

# A LIST OF HOMOPTERA OF NORTH CAROLINA

BY Z. P. METCALF

The present list is not complete in any sense of the word but simply represents our present knowledge of the species of Homoptera which have been collected in this State. The two sources of our knowledge of the Homoptera of the State have been the published writings of the American Hemipterists Uhler, Osborn, Van Duzee and Ball and the collections made in the State. The largest collection of Homoptera in the State is that of the State Department of Agriculture which owes its inception and growth to the enthusiasm of the chief of the Division of Entomology, Mr. Franklin Sherman, Jr. The large number of times the initials F. S. occur after locality data will show clearly that Mr. Sherman has collected these small insects assiduously in practically all parts of the State. This collection was also enriched by the addition of numerous specimens collected in a trip during the month of September, 1909, when the writer collected at Blowing Rock, Yonahlossee Road, Grandfather Mountain, Balsam, Waynesville and Montreat.

The collection of the Division of Zoology and Entomology of the College of Agriculture contains a good series of most of the species that have been taken at Raleigh together with others which have been acquired by purchase.

The collection of Mr. A. H. Manee made at Southern Pines is rich, especially in those forms that occur further South.

In nearly all cases individual localities are given as our collecting has not been extensive enough to warrant our drawing any very extensive conclusions. The month for convenience has been divided into three parts, early, mid and late. In our later collecting in the mountains careful records have been kept of the elevations at which specimens have been taken and the mountains have been divided into 500 foot zones for this purpose.

The initials of the person collecting the specimen is usually given after each locality and date. These initials refer to the following persons:

*Franklin Sherman, Jr., State Entomologist.*

*R. S. Woglum, formerly Assistant State Entomologist.*

*L. M. Smith, formerly Assistant State Entomologist.*

*G. M. Bently, formerly Assistant State Entomologist.*

*C. L. Metcalf, formerly Assistant State Entomologist.*

*C. S. Brimley, Zoologist, Raleigh.*

*A. H. Manee, Southern Pines.*

More collecting has been done at Raleigh than all other points combined but rather extensive collecting has been done at Beaufort, Lake Waccamaw, Southern Pines, Stem, Statesville, Blowing Rock, Yonahlossee Road, Grandfather Mountain, Montreat, Swannanoa, Highlands, Tryon, Canton, Sunburst (Haywood County), Balsam, Waynesville.

Some of our specimens have been identified by Van Duzee, Heideman, Osborn and Ball, but most of the specimens have been examined by the writer and a majority of the species have been identified by him save in the Family Cicadidæ where the identifications stand substantially as made by Mr. Heideman.

#### FAMILY CICADIDAE

*CICADA CANICULARIS, HARRIS (?)*

A single specimen from Raleigh seems to be nearer this species than any other. L. Sept. C. S. B.

*CICADA LINNEI, S. & G.*

Raleigh, Nov. G. M. B.; E. Oct. F. S.; E. Aug. Z. P. M.; L. Sept. G. M. B.

*CICADA LYRICEN, DeG.*

Raleigh, E. July, F. S. Andrews, L. July, F. S.

*CICADA RESONANS, WALK.*

Southern Pines. A. H. M.

*CICADA AULETES*, GERM.

Raleigh, Abundant July to Mid. Sept. C. S. B.  
 Southern Pines, M. Aug. A. H. M.  
 Lake Toxaway, Mrs. Slosson.

*CICADA PRUINOSA*, S. & G.

Beaufort, Mid. Aug. F. S.

*CICADA REPERTA*, UHL.

Wilmington, L. July, J. P. S.

*CICADA SAYI*, S. & G.

Raleigh, L. June to L. Oct. Common.

*CICADA SEPTENDECIM*, LINN.

Several distinct broods occur in the State.

*MELAMPALTA PARVULA*, SAY.

Southern Pines, June & July, A. H. M.  
 Aberdeen, June, F. S.  
 Watkins, E. July. Z. P. M.

*TETTIGIA HIEROGLYPHICA*, SAY.

Beaufort, L. June.  
 Southern Pines, June and July.  
 Rocky Mount.

FAMILY MEMBRACIDAE  
 SUB-FAMILY—SMILIINAE  
 TRIBE—CERASINI

*ACUTALIS SEMICREMA*, SAY.

Montreat, L. Sept. 2500-3000 ft. Z. P. M.  
 Swannanoa, Mid. July. Z. P. M.  
 Waynesville, Mid. Sept., 2500-3000 ft. Z. P. M.  
 Stem, E. October. Z. P. M.

*ACUTALIS TARTAREA*, SAY.

Raleigh, Mid. October, G. M. B.; L. June, F. S.  
 Waynesville, Mid. Sept. 3000 ft. Z. P. M.  
 Waynesville, Rocky Knob. 4000-5000 ft. Mid. Oct.  
 Z. P. M.

*CERESA BREVITYLUS*, VAN D.

Henderson, June, F. S.

Sunburst, May, 3000-3500 ft. F. S.

Raleigh, E. and Mid. May, Z. P. M.

Raleigh, Mid. April, F. S.

*CERESA BOREALIS*, FAIRM.

Blowing Rock, Sept. S. W. F.

Yonahlossee Road, Mid. Sept. C. L. M.

Montreat, 2500-3000 ft. L. Sept. Z. P. M.

Balsam, Mid. Sept. 4500-5000 ft. Z. P. M.

*CERESA BUBALUS*, FABR.

Washington, Mid. July, F. S.

Raleigh, Aug. C. S. B.

*CERESA CONSTANS*, WALK.

Waynesville, Rocky Knob, 3000-3500 ft. Mid. Sept.

Z. P. M.

*CERESA DICEROS*, SAY.

Marion, Mid. July, F. S.

*CERESA ILLINOIENSIS*, GODG.

Newton, May, F. S.

*CERESA PALMERI*, VAN D.

Waynesville, L. Sept., about 3000 ft., Z. P. M.

Balsam, Mid. Sept., 4500-5000 ft., Z. P. M.

*CERESA TAURINA*, FITCH.

Waynesville, Mid. Sept., 3000 ft., Z. P. M.

*CERESA UNIFORMIS*, FAIRM.

Balsam, Mid. Sept., 4500-5000 ft., Z. P. M.

*MICRUTALIS CALVA*, SAY.

Raleigh, L. July, Z. P. M.; E. Sept., F. S.

Balsam, Mid. Sept., 3000 to 5000 ft., Z. P. M.

*MICRUTALIS ILLINOIENSIS*, GODG.

Raleigh, E. Sept., F. S.; Mid. Sept., Z. P. M.

*STICTOCEPHALA DIMINUTA*, VAN D.

Raleigh, E. July, F. S.

STICTOCEPHALA FESTINA, SAY.

Raleigh, E. Oct. to E. Nov., Z. P. M.

STICTOCEPHALA INERMIS, FABR.

N. C., Z. P. M.

STICTOCEPHALA LUTEA, WALK.

Raleigh, E. Aug., Z. P. M.

STICTOCEPHALA ROTUNDATA, STAL.

Raleigh, E. Nov., Z. P. M.

STICTOCEPHALA SUBSTRIATA, WALK.

N. C., Van D.

Southern Pines, A. H. M.

TRIBE—TELAMONINI, GODG.

ARCHASIA BELFRAGEI, STAL.

Southern Pines, A. H. M.

ARCHASIA GALEATA, FABR.

Southern Pines, E. June, R. S. W.; Mid. May,  
A. H. M.

CARYNOTA MARMORATA, SAY.

Raleigh, E. July, Z. P. M.

Blowing Rock, L. July, G. M. B.

Hendersonville, June, F. S.

CARYNOTA MERA, SAY.

Raleigh, L. Oct., on Pecan, C. L. M.

CARYNOTA PORPHYREA, FAIRM.

Raleigh, Mid. June, F. S.

HELIRIA CRISTATA, FAIRM.

N. C., Van D.

TELAMONA WESTCOTTI, GODG.

N. C., Van D.

TELAMONA UNICOLOR, FITCH.

Raleigh, Mid. May, H. H. Hume.

TELAMONA AMPELOPSIDIS, HARRIS.

N. C., Riley.

TELAMONA MONTICOLA, FABR.

N. C., Riley.

THELIA BIMACULATA, FABR.

N. C., Walker.

TRIBE—SMILINI, GODG.

SOMILIA CAMELUS, FABR.

Southern Pines, A. H. M.

ATYMNA CASTANEA, FITCH.

Cashiers, Mid. June, F. S.

ATYMNA QUERCI, FITCH.

Blowing Rock, L. July, G. M. B.

Highlands, E. Sept., R. S. W.

ATYMNA INORNATA, SAY.

N. C., Van D.

CYRTOLOBUS FENESTRATUS, FITCH.

Raleigh, E. May, Z. P. M.

Blowing Rock, L. June, L. July, F. S.

CYRTOLOBUS MUTICUS, FABR.

N. C., Van D.

CYRTOLOBUS SCULPTUS, FAIRM.

N. C., Van D.

CYRTOLOBUS VAU, SAY.

N. C. Riley.

CYRTOLOBUS DISCOIDALIS, EMM.

Balsam, W. J. Palmer.

CYRTOLOBUS TUBEROSUS, FAIRM.

N. C., Z. P. M.

OPHIDERMA FLAVICEPHALA, GODG.

N. C., Z. P. M.

OPHIDERMA FLAVA, GODG.

N. C., Z. P. M.

## TRIBE POLYGLYPTINI

## ENTYLIA BACTRIANA, GERM.

Balsam, L. Sept., 2500-5000 ft., Z. P. M.

## ENTYLIA CONCISA, WALK.

Balsam, Mid. Sept., 4500-5000 ft., Z. P. M.

## ENTYLIA SINUATA, FABR.

Stem, E. Oct., Z. P. M.

Balsam, Mid. Sept., 4500-5500 ft., Z. P. M.

Montreat, L. Sept., 2500-3000 ft., Z. P. M.

## PUBLILIA CONCAVA, SAY.

Hendersonville, June, F. S.

Montreat, 2500-3000 ft., L. Sept., Z. P. M.

Black Mountain, L. May, F. S.

## PUBLILIA RETICULATA, VAN D.

Hendersonville, June, F. S.

Black Mountain, L. May, F. S.

Balsam, L. Sept., 3500-5000 ft., Z. P. M.

Montreat, 2500-3000 ft., Z. P. M.

Yonahlossee Road, Mid. Sept., C. L. M.

## VANDUZZEA ARQUATA, SAY.

Raleigh, Mid. June, Z. P. M.

Montreat, L. Sept., 2500-3000 ft., Z. P. M.

Blowing Rock, L. July, G. M. B.

## SUB-FAMILY HOPLOPHORINAE STAL

## PLATYCOTIS QUADRIVITTATA, SAY.

Raleigh, E. May, Z. P. M.

Blowing Rock, Sept., S. W. F.

## PLATYCOTIS SAGITTATA, GERM.

Kawana, Mid. Oct., E. C. Robins.

## SUB-FAMILY MEMBRACINAE STAL

## CAMPYLENCHIA LATIPES, SAY.

Raleigh, Mid. June, E. July, L. July, E. Aug., Z. P. M., Mid. Aug., C. L. M.; E. July, F. S.

Waynesville, Rocky Knob, 4000-4500 ft., Mid. Sept.,  
Z. P. M.

ENCHENOPA BINOTATA, SAY.

Montreat, L. Sept., 2500-3000 ft., Z. P. M.

Waynesville, Rocky Knob, Mid. Sept., 4000-5000 ft.,  
Z. P. M.

TYLOPELTA BREVIS, VAN D.

Raleigh, Z. P. M.

#### SUB-FAMILY CENTROTINAE STAL

MICROCENTRUS CARYAE, FITCH.

Waynesville, Rocky Knob, Mid. Sept., 4500-5000 ft.,  
Z. P. M.

#### FAMILY FULGORIDAE SUB-FAMILY FULGORINAE

CYRPOPTUS BELFRAGEI, STAL.

Havelock, L. May, 1907, L. M. S.

Raleigh, E. July, 1909, Z. P. M.

POIOCERA FULIGINOSA, UHLER.

Raleigh, L. Oct., 1902, F. S., on sumach.

Southern Pines, Oct., 1908, A. H. M.

#### SUB-FAMILY DICTYOPHARINAE

DICTYOPHARA LINGULA, VAN D.

Raleigh, E. to Mid. Aug., Z. P. M.; E. Sept., F. S.

DICTYOPHARA MICRORHINA, WALK.

Southern Pines, Mid. Sept., A. H. M.

PHYLLOSCELIS ATRA, GERM.

Raleigh, L. July, Mid. Sept., Z. P. M.

PHYLLOSCELIS PALLESCENS, GERM.

Raleigh, L. July, Z. P. M. More common than the  
preceding.



## SCOLOPS ANGUSTATUS, UHLER.

Highlands of N. C., Uhler.

Raleigh, E. to L. July, Z. P. M.

## SCOLOPS DESSICATUS, UHLER.

Raleigh, E. July, Z. P. M.; E. Oct., F. S.

## SCOLOPS PERDIX, UHLER.

Raleigh, E. July, Z. P. M.

## SCOLOPS SULCIPES, SAY.

Yonahlossee Road, E. Sept., C. L. M.

## SUB-FAMILY CIXIINAE

## OLIARUS HUMILIS, SAY.

Raleigh, E. July, Mid. Aug., Z. P. M.

## OLIARUS QUINQUICILINEATUS, SAY.

Southern Pines, Mid. May, A. H. M.

## OLIARUS VICARIUS, WALK.

Southern Pines, Mid. May, A. H. M.

## OLIARUS COMPLECTUS, BALL.

N. C., Z. P. M.

## OECLEUS DECENS, STAL.

Raleigh, Mid. June, E. Aug., Z. P. M.

Southern Pines, E. May, A. H. M.

## BOTHRIOCERA BICORNIS, FAB.

N. C., Uhler.

## BOTHRIOCERA TENEAIS, BURN.

Raleigh, E. July, Mid. July, Z. P. M.; C. L. M.;

L. June, F. S.

## CIXIUS STIGMATUS, SAY.

Grandfather Mountain, Mid. Sept., 5000-5500 ft.,

Z. P. M.

## CIXIUS PINI, FITCH.

Raleigh, E. May, Z. P. M.

## MYNDUS PICTIFRONS, STAL.

Hendersonville, July, 1907, F. S.

## SUB-FAMILY DELPHACINAE

*BOSTAERA NASUTA*, BALL.

Southern Pines, L. July, A. H. M.

Willard, L. July, Z. P. M.

*STENOCRANUS DORSALIS*, FITCH.

Hendersonville, June, F. S.

*STENOCRANUS LAUTUS*, VAN D.

Raleigh, Mid. Aug., E. Sept., Z. P. M.

Hendersonville, June, F. S.

*KELISIA AXIALIS*, VAN D.

Stem, E. Oct., Z. P. M.

*STOBAERA TRICARINATA*, SAY.

Raleigh, L. March, E. Oct.

Statesville, Mid. April, F. S.

Balsam, Mid. Sept., 4000-5000 ft., Z. P. M.

Waynesville, 4000-5000 ft., E. Sept., Z. P. M.

*PEREGRINUS MAIDIS*, ASH.

Raleigh, L. Sept., C. L. M.

*PISSONOTUS BRUNNEUS*, V. D.

Raleigh, L. July, F. S.

*LIBURNIA PELLUCIDA*, FABR.

Raleigh, E. Sept.

*LIBURNIA PUELLA*, VAN D.

Raleigh, E. Aug., C. L. M.

Grandfather Mountain, about 4000 ft., Sept., F. S.

Hendersonville, June, F. S.

Andrews, Mid. May, F. S.

*LIBURNIA ORNATA*, STAL.

Raleigh, E. May to E. Nov., Z. P. M.

Stem, E. Oct., Z. P. M.

Grandfather Mountain, 4000-5000 ft., E. Sept.,  
Z. P. M.

Blantyre, May, F. S.

Hendersonville, June, F. S.

*LIBURNIA KILMANI*, VAN D.

Raleigh, Mid. Sept., Z. P. M.

*LIBURNIA CONSIMILIS*, VAN D.

Hendersonville, F. S.

*LIBURNIA LAMINALIS*, VAN D.

Hendersonville, June, F. S.

#### SUB-FAMILY ACHILIINAE

*CATONIA CINCTIFRONS*, FITCH.

Balsam, Mid. Sept., 4000-5000 ft., Z. P. M.

Waynesville, Mid. Sept., 3500-4000 ft., Z. P. M.

Montreat, L. Sept., 2500-3500 ft., Z. P. M.

*CATONIA IMPUNCTATA*, FITCH.

Raleigh, Mid. July, 1912, C. L. M.

*CATONIA PICTA*, VAN D.

N. C., Z. P. M.

*ELEDIPTERA OPACA*, SAY.

Southern Pines, Mid. Oct., A. H. M.

#### SUB-FAMILY DERBINAE

*AMALOPOTA FITCHI*, VAN D.

Raleigh, L. Aug., Z. P. M.

Red Springs, L. June, F. S.

*ANOTIA BURNETHI*, FITCH.

Raleigh, E. Sept., C. S. B.

*OTIOCERUS COQUEBERTII*, KIRBY.

Canton, June, F. S.

*LAMENIA VULGARIS*, FITCH.

Raleigh, L. May, L. Aug., Z. P. M.

Balsam, Mid. Sept., above 4000 ft., Z. P. M.

Waynesville, Mid. Sept., 3500-4000 ft., Z. P. M.  
 Beaufort, Mid. June, F. S.

LAMENIA MACULATA, VAN D.

Balsam, Mid. Sept., 4500-5000 ft., Z. P. M.

LAMENIA EDENTULA, VAN D.

Raleigh, Mid. Aug., E. Sept., Z. P. M.

LAMENIA OBSCURA, BALL.

N. C., Van Duzee.

#### SUB-FAMILY ISSINAE

BRUCHOMORPHA OCVLATA, NEWM.

Raleigh, Mid. Aug., Mid. Sept., Z. P. M.

BRUCHOMORPHA DORSATA, FITCH.

Raleigh, Mid. Aug., Z. P. M.

BRUCHOMORPHA SUTURALIS, MEL.

Raleigh, E. Sept., Z. P. M.

BRUCHOMORPHA TRISTIS, STAL.

Raleigh, L. July, Mid. Sept., E. Nov., Z. P. M.

THIONIA BULLATA, SAY.

Raleigh, E., L. July, Z. P. M.

Waynesville, Mid. Sept., at 3000-3500 ft., Z. P. M.

Balsam, Mid. Sept., 4500-5000 ft., Z. P. M.

Andrews, Aug., F. S.

THIONIA SIMPLEX, GERM.

Waynesville, Mid. Sept., 3000-3500 ft., Z. P. M.

THIONIA ELLIPTICA, GERM.

Raleigh, E. July, F. S.

#### SUB-FAMILY ACANALONINAE

ACANALONIA LATIFRONS, WALK.

Southern Pines, July, S. W. F.

ACANALONIA CONICA, SAY.

Raleigh, L. Oct., C. S. B.

## AMPHISCEPA BIVITTATA, SAY.

Raleigh, L. July, E. Aug., Z. P. M.; E. Aug., C.L.M.  
Waynesville, Mid. Sept., 3000-3500 ft., Z. P. M.

## SUB-FAMILY FLATINAE

## ORMENIS PRUINOSA, SAY.

Raleigh, E. to L. July, Z. P. M.  
Tarboro, Mid. July, F. S.  
Statesville, Aug., Z. P. M.  
Waynesville, Mid Sept., 3000 to 3500 ft., Z. P. M.

## ORMENIS SEPTENTRIONALIS, SPIN.

Raleigh, E. to L. July, Z. P. M.: Aug., C. S. B.  
Statesville, Aug., Z. P. M.  
Asheville, Sept., F. S.  
Elkin, June, F. S.

## ORMENIS VENUSTA, MEL.

Raleigh, E. July, F. S.  
Southern Pines, Aug., R. S. W.  
Statesville, Aug., Z. P. M.

## CYARDA MELICHARI, VAN D.

Southern Pines, L. May., A. H. M.

FAMILY CERCOPIDAE  
SUB-FAMILY CERCOPINAE

## TOMASPIS RUBRA, LINN.

Raleigh, L. July to L. Aug., Z. P. M.  
Beaufort, E. June, F. S.  
Hamlet, L. Oct., F. S.

## SUB-FAMILY APHROPHORINAE

## APHROPHORA SARATOGENSIS, FITCH.

Beaufort, Mid. June, F. S.

## APHROPHORA SIGNORETII, FITCH.

Blowing Rock, L. June, 4000 to 4500 ft., F. S.

*APHROPHORA QUADRINOTATA*, SAY.

Highlands, E. Sept.

Canton, June, F. S.

Montreat, L. Sept., 2500-3000 ft., Z. P. M.

Yonahlossee Road, Mid. Sept., C. L. M.

*LEPYRONIA QUADRANGULARIS*, SAY.

Balsam, Mid. Sept., 4000-5000 ft., Z. P. M.

Waynesville (Rocky Knob), 3000-5000 ft., Z. P. M.

Waynesville, 2500-3500 ft., Z. P. M.

Yonahlossee Road, E. Sept., 4000-5000 ft., Z. P. M.

Grandfather Mountain, about 4000 ft., Z. P. M.

*PHILAENUS SPUMARIUS*, LINN.

Canton, June, F. S.

Yonahlossee Road, Mid. Sept., 4000-5000 ft., Z. P. M.

Blowing Rock, E. Sept., C. L. M.

*CLASTOPTERA OBTUSA*, SOY.

Raleigh, L. June, F. S.

Greensboro, Mid. Aug., F. S.

Hendersonville, June, F. S.

Balsam, Mid. Sept., 2500-4000 ft., Z. P. M.

Waynesville, Mid. Sept., 2500-3000 ft., Z. P. M.

Yonahlossee Road, E. Sept., 4000-5000 ft.

*CLASTOPTERA PROTEUS*, FITCH.

Highlands, July, F. S.

Blowing Rock, July, F. S.

*CLASTOPTERA XANTHOCEPHALA*, GERM.

Raleigh, Mid. May to E. Nov., Z. P. M.

Beaufort, June, F. S.

Grandfather Mountain, Mid. Sept., 5000-5500 ft.,  
Z. P. M.

Yonahlossee Road, Mid. Sept., C. L. M.

Sunburst, May, 3000-3500 ft., F. S.

Balsam, Mid. Sept., 4000-5000 ft., Z. P. M.

Statesville, Mid. April, F. S.

SUPER-FAMILY JASSOIDEA  
FAMILY BYTHOSCOPIDAE

- ONCOPSIS FENESTRATUS*, FITCH.  
N. C., Van D.
- ONCOPSIS DISTINCTUS*, VAN D.  
N. C., Van D.
- ONCOPSIS NIGRINASI*, FITCH.  
N. C., Van D.
- ONCOPSIS VARIABILIS*, FITCH.  
Blowing Rock, L. July, G. M. B.
- PEDIOPSIS VIRIDIS*, FITCH.  
Hendersonville, June, F. S.
- IDIOCERUS ALTERNATUS*, FITCH.  
Southern Pines, Mid. May, H. H. M.
- AGALLIA QUADRIPUNCTATA*, PROV.  
N. C., Z. P. M.
- AGALLIA SANGUINOLENTA*, PROV.  
Raleigh, L. Jan., Mid. April, F. S.; Mid. Sept.,  
Z. P. M.  
Stem, E. Oct., Z. P. M.  
Southern Pines, Jan., F. S.  
Balsam, Mid. Sept., 3500 to 4000 ft., Z. P. M.  
Grandfather Mountain, about 5000 ft., Mid. Sept.,  
Z. P. M.  
Waynesville, about 3000 ft, Z. P. M., Mid. Sept.
- AGALLIA CONSTRICTA*, VAN D.  
Raleigh, L. July to Mid. Sept., Z. P. M., E. July,  
F. S.  
Hendersonville, June, F. S.  
Jefferson, Mid. Aug., F. S.  
Grandfather Mountain, about 5000 ft, Mid. Sept.,  
Z. P. M.  
Andrews, Mid. May, F. S.

Balsam (Jones' Peak), about 4000 ft., Mid. Sept.,  
Z. P. M.

Waynesville (Rocky Knob), 4000 to 5000 ft., Mid.  
Sept., Z. P. M.

*AGALLIA NOVELLA*, SAY.

Raleigh, L. June, Z. P. M.

Hendersonville, June, F. S.

Blowing Rock, L. July, G. M. B.; E., Sept., Z. P. M.

Waynesville, Mid. Sept., 2500 to 3000 ft., Z. P. M.

Balsam, 4500 to 5000 ft., Mid. Sept., Z. P. M.

Andrews, Mid. May, F. S.

FAMILY TETTIGONIELLIDAE  
SUB-FAMILY TETTIGONIELLINAE

*AULACIZES IRRORATA*, FAB.

Hendersonville, June, F. S.

Highlands, E. Sept., R. S. W.

Beaufort, Mid. June, F. S.

Red Springs, L. June, F. S.

Grandfather Mountain, about 4000 ft., F. S.

*ONCOMETOPIA UNDATA*, FABR.

Raleigh, E. July, F. S.

Beaufort, E. June, F. S.

Ivanhoe, Mid. July, L. M. S.

Lillington, E. June, L. M. S.

Hendersonville, June, F. S.

Highlands, E. Sept., R. S. W.

*ONCOMETOPIA LATERALIS*, FABR.

Southern Pines, L. March, F. S.; Jan., F. S.; L.  
June, F. S.

Norlina, Mid. July, S. W. F.

Lake Waccamaw, Mid. April, F. S.

Blowing Rock, Mid. June, F. S.

Statesville, Mid. April, F. S.

Fayetteville, Mid. July, S. W. F.

Red Springs, L. Sept., F. S.



Goldsboro, April, G. M. B.

Stem, E. Oct., Z. P. M.

*TETTIGONIELLA GOTHICA*, SIGN.

Balsam, 3500 to 4000 ft., Mid. Sept., Z. P. M.

Montreat, L. Sept., 2500 to 3000 ft., Z. P. M.

Waynesville, Mid. Sept., about 3000 ft., Z. P. M.

Waynesville (Rocky Knob), Mid. Sept., 3500 to 5000 ft., Z. P. M.

*TETTIGONIELLA OCCATORIA*, SAY.

Raleigh, L. June, Z. P. M.; E. Aug., C. L. M.

Black Mountain, L. May, F. S.

*KOLLA BIFIDA*, SAY.

Raleigh, E. May to E. Nov., Z. P. M.

Hendersonville, June, F. S.

Balsam (Jones' Peak), above 4000 ft., Mid. Sept., Z. P. M.

Waynesville, Mid. Sept., Z. P. M., from 2500 to 4000 ft.

*KOLLA TRIPUNCTATA*, FITCH.

Raleigh, E. Aug., C. L. M.

Waynesville (Rocky Knob), 4000 to 5000 ft., Mid. Sept., Z. P. M.

Balsam, 2500 to 5000, Mid. Sept., Z. P. M.

*HELOCHARA COMMUNIS*, FITCH.

Blowing Rock, E. Sept., Z. P. M., 3500 to 4000 ft.

Grandfather Mountain, Mid. Sept., Z. P. M., about 5000 ft.; Mid. Sept., above 4000 ft., F. S.

Balsam, 3500 and 5000 ft., Mid. Sept., Z. P. M.

*DIEDROCEPHALA COCCINEA*, FORST.

Raleigh, E. Aug., C. L. M.

Highlands, E. July, F. S.

Cane River, Sept., F. S.

Balsam, 4000 to 5000 ft., Z. P. M.

Montreat, 2500 to 3000 ft., L. Sept., Z. P. M.

Wilmington, Mid. May, F. S.

Blowing Rock, L. July, G. M. B.; E. Sept., Z. P. M.,  
3500 to 4000 ft.

Hendersonville, June, F. S.

Grandfather Mountain, 4000 to 5000 ft., E. Sept.,  
Z. P. M.

*DIEDROCEPHALA VERSUTA*, SAY.

Raleigh, L. June to E. Aug., Z. P. M.

Charlotte, L. July.

Southern Pines, L. June.

Balsam, 3500 to 4000 ft., Mid. Sept., Z. P. M.

Hendersonville, June, F. S.

Waynesville, about 3000 ft., Mid. Sept., Z. P. M.

Waynesville (Rocky Knob), Mid. Sept., 4000 to  
5000 ft., Z. P. M.

*DRAECULOCEPHALA MOLLIPES*, SAY.

Raleigh, L. March to E. Nov., Z. P. M.

Balsam, Mid. Sept., 3500 to 5000 ft., Z. P. M.

Charlotte, L. July.

Blantyre, E. May, F. S.

Andrews, Mid. May, F. S.

Wallace, L. March, F. S.

Jefferson, Mid. Aug., F. S.

Grandfather Mountain, above 4000 ft., Sept., F. S.

Montreat, L. Sept., 2500 to 3000 ft., Z. P. M.

Stem, E. Oct., Z. P. M.

Swannanoa, Mid. July, Z. P. M.

Waynesville, L. Sept., 2500 to 3000, Z. P. M.

*DRAECULOCEPHALA 7-GUTTATA*, WALK.

Raleigh, E. Nov., Z. P. M.; E. Aug., C. L. M.

*DRAECULOCEPHALA 7 GUTTATA*, WALK.

Raleigh, E. July, L. March, Z. P. M.

*DRAECULOCEPHALA RETICULATA*, SIGN.

Raleigh, E. March, F. S.; L. Sept. to L. Nov.,  
Z. P. M.

Southern Pines, Jan., F. S.

*EUCANTHUS ACUMINATUS*, FABR.

Canton, June, F. S.

## SUB-FAMILY GYPONINA

*XEROPHLOEA VIRIDIS*, FABR.

Raleigh, L. July, Z. P. M.

*XEROPHLOEA MAJOR*, BAK.

Raleigh, Mid. Sept., E. Oct., Z. P. M.

Yonahlossee Road, Mid. Sept., C. L. M.

*GYPONA 8-LINEATA*, SAY.

Raleigh, E. to Mid. Sept., Z. P. M.

Highlands, Sept., F. S.

Andrews, L. July, F. S.

Southern Pines, L. June, A. H. M.

Waynesville, Mid. Sept., about 3000 ft., Z. P. M.

Balsam, 5000 to 5500, Mid. Sept., Z. P. M.

*GYPONA STRIATA*, BURM.

Raleigh, Mid. Oct., G. M. B.; L. Aug., Z. P. M.

Highlands, E. July, F. S.

*GYPONA PECTORALIS*, SPANGB.

Raleigh, June, F. S.

Cedar Grove, Mid., June, F. S.

Black Mountain, L. May, F. S.

*GYPONA WOODWORTHII*, VAN D.

Balsam, Mid. Sept., about 4000 ft., Z. P. M.

*PENTHEMIA AMERICANA*, FITCH.

Black Mountain, L. May, F. S.

Hendersonville, June, F. S.

## FAMILY JASSIDAE

## SUB-FAMILY ACOCEPHALINA

*XESTOCEPHALUS PULICARIUS*, VAN D.

Waynesville, 2500 to 3000 ft., Z. P. M.

*XESTOCEPHALUS TESSELLATUS*, VAN D.

N. C., Van D.

Balsam, 4000 to 5000 ft., Mid. Sept., Z. P. M.

## SUB-FAMILY JASSINAE

*SPANGBERGIELLA VULNERATUS*, UHL.

Raleigh, L. June to L. Aug., Z. P. M.

*PARABOLOCRATUS FLAVIDUS*, SIGN.

Raleigh, L. June to E. Sept., Z. P. M.

*PLATYMETOPIUS CINEREUS*, O. & B.

N. C., Z. P. M.

*PLATYMETOPIUS CUPRESCENS*, OSB.

N. C., Z. P. M.

*PLATYMETOPIUS ACUTUS*, SAY.

Raleigh, L. May, F. S.

Hendersonville, June, F. S.

Waynesville (Rocky Knob), 4000 to 5000 ft., Mid. Sept., Z. P. M.

Balsam, 4000 to 5000 ft., Mid. Sept., Z. P. M.

*PLATYMETOPIUS FRONTALIS*, VAN D.

Raleigh, L. June, F. S.

Andrews, Mid. May, F. S.

*PLATYMETOPIUS VERECUNDUS*, VAN D.

N. C., Z. P. M.

*EUTETTIX SUBAENEA*, VAN D.

Raleigh, Mid. Aug., Mid. Sept., E. Nov., Z. P. M.;

E. July, F. S.

Swannanoa, Mid. July, Z. P. M.

Waynesville (Rocky Knob), Mid. Sept., Z. P. M.,  
3500 to 4000 ft.*EUTETTIX SEMINUDA*, SAY.

Raleigh, Mid. July, F. S.; Early July, Z. P. M.

*EUTETTIX MODESTA*, O. & B.

N. C., Fisk.

- PHLEPSIUS SUPERBUS, VAN D.  
N. C., Van D.
- PHLEPSIUS EXCULTUS, UHL.  
Raleigh, E. July, F. S.
- PHLEPSIUS TRUNCATUS, VAN D.  
N. C., Van D.
- PHLEPSIUS IRRORATUS, SAY.  
Raleigh, Early June, F. S.; Mid. July, F. S.; L.  
May, F. S.  
Hendersonville, June, F. S.  
Whiteville, L. July, R. S. W.
- PHLEPSIUS FULVIDORSUM, FITCH.  
N. C., Z. P. M.
- ACINOPTERUS ACUMINATUS, VAN D.  
N. C., Van D.  
Raleigh, E. July to E. Nov., Z. P. M.  
Stem, E. Oct., Z. P. M.
- SCAPHOIDEUS SANCTUS, SAY.  
Raleigh, E. Aug., C. L. M.
- SCAPHOIDEUS AURONITENS, PROV.  
Montreat, 2500 to 3000 ft., L. Sept., Z. P. M.  
Balsam, 4500 to 5000 ft., Mid. Sept., Z. P. M.
- SCAPHOIDEUS JUCUNDUS, UHL.  
Raleigh, Mid. Sept., Z. P. M.  
Tryon, Fisk.
- SCAPHOIDEUS CONSORS, UHL.  
Tryon, Fisk.
- SCAPHOIDEUS LOBATUS, VAN D.  
Balsam, Mid. Sept., Z. P. M.
- SCAPHOIDEUS PRODUCTUS, OSB.  
Balsam, 4500-5000, Z. P. M.  
Tryon, Fisk.

- SCAPHOIDEUS CARINATUS, OSB.  
Tryon, Fisk.  
Black Mountain, Beutenmuller.
- SCAPHOIDEUS NIGRICANS, OSB.  
Raleigh, L. May, Z. P. M. (Type locality).
- SCAPHOIDEUS IMMISTUS, SAY.  
Raleigh, E. Aug., Z. P. M.  
Waynesville (Rocky Knob), Mid. Sept., 3500 to 4000 ft., Z. P. M.
- DELTOCEPHALUS REFLEXUS, O. & B.  
Raleigh, L. June, Mid. Aug., Mid. Sept., E. Oct., E. Nov., Z. P. M.
- DELTOCEPHALUS SAYI, FITCH.  
Grandfather Mountain, Mid. Sept., about 5000 ft., Z. P. M.
- DELTOCEPHALUS MINIMUS, O. & B.  
Andrews, Mid. May, F. S.
- DELTOCEPHALUS INIMICUS, SAY.  
Raleigh, L. Aug., Z. P. M.  
Blowing Rock, E. Sept., 3500 to 4000 ft., Z. P. M.  
Grandfather Mountain, 4000 to 5000 ft., Mid. Sept., Z. P. M.  
Balsam (Jones' Peak), about 4000 ft., Z. P. M.; 4000 to 5000 ft., Z. P. M.
- DELTOCEPHALUS WEEDI, VAN D.  
Raleigh, Mid. Sept., E. Oct., E. July, L. July, E. Oct., Z. P. M.; E. Sept., F. S.  
Stem, E. Oct., Z. P. M.  
Grandfather Mountain, about 5000 ft., Mid. Sept., Z. P. M.  
Waynesville, E. Sept., Z. P. M.  
Balsam, 4500 to 5000 ft., Mid. Sept., Z. P. M.
- DELTOCEPHALUS COMPACTUS, OSB.  
Raleigh, Mid. Sept., Z. P. M.

*DELTOCEPHALUS FLAVOCOSTATUS*, VAN D.

Raleigh, L. June, E. Sept., F. S.

Balsam, about 4000 ft., Mid. Sept., Z. P. M.

Hendersonville, June, F. S.

Waynesville, Mid. Sept., 2500 to 3000 ft., Z. P. M.

*DELTOCEPHALUS OBTECTUS*, O. & B.Raleigh, L. June, F. S.; Mid. June to L. Aug.,  
Z. P. M.*DELTOCEPHALUS PERPUNCTATUS*, VAN D.

N. C., F. S.

*DELTOCEPHALUS AREOLATUS*, BALL.

Raleigh, Mid. Aug., E. Nov., Z. P. M.

*DELTOCEPHALUS SYLVESTRIS*, O. & B.

Raleigh, E. Nov., Z. P. M.

Andrews, Mid. May, F. S.

*DELTOCEPHALUS NIGRIFRONS*, FORBES.

Raleigh, E. July to E. Nov., Z. P. M.

Grandfather Mountain, about 5000 ft., Mid. Sept.,  
Z. P. M.

Balsam, 3500 to 5000 ft., Mid. Sept., Z. P. M.

Andrews, Mid. May, F. S.

Stem, E. Oct., Z. P. M.

*GONIAGNATHUS PALMERI*, VAN D.

N. C., Van D.

Raleigh, E. Aug., C. L. M.; E. July, Z. P. M.

*ATHYSANUS EXITIOSUS*, UHL.Raleigh, Mid. Sept., L. July, Z. P. M.; E. July,  
L. March, F. S.

Waynesville (Rocky Knob), Mid. Sept., Z. P. M.

Statesville, April, F. S.

Hendersonville, June, F. S.

Stem, E. Oct., Z. P. M.

Balsam (Jones' Peak), about 4000 ft., Mid. Sept.,  
Z. P. M.

*ATHYSANUS CURTISII*, FITCH.

Grandfather Mountain, 4000 ft., E. Sept., F. S.

Waynesville, 2500 to 3000 ft., Mid. Sept., Z. P. M.

*ATHYSANUS BICOLOR*, VAN D.

Raleigh, Mid. June, E. July, E. Sept., F. S.

Stem, E. Oct., Z. P. M.

*ATHYSANUS OBTUTUS*, VAN D.

Raleigh, E. Nov., Z. P. M.; Mid. April, F. S.; E. March, L. March, Z. P. M.

Statesville, Mid. April, F. S.

Balsam, 5000 to 5500 ft., Mid. Sept., Z. P. M.

*THAMNOTETTIX CLITELLARIUS*, SAY.

Raleigh, Mid. May, Z. P. M.

Balsam, Mid. Sept., 3500 to 4000 ft., Z. P. M.

Franklin, Mid. May., F. S.

*THAMNOTETTIX KENNICOTTI*, UHL.

Raleigh, E. Aug., C. L. M.; E. July, F. S.; L. July, E. Nov., Z. P. M.

Hendersonville, June, F. S.

Balsam, Mid. Sept., 4500 to 5000 ft., Z. P. M.

*THAMNOTETTIX FITCHI*, VAN D.

Hendersonville, June, F. S.

Jefferson, Mid. Aug., F. S.

*THAMNOTETTIX BRITTONI*, OSB.

N. C., Z. P. M.

*CHLOROTETTIX VIRIDIA*, VAN D.

N. C., Van D.

Raleigh, E. July to E. Nov., Z. P. M.

Stem, E. Oct., Z. P. M.

Balsam, Mid. Sept., about 4000 ft., Z. P. M.

*CHLOROTETTIX GALBANATA*, VAN D.

Raleigh, L. June, Z. P. M.

Waynesville, 2500 to 3000 ft., Mid. Sept.



*CHLOROTETTIX SPATULATA*, O. & B.

Raleigh, Mid. Aug., Z. P. M.

*CHLOROTETTIX NECOPINA*, VAN D.

Raleigh, E. July to Mid. Sept., Z. P. M.

*JASSUS OLITORIUS*, SAY.

Raleigh, E. Aug. to E. Nov., Z. P. M.

Whiteville, July, R. S. W.

Highlands, E. Sept., R. S. W.

Andrews, Aug. F. S.,

Stem, E. Oct., Z. P. M.

Montreat, 2500 to 3000 ft., L. Sept., Z. P. M.

Grandfather Mountain, 5000 to 5500 ft., Mid. Sept.,  
Z. P. M.

Lake Waccamaw, Mid. April, F. S.

Waynesville, Mid. Sept., about 3000 ft., Z. P. M.

Balsam, Mid. Sept., 4500 to 5000 ft., Z. P. M.

Balsam (Jones' Peak), 4500 to 5000 ft., Mid. Sept.,  
Z. P. M.*TINOBRGMUS VITTATUS*, VAN D.

Beaufort, E. June, F. S.

*BALCLUTHA PUNCTATUS*, THUMBG.

Blantyre, E. May, F. S.

*EUGNATHODUS ABDOMINALIS*, VAN D.

N. C., F. S.

*CICADULA 6-NOTATA*, FALL.

Raleigh, E. Aug., Z. P. M.

Hendersonville, June, F. S.

Blowing Rock, 3500 to 4000, E. Sept., Z. P. M.

Grandfather Mountain, about 5000 ft., Sept., Z. P. M.

Balsam, Mid. Sept., 3500 to 4000, Z. P. M.

Stem, E. Oct., Z. P. M.

*CICADULA SLOSSONI*, VAN D.

Balsam, Mid. Sept., 4500 to 5000, Z. P. M.

Hendersonville, June, F. S.

PARACOELEDIA TUBERCULATA, G. & B.

Raleigh, L. June, R. S. W.

DRIATURA ROBUSTA, O. & B.

Raleigh, E., L. July, E., Mid. and L. Aug., Z. P. M.;  
Mid. Aug., C. L. M.

DRIATURA GAMMAROIDEA, VAN D.

Raleigh, L. July, Mid. and L. Aug., Z. P. M.

#### SUB-FAMILY TYPHLOCYBINA

EMPOASCA VIRIDESCENS, WALSH.

Raleigh, E. Aug., Z. P. M.

EMPOASCA MALI, LE B.

Hendersonville, June, F. S.

EMPOASCA SPLENDIDA, GILL.

Hendersonville, June, F. S.

DICRANEURA ABNORMIS, WALSH.

Raleigh, L. March, Z. P. M.

DICRANEURA FIEBERI, LOW.

Raleigh, Mid. April, F. S.

Blantyre, E. May, F. S.

TYPHLOCYBA COMES, SAY.

Raleigh, Mid. Aug., F. S.; Mid. Sept., Z. P. M.

TYPHLOCYBA TRICINCTA, FITCH.

Raleigh, Mid. Sept., Z. P. M.

TYPHLOCYBA ILLINOIENSIS, GILL.

Southern Pines, Jan. and E. July, F. S.