIZED TO PROMOTE SCIENTIFIC INTEREST AND KNOWLEDGE RELATED TO UNDERSTANDING THE LEPIDOPTERA FAUNA OF THE SOUTHERN REGION OF THE UNITED STATES

CHAIRMAN: JOHN V. CALHOUN

SECRETARY-TREASURER: JEFFREY R. SLOTTEN

EDITOR: LEROY C. KOEHN

BUTTERFLIES OF LUBBOCK COUNTY, TEXAS, AND THE LLANO ESTACADO: A CONTINUING SAGA BY J. BARRY LOMBARDINI

The first comprehensive listing of the butterflies of Lubbock County which is located on the plains of West Texas was published in 1989 in the southern Lepidopterists' News by the author, a long-time resident of the City of Lubbock (Lombardini, 1989). At that time 85 species were reported from Lubbock County with an additional 3 species found in adjacent counties. Shortly thereafter in 1992, an additional 7 records of butterflies were identified as being found in Lubbock County bringing the total to 92 species (Lombardini, 1992).

A second individual residing in the area, Richard Sanders, Ph.D., also has been an avid butterfly collector for many years in this region. Dr. Sanders keen interest in the butterflies and his extensive knowledge of their biology prompted him to pursue a doctorate in philosophy in Biology from Texas Tech University in Lubbock, Texas. Dr. Sanders completed all requirements for his degree in December 1991 with the approval of his dissertation which was entitled "Rhopalocera of the Llano Estacado: Biosystematics, Biogeography, and Ecology." In this erudite treatise Sanders lists a number of goals which he sets out to accomplish. Briefly, these goals include a comprehensive list of the butterflies that occur in the designated area and in adjacent areas and an assessment of the effects of human activities on the butterfly populations in this area. Finally, Sanders discusses habitat and species preservation in the area with respect to agriculture, cattle grazing, urbanization, and controlled burning of the undergrowth.

The Llano Estacado or Staked Plain is a plateau encompassing 96,000 Km with elevations ranging from 900 to 1400 m. The area extends to New Mexico in the east and includes much of western Texas up into the Panhandle close to the Oklahoma border. In this extensive area Sanders lists 188 butterfly species in the format of an annotated checklist. However, the primary area surveyed in which Sanders has extensive specimen data is limited to six counties covering 13,926 Km located in the eastern section of the Llano Estacado. These counties are: Hockley, Lubbock, Crosby, Terry, Lynn, and Garza (Figure 1). The shaded area in Figure 1 is the escarpment separating the flat Llano Estacado the left and the rolling plains to the right. Within the area there are two recreational lakes, Buffalo Springs Lake (Lubbock County) and White River Lake (Crosby County). In addition, there is a private lake, Tahoka Lake, in Lynn County and a not yet completed reservoir and recreational area, Lake Alan Henry, located southeast of Post in Garza County. The rivers within this 6 county area are various forks of the Brazos River. (The rivers are quite small and not always flowing.)

By extensively surveying these 6 counties in the Llano Estacado, Sanders has expanded considerably the knowledge of the butterflies in this rarely collected area. Sanders lists 101 species in the 6 county area. These records are from his personal collection or from literature report. His dissertation lists an extensive bibliography on the literature pertinent to the butterflies recorded to be present in the area. The additional butterfly species from this 6 county specific area that are listed in Sanders' dissertation but not in the author's collection (and therefore not reported in the two publications referred to above) are the following:

Erynnis meridianus Bell - reported to be scattered throughout the Llano Estacado. Sanders lists this species to be collected in June, July, August, and September in the designated 6 county area. [Author has one specimen collected out of the designated area in Bailey County which is located northwest of Hockley County.]

Pyrgus scriptura Boisduval - reported to be found (July and August) in the Rolling Plains adjacent to the Caprock Escarpment in Garza and Crosby Counties. At least one female was observed by Sanders.

Wallengrenia otho egeremet (Scudder) - found in August and September in the Rolling Plains of the 6 county collecting area.

Amblyscirtes texanae Bell - found in July and Aug in the northern two-thirds of the Llano Estacado which includes the 6 county collecting area.

Anteos clorinde nivifera Fruhstorfer - occurs throughout the Llano Estacado. However, collected only in September in the 6 county area.

Dryas iulia moderata (Stichel) - Sanders relates one personal sighting in September of 1984. In addition, he acquired a gift of one specimen removed from the radiator of an automobile that was reported not to have been driven outside the 6 county collecting area.

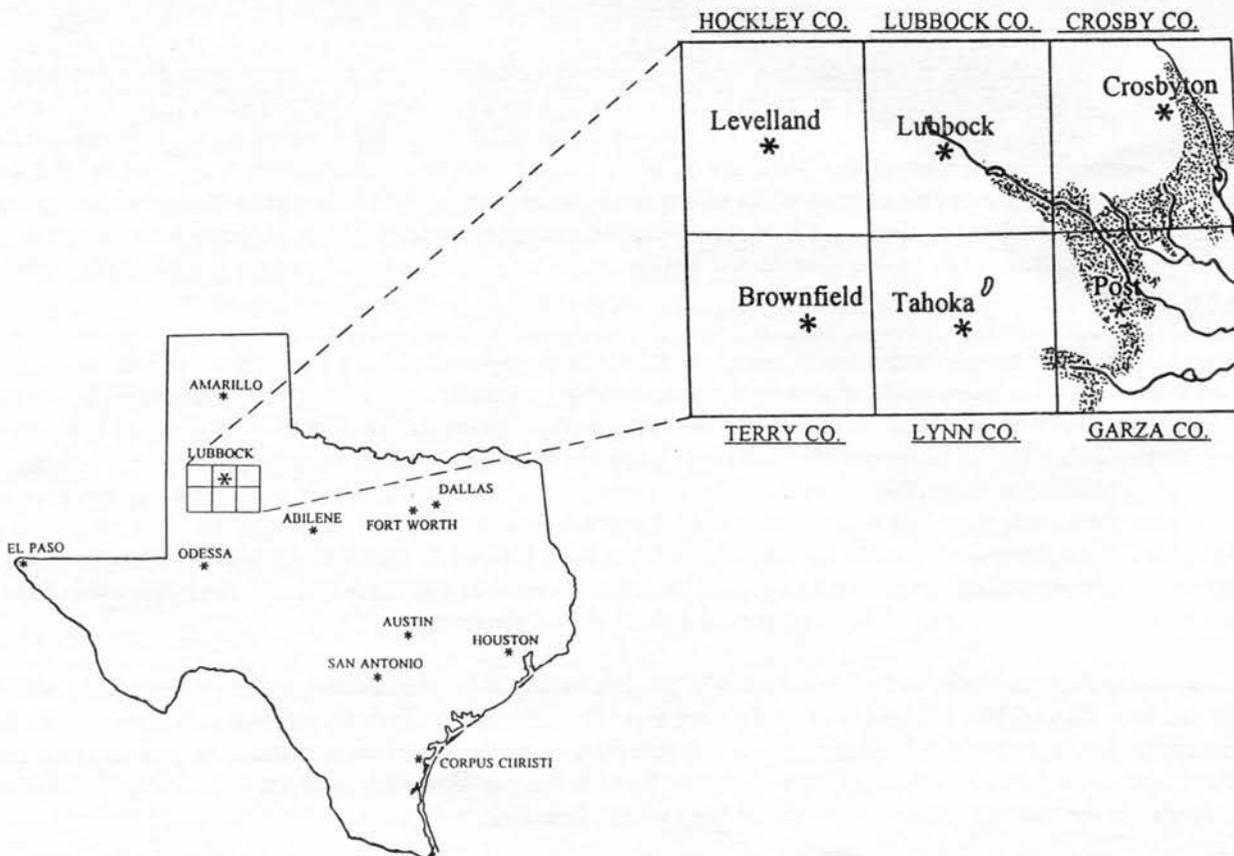
Heliconius charitonius vazquezae (Comstock & Brown) - reported to occur in the designated area in August and September.

Texola elada callina Boisduval - present in July in the central Caprock Escarpment and the adjacent Rolling Plains in the 6 county collecting area.

Vanessa (Cynthia) carve annabella (Field) - collected throughout the Llano Estacado and reported for the months of May, June, July, September, and October in the 6 county area.

In addition, I would like to add to the continuing, specific checklist of the butterflies of Lubbock County by adding the names of the following 3 species which are in my collection. The first 2 of these 3 species are not recorded in Dr. Sanders' checklist.

Panoquina ocola (Edwards) - One specimen was collected October 1, 1994, in the horticulture gardens on the Texas Tech University campus



Yvretta c. carus (Edwards) Y. c. subreticulata (Plotz) - Specimens have been collected from Lubbock County (1) and Garza County (2). Identification at the subspecies level is uncertain.

Eurema nise nelphe (Felder) - One specimen was collected June 20, 1992, in front of the author's residence in the City of Lubbock.

These additional records bring the total number of butterfly species in the author's collection for Lubbock County to 95 and the total for the 6 county collecting area to 103.

References

Lombardini, J. B. (1989) The Butterflies of Lubbock County, Texas. Southern Lepidopterists' News; Vol 11, No 3: 23-28

Lombardini, J. B. (1992) Additional Records of the Butterflies of Lubbock County, Texas. Southern Lepidopterists' News; Vol 14, No 1: 9-10

Sanders, R. (1991) Rhopalocera of the Llano Estacado: Biosystematics, Biogeography, and Ecology. Dissertation in Biology deposited in the library of Texas Tech University, Lubbock, Texas.

A NEW FOOD PLANT RECORD FOR PLATYNOTA IDAEUSALIS (WALKER)

JOHN A. HYATT

In the summer of 1994, the author noted (to his dismay) that the flowers of an orchid blooming in his greenhouse were being devoured by the larvum of a member of Lepidoptera.

The flowers in question were on a specimen of Encyclia nemorale (Lindley), a showy epiphytic orchid native to the state of Oaxaca in Mexico. The caterpillar confined its depredations to the floral segments; the foliage and pseudo bulbs of the orchid were untouched.

The larvum was allowed to mature on the florescence; pupation lasted about a month before eclosion of a specimen of Apple-bud Moth, Platynota idaeusalis (Walker). While Covell in his Field Guide to the Moths of Eastern North America lists a variety of known food plants for this moth, this appears to be the first instance of rearing the insect on a member of Orchidaceae.

The appearance of the larvum in a well-screened greenhouse which is regularly sprayed with both topical and systemic insecticides (to control scale and aphids) remains a puzzle. Importation of an ovum with the orchid can be ruled out, as the plant was in cultivation here for a number of years before the incident.

The author is grateful to Prof. C.V. Covell, Jr. for identification of the moth.

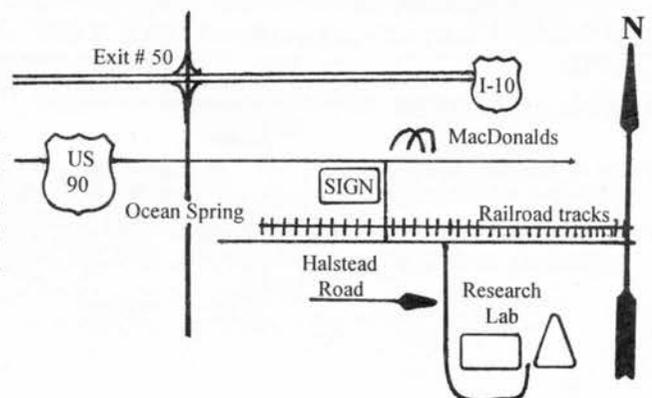
1996 ANNUAL MEETING TO BE HELD IN MISSISSIPPI

The Southern Lepidopterists' annual meeting will be September 6 - 8 at the Gulf Coast Research Laboratory in Ocean Springs, Mississippi. This will be a very important meeting. There will be an election of officers and proposed changes to the constitution. There is an exciting program, including our quest speaker, Dr. Charles V. Covell, Jr. of the University of Louisville. There will be a slide fest Saturday night for all the non-moth'ers. If you are interested or planning to present a paper or a short talk, please contact John Calhoun, 977 Wicks Drive, Palm Harbor, FL 34684-4656 Tel: 813-785-0715, to enable us to provide time for you. Moth collecting will be available both Friday and Saturday nights. A Sunday collecting trip for coastal butterflies is planned as well.

Dormitory space has been reserved at \$15.00 per person per night. Anyone wishing to stay through Sunday night may do so. Please complete the enclosed registration form and return it with your check/money order to the Secretary/Treasurer, Jeffrey R. Slotten, 5421 NW 69th Lane, Gainesville, FL 32653. We must have confirmed reservation by August 21, 1996. You do not want to miss this exciting and informative meeting. Please make plans to attend now!

DIRECTIONS TO GULF COAST RESEARCH LAB

From I-10, take the Ocean Springs Exit, #50, turn south to US#90, turn right (east) on US#90 in Ocean Springs, approximately 1.4 miles, just before MacDonalds Restaurant look for a Research Lab sign on the south side of US#90. Turn right (south) at the sign and follow the road, cross the railroad tracks and turn left on the first road, go one block to Halstead Road. Turn right on Halstead Rd, Research Lab is at the end of Halstead Rd. Watch for Southern Lep. Soc. Logo signs.



1996 DUES NOTICE

1996 dues are payable at this time. If your address label on this newsletter does not say 1996, your dues are past due. Take time to renew right **NOW!** Anyone who has not paid their dues by July 31, 1996 will be removed from the membership and will no longer receive the newsletter. If you have any questions about your dues or changes to your mailing label, please contact: Jeffrey R. Slotten, 5421 NW 69th Lane, Gainesville, FL 32653

Your society is under going many changes. The future is bright, we need your support. Look what you will be missing if you leave us now!

RESEARCH REQUEST & MEMBERS NOTICE

FOR SALE: Light Traps, 12 volt DC or 110 volt AC with 15 watt or 8 watt black lights. The traps are portable and easy to use. Rain drains and beetle screens protect specimens from damage. For a free brochure and price list contact; Leroy C. Koehn, 207 Quail Trail, Greenwood, MS 38930-7315: Tel. 601-455-5498

RESEARCH REQUEST: I am actively involved in the preparation of a book which will deal with the biology and ecology of the Sphingidae which occur north of Mexico. This project is progressing at a surprisingly rapid rate, and I have already photographed the larvae of 60 of the 100+ resident species. While I continue to make trips - I plan to be in South Florida and the lower Rio Grande Valley in the fall of 1996 - it is becoming obvious that I will not be able to finish this project without field assistance. I would be interested in hearing from members who have pin point locality data where any of the following species are consistently taken, unpublished larval food plant records, adult nectar sources, and I am especially interested in assistance in obtaining ova/larva during the upcoming field season. I have USDA permits to ship and receive larvae and will forward copies of the permit where appropriate. Any assistance will be appreciated and acknowledged at publication.

<u>Argius cingulata</u>	<u>Manduca brontes</u>	<u>Manduca jasminearum</u>	<u>Paratreia plebeja</u>	<u>Paonias astylus</u>
<u>Erinnyis lassauxii</u>	<u>Erinnyis obscura</u>	<u>Phryxus caicus</u>	<u>Aellopos titan</u>	<u>Aellopos clavipes</u>
<u>Eumorpha satellitia</u>	<u>Eumorpha intermedia</u>	<u>Cautethia spuria</u>		

Contact: James Tuttle, 3838 Fernleigh Ave., Troy, MI 48083; Please call before sending livestock - telephone number (810) 689-6687

NEWSLETTER UP-DATE

We need your input! Your state coordinators need to hear from you. All of those who get into the field always find something new. The field reports will help future workers who will use these reports to assist them. Records of even common species will add information and increase our knowledge of the distribution and flight periods of adults. The host plants for many species of both butterflies and moths and unknown. Life histories information is lacking from many states on very common species. Your work is important and will be included in the newsletter. Let your state coordinator know you are out there.

The deadline for the remaining newsletters of Vol. 18 are; No.3: August 31 and No. 4: November 30. Deadline dates will be maintained. The newsletter will be on time. The contents depend on you.

CHANGES IN THE MEMBERSHIP

ADDRESS CHANGES

James R. Merritt, 740 Zorn Ave., Apt. 2D, Louisville, KY 40206

Byron H. Bratlie, 8013 County Road 8, Clear Lake, MN 55319

STATE COORDINATOR REPORTS

We are in need of a coordinator for Alabama. If you are interested in becoming the state coordinator for Alabama, contact the Chairman: John V. Calhoun, 977 Wicks Drive, Palm Harbor, FL 34684-4656, Tel: 813-785-0715.

ALABAMA: No coordinator.

ARKANSAS: Mack Shotts, 514 W. Main Street, Paragould, AR, 72450 No Report!

FLORIDA: Tom Neal, 1705 NW 23rd Street, Gainesville, FL 32605

Jeffrey Slotten visited Everglades City, Collier County, he was searching for Didasys belae but failed to turn it up. However, he found Manduca brontes and Phryxus caicus.

Jeffrey Slotten reported taking a Manduca brontes on 11 May at Cedar Key, Levy County. Tom Carr of Toledo, Ohio reported taking Manduca brontes at Gulf Hammock, Levy County in mid-May.

Jeffrey Slotten and John Kutis collected near Bellview, Marion County on 18 May and found: Catocala micronympha, C.grisatra, C.pretiosa, C.similis, C.ultronia, C.alabamae, C.amica, C.ilia, C.louiseae, C.clintoni and C.coccinata.

Jeffrey Slotten and John Peacock visited Withlacoochie State Forest on 5 May and found Fexsenia favonius and Satyrium calanus visiting white Sweet clover blossoms (Melilotus alba).

Jeffrey Slotten, John Kutis and John Peacock baited for moths near Gainesville, Alachua County on 3 May and collected: Catocala lincolnana, C.orba, C.clintoni, C.ultronia, C.alabamae and C.ilia.

Bob Beiriger collected in Lake County off Hwy 19 on 27 March and 10 April and found: Battus philenor, Eurytides marcellus, Papilio polyxenes, Incisalia henrici margaratae, Wallengrenia otho, Erynnis horatius, E.zarruco, E.juvenalis and Thorybes pylades. On 5 May he found Hermeuptychia sosybius and Megisto cymela.

Bob Beiriger visited Dale Wimbrow County Park, Indian River County on 27 April and found: Fexsenia favonius, Parrhasius m-album, Pyrisitia lisa, Phoebus sennae eubule, and Calycopis cecrops.

GEORGIA: James K. Adams, 1702-1005 Crow Valley Rd., Dalton, GA 30720

All records represent either newly identified or collected species (for me), or additional records of uncommon or unusual species. New records (James K. Adams) from (NW) Georgia are in **bold**; some of these are common species, but simply previously uncollected. Records are from the Dalton/Rocky Face, Whitfield County area unless otherwise specified. "Car." refers to Carbondale (at exit 134 on I-75, south Whitfield Co.); "Mur." refers to the Murray/ Whitfield Co. line on state Hwy. 76/52 (near the Conasauga River); "Pig." refers to the west side of Pigeon Mountain, 20 km. southwest of LaFayette, Walker Co.; "Tay." refers to Taylor's Ridge, north side of state hwy. 136, 8 km. west of Villanow, Walker Co; and "Vil." refers to Villanow, Walker Co. Numbers in parentheses indicate numbers of individuals collected (if more than one).

Lycaenidae: Feniseca tarquinius, 30 iv. 1996, west side of Pigeon Mountain, 20 km. SW of Lafayette, Walker Co. Arctiidae: Grammia phyllira, 15 v. 1996 (Mur., eggs obtained, larvae currently being reared); Grammia oithona (2), 18 v. 1996 (Mur.). Lymantriidae: Dasychira manto, several records; Dasychira tephra, several records. Noctuidae: Rivula propinqualis, 23 v. 1996; Zanclognatha lituralis, 6 v. 1996; Spargaloma sexpunctata, 6 v. and 27 v. 1996; Acronicta tritona, 19 iv. and 22 v. 1996 (Tay.); Acronicta noctivaga, 4 v. 1996; Merolonche dollii, 4 iv. 1996 (2; Tay.), also 15 iv. 1996 (Car.); Agriopodes fallax, 18 v. 1996; Baileya doubledayi, 4 iv. 1996 (Tay.); Eutelia pulcherrima, 10 v. and 20 v. 1996; Papaipema lysimachiae, 19 ix. 1992, also 14 x. 1992 (Car.); Meropleon ambifusum, 18 ix. 1994 and 30 ix. 1995; "Oligia" chlorostigma, 2 vii. 1995, Cohutta Overlook on Fort Mountain, 2 km. E of Murray/Gilmer Co. line on Hwy. 52; Hadena ectypa, 16 iv. 1992; Callopietria molissima, 22 v. 1996 (Tay.); Catocala pretiosa, 22 v. 1996; Ptichodis herbarum, several records; Ptichodis bistrigata, 19 iv. 1996 (Tay.); Argyrostromis anilis, 10 v. 1996 (Mur.), also 20 v. 1996; Metallata absumens, several records; Anomis illita, 24 vii. 1995 (Mur.). Geometridae: Selenia kentaria, 4 v. 1996; Caripeta aretaria, 4 v. 1996 (Tay.); Pero zalissaria, 22 v. 1996; Lytrosis permagnaria, 18 v. (male), 20 v. (female, eggs obtained and currently attempting to be reared), and 24 v. 1996 (2 males), also 22 v. 1996 (one male from Vil. and ten males from Tay.). Thyatriidae: Euthyatira pudens ("form pennsylvanicus") 15 iv. 1996. Cossididae: Prionoxystus macmurtrei, 4 v. (Vil.) and 10 v. 1996 (Car.). Pyralidae: Pyrausta niveicillialis, 19 iv. 1996 (Tay.). Limacodidae: Packardia geminata, several records, 20 - 26 v. 1996, including 22 v. 1996 (Tay.).

LOUISIANA: Vernon Brou, 74320 Jack Loyd Rd., Abita Springs, LA 70420

Leroy Koehn collected in Calcasieu Parish on 18 June on his way home from the Lepidopterists' Society annual meeting in Houston Texas and found; Phyciodes tharos, Junonia coenia, Strymon melinus melinus, and Copaeodes minima.

MISSISSIPPI: Bryant Mather, 213 Mt. Salus Dr., Clinton, MS 39056

Leroy Koehn visited north east Mississippi in late March searching for Megathymus yuccae tents. He found them very common along Bear Creek and Piney Creek in Tishomingo County. He also took a female in his back yard butterfly garden in Leflore County on 9 April.

Leroy Koehn visited the Malmasion Wildlife Management Area and found the following: 2 June, Amblyscirtes vialis, Poanes yehl, and Enodia anhedon. 6 June; in bait traps: Catocala alabamae, C. Clintoni, C. illecta, C. agrippina, C. ultronia, and C. micronympha. 10 June; Parrhasius m-album, Megisto cymela, Enodia creola, and in a bait trap: Poanes yehl. The most common skippers found in baits are: Epargyreus clarus and Erynnis juvenalis. This is the fifth P.yehl taken in a bait trap in the Malmasion Wildlife Management Area since 1994.

NORTH CAROLINA: Steve Hall, NC Natural Heritage Program, Div. of Parks & Recreation, P.O. Box 27687, Raleigh, NC 27611

The following butterfly records were reported by Harry LeGrand:

Pieris virginiensis: Graham County: One of the most abundant butterflies in the county from April 24-27; I had daily counts of about 40 in rich cove forests.

Celastrina ebeina: Graham County: I and several others saw at least 15, mostly males, in the Stecoah Gap area from April 24-27. Several males were netted and examined in glass jars. I netted another male on April 27 west of Fontana Village. Habitats were margins of dirt roads running through rich cove forests. These are apparently the first reports for the county; the species is known from only a few mountains counties in North Carolina.

Glaucoopsyche lygdamus: Graham County: I saw the species at four sites in the county from April 24-27, where it is obviously not rare. In fact, several sites were road banks with Coronilla, which is commonly planted now. Several sites contained Vicia caroliniana, the primary host plant.

Polygonia faunus: Graham County: saw singles in the county on April 25 and 26. One was basking on a dirt U.S. Forest Service road, and the other was on a bank at a USFS campground. Individuals were moderately worn. Habitats were mixed hardwood/hemlock forests with rhododendron and mountain laurel.

Autochton cellus: Graham County: Derb Carter photographed a fresh individual nectaring on Erigeron pulchellus on April 27. The habitat was a mixed forest, with hemlocks, rhododendrons, and hardwoods, along a dirt road; the butterfly was along a road bank, in the late afternoon. Very rare in North Carolina, though not a new county record.

Erynnis martialis: Durham County: I saw a fresh individual on a dirt road at Hill Forest, within 50 yards of Ceanothus americanus, on May 5; photographed by Derb Carter. Apparently a first report for this county, and a rare species anywhere in the State.

Amblyscirtes hegon: Wake County: One nectaring on Rubus argutus along the edge of a power line clearing at Umstead State Park on May 4. Durham County: One at mud along Flat River on May 5. Rare in eastern Piedmont, though neither is a new county record. Graham County: I saw about five individuals from April 24-27 in the Fontana Village area; various habitats, but mainly along margins of hardwood forests.

Amblyscirtes vialis: Durham County: Two seen along a wooded road bank in Hill Forest on May 5; photos taken by Derb Carter. Rare in the eastern Piedmont and apparently a first for the county.

Megathymus yuccae: Bladen County: I saw one in flight at a yucca patch in Bladen Lakes State Forest on April 13. Uncommon in the state.

The following moth records were reported by Steve Hall:

Bomolocha palparia: Martin County: One specimen of this moth was collected at the Devil's Gut Nature Conservancy Preserve on the lower Roanoke River on April 18. The specimen was obtained from a light trap set up near a wet swale containing several species of bottom land hardwoods.

Zale galbanata: Martin County: A single specimen was collected at the Devil's Gut Preserve on April 17. The collection was made from a light trap set up on top of a beaver lodge located in the middle of a vast, flooded cypress-gum swamp. Red maple, silver maple, and boxelder all occur in the vicinity.

Dysgonia smithij: Martin County: Two specimens were collected at the Devil's Gut Preserve on May 21. Both were collected from a light trap located in ridge-and-swale topography. Upland hardwoods as well as bottom land hardwoods were present in this area; cane (Arundinaria tecta) was the dominant species in the shrub layer.

Acronicta betulae: Martin County: One specimen was obtained at the Devil's Gut Preserve on April 17. The site was located in a levee forest where river birch was common.

Cerma cora: Martin County: Seven specimens were collected at the Devil's Gut Preserve, April 17-18. All specimens were extremely fresh and were obtained from light traps located at four different sites. Habitats represented at these sites include cypress-gum swamp, coastal plain levee forest, and bottom land hardwoods. No pin cherries, the only reported host plant, occur near this site (in North Carolina, this species is found only in the mountains). The most common Rosaceous shrub in these habitats was a species of swamp hawthorn.

Emarginea percara: Martin County: One specimen was collected at the Devil's Gut Preserve on May 21. The site was located at the edge of a canebrake; bottom land hardwoods dominated the canopy.

SOUTH CAROLINA: Ron Gattelle, 126 Wells Rd., Goose Creek, SC 29445 No report !

TENNESSEE: John Hyatt, 439 Forest Hills Dr., Kingsport, TN 37663 No report !

John Hyatt has requested that anyone collecting or rearing Lepidoptera in Tennessee should send him a report. He needs your input!

TEXAS: Ed Knudsen, 8517 Burkhart, Houston, TX 77055

Conditions in Texas have been below par, due to cold, dry winter and continued lack of rain all spring. Nearly all of the state is under moderate to severe drought conditions, particularly in south Texas. Nevertheless, Knudsen and Bordelon have found a few interesting species and some new state records.

In the Big Thicket National Preserve, we found the following apparent new state records: Paraclemensia sp, probably new; Tyler County, 13 April; Carmentis new sp. (Previously reported by us as C.lauralae, this apparently has banded and un-banded forms), Polk County, Big Sandy, April, in traps; Epinotia sotipena Brown, Tyler County, Turkey Creek, 24 February,; Salebriaria bella Neunzig, Liberty County, Menard Creek, 24 February; Oreana unicolorella (Hulst), Liberty County, Menard Creek, 27 April.

On May 10 and 11, we visited Caprock Canyon State Park in the Texas panhandle (Briscoe County): there were less than twenty species of butterflies on the wing, but some interesting ones were found, A fairly large colony of Poladryas minuta was discovered. Females were ovipositing on Penstemon ambiguus Nutt. (Pink Plains Penstemon). In the same area, Atrytonopsis hianna turneri was abundant. Other skippers found included: Amblyscirtes aenus fm. erna, A.oslari, A.vialis and Megathymus texanus.

The following interesting moths were taken at Caprock Canyon: Sesiidae: Mellitita snowi, fairly common on Coyote Melon, along the roadsides between Caprock Canyon State Park and Quitaque, also found in Stonewall County, about 10 miles west of Swenson. Synanthedon arkensasensis, is a new state record, one male at Caprock Canyon State Park, 11 May. Tortricidae: Phaneta musetta Blanc & Knuds., Eucosma bolanderana; Pyralidae: Sitochroa choratalis, Pseudoschoenobius opalescens, Nephoterix rubescentella, (New state record); Geometridae: Semiothisa subminiana, S.sublacteolata. Sphingidae: Sphinx drupiferarum, Ceratomia hageni, Smerinthus jamaicensis, Pachysphinx modesta, and Eumorpha achemon. Noctuidae: Drasteria mirifica klotsi, Luperina passer (New state record), Rhizagrotis albalis, Caradrina extima, Oncocnemis major, Oncocnemis sp. Nr. Obscurata, Homohadena rayata, Cucullia lethe, Euxoa immixta, Schinia volupia, S.cupes, S.jaguarina, and S.gaurae.

On May 9 we visited Possum Kingdom Lake (of the popular song) with some success, but nothing outstanding. Good moths included: Yponomeutidae: Yponomeuta atomosella; Tortricidae: Grapholita tristigana; Pyralidae: Ephestioides mignonella; Sesiidae: Synanthedon decipiens; Geometridae: Euchlaena tigrinaria, Nemoria festaria; Sphingidae: Sphinx libocedrus; Noctuidae: Apamea cariosa, Properigea conteinens and Oncocnemis atricollaris.

Counties listed first. Note, new county records are in capital letters. New independent-city records (equal to county status) are listed similarly. Any records that are reported here as new county/independent city records will fill blanks on the "official" Virginia checklist (first edition printed 1/1/95). None of the listed records have been previously published anywhere as of 5/3/96. Following the county/independent city listing, are: name of (nearest) community and/or locality (if given); reporting person's initials; means of identification in parentheses; and any observational notes.

Key to contributors:

AK=Alan Kessler	DM=Dick Mills	PS=Peter Stangel	TA=Tom Allen with the New York City Butterfly Club
AS=Amos Showalter	DW=David Wright	RL=Robert Lyon	CW=Carroll Wood & Carl Gottschalk 1943, in literature
BK=Barry Kinzie	HP=Harry Pavulaan	RS=Ray Stanford	4JBC= Accepted records from NABA 4th of July Butterfly
CC=Charles Covell	JB=Julia Bristow	WH=William Hark	Count for 1995
CK=Clyde Kessler	MD=Michael Donahue		

HESPERIOIDAE

Epargyreus clarus: FREDERICKSBURG city: 8/3/95, HP (sight). RICHMOND city: 9/4/95, Lewis Ginter Botanical Garden, WH (sight). YORK: 8/3/95, Water Country USA, HP (sight). Urbanus proteus: AUGUSTA: 10/23/94, AS (sight), nectaring on Red Clover. BOTETOURT: 8/13/94, Troutville, MP (3 sighted), nectaring on Buddleia, Lantana, Mimosa tree. LOUDOUN: October 1994, Purcellville, RL (photo). RICHMOND city: 9/17/94, WH (sight). ROANOKE: 1994, MP (2 reported). Staphylus hayhurstii: LOUDOUN: 7/27/95, Purcellville, RL (photo). Erynnis juvenalis: CHESTERFIELD: 4/14/96, Pocahontas State Forest, HP (net/release, sight), common. Erynnis horatius: PRINCE WILLIAM: 7/1/95, Manassas, PS. Erynnis baptisiae: FAUQUIER: 8/11/95, Airlie Center circle, 4JBC (net/release). LOUDOUN: 5/24/95, Sterling, HP (capture). Pyrgus communis: FRANKLIN: 4/29/95, Ferrum, CK (sight). LOUDOUN: 10/12/93, 11/23/94, 5/23/95, Purcellville, RL (photo, observation). Oviposited on Low Poppy Mallow (Callirhoe involucreta) and Musk Mallow (Malva moschata). Pholisora cattullus: BLAND: 5/21/62, Price's Fork, CC (capture). LOUDOUN: 5/24/95, Sterling, HP (net/release). 7/20/95, Purcellville, RL (photo). Lerema accius: CLARKE: 1995, RL (photo). LOUDOUN: 8/27/94, 11/11/94, Purcellville, RL (photo). Hylephila phyleus: Fairfax: 8/17/95, Herndon, HP (capture, plus numerous additional individuals sighted daily through 9/4/95). Freshly-emerged adults indicative of local origin. LOUDOUN: September 1994, Purcellville, RL (photo). Nastra herminier: ROANOKE: 6/5/38, Fort Lewis Mtn., CW (in lit.). Hesperia sassacus: ROANOKE CITY: 9/8/95, MD (sight). Polites themistocles: LOUDOUN: August 1994, Purcellville, RL (photo). Hesperia leonardus: BATH: 1995, TM (sight), nectaring on Carduus discolor. Poanes hobomok: FAUQUIER: 1995, RL & NI (sight). LOUDOUN: 5/24/95, Sterling, HP (net/release). Atrytonopsis hianna: ROCKBRIDGE: 4/24/94, Bratton's Run near Goshen, TA (sight). Panoquina ocola: BOTETOURT: 10/17/95, Woodpecker Ridge Nature Center, BK (capture). Fairfax: 8/16/95, Herndon, HP (capture, plus numerous additional individuals sighted daily through 9/4/95). Nectaring on Buddleia. Freshly-emerged adults indicative of local origin. LOUDOUN: 8/23/95, Purcellville, RL (photo).

PAPILIONINAE

Battus philenor: PRINCE WILLIAM: 7/29/95, Prince William Forest Park, HP (sight). Eurytides marcellus: YORK: 8/3/95, Water Country USA, HP (sight). Heraclides crespontes: Fairfax: 5/24/95, Herndon, HP (sight), flying in residential suburb. Loudoun: 5/23/95, Purcellville, RL (observed), nectaring and oviposition on Rue (Ruta graveolens). RADFORD city: 5/7/95, Wildwood Park, CK, (sight). RICHMOND city: 1995, James River Park, DM (captured). Pterourus glaucus: CHESTERFIELD: 4/14/96, Pocahontas State Park, HP (sight), common. FRANKLIN: 4/15/95, CK (sight). HANOVER: 8/3/95, Route I-95, HP (sight). RADFORD city: 5/7/95, Wildwood Park, CK (sight).

PIERIDAE

Artogeia rapae: ACCOMACK: 3/15/95, Quinby, JB (sight). ALEXANDRIA city: 3/28/54, CC (sight). CHESTERFIELD: 4/14/96, Chesterfield, HP (sight), common. RADFORD city: 3/7/95, TC (sight). Falcipia midea: BLAND: 5/1/62, Price's Fork, CC (capture). CHESTERFIELD: 4/14/96, Pocahontas State Forest, HP (net/release). FRANKLIN: 4/16/95, Ferrum, CK (sight). LOUDOUN: 4/27/95, Leesburg, HP (net/release). PATRICK: 4/15/95, Fairystone, Stuart, CK (sight). RICHMOND city: 3/21/95, Belle Island Park, WH (sight). Colias philodice: BLAND: 5/2/62, Price's Fork, CC (capture). FRANKLIN: 12/26/94, Ferrum, CK (very late, two sighted). HANOVER: 8/3/95, Route I-95, HP (sight). RADFORD city: 1/12/95, CK (very late, one sighted). Phoebus sennae: HENRICO: 8/3/95, Route I-64 at I-295, HP (sight). LOUDOUN: 5/24/95, Sterling, HP (observation). Pyrisitia lisa: WISE: 7/13/95 and 9/28/95, TM (sight), nectaring on heath aster. Abaeis nicippe: Fairfax: 10/11/95, Herndon, HP (capture), unusually "large" flight, with 6 fresh males captured. Most were typical summer form (yellow venter), with one being of the autumn form (orange venter).

LYCAENIDAE

Feniseca tarquinius: CHESTERFIELD: 4/14/96, Pocahontas State Forest, HP (net/release, sight), several in one forest clearing. RICHMOND city: 6/14/95, Great Shiplock Park, WH (3 sighted). Lycaena phlaeas: ALEXANDRIA city: 4/20/54, CC (sight). Harkenclenus titus: BATH: 7/22/95, Bath County circle, 4JBC (sight). Satyrium liparops: (strigosum/liparops intergrade) LOUDOUN: 6/18/95, Sterling, HP (capture). Satyrium caryaevorum: BOTETOURT (second state record): 7/11/95, Trentville, BK (detained, several photographs taken at various angles, released), distinctly- marked female observed nectaring on Coreopsis grandiflora in Oak-Hickory forest. Incisalia henrici: BLAND: 5/1/62, Price's Fork, CC (capture). CHESTERFIELD: 4/14/96, Pocahontas State Forest, HP (sight). Incisalia niphon: CHESTERFIELD: 4/14/96, Pocahontas State Forest, HP (sight). Calycopis cecrops: BATH: 7/22/95, Bath County circle, 4JBC (sight). Fairfax: 10/6/95, Herndon, HP (sight), female observed nectaring on Buddleia. Captive larvae fed on decaying Sumac leaves, showing a decided preference for moldy leaves. LOUDOUN: August 1994 and 5/23/95, Purcellville, RL (photo); 5/24/95, Sterling, HP (capture). Strymon melinus: CHESTERFIELD: 4/14/96, Chesterfield, HP (net/release). LOUDOUN: 5/24/95, Sterling, HP (net/release). RICHMOND city: 9/4/95, Lewis Ginter Botanical Garden, WH (sight). Everes comyntas: ALEXANDRIA city: 4/20/54, CC (sight). FLOYD: 7/21/95, Floyd, AK & CK (sight). RICHMOND city: 9/4/95, Lewis Ginter Botanical Garden, WH (sight). Celastrina ladon (= violacea [Edwards]): Cornus florida associated population. CHESTERFIELD: 4/14/96, Pocahontas State Park, HP (sight). SHENANDOAH: DW (from specimen determinations). SUSSEX: DW (from specimen determinations). Celastrina ladon: Ilex opaca associated population. FAIRFAX: 5/3/96, Mason Neck State Park, HP (capture, under permit), females observed ovipositing on I. opaca flower buds. Celastrina neglecta: [re-recognized species status per David Wright, Harry Pavulaan, formerly = C. ladon form C. neglecta] YORK: 8/3/95, Water Country USA, HP (sight).

HELICONIIDAE

Agraulis vanillae: ROANOKE CITY: 9/8/95, MD (capture).

NYMPHALIDAE

Euptoieta claudia: PATRICK: 4/15/95, Fairystone, CK (sight). Speyeria cybele: Fairfax: 10/2/95, Great Falls village, HP (sight), very late female possibly due to heat wave/drought-induced estivation. Speyeria atlantis: BATH: 7/22/95, Bath County circle, 4JBC (sight). Clossiana bellona: FRANKLIN: 4/16/95, Ferrum, CK (sight). Polygonia interrogationis: CHESTERFIELD: 4/14/96, Pocahontas State Forest, HP (sight). HENRY: 3/11/95, Philpott Reservoir, CK (sight). Polygonia comma: ACCOMACK: 3/15/95, Quinby, JB (sight). BLAND: 3/28/62, Price's Fork, CC (capture). HENRY: 3/11/95, Philpott, CK (sight). Nymphalis antiopa: ACCOMACK: 3/14/95, Quinby, JB (sight). ALEXANDRIA city: 3/29/54, CC (sight). CRAIG: 2/25/96, Tinker Creek, MD (sight). Vanessa cardui: FLOYD: 7/21/95, Floyd, AK & CK (sight). Vanessa virginiensis: CHESTERFIELD: 4/14/96, Pocahontas State Forest, HP (sight). RICHMOND city: 5/21/95, WH (sight). Vanessa atalanta: CHESTERFIELD: 1994, Bon Air, DM (sight). Basilarchia arthemis astyanax: ALLEGHENY: 6/6/92, MD. Junonia coenia: FLOYD: 7/21/95, Floyd, AK & CK (sight).

DANAIDAE

Danaus plexippus: Fairfax: 10/6-10/9/95, Herndon, Great Falls, Vienna, HP (sight), regional southward migratory movement over a four-day period.

SATYRIDAE

Satyroides appalachia: CRAIG: 8/24/95, Fenwick Mines, MD (sight). Cercyonis pegala: Fairfax: 7/9/95, Herndon, Runnymede Park, HP (capture). Local population is light-yellow patched 'carolina'. FLOYD: 7/21/95, Floyd, AK & CK (sight). RICHMOND city: 1994, DM (sight). Megisto cymela: (early-emerging type I) LOUDOUN: 5/24/95, Sterling, HP (capture). PULASKI: 5/21/95, CK (sight). RICHMOND city: 6/2/95, James River Park, WH (sight). Megisto cymela: (late-emerging type-II) MIDDLESEX: 7/16/58, Christchurch, CC (capture). MONTGOMERY: 7/19/62, Blacksburg, CC (capture). PRINCE WILLIAM: 7/1/95, Manassas, PS.

The following butterflies were included in a 1995 summary of butterflies recorded at the LYNCHBURG city cemetery, reported by Jane White in the Virginia Butterfly Bulletin. No data or specifics were supplied, however, these comprise new independent-city records and are here summarized: Papilio polyxenes, Euritydes marcellus, Pterourus glaucus, Artogeia rapae, Vanessa cardui, Vanessa atalanta, Junonia coenia, Basilarchia arthemis asytanax.

The following butterflies were included in summary listings for several Virginia counties, from surveys done for the Division of Natural Heritage by Michael Donahue. No data or specifics were supplied, however, these comprise new county records and are summarized as follows:

BEDFORD: Pterourus glaucus, Euptoieta claudia. BOTETOURT: Heraclides cresphontes, Artogeia virginensis, Falcapica mideia, Phoebus sennae, Abaeis nicippe, Pyrisitia lisa, Satyrium liparops, Incisalia henrici, Incisalia nippon, Calycopis cecrops, Celastrina nigra, Satyrodes appalachia, Autochton cellus, Achalarus lyciades, Staphylus hayhurstii, Erynnis brizo, Erynnis icelus, Erynnis juvenalis, Erynnis horatius, Hylephila phyleus, Hesperia metea, Pompeius verna, Atrytonnopsis hianna, Amblyscirtes vialis, Lerodea eufala. ROANOKE: Heraclides cresphontes, Artogeia virginensis, Celastrina nigra, Basilarchia archippus, Asterocampa clyton, Enodia anthedon, Achalarus lyciades, Thorybes pylades, Staphylus hayhurstii, Erynnis horatius, Pyrgus communis, Pholisora catullus, Polites themistocles, Polites origenes, Wallengrenia egeremet, Pompeius verna, Euphyes ruricola, Amblyscirtes vialis.

The following butterflies were included in a 1995 summary listing for several Virginia counties and independent cities, from surveys done by Clyde Kessler. Records are based on a mix of sightings, captures and observations. No data or specifics were supplied, however, these comprise new county records and are summarized as follows:

BEDFORD city: Danaus plexippus. BLAND: Colias philodice, Parrhasius m-album, Everes comyntas, Danaus plexippus, Euptoieta claudia, Euphydryas phaeton, Nymphalis antiopa. BRISTOL city: Artogeia rapae, Danaus plexippus. CAMPBELL: Danaus plexippus. CARROLL: Euptoieta claudia. CHARLOTTESVILLE city: Epargyreus clarus, Danaus plexippus. COVINGTON city: Epargyreus clarus, Danaus plexippus. CULPEPER: Danaus plexippus. DANVILLE city: Danaus plexippus. FLOYD: Euphyes ruricola, Falcapica mideia, Pheobus sennae, Feniseca tarquinius, Harkenclenus titus, Everes comyntas, Libytheana bachmanni, Euptoieta claudia, Charidryas nycteis, Polygonia interrogationis, Polygonia comma, Vanessa virginensis, Vanessa cardui, Vanessa atalanta, Junonia coenia, Basilarchia archippus, Asterocampa celtis, Asterocampa clyton, Enodia anthedon, Megisto cymela, Cercyonis pegala. FRANKLIN: Euphyes ruricola, Battus philenor, Eurytides marcellus, Papilio polyxenes, Pterourus glaucus, Pterourus troilus, Falcapica mideia, Colias philodice, Colias eurhythme, Pheobus sennae, Feniseca tarquinius, Lyceana phlaeas, Harkenclenus titus, Erynnis clarus, Satyrium liparops, Eurystrymon favonius ontario, Strymon melinus, Everes comyntas, Danaus plexippus, Euptoieta claudia, Speyeria diana, Speyeria cybele, Speyeria aphrodite, Clossiana bellona, Phyciodes tharos, Polygonia interrogationis, Polygonia comma, Nymphalis antiopa, Vanessa virginensis, Vanessa cardui, Vanessa atalanta, Junonia coenia, Basilarchia arthemis astyanax, Basilarchia archippus, Asterocampa celtis, Asterocampa clyton, Enodia anthedon, Megisto cymela, Cercyonis pegala. GALAX city: Epargyreus clarus, Danaus plexippus. GRAYSON: Danaus plexippus. HENRY: Pyrgus communis, Pholisora catullus, Ancyloxypha numitor, Eurytides marcellus, Pterourus troilus, Danaus plexippus, Speyeria cybele, Polygonia interrogationis, Polygonia comma, Nymphalis antiopa. MARTINSVILLE city: Epargyreus clarus, Danaus plexippus. PATRICK: Pyrgus communis, Pholisora catullus, Eurytides marcellus, Falcapica mideia, Colias philodice, Feniseca tarquinius, Strymon melinus, Euptoieta claudia, Nymphalis antiopa, Vanessa cardui, Junonia coenia, Enodia anthedon, Megisto cymela. PITTSYLVANIA: Epargyreus clarus, Danaus plexippus. PULASKI: Pholisora catullus. RADFORD city: Epargyreus clarus, Erynnis brizo, Erynnis baptisiae, Pyrgus communis, Pholisora catullus, Ancyloxypha numitor, Polites themistocles, Atalopedes campestris, Poanes zabulon, Battus philenor, Papilio polyxenes, Heraclides cresphontes, Pterourus glaucus, Pterourus troilus, Artogeia rapae, Colias philodice, Pheobus sennae, Feniseca tarquinius, Harkenclenus titus, Strymon melinus, Calephelis borealis, Libytheana bachmanni, Euptoieta claudia, Speyeria cybele, Clossiana bellona, Charidryas nycteis, Phyciodes tharos, Polygonia interrogationis, Polygonia comma, Nymphalis antiopa, Vanessa virginensis, Vanessa cardui, Vanessa atalanta, Junonia coenia, Basilarchia arthemis styanax, Basilarchia archippus, Asterocampa celtis, Asterocampa clyton, Megisto cymela, Cercyonis pegala. ROANOKE city: Danaus plexippus. SALEM city: Danaus plexippus. SOUTHAMPTON: Danaus plexippus. STAUNTON city: Danaus plexippus. TAZEWELL: Battus philenor, Danaus plexippus.

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SOUTHERN LEPIDOPTERISTS' SOCIETY

c/o LEROY C. KOEHN, THE EDITOR
207 QUAIL TRAIL
GREENWOOD, MS 38930-7315