-	I	2	3	-
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May 30, winged female had produced 3 and wingless 8 young.

"	31	"	"	"	"	I	"	"	2	"
June	I	"	"	"	"	0	"	"	2	"
"	2	"	"	"	"	0	"	"	0	""
"	3	"	"	**	"	I	"	"	I	"
		"						"		
**	5	-44	"	"	"	0	"	"	2	"

The wingless female died on the 6th, but the winged female lived on, without issue, until the 11th of June. The period of reproduction being 19 days with the winged female and 21 days with the wingless, the former producing 40 and the latter 89 young.

I found that the young moulted on the second, and began reproducing either late on the seventh or early on the eighth day after birth. The insects and plants were inspected, and the young removed each morning, usually about 8 o'clock, so that the young were the production of the subsequent 24 hours.

NOTES ON SPIDERS.

BY NATHAN BANKS.

The following pages embrace some miscellaneous notes on spiders of the U.S. First I have given a list of the genera and species omitted from Dr. Marx' Catalogue; next some of the works containing descriptions of new species that have been published since Dr. Marx' Catalogue. Quite a number of synonyms are given and some other notes on species, then follows some keys and descriptions of new species.

GENERA OMITTED.

Liocranoides Keys. Neue Spinnen, III, 1881, place after Phrurolithus.

Glenognatha Simon. C. R. Ent. Soc. Fr., 1884, place after Pachygnatha.

Myrmecarachne Walsh. Proc. Am. Ent. Soc. 1864, = Synemosyna. Species Omitted.

Actinopus audouini Lucas. Ann. Ent. Soc. Fr., 1845, p. 60, Amerique du Nord.

Micaria limnicunæ McCook. Proc. Acad. Nat. Sc., 1884, Description worthless.

Dictyna philosteichus McCook. = D. civica Lucas.

Clubiona tibialis Em. N. Eng. Drass. etc., N. Eng., N. Y., D. C. Agræca pratensis Em. N. Eng. Drass. etc., N. Eng., N. Y.

Liocranoides unicolor Keys. Neue Spinnen, III, Mammoth Cave, Ky.

Theridium lineamentum McCook. Agric. Ant. Texas, 1879, =-Lathrodectes mactans.

Steatoda distincta Thor. Colo. Aranea, 1877, Colo.

Crustulina lascivula Keys. Die Spinn. Am. Therid., 1886, Ga. Acrosoma bovinum Thor. Nya Exotiska Epeirider, 1858, Ala. Glenognatha emertoni Simon. C. R. Ent. Soc. Fr., 1884, Ariz. Olios fasciculatus Simon. Rev. d. Sparass., Calif.

Lycosa febriculosa Becker. Ent. Soc. Belg., 1881, La.

Lycosa vulpina Em. N. Eng. Lycosidæ, Mass., N. Y.

Lycosa tigrina, McCook. Am. Ent. Soc., Vol. VII, p. XI, Mass., N. Y., Pa.

Tarentula pulchra Keys. Am. Citigradæ, 1876, N. Am.

Among the literature omitted by Dr. Marx may by mentioned the following:

McCook. — Many short papers on habits of spiders in the Proc. Acad. Nat. Sc. Phil.

BECKER. — Ent. Soc. Belg., 1881. Description of Lycosa febriculosa. HOWARD. — Catalogue of the Invertebrates of S. Carolina. A

list of spiders by Dr. Marx embracing many Mss. names.

WALSH.—Proc. Am. Ent. Soc., 1864. Description of Myrmecarachne. SIMON. — C. R. Ent. Soc. Fr., 1884. Description of Glenognatha.

" — Revision d. Sparassidæ. Description of *Olios fascicu*latus.

THORELL. — Nya Exotiska Eperider. Descriptions of Acrosoma bovinum and Argiope avara.

LUCAS. — Ann. Ent. Soc. Fr., 1845. Description of Actinopus audouini.

Since the publication of Dr. Marx catalogue; spiders of the United States have been described in the following literature:

BANKS. — Spider Fauna of Upper Cayuga Lake Basin. Proc. Acad. Nat. Sc. Phil., 1892.

" — N. Am. Dysderidæ, Can. Ent., 1891.

CURTIS. - A New Jumping spider. Zoe, 1893, Jan.

EMERTON. — New England Spiders, Fam. Attidæ. Conn. Acad. Arts and Sciences, 1891. EMERTON — New England Spiders, Fam. Thomisidæ. Conn. Acad. Arts and Sciences, 1892.

Fox. - New species of Ceratinella. Ent. Soc. Wash., 1891.

KEYSERLING & MARX. — Die Spinnen Amerikas. Part IV, Epeiridæ. MARX. — A Contribution to the knowledge of North American

Spiders. Ent. Soc. Wash., 1891.

McCook. — The Spiders of the United States. — Orbweavers, Vol. II, p. 135.

SIMON. — Descr. espèces et genres nouveaux d. l. famille d. Avicularidæ. Ann. Soc. Ent. France, 1891.

" — Liste d. espèces d. l. fam. d. Aviculariides, etc. Actes d. l. Soc. Linn. d. Bordeaux, 1891.

STONE. — The Lycosidæ of Penn. and N. Jersey. Proc. Acad. Nat. Sc. Phil., 1891.

Since my last paper (Ent. News, Dec. 1891.) I have noticed the following synonymy:

Drassus saccatus Em. is D. neglectus Keys.

Clubiona lenta Bks. is C. pygmæa Bks.

Thargalia perplexa Bks. is T. pinnata Em.

Thargalia fallax Bks. is 8 of T. descriptus Hentz.

Cicurina complicata Em. is C. arcuata Keys.

Hahnia bimaculata Em. is H. agilis Keys.

Linyphia galbea Keys. is Lephthyphantes minuta Blk.

Erigone purpurascens Keys. is Theridium anglicanum Hentz.

Theridium ventillans Keys. is 3 of Theridula sphærula Hentz.

Erigone fabra Keys. is 3 of zygia Keys.

Tmeticus minutus Bks. is \mathcal{J} of T. distinctus Bks.

Tmeticus luxuosus Bks. is & of Loph. venustum Bks.

Epeira alba Keys. is E. displicata Hentz.

Xysticus inornatus Em. is Synema bicolor Keys.

Misumena georgiana Keys. is M. spinosa Keys.

Misumena americana Keys. is Q of M. oblonga Keys.

Misumena foliata Bks. is M. rosea Keys.

Philodromus brevis Em. is & of P. minutus Bks.

Philodromus pernix Blk. is P. vulgaris Hentz.

Philodromus obscurus Blk. is P. rufus Walck.

Thanatus lycosoides Em. is T. rubicundus Keys.

Lycosa oblonga Bks. is L. immaculata Bks.

Lycosa rufa Keys. is \bigcirc of L. ocreata Hentz.

Lycosa polita Em. is Trochosa rubicunda Keys.

Lycosa communis Em. is L. lepida Keys. = L. erratica Hentz.

Pardosa nigripalpis Em. is P. flavipes Keys.

Tetragonophthalma undulata Keys. is T. dubia Hentz. Phidippus gracilis Keys. is Philæus princeps Peck. Phidippus clarus Keys. is P. octopunctatus Peck. Phidippus ruber Keys. is P. cardinalis Hentz. Philæus mexicanus Peck. is P. multicolor Hentz. Icius albovittatus Keys. is Philæus militaris Hentz. Icius vittatus Keys. is I. palmarum Hentz. Icius crassiventer Keys. is Dendryphantes octavus Hentz. Dendryphantes insignis Bks. is D. octavus Hentz. Dendryphantes multicolor Peck. is D. rarus Hentz. Habrocestum splendens Peck. is H. decorus Blk. Salticus fuligineus Blk. is near Habrocestum cæcatum Hentz. Prostheclina cambridgii Peck. is P. (Attus) aurata Hentz. Synemosyna noxiosa Hentz is Synageles scorpiona Hentz.

OTHER NOTES ON SPECIES.

Simon (Spiders of the Island of St. Vincent, p. 573) proposes Sergiolus for Herpyllus variegata Hentz. I think it hardly necessary in considering our fauna. Agraca tristis Keys. and A. Walsinghami Cambr. do not belong to Agraca but go in the subfamily Corinninæ. Our genera of the subfamily have not been separated. Simon says (Faune d. Arach. d. Senegal) that Herpyllus discretus (sic) Hentz is a Tylophora. T. ornata Hentz seems to be a Corin-Frontina should be changed to Floronia Sim. as the nomma. former is preoccupied; Linyphia conferta Hentz belongs to this Epeira infumata Hentz is a Vixia. Emerton (New Enggenus. land Thomisidæ) has placed Xysticus elegans Keys. J and X. crudelis Bks. \bigcirc under the name of X. limbata Keys. The \mathcal{J} X. elegans and X. limbata are certainly quite different species; to what females they belong can only be known by finding them together. X. brunneus Bks. is not X. crudelis, nor is X. locuples Keys. X. gulosus Keys, as Emerton asserts. X. gramineus Em. is found at Ithaca, N. Y., and on Long Island; I have a young \mathcal{Q} from D. C.; it may turn out to be X. emertoni Keys. Diæa lepida Thorell is a Misumena, related to M. rosea Keys. Ebo latithorax Keys. is found as far north as Michigan. Habrocestum auratum Peck is not Hentz' species of that name, I propose for it agilis, it is found at Ithaca, N.Y. Attus auratum Hentz is Peckham's Prostheclina, it occurs in Texas. Phidippus tripunctatus Hentz should be called P. audax Hentz as the latter was described before the former. I have a \mathcal{J} of Emerton's pretty Euophrys monadnock from West Cliff, Colorado. What

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Peckham and Emerton describe and figure as such is certainly not Hentz' Salticus epphiatus for the position of the eyes and shape of the cephalothorax is entirely different; it should be called albocinctus Koch; it occurs on L. I. and at D. C. Synemosyna epphiatus Hentz, except for the legs, seems to be very close to what Peckham calls scorpiona Hentz.

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KEYS AND DESCRIPTION.

Our genera of Drassidæ may be separated as below.

	No dorsal groove	(Micarinæ) Micaria
1	Dorsal groove present	. (Drassinæ) 2
-	Hind row of eyes more or less recurved	. (Gnaphosini) 3
-	Hind row of eyes straight or procurved	. (Drassini) 5
3	 Head less than one-half as wide in front as in middle Head more than one-half as wide in front 	4
5	Head more than one-half as wide in front	. Gnaphosa
4	Mandibles with a toothed plate on the under side .	. Pythonissa
-	Mandibles with a toothed plate on the under side . No such plate present	. Poecilochroa
5	A dorsal shield on base of abdomen No such shield	Echemus
Ĩ	(No such shield	6
6	P. M. E. oval . <	Drassus
	(P. M. E. round	· · · 7
7	Lower spinnerets longest	. Prostnesima
	(Lower spinnerets shorter than upper pair	Teminius
	Our genera of Clubioning may be tabulated	thus

Our genera of Clubioninæ may be tabulated thus:

	5	Two rows of very strong spines under tibiæ I and II . (Phrurolithini) 2
	5	Two rows of very strong spines under tibiæ I and II . (Phrurolithini)2Tibiæ I and II not strongly spined
	, 1	Lower row of eyes strongly recurved Liocranoides Lower row of eyes not recurved
1		Lower row of eyes not recurved Phrurolithus
	. 5	First pair of legs longest Chiracanthium
•	1	First pair of legs longestChiracanthiumFourth pair of legs longest
	5	Lip only one-third shorter than maxillæ Clubiona Lip not over one-half as long as maxillæ
-	1	Lip not over one-half as long as maxillae 5
	1	Lower row of eyes procurved
	(Lower row of eyes recurved

The species of *Thargalia* known to me may be separated by the following color characters:

1	Legs lineated with black <th.< th=""><th.< th<<th="">.<th.< th="">.<th.< th=""><th>bivittata</th></th.<></th.<></th.<></th.<>	bivittata
	Legs not lineated with black	. 2
25	Abdomen red with a longitudinal black stripe each side .	crocata
(Abdomen not so marked	. 3
2)	Black, with a red spot or short stripe at tip of abdomen .	descripta
25	Not so marked	. 4
15	Without any black	5
+-)	Without any black .	. 6
= 5	Red, without bands	amœna
.5	Red, without bands.Yellow, with two interrupted white bands.	aurata

6	S Anterior femora red					trilineata
0	Anterior femora blackish					7
7	§ Posterior femora red or reddish, not black,	many	light	band	s on the	e abdomen. 8
1	Posterior femora black					9
8) Hind legs distinctly black banded .					ornata
0	(Hind legs not distinctly banded					pinnata
) One band near base of abdomen .					agilis
9	(Many light bands on the abdomen .				. 1	ongipalpis

T. descripta has been considered the \bigcirc of *T. crocata*, but such is not the case as I have a \bigcirc *crocata* similar to the \eth , and very different from *descriptus*. *T. cingulata* is probably *T. trilineata* of which *T. zonaria* appears to be but a variety, *T. marmorata* may be the same as *T. ornata*.

Our genera of Dictynidæ may be distinguished thus:

I Eyes 6	 Neophanes
(Eyes 8	2
2) Legs without spines, cribellum, undivided	3
(Spines on some legs, cribellum divided	4
³ A. M. E. very much smaller than the others	Prodalia
A. M. E. equal in seize to the others	. Dictyna
Maxillæ inclined over the lip	 Amaurobius
4 { Maxillæ inclined over the lip	Titanœca

Tapinopa, a genus related to *Linyphia* but differing from all other Linyphinæ in lacking spines to the legs, occurs in the eastern U. S. It may be described as follows:

Tapinopa bilineata n. sp.

Length \bigcirc 3.5 mm. Cephalothorax pale with a broad black stripe each side, which does not, however, reach the margins; mandibles yellowish, with a spot at base in front and a line at base on the side blackish; sternum brown, blackish on the edges; legs and palpi whitish, a broad band on middle of femur, patella, bands at middle and tips of tibia and metatarsus, black; two black bands on palpi. Abdomen pale, grayish brown, blotched with white, two rows of four spots above, tip with a few chevrons, sides with some oblique stripes, and venter almost wholly, black. Legs τ , 4, 2, 3. Head slighthly projecting in front over the mandibles which are obliquely retreating, of large size, and have their lower margins armed with a row of slender spines. Clypeus low. A. M. E. the largest, other eyes about equal; A. M. E. projecting forward and downward on tubercles.

This species lives among grass or leaves close to the ground. It resembles *Stemonyphantes bucculentus* but readily separated by the absence of spines on legs, the structure of its mandibles, and the two rows of spots on the dorsum. The epigynum projects slightly as is common in *Bathyphantes*. I have it from Sea Cliff, N. Y. and Washington, D. C. The Eastern species of *Linyphia* known to me may be separated as below.

The species known to me from the Pacific coast may be separated thus :

I	Cephalothorax with a median stripe
	Cephalothorax unicolorous
-	Red, legs not spotted rubrofasciata
	/ Legs spotted, not red phrvgiana
2	Legs banded digna
3	legs not banded
	With a broad median black stripe on abdomen pusilla
4	Abdomen longer, with black lines and an apical spot litigiosa

L. reducta Keys. is a Helophora, closely related to H. insignis Blk., L. arcuata Keys. is a Lephthyphantes and near L. nebulosus Sund. L. brevipes Keys. is a Bathyphantes.

In the Eastern States L. marginata and L. phrygiana are the most common species; on the Pacific coast L. litigiosa and L. digna seem to be the two most common forms.

The males of the species of *Ceratinella* known to me may be separated by the following key:

- 1	The head with a transverse fissure
- 1	The head with a transverse fissure<
- 1	S. E. on tubercles bulbosa S. E. not on tubercles
-)	S. E. not on tubercles
21	Dorsal shield very distinct fissiceps
2)	Dorsal shield very distinctfissicepsDorsal shield indistinctatriceps
15	Basal shield covering large part of venter 5
+ 1	Basal shield covering large part of venterBasal shield much smaller6
1	Tube of palpus shorter than the tarsus micropalpis
5	Tube of palpus longer than the tarsus, smaller species but with a larger
(palpus minuta
6)	Tibia of palpus with a long slender projection
0	Tibia of palpus with a long slender projection8Tibia of palpus with a short projection7

7 The projection very broad, not narrowed toward tip lætab 7 The projection narrowed from base to tip	eta nis
(P M F less than diameter apart melanocher	nis
s) 1. M. E. less than diameter apart	0
8 P. M. E. less than diameter apart	9
Color dark gray or blackish	10
 9 Color dark gray or blackish	II
10 J Tibial hook black, stout, cephalothorax very dark brun	iea
(Tibial hook pale, slender, cephalothorax lighter plac	ida
Black of cephalothorax extends back to dorsal groove, very small w	nite
¹¹ species	æa
II Black of cephalothorax extends back to dorsal groove, very small w species . </td <td>12</td>	12
(Tibial hook with two rounded teeth on side, narrowing toward the	tip,
cephalothorax yellow emert	oni
¹² Tibial hook without such teeth, broad at tip, cephalothorax reddish	
sim	ilis

Ceratinella mæsta Bks. is a Lophocarenum, the only true species of Lophocarenum described from U. S. Ceratinella annulipes Bks. does not belong to the genus, I have a male from Poughkeepsie, N. Y., collected by Mr. Van Ingen, it is similar to the female, its palpus shows some relation to the Theridinæ; I know of no genus for it. Simon (Arach. d. France) has called our Ceratinella Ceraticelus; but I consider that the name Ceratinella was given not so much to supplant Ceratina (preoccupied) as it was to designate the species placed by its author (Emerton) under it. The European forms called Ceratina are thus without a genus, I propose for them Ceratinodes. My Ceratinella formosa is not a true Ceratinella, I propose for it Idionella distinguished by the position of the horny shield. I have collected it on Long Island, N. Y.

The females of our species of Acrosoma are separable thus:

Abdomen with ten spines, three on each side and four at tip . rugosa Abdomen with six spines, two on each side and two large ones at tip . spinea Abdomen with four spines, all at tip . . , . . . mitrata

In the Prairie Farmer 1861, p. 168, "Vespa" (Cyrus Thomas?) mentions *Gasteracantha spinicauda*, this is a synonym of *Acrosoma spinea*. *Acrosoma bovinum* Thorell is a synonym of *A. spinea*.

Our genera of the Tetragnathinæ may be separated as follows:

T	With a ventral furrowGlenognathaNo ventral furrow
1	No ventral furrow
	Abdomen not twice as long as wide, not much longer than the cephalo-
	thorax Pachygnatha
2.	Abdomen more than twice as long as wide, much longer than the cephalo-
	thorax
-	S. E. not farther apart then M. E
3	S. E. not farther apart then M. E.TetragnathaS. E. farther apart than M. E.4

4 {Spinnerets at the end of abdomen Eugnatha Abdomen projecting beyond spinnerets in a tail Eucta

Our species of the last three genera may be separated as in the following keys. Some species are very common and often noticed by all observers of nature. The webs are usually nearly horizontal, but sometimes quite oblique. The genital characters are nearly the same throughout, so that young forms are often as easily determinable as adult ones.

Tetragnatha 3.

 Tibia of palpus barely longer than patella
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Fang of mandibles undulategrallatorFang of mandibles an even curveextensa

Tetragnatha Q.

Abdomen silvery, S. E. separated, L. S. E. smaller than the others, small species laboriosa

 Abdomen darker, S. E. closer together, equal
 grallator

 Mandibles as long as cephalothorax
 grallator

 Mandibles two-thirds as long as cephalothorax
 extensa

Tetragnatha grallator Hentz.

The female has the abdomen enlarged near the base; the color darker than is usual in the group. The male varies much in size. Length of female 10—12 mm. Common in the Eastern States and Texas.

Tetragnatha extensa Linn.

Smaller than *grallator* and the abdomen shorter. The colors are often quite dark, the cephalothorax with dark stripes. Western specimens have the tibial joint of the palpi shorter than the eastern ones; and are usually darker. Length of female 8—10 mm.

This is a boreal species, crossing our country from Maine to Washington State. In the north it is the most common species of the group.

Tetragnatha laboriosa Hentz.

The female usually has a silvery abdomen, with a dark oblique line each side, and two or three silvery stripes on the dark venter. Sometimes there is a folium on the abdomen. The male is the smallest of the subfamily. Western males have the abdomen a little thicker than eastern ones. Length of female 6—8 mm.

Probably the whole United States; I have it from N. Eng., N. Y., Mich., D. C., La., Fla., Tex. and Wash. State.

T. illinoiensis Keys., and *T. fluviatilis* Keys., I consider as belonging to this species; both were described from females.

Eugnatha 3.

Eugnatha o.

Maxillæ net reaching to the end of fang, mandibles projecting almost horizontally pallida

Eugnatha vermiformis Em.

This species is somewhat rare. Length of female 12 mm. N. Y., N. Eng., L. I.

Eugnatha pallida Banks.

The female has mandibles longer than *vermiformis*, the teeth are smaller than in *straminea*. The outer margin of the mandibles more like *vermiformis*.

One \mathcal{J} N. Y., 9 mm.; one \mathcal{J} N. Y. and one Fla. 7 mm.

One \bigcirc N. Y. and one Fla. 12 mm.; one \bigcirc Fla. 9.5 mm.

Eugnatha straminea Em.

The abdomen of the female projects a little beyond the spinnerets but not once its diameter. Length of female 10 mm. N. Eng., N. Y., D. C., Mich.

Eucta.

Eucta caudata Em.

The male is similar to the female but smaller, the tibial joint of the palpus not much longer than the patellar. This is rare in the north but quite common in Florida. — Can., N. Y., N. Eng., D. C., Fla.

The species of *Xysticus* may be arranged in three groups; those that have clavate hairs as *X. nigromaculatus* and *X. feroculus*; those that have pale line on the anterior legs as *X. gulosus*, *X. limbatus*, etc. Those without the pale line on legs as *X. nervosus*, etc.

Coriarachne brunneipes nov. sp.

Length Q 9 mm. J 5 mm. Cephalothorax and legs dark red brown, metatarsi and tarsi paler. A few small white spots on the cephalothorax and one near tip of femur above, abdomen (\bigcirc) black above with a large iil-defined central mark of grayish white, the edges very ragged, abdomen (\mathcal{J}) is almost covered with white, three large black spots each side send out branches which ramify through the white, sternum (\mathcal{Q}) pale with a central darker spot, (\mathcal{C}) wholly dark brown venter gray, in the of more reddish brown. The whole body is very much depressed, more than in C. versicolor, the legs are slenderer than in that species, tibia I being over three times as long as broad. The abdomen is more elongate than in C. versicolor. The epigynum consists of a cavity much narrower behind, similar in plan to that of Gnaphosa, from the anterior margin there is a projection with a rounded posterior margin, which nearly covers the anterior portion of the cavity. The tibial joint of the palpus has a prominent lateral projection with a curved point, the tube is quite short.

This species is quite common in Washington State. (T. Kincaid.)

The genera of the Oxyopidæ may be readily separated as follows:

- Mandibles higher than the cephalothorax 3 . . . Peucetia
- . 2
- Oxyopes P. M. E. much more than half as far apart as P. S. E. . Hamataliwa

What Emerton calls Oxyopes scalaris Hentz (New England Lycosidæ) is not that species but is new. I have seen an adult female in Dr. Fox's collection which he obtained in New Hampshire.

Oxyopes cinerea nov. sp.

Length Q 8 mm. Cephalothorax and mandibles reddish brown, somewhat more brown on the sides and lighter in the middle, eyes on black spots, traces of dark lines reaching from the A. M. E. down upon the mandibles, maxillæ reddish brown, lip darker, sternum reddish brown, lighter in the middle, legs and palpi yellowish with darker reddish markings on base and tip of femora, and on base, middle and tip of tibiæ and metatarsi; abdomen dark gray, two diverging short white stripes near base, and two oblique spots on each side, further back a light stripe on each side of venter, a wide median black stripe from epigynum to spinnerets. Cephalothorax highest at eye-region straight and barely sloping until near the posterior margin where it suddenly drops, clypeus straight, legs spiny, abdomen widest near base, apex pointed, more stubby than the other species. The epigynum consists of a short rounded finger directed forward, somewhat like O. salticus but not pointed.

I have received, from Mr. Trevor Kincaid, another new species of this genus which he finds quite commonly in Washington State.

Oxyopes rufipes nov. sp.

Length \bigcirc 10 mm., \eth 7 mm. Cephalothorax reddish, usually with a light median stripe, eyes on black spots, mandibles and maxillæ reddish, usually

there are faint lines reaching from the A. M. E. down upon the mandibles, sternum reddish brown on the sides, paler in the center; legs reddish, more yellow at tips, a few dark spots at the base of hairs, dorsum of abdomen reddish brown, often with a light median stripe enclosing a spear-mark at base, and a short light mark on each side near tip; venter yellowish with a broad median brown stripe, spinnerets brown. The $\overline{\bigcirc}^{1}$ is darker than the \bigcirc . Sometimes the legs are a little banded. Cephalothorax highest at eye-region, gradually sloping concavely until near the posterior end, where if suddenly curves down; legs spiny, abdomen widest in front, tapering to apex; the epigynum consists of a rounded finger, somewhat similar to *O. cinerea* but more slender. Male palpal organ black, the tarsus is more slender than in the other species, the tibia has on the inner side a short pointed projection similar to *O. salticus*, the basal part of the palpal organ is more complicated than in that species.

The four species of *Oxyopes* may be separated by the following table:

	Femora with a black line on under-side salticus
1	Femora with a black line on under-side
2	Abdomen light, with black side and median stripes scalaris
- 1	Abdomen light, with black side and median stripesscalarisAbdomen dark, with a few light spots
	Dorsum of cephalothorax straight, about as high in middle as in eye-region
-	cinerea
34	Dorsum of cephalothorax concave, higher in eye-region than in middle
(rufipes

LOCAL ENTOMOLOGICAL NOTES.

Members of the New York Entomological Society and all others, are solicited to contribute to this column, their rare captures, local lists and other items of interest relating to the insect fauna of New York city and vicinity.

LIST OF THE COLEOPTERA OF NORTH EASTERN AMERICA,

WITH SPECIAL REFERENCE TO THE FAUNA OF NEW YORK CITY AND VICINITY.

By CHARLES W. LENG AND WM. BEUTENMULLER.

(CONTINUED FROM PAGE 96.)

SCHIZOGENIUS Putz.

S. planulatus Lec.-N. Y. Taken by Mr. Linell at Coney Island.

S. lineolatus Say.—N. E. Amer. Lives under stones along river banks, June and Sept. Not common in this vicinity.

S. ferrugineus *Putz.*—N. E. Amer. Occurs in salt marshes. Not common in this vicinity.

S. amphibius Hald.-N. Y., Mo. Taken in this vicinity by Mr. Wm. Jülich.



Banks, Nathan. 1893. "Notes on Spiders." *Journal of the New York Entomological Society* 1, 123–134.

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