

ORTHOPTERA AND NEUROPTERA IN LINCOLNSHIRE AND
NOTTINGHAMSHIRE.

BY ELAND SHAW, M.R.C.S., F.E.S., &c.

But scant attention seems to have been given to the Orthopterous and Neuropterous fauna of these counties, and residing during the last two years in North Notts., an opportunity has been given me of collecting the already existing information on the subject; and this, with the addition of a few observations of my own, has resulted in the compilation of the following lists. For this opportunity I have to thank the Rev. Alfred Thornley, of South Leverton, who not only placed in my hands the records of the Lincolnshire Naturalists' Union, and his own records for Nottinghamshire, but generously presented me with his collection of local *Neuroptera*.

As regards the *Orthoptera* the determination of the species from Lincolnshire has been made either by Mr. G. T. Porritt or by myself; whilst I am responsible for the Notts. examples, with the exception of *Stylopyga decorata*, Br., which Mr. Malcolm Burr named for me. The great majority of the *Neuroptera* from both counties have been named by Mr. Porritt, some few by Mr. R. McLachlan, and the *Ephemeridæ* by the Rev. A. E. Eaton.

The only previous publication I know of bearing on the subject of this paper (except a few occasional notes) is a list of the "*Orthoptera*, *Neuroptera*, and *Trichoptera* of the Alford District of North Lincolnshire," published in "The Naturalist" for May, 1896, pp. 129—132, from the records of Mr. James Eardley Mason, and all the localities mentioned therein are included in the present lists.

No list of the Nottinghamshire species has, as far as I am aware, been published.

The number of species here recorded is:—Lincolnshire: *Orthoptera*, 17; *Neuroptera*, 71. Nottinghamshire: *Orthoptera*, 14; *Neuroptera*, 77.

The name of the captor is given in brackets after that of the locality; and to save space the following initials are used:—

(F. A.) F. Altoft, (J. W. C.) J. W. Carr, (R. T. C.) R. T. Cassal (R. W. G.) R. W. Goulding, (J. T. H.) J. T. Houghton, (H. W. K.) H. Wallis Kew, (J. E. M.) J. E. Mason, (E. A. W. P.) E. A. W. Peacock, (M. P.) Max. Peacock, (S. P.) Stephen Pegler, (A. S.) Arthur Smith, (E. S.) Eland Shaw, (A. T.) Alfred Thornley.

LINCOLNSHIRE.

ORTHOPTERA.

FORFICULIDÆ.—*Labia minor*, Linn., Alford (J. E. M.). *Forficula auricularia*, Linn., generally distributed.

BLATTIDÆ.—*Phyllodromia germanica*, Linn., Lincoln (J. E. M.). *Stylopyga orientalis*, Linn., Alford, Bilsby (J. E. M.); Cadney, Bottesford (E. A. W. P.); Lincoln (E. S.). *Periplaneta australasia*, Fab., Louth (J. Larder).

ACRIDIDÆ.—*Stenobothrus viridulus*, Linn., Mumby Chapel (J. E. M.); Louth (H. W. K.); Brumby Common, Burringham, Cabourne (E. S.); Scotton Common, Manton Common (A. T.); *S. bicolor*, Chp., generally distributed; *S. elegans*, Chp., Mablethorpe (H. W. K.); Kirton Wash near Boston (A. T.); Ingoldmells (E. A. W. P.); Well Vale, Mumby Chapel (J. E. M.); *S. parallelus*, Zett., generally distributed. *Gomphocerus maculatus*, Thunb., Manton Common (A. T.); Linwood Common (E. A. W. P.); Brumby Common, Sweetingthorne Wood, Torksey, Loughterton (E. S.). *Pachytylus migratorius*, Linn., Withern (H. W. K.). *Tettix bipunctatus*, Linn., Linwood Warren (A. T.); Manton Common, Scotton Common (E. A. W. P.); Grantham (Records Lines. Nat. Union), Mumby Chapel (J. E. M.); Alford (Edw. Woodthorpe); Market Rasen (R. T. C.); Skellingthorpe Wood, Ashby (E. S.).

LOCUSTIDÆ.—*Leptophyes punctatissima*, Bosc, Little Bytham (Stow); Gate Burton, Skellingthorpe Wood (E. S.). *Thamnotrizon cinereum*, Linn., Lincolnshire (H. W. K.), Linwood (R. W. G.). *Platyceles Roeseli*, Hagenb., Trusthorpe (H. W. K.).

GRYLLIDÆ.—*Gryllus domesticus*, Linn., Market Rasen, Louth, Burgh-on-Bain (C. S. Carter); Bottesford, Caistor (E. A. W. P.). *Gryllotalpa vulgaris*, Latr., Grimsby (G. Hicks).

PSEUDO-NEUROPTERA.

PSOCIDÆ.—*Elipsocus unipunctatus*, Müll., Alford (J. E. M.).

PERLIDÆ.—*Chloroperla grammatica*, Poda, Cadney (*vide* A. T.). *Nemoura variegata*, Oliv., Aby-with-Greenfield, Well (J. E. M.); Torksey (A. T.); *N. Meyeri*, Pict., Grantham (E. A. W. P.); *N. cinerea*, Oliv., Well (J. E. M.).

EPHEMERIDÆ.—*Ephemerula vulgata*, Linn., Freshney bogs, Brocklesby (A. S.); Bottesford (M. P.); Cadney (E. A. W. P.); *E. danica*, Müll., Cadney (E. A. W. P.). *Clæon dipterum*, Linn., S. Kelsey (*vide* A. T.). *Centroptilum luteolum*, Müll., Brant Broughton (E. S.).

ODONATA.—*Leucorrhinia dubia*, Lind. ("Lincolnshire," J. C. Dale), Brigg (W. Harcourt Bath). *Sympetrum striolatum*, Chp., Manton Common (M. P.); Mablethorpe, Scunthorpe (Records Lines. Nat. Union), Gate Burton (E. S.); Ashby (R. T. C.); Hartsholme (*vide* A. T.); Muckton Wood (J. E. M.); *Sym. scoticum*, Don., Cadney (A. T.). *Libellula depressa*, Linn., Ancaster Woods (E. Watt); Grimsby (A. S.). *Brachytron pratense*, Müll., Louth (R. W. G.); Marton drain (A. T.). *Æschna juncea*, Linn., Alford (J. E. M.); *Æsch. cyanea*, Müll., Cadney, Somerby, South Kelsey (E. A. W. P.); Linwood (R. W. G.); *Æsch. grandis*, Linn., Cadney (M. P.). *Calopteryx splendens*, Harr., Torksey (A. T.). *Lestes dryas*, Kirby, Brandon (Miss Stow) (E. S.); *L. sponsa*, Mablethorpe, Scunthorpe (Records Lines. Nat. Union); Cadney (M. P.); Brandon (E. S.); Barnetby (Philip Burton). *Erythromma najas*, Hansem, ("Lincolnshire," Stephen), Lucas, Brit. Dragon-flies, p. 252. *Pyrrosoma nymphula*, Sulz., Theddlethorpe, Trusthorpe, Freshney bogs (A. T.); Cadney (E. A. W. P.); Ludborough (A. S.); Gate Burton, Marton drain (E. S.); Horncastle (Records Lines. Nat. Union). *Ischnura elegans*, Lind., Mumby

Chapel (J. E. M.); Theddlethorpe, Newton Cliff (A. T.); Brocklesby (A. S.); Cadney (M. P.); Marton drain, Brandon (E. S.); Burton by Lincoln (J. E. M.); Horncastle (Records Lincs. Nat. Union). *Agrion puella*, Linn., Theddlethorpe, Trusthorpe, Freshney bogs, Newton Cliff, Marton drain (A. T.), Ashby (R. T. C.); Cadney, S. Kelsey (M. P.); Ludborough (A. S.); Brandon (Miss Stow); Mablethorpe (Records Lincs. Nat. Union).

NEUROPTERA—PLANIPENNIA.

Sialis lutaria, Linn., Well, Farlesthorpe (J. E. M.); Freshney bogs (A. T.); Cadney, Hibaldstow (E. A. W. P.); Little Cotes, Brocklesby (A. S.); Bottesford (M. P.). *Raphidia xanthostigma*, Schum., Linwood (E. A. W. P.); *Sisyra fuscata*, Fab., Linwood (E. A. W. P.); *Micromus paganus*, Linn., Alford (J. E. M.). *Hemerobius micans*, Oliv., Well (J. E. M.); Cabourn (E. S.); *H. humuli*, Linn., Well (J. E. M.); Cabourn (E. S.); *H. stigma*, Steph., Ancaster (*vide* A. T.); Linwood (E. A. W. P.); *H. subnebulosus*, Steph., Alford (J. E. M.); Hallinton (H. W. K.); *H. nervosus*, Fab.—Alford (J. E. M.). *Chrysopa flava*, Scop., Ashby (R. T. C.); *C. alba*, Linn., Aby-with-Greenfield (J. E. M.); *C. flavifrons*, Brauer, Greenfield (F. A.); *C. septempunctata*, Wesm., Alford (J. E. M.); Greenfield (F. A.); *C. aspersa*, Wesm., Cadney (E. A. W. P.); *C. ventralis*, Curt., Ancaster (*vide* A. T.); *C. phyllochroma*, Wesm., Torksey (A. T.); Cadney (E. A. W. P.); *C. perla*, Linn.; Greenfield (F. A.); Horncastle (*vide* A. T.); Gainsborough (A. T.). *Nothochrysa fulviceps*, Authorpe (F. A.); *N. capitata*, Tothill Wood (J. E. M.). *Panorpa communis*, Linn., Freshney bogs, Great Cotes (A. T.); Ashby (R. T. C.); Ludborough (A. S.); Maltby Wood (R. W. G.); Cadney (E. A. W. P.); *P. germanica*, Linn., Well (J. E. M.); Greenfield (F. A.); Peaks (A. S.); Ashby (R. T. C.); Kirtton, Freshney bogs (*vide* A. T.); Cadney (E. A. W. P.).

TRICHOPTERA.

Neuronia ruficrus, Scop., Cadney (E. A. W. P.). ? *Phryganea grandis*, Linn., Louth, cases (H. W. K.). *Colpotaulius incisus*, Curt., Bilsby (J. E. M.); Newton Cliff, Marton drain (E. S.). *Grammotaulius atomarius*, Fab., Alford, Sutton-le-Marsh (J. E. M.). *Glyptotetilius pellucidus*, Retz., Well (J. E. M.); Ashby (R. T. C.). *Limnophilus rhombicus*, Linn., Alford (J. E. M.); Little Cotes (A. S.); Revesby (R. W. G.); *L. flavicornis*, Fabr., Torksey, Marton drain (A. T.); *L. marmoratus*, Curt., Ashby (R. T. C.); *L. stigma*, Curt., Marton drain (A. T.); *L. lunatus*, Curt., Alford (J. E. M.); Ashby (R. T. C.); Cadney (E. A. W. P.); *L. vittatus*, Fab., Anthorpe, Haugh (J. E. M.); Torksey (A. T.); Gate Burton (E. S.); *L. affinis*, Curt., Skellingthorpe Wood (E. S.); *L. auricula*, Curt., Linwood (*vide* A. T.); *L. extricatus*, McLach., Gate Burton (E. S.); *L. hirsutus*, Pict., Great Cotes (*vide* A. T.); *L. sparsus*, Curt., Alford (J. E. M.); Grantham, Mablethorpe (*vide* A. T.). *Stenophylax permistus*, McLach., Skellingthorpe Wood (E. S.). *Micropterna lateralis*, Steph., Greenfield (F. A.); *Micr. sequax*, McLach., Ashby (R. T. C.). *Halesus digitatus*, Schr., Louth (R. W. G.). *Chatopteryx villosa*, Fabr., Well (J. E. M.). *Silo pallipes*, Fabr., Great Cotes (*vide* A. T.). *Leptocerus annulicornis*, Steph., Gate Burton (E. S.); *L. aterrimus*, Steph., Caistor (E. S.); *L. dissimilis*, Steph., Sudbrooke (J. E. M.). *Hydropsyche angustipennis*, Curt., Horncastle (*vide* A. T.); Gate Burton (A. T.).

NOTTINGHAMSHIRE.

ORTHOPTERA.

FORFICULIDÆ.—*Labia minor*, Linn., S. Leverton (A. T.); near Nottingham (Sturges Dodd); Sturton-le-Steeple (E. S.). *Forficula auricularia*, Linn., S. Leverton (A. T.); N. Leverton, North Clifton, Cottam (E. S.).

BLATTIDÆ.—*Periplaneta americana*, Linn., Worksop (J. T. H.); *P. australasia*, Wiseton (E. S.). *Stylopyga orientalis*, Linn., N. Leverton (E. S.); Nottingham (J. W. C.); *S. decorata*, Brunner, Worksop (J. T. H.).

ACRIDIDÆ.—*Stenobothrus viridulus*, Linn., Kingston-on-Soar (A. T.); Edwinstowe, Osberton (E. S.); *S. bicolor*, Chp., Retford (S. P.); S. Leverton (A. T. and E. S.); Thorney (J. W. C.); Kingston-on-Soar, Everton (A. T.); Cottam, N. Leverton, Nottingham, Clarbrough, Rampton (E. S.); *S. parallelus*, Zett., Retford district, Kingston-on-Soar (A. T.); Treswell Wood (A. T. and E. S.); Thorney (J. W. C.); Clarbrough, Cottam (E. S.). *Gomphoceris maculatus*, Thunb., Edwinstowe, Everton (A. T.); Wheatley (Rev. T. Chamberlin). *Tettix bipunctatus*, Linn., Retford (S. P.); Burton Joyce (J. W. C.).

LOCUSTIDÆ.—*Leptophyes punctatissima*, Bose, S. Leverton, Treswell Wood (A. T.); N. Leverton (E. S.), *Meconema varium*, Fabr., Treswell Wood (A. T. and E. S.); Aspley Woods (A. T.).

GRYLLIDÆ.—*Gryllus domesticus*, Linn., Nottingham (J. W. C.).

PSEUDO-NEUROPTERA.

PERLIDÆ.—*Chloroperla grammatica*, Poda, Clumber (S. P.). *Nemoura variegata*, Oliv., S. Leverton (A. T.); N. Leverton, Treswell Wood (E. S.); *N. Meyeri*, Pict., S. Leverton (A. T.).

EPHEMERIDÆ.—*Ephemera vulgata*, Linn., Babworth (J. W. C.); *E. danica*, Müll., Gonalston (J. W. C.). *Clæon dipterum*, Linn., N. Leverton, S. Leverton (A. T.); *C. simile*, Etn., Osberton (E. S.). *Baëtis vernus*, Curt., Clifton Grove (*vide* A. T.).

ODONATA.—*Sympetrum striolatum*, Chp., Treswell Wood, Retford (A. T.). *Libellula depressa*, Linn., S. Leverton, Treswell Wood (A. T.); Widmerpool (J. W. C.); *L. quadrimaculata*, Linn., N. Leverton (E. S.). *Æschna cyanea*, Müll., Treswell, S. Leverton, Stokeham (A. T.); Shireoaks (J. T. H.); *Æ. grandis*, Linn., Chilwell (*vide* A. T.). *Calopteryx splendens*, Harr., Cottam (A. T.); Rampton, Littleborough (A. T. and J. W. C.); Treswell Wood (E. S.). *Pyrrosoma nymphula*, Sulz., Treswell Wood (A. T.); Shireoaks (J. T. H.). *Ischnura elegans*, Lind., S. Leverton, Retford (A. T.); Saundby (E. S.); Shireoaks (J. T. H.). *Agrion pulchellum*, Lind., Saundby (E. S.); *A. puella*, Linn., S. Leverton, N. Leverton, Retford, Treswell Wood (A. T.); Saundby, Cottam, Cossall (E. S.); Shireoaks (J. T. H.).

NEUROPTERA-PLANIPENNIA.

Sialis lutaria, Linn., Retford (A. T.); Rainworth (J. W. C.); N. Leverton, Cottam (E. S.); *S. fuliginosa*, Pict., Eaton (J. W. C.). *Raphidia notata*, Fabr., Treswell Wood (A. T.); *R. xanthostigma*, Schum., Treswell Wood (A. T.). *Micromus paganus*, Linn., Treswell Wood (A. T.); Shireoaks (J. T. H.). *Hemerobius micans*, Oliv., S. Leverton, N. Leverton (A. T.); Treswell Wood (E. S.); H.

humuli, Linn., S. Leverton (A. T.); Treswell Wood (E. S.); Worksop (J. T. H.); *H. subnebulosus*, Steph., S. Leverton (A. T.); Shireoaks, Worksop (J. T. H.); Nottingham (J. W. C.); *H. nervosus*, Fab., S. Leverton (A. T.); Shireoaks (J. T. H.). *Chrysopa flava*, Scop., S. Leverton, N. Leverton, Treswell Wood (E. S.); Shireoaks (J. T. H.); *C. alba*, Linn., S. Leverton, Treswell Wood (A. T.); N. Leverton (E. S.); Shireoaks (J. T. H.); *C. tenella*, Schnd., Shireoaks (J. T. H.); *C. vulgaris*, Schnd., S. Leverton (A. T.); Shireoaks (J. T. H.); *C. septempunctata*, Wesm., N. Leverton (E. S.); Shireoaks (J. T. H.); *C. aspersa*, Wesm., S. Leverton (A. T.); *C. ventralis*, Curt., S. Leverton (A. T.); Shireoaks (J. T. H.); *C. phyllochroma*, Wesm., Shireoaks (J. T. H.); *C. perla*, Linn., S. Leverton, Langford Moor (A. T.); Treswell Wood (E. S.). *Panorpa communis*, Linn., S. Leverton, Treswell Wood (A. T.); Strelly (J. W. C.); *P. germanica*, Linn., S. Leverton, Treswell Wood (A. T.); Edwinstowe (E. S.); Ollerton (J. W. C.); Worksop (J. T. H.).

TRICHOPTERA.

Neuronia ruficus, Scop., Worksop (J. T. H.); Widmerpool (J. W. C.); *Phryganea grandis*, Linn., Shireoaks (J. T. H.); *P. varia*, Fabr., Shireoaks (J. T. H.). *Grammotaulius atomarius*, Fabr., Wellow (J. W. C.); Shireoaks (J. T. H.); N. Leverton, S. Leverton (E. S.). *Glyptotælius pellucidus*, Retz., Treswell, S. Leverton (E. S.). *Linnophilus rhombicus*, Linn., Shireoaks (J. T. H.); *L. flavicornis*, Fabr., S. Leverton (E. S.); *L. marmoratus*, Curt., S. Leverton (A. T.); Shireoaks (J. T. H.); *L. lunatus*, Curt., S. Leverton (A. T.); Shireoaks (J. T. H.); N. Leverton, Cottam (E. S.); *L. politus*, McLach., Cottam (E. S.); *L. vittatus*, Fabr., S. Leverton, Treswell Wood (A. T.); N. Leverton (E. S.); *L. affinis*, Curt., S. Leverton (A. T.); *L. auricula*, Curt., S. Leverton, N. Leverton (A. T.); Shireoaks (J. T. H.); Rampton (E. S.); *L. hirsutus*, Pict., Shireoaks (J. T. H.); *L. sparsus*, Curt., S. Leverton (A. T.); Shireoaks (J. T. H.); Treswell Wood (E. S.). *Anabolia nervosa*, Curt., S. Leverton, Retford (A. T.); Shireoaks (J. T. H.); Edwinstowe (E. S.). *Stenophylax stellatus*, Curt., Shireoaks (J. T. H.); *S. permistus*, McLach., S. Leverton (A. T.); Epperstone Park (J. W. C.). *Micropterna sequax*, McLach., S. Leverton (A. T.). *Halesus radialis*, Curt., Shireoaks, Worksop (J. T. H.); Edwinstowe (E. S.). *Goëra pilosa*, Fabr., Shireoaks (J. T. H.). *Silo pallipes*, Fabr., Misterton (A. T.). *Brachycentrus subnubilus*, Curt., Retford (A. T.). *Molanna angustata*, Curt., Clumber Park (E. S.). *Odontocerum albicorne*, Scop., Shireoaks (J. T. H.). *Leptocerus aterrimus*, Steph., Rampton (E. S.); Shireoaks (J. T. H.); *L. cinereus*, Curt., W. Drayton (E. S.); Worksop (J. T. H.); *L. albifrons*, Linn., W. Drayton (E. S.); *L. bilineatus*, Linn., Rampton (E. S.). *Mystacides azurea*, Linn., Retford (A. T.); W. Drayton (E. S.); *M. longicornis*, Linn., W. Drayton, Cossall (E. S.). *Hydropsyche instabilis*, Curt., Notts. (J. T. H.); *H. angustipennis*, Curt., Retford (A. T.); Radcliffe-on-Trent, Bunny (J. W. C.); Rampton, Cottam (E. S.); *H. guttata*, Pict., Marnham (A. T.). *Plectrocnemia conspersa*, Curt., Nottinghamshire (J. T. H.). *Polycentropus flavomaculatus*, Pict., Retford (E. S.); Radcliffe-on-Trent (J. W. C.). *Cyrnus trimaculatus*, Curt., W. Drayton (E. S.). *Tinodes Wæneri*, Linn., Shireoaks, Worksop (J. T. H.); Osberton (E. S.). *Agraylea multipunctata*, Curt., Rampton (E. S.).

Bibliography of the Neuropterida

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