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**The Victoria History of the
Counties of England**

EDITED BY WILLIAM PAGE, F.S.A.

**A HISTORY OF
SUFFOLK**

IN SIX VOLUMES

VOLUME I

THE
VICTORIA HISTORY
OF THE COUNTIES
OF ENGLAND

SUFFOLK



DAWSON
FOR
THE UNIVERSITY OF LONDON
INSTITUTE OF HISTORICAL RESEARCH

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INSCRIBED
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HER LATE MAJESTY
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WHO GRACIOUSLY GAVE
THE TITLE TO AND
ACCEPTED THE
DEDICATION OF
THIS HISTORY

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GENERAL ADVERTISEMENT

The VICTORIA HISTORY of the Counties of England is a National Historic Survey which, under the direction of a large staff comprising the foremost students in science, history, and archaeology, is designed to record the history of every county of England in detail. This work was, by gracious permission, dedicated to Her late Majesty Queen Victoria, who gave it her own name. It is the endeavour of all who are associated with the undertaking to make it a worthy and permanent monument to her memory.

Rich as every county of England is in materials for local history, there has hitherto been no attempt made to bring all these materials together into a coherent form.

Although from the seventeenth century down to quite recent times numerous county histories have been issued, they are very unequal in merit; the best of them are very rare and costly; most of them are imperfect and many are now out of date. Moreover, they were the work of one or two isolated scholars, who, however scholarly, could not possibly deal adequately with all the varied subjects which go to the making of a county history.

In the VICTORIA HISTORY each county is not the labour of one or two men, but of many, for the work is treated scientifically, and in order to embody in it all that modern scholarship can contribute, a system of co-operation between experts and local students is applied, whereby the history acquires a completeness and definite authority hitherto lacking in similar undertakings.

The names of the distinguished men who have joined the Advisory Council are a guarantee that the work represents the results of the latest discoveries in every department of research, for the trend of modern thought insists upon the intelligent study of the past and of the social, institutional, and political developments of national life. As these histories are the first in which this object has been kept in view, and modern principles applied, it is hoped that they will form a work of reference no less indispensable to the student than welcome to the man of culture.

THE SCOPE OF THE WORK

The history of each county is complete in itself, and in each case its story is told from the earliest times, commencing with the natural features and the flora and fauna. Thereafter follow the antiquities, pre-Roman, Roman, and post-Roman; ancient earthworks; a new translation and critical study of the Domesday Survey; articles on political, ecclesiastical, social, and economic history; architecture, arts, industries, sport, etc.; and topography. The greater part of each history is devoted to a detailed description and history of each parish, containing an account of the land and its owners from the Conquest to the present day. These manorial histories are compiled from original documents in the national collections and from private papers. A special feature is the wealth of illustrations afforded, for not only are buildings of interest pictured, but the coats of arms of past and present landowners are given.

HISTORICAL RESEARCH

It has always been, and still is, a reproach that England, with a collection of public records greatly exceeding in extent and interest those of any other country in Europe, is yet far behind her neighbours in the study of the genesis and growth of her national and local institutions. Few Englishmen are probably aware that the national and local archives contain for a period of 800 years in an almost unbroken chain of evidence, not only the political, ecclesiastical, and constitutional history of the kingdom, but every detail of its financial and social progress and the history of the land and its successive owners from generation to generation. The neglect of our public and local records is no doubt largely due to the fact that their interest and value is known to but a small number of people, and this again is directly attributable to the absence in this country of any endowment for historical research. The government of this country has too often left to private enterprise work which our continental neighbours entrust to a government department. It is not surprising, therefore, to find that although an immense amount of work has been done by individual effort, the entire absence of organization among the workers and the lack of intelligent direction has hitherto robbed the results of much of their value.

In the VICTORIA HISTORY, for the first time, a serious attempt is made to utilize our national and local muniments to the best advantage by carefully organizing and supervising the researches required. Under the direction of the Records Committee a large staff of experts has been engaged at the Public Record Office in calendaring those classes of records which are fruitful in material for local history, and by a system of interchange of communication among workers under the direct supervision of the general editor and sub-editors a mass of information is sorted and assigned to its correct place, which would otherwise be impossible.

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In addition to a general map in several sections, each History contains Geological, Orographical, Botanical, Archaeological, and Domesday maps; also maps illustrating the articles on Ecclesiastical and Political Histories, and the sections dealing with Topography. The Series contains many hundreds of maps in all.

ARCHITECTURE

A special feature in connexion with the Architecture is a series of ground plans, many of them coloured, showing the architectural history of castles, cathedrals, abbeys, and other monastic foundations.

In order to secure the greatest possible accuracy, the descriptions of the Architecture, ecclesiastical, military, and domestic, are under the supervision of Mr. C. R. PEERS, M.A., F.S.A., and a committee has been formed of the following students of architectural history who are referred to as may be required concerning this department of the work:—

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VICTORIA HISTORY
OF THE COUNTY OF
SUFFOLK

EDITED BY
WILLIAM PAGE, F.S.A.

VOLUME ONE

DAWSON
FOR
THE UNIVERSITY OF LONDON
INSTITUTE OF HISTORICAL RESEARCH

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PREFACE

EST ANGLIA exhibits a peculiar difficulty to the county historian on account of the small size, and consequently the large number, of its parishes and manors. This is probably the cause of various unsuccessful attempts to write the history of Suffolk. Some of these efforts have so far matured as to reach the stage of the publication of one or two volumes, while others have not got beyond the stage of preliminary manuscript collections. The first to attempt a county history of Suffolk was John Gage, F.R.S., F.S.A., who, in 1838, took the name of Rokewode. He published, in 1822, *The History and Antiquities of Hengrave*, in which parish was the family seat of his father and afterwards of his elder brother. In 1838 he issued the first volume of his proposed larger work, *The History and Antiquities of Suffolk*, containing the history of the hundred of Thingoe, the only part of his history which reached publication. His work is careful and exhaustive, and it is much to be regretted that it was not completed. His valuable collections for the continuation of the work are now preserved at Hengrave Hall. The next to take up the history of the county was Alfred Inigo Fox, LL.B., who, in 1820, took the name of Suckling. He began the publication of his *History and Antiquities of Suffolk* in 1846, but, like Gage, he only completed the history of one hundred, that of Lothingland. Kirkby's *Suffolk Traveller*, published in 1848, and its later edition, with supplement by Augustine Page, published in 1844, cannot be strictly called county histories, although they contain much useful information. An admirable history of the county was undertaken by the late Mr. W. A. Coppinger, M.A., LL.D., F.S.A., who, in 1905, published *The Manors of Suffolk, with Notes on their History and Devolution*. This volume contains the history of the hundreds of Babergh and Blackburn. In 1908 the second volume, including the hundreds of Blything, Bosmere, and Claydon, appeared. Dr. Coppinger's *Materials for the History of Suffolk*, containing references to sources for a history of the county, is of great value to all those interested in the topography of Suffolk. Besides the printed histories of the county, there are several manuscript collections for histories, principal among which are those of David Elisha Davy, B.A., which were purchased by the British Museum in 1852 (Add. MSS. 19077–19207) ; of Davy's friend, H. Jermyn, which were presented to the British Museum by Herbert Gurney in 1830 (Add. MSS. 8168–96) ; and of Craven Ord, F.R.S., F.S.A., most of whose collections are also now in the British Museum (Add. MSS. 7101–2, 8986–7).

PREFACE

During the preparation of this volume the Editor has had to deplore the death of Mr. H. C. Sorby, LL.D., F.R.S., F.S.A., who left the rough draft of his article on the Marine Zoology of the county, the revision of the proofs of which was generously undertaken by the Rev. Canon Norman, D.C.L. The Editor also greatly regrets the loss of his old and much esteemed friend, Mr. George E. Fox, Hon. M.A., F.S.A., whose profound knowledge of Roman archaeology and kindly sympathy endeared him to a large circle of friends. Mr. Fox died before finally revising the proofs of his article on the Roman Remains of the county, for the correction of which the Editor is responsible. The late Canon Raven was to have written the articles on Early Man and the Anglo-Saxon Remains of the county, but died before commencing the work.

The Editor has to express his thanks to Lord Francis Hervey for advice and assistance ; to the Society of Antiquaries, the Suffolk Institute of Archaeology and Natural History, the British Archaeological Association, the Royal Archaeological Institute, the Prehistoric Society of East Anglia, Mr. C. D. Pridden, M.A., Mr. Frank Woolnough, Mr. W. Allen Sturge, M.V.O., M.D., F.R.C.P., and Miss Nina Layard, for illustrations and information ; and to Mr. Vincent Redstone for his ready help in many ways while passing the sheets through the press.

Owing to unforeseen circumstances there has been a delay in the publication of this volume ; hence it is possible that works issued during the past year, touching upon the subjects with which it deals, may not have been consulted.

TABLE OF ABBREVIATIONS

Abbrev. Plac. (Rec.	Abbreviatio Placitorum (Record Commission)	Chartul.	Chartulary
Com.)		Chas.	Charles
Acts of P.C. . . .	Acts of Privy Council	Ches.	Cheshire
Add.	Additional	Chest.	Chester
Add. Chart. . . .	Additional Charters	Ch. Gds. (Exch.	Church Goods (Exchequer
Admir.	Admiralty	K.R.)	King's Remembrancer)
Agarde	Agarde's Indices	Chich.	Chichester
Anct. Corresp. . .	Ancient Correspondence	Chron.	Chronicle, Chronica, etc.
Anct. D. (P.R.O.)	Ancient Deeds (Public Record Office) A 2420	Close	Close Roll
		Co.	County
Ann. Mon.	Annales Monastici	Colch.	Colchester
Antiq.	Antiquarian or Antiquaries	Coll.	Collections
App.	Appendix	Com.	Commission
Arch.	Archæologia or Archæological	Com. Pleas . . .	Common Pleas
Arch. Cant. . . .	Archæologia Cantiana	Conf. R.	Confirmation Rolls
Archd. Rec. . . .	Archdeacons' Records	Co. Plac.	County Placita
Archit.	Architectural	Cornw.	Cornwall
Assize R.	Assize Rolls	Corp.	Corporation
Aud. Off.	Audit Office	Cott.	Cotton or Cottonian
Aug. Off.	Augmentation Office	Ct. R.	Court Rolls
Ayloffe	Ayloffe's Calendars	Ct. of Wards . . .	Court of Wards
		Cumb.	Cumberland
Bed.	Bedford	Cur. Reg.	Curia Regis
Beds.	Bedfordshire	D.	Deed or Deeds
Berks.	Berkshire	D. and C.	Dean and Chapter
Bdle.	Bundle	De Banc. R. . . .	De Banco Rolls
B.M.	British Museum	Dec. and Ord. . .	Decrees and Orders
Bodl. Lib.	Bodley's Library	Dep. Keeper's Rep.	Deputy Keeper's Reports
Boro.	Borough	Derb.	Derbyshire or Derby
Brev. Reg.	Brevia Regia	Devon	Devonshire
Brit.	Britain, British, Britannia, etc.	Dioc.	Diocese
Buck.	Buckingham	Doc.	Documents
Bucks.	Buckinghamshire	Dods. MSS.	Dodsworth MSS.
		Dom. Bk.	Domesday Book
Cal.	Calendar	Dors.	Dorsetshire
Camb.	Cambridgeshire or Cambridge	Duchy of Lanc. . .	Duchy of Lancaster
Cambr.	Cambria, Cambrian, Cambrensis, etc.	Dur.	Durham
Campb. Chart. . .	Campbell Charters		
Cant.	Canterbury	East.	Easter Term
Cap.	Chapter	Eccl.	Ecclesiastical
Carl.	Carlisle	Eccl. Com.	Ecclesiastical Commission
Cart. Antiq. R. .	Cartæ Antiquæ Rolls	Edw.	Edward
C.C.C. Camb. . .	Corpus Christi College, Cambridge	Eliz.	Elizabeth
Certiorari Bdles. (Rolls Chap.)	Certiorari Bundles (Rolls Chapel)	Engl.	England or English
Chan. Enr. Decree R.	Chancery Enrolled Decree Rolls	Engl. Hist. Rev. .	English Historical Review
Chan. Proc. . . .	Chancery Proceedings	Enr.	Enrolled or Enrolment
Chant. Cert. . . .	Chantry Certificates (or Certificates of Colleges and Chantries)	Epis. Reg. . . .	Episcopal Registers
Chap. Ho.	Chapter House	Esch. Enr. Accts. .	Escheators Enrolled Accounts
Charity Inq. . . .	Charity Inquisitions	Excerpta e Rot. Fin. (Rec. Com.)	Excerpta e Rotulis Finium (Record Commission)
Chart. R. 20 Hen. III. pt. i. No. 10	Charter Roll, 20 Henry III. part i. Number 10	Exch. Dep. . . .	Exchequer Depositions
		Exch. K.B. . . .	Exchequer King's Bench
		Exch. K.R. . . .	Exchequer King's Remembrancer
		Exch. L.T.R. . . .	Exchequer Lord Treasurer's Remembrancer

TABLE OF ABBREVIATIONS

Exch. of Pleas, Plea R.	Exchequer of Pleas, Plea Roll	Memo. R.	Memoranda Rolls
Exch. of Receipt .	Exchequer of Receipt	Mich.	Michaelmas Term
Exch. Spec. Com. .	Exchequer Special Commissions	Midd.	Middlesex
Feet of F.	Feet of Fines	Mins. Accts.	Ministers' Accounts
Feod. Accts. (Ct. of Wards)	Feodaries Accounts (Court of Wards)	Misc. Bks. (Exch. K.R., Exch. T.R. or Aug. Off.)	Miscellaneous Books (Exchequer King's Remembrancer, Exchequer Treasury of Receipt or Augmentation Office)
Feod. Surv. (Ct. of Wards)	Feodaries Surveys (Court of Wards)	Mon.	Monastery, Monasticon
Feud. Aids	Feudal Aids	Monm.	Monmouth
fol.	Folio	Mun.	Muniments or Munimenta
Foreign R.	Foreign Rolls	Mus.	Museum
Forest Proc.	Forest Proceedings	N. and Q.	Notes and Queries
Gaz.	Gazette or Gazetteer	Norf.	Norfolk
Gen.	Genealogical, Genealogica, etc.	Northampt.	Northampton
Geo.	George	Northants	Northamptonshire
Glouc.	Gloucestershire or Gloucester	Northumb.	Northumberland
Guild Certif. (Chan.) Ric. II.	Guild Certificates (Chancery) Richard II.	Norw.	Norwich
Hants	Hampshire	Nott.	Nottinghamshire or Nottingham
Harl.	Harley or Harleian	N.S.	New Style
Hen.	Henry	Off.	Office
Heref.	Herefordshire or Hereford	Orig. R.	Originalia Rolls
Hertf.	Hertford	O.S.	Ordnance Survey
Herts	Hertfordshire	Oxf.	Oxfordshire or Oxford
Hil.	Hilary Term	p.	Page
Hist.	History, Historical, Historian, Historia, etc.	Palmer's Ind.	Palmer's Indices
Hist. MSS. Com. .	Historical MSS. Commission	Pal. of Chest.	Palatinate of Chester
Hosp.	Hospital	Pal. of Dur.	Palatinate of Durham
Hund. R.	Hundred Rolls	Pal. of Lanc.	Palatinate of Lancaster
Hunt.	Huntingdon	Par.	Parish, parochial, etc.
Hunts	Huntingdonshire	Parl.	Parliament or Parliamentary
Inq. a.q.d.	Inquisitions ad quod damnum	Parl. R.	Parliament Rolls
Inq. p.m.	Inquisitions post mortem	Parl. Surv.	Parliamentary Surveys
Inst.	Institute or Institution	Partic. for Gts.	Particulars for Grants
Invent.	Inventory or Inventories	Pat.	Patent Roll or Letters Patent
Ips.	Ipswich	P.C.C.	Prerogative Court of Canterbury
Itin.	Itinerary	Pet.	Petition
Jas.	James	Peterb.	Peterborough
Journ.	Journal	Phil.	Philip
Lamb. Lib.	Lambeth Library	Pipe R.	Pipe Roll
Lanc.	Lancashire or Lancaster	Plea R.	Plea Rolls
L. and P. Hen. VIII.	Letters and Papers, Hen. VIII.	Pop. Ret.	Population Returns
Lansd.	Lansdowne	Pope Nich. Tax. (Rec. Com.)	Pope Nicholas' Taxation (Record Commission)
Ld. Rev. Rec.	Land Revenue Records	P.R.O.	Public Record Office
Leic.	Leicestershire or Leicester	Proc.	Proceedings
Le Neve's Ind.	Le Neve's Indices	Proc. Soc. Antiq.	Proceedings of the Society of Antiquaries
Lib.	Library	pt.	Part
Lich.	Lichfield	Pub.	Publications
Linc.	Lincolnshire or Lincoln	R.	Roll
Lond.	London	Rec.	Records
m.	Membrane	Recov. R.	Recovery Rolls
Mem.	Memorials	Rentals and Surv.	Rentals and Surveys
		Rep.	Report
		Rev.	Review
		Ric.	Richard

TABLE OF ABBREVIATIONS

Roff.	Rochester diocese	Topog.	Topography or Topographical
Rot. Cur. Reg.	Rotuli Curiae Regis	Trans.	Transactions
Rut.	Rutland	Transl.	Translation
Sarum	Salisbury diocese	Treas.	Treasury or Treasurer
Ser.	Series	Trin.	Trinity Term
Sess. R.	Sessions Rolls	Univ.	University
Shrews.	Shrewsbury	Valor Eccl. (Rec. Com.)	Valor Ecclesiasticus (Record Commission)
Shrops.	Shropshire	Vet. Mon.	Vetusta Monumenta
Soc.	Society	V.C.H.	Victoria County History
Soc. Antiq.	Society of Antiquaries	Vic.	Victoria
Somers.	Somerset	vol.	Volume
Somers. Ho.	Somerset House	Warw.	Warwickshire or Warwick
S.P. Dom.	State Papers Domestic	Westm.	Westminster
Staff.	Staffordshire	Westmld.	Westmorland
Star Chamb. Proc.	Star Chamber Proceedings	Will.	William
Stat.	Statute	Wilts	Wiltshire
Steph.	Stephen	Winton.	Winchester diocese
Subs. R.	Subsidy Rolls	Worc.	Worcestershire or Worcester
Suff.	Suffolk	Yorks	Yorkshire
Surr.	Surrey		
Suss.	Sussex		
Surv. of Ch. Liv- ings (Lamb.) or (Chan.)	Surveys of Church Livings (Lambeth) or (Chancery)		

A HISTORY OF SUFFOLK

Orthocephalus saltator, and, at Lowestoft, *O. mutabilis* have been noticed here. Six kinds of *Dicyphus* (of which *D. pallidicornis* is confined to *Digitalis purpurea* at Freston), *Campyloneura virgula*, and the two species of *Cyllocoris* are all common on their respective food-plants. *Aetorhinus angulatus* is often attracted to light at night; and I have captured *Globiceps flavomaculatus*, *G. dispar*, and *Meccoma ambulans*. Butler has taken a macropterous specimen of *Cyrtorrhinus flaveolus* at Fritton,⁵ I have found *C. caricis* at Wherstead, and *C. pygmaeus* has occurred to Thouless at Fritton. Eleven species of the genus *Orthotylus* have been found in Suffolk, of which *O. prasinus*, taken by Saunders at Southwold in 1877, *O. tenellus* at Freston, and *O. rubidus* on *Artemisia maritima* are the only uncommon ones. *Hypsitylus bicolor*, *Heterocordylus tibialis*, *Onychumenus decolor*, and *Oncotylus viridiflavus* are uncommon, and *Heterotoma merioptera* abundant on nettles. *Loxops coccineus* has only been seen at Kentford, with *Malacoris chlorizans* in the Bentley and Dodnash Woods. The two common *Macrocolei* and both the *Macrotyli* are met with; *Conostethus roseus* is abundant upon Foxhall Plateau and *Harpocera thoracica* on oaks everywhere. *Amblytylus affinis*, *Byrsoptera rufifrons*, the three *Phyli* and *Atractotomus magnicornis* occur sparingly, though *A. mali* has only been found at Bungay upon one occasion in 1903. Eleven species of *Psallus*, among which *P. alnicola* at Freston and *P. Rotermundi* at Brandon are very local, and six of *Plagiognathus*, of which *P. albipennis* is found on *Artemisia maritima* all along the coast, have been noticed. Butler took *Asciodesma obsoletum* at Lowestoft in 1891; I have recently also turned it up about Ipswich.

Many of the interesting aquatic Cryptocerata await discovery, and few unusual kinds have been noticed. *Naucoris cimicoides* is said by Paget to have been very common in ditches about Yarmouth in 1825; it occurs at Oulton Broad, Ipswich, in brackish water at Bawdsey, and swarms in the Tostock ponds. *Nepa cinerea*, the water-scorpion, is generally common; but the handsome *Ranatra linearis* stood on the authority of a single specimen taken many years ago at Battisford by Baker, till Tuck took several in one pond in the middle of a field at Drinkstone in October 1901.⁶ *Notonecta glauca* is abundant, and its variety *furcata* is referred to by Paget; *Plea minutissima* occurs in all the ponds about Ipswich. Of the extensive genus *Corixa*, comprising the lesser waterboatmen, we have only fifteen kinds as far as is at present ascertained; all these are fairly widely distributed, though *C. fallenii* is represented by only two individuals taken respectively in 1893 and 1904, *C. coleoptrata* and *C. venusta* are restricted to Bixley Decoy and Oulton Broad, and *C. limitata* is very rare and local. *C. lugubris* often occurs, mixed with *C. praesta*, in the utmost abundance among shrimps, in the brackish ditches at Bawdsey, the net becoming weighed down with a dark mass of them.

From this short résumé of the Heteroptera it will be seen that some two hundred and eighty-four species have been noticed in Suffolk. Considering that I captured over a hundred in 1897 alone, and that less than that number have been added during the following eight years, it is sufficiently obvious that collecting of late has fallen into neglect, and that assiduous working might show up many new kinds.

HOMOPTERA

CICADIDAE

In this group we have had even less observations to draw from than was the case in the Heteroptera. Mr. Butler noted a few about Lowestoft in 1891, Mr. Edwards mentions one or two kinds from Southwold and Brandon, and Curtis records, I think, two from the county. It cannot, therefore, be wondered at that I have been able to include little more than exactly half the British kinds; but, with our extensive marsh country, to which many of those insects are restricted, quite another fifty or sixty kinds should turn up if systematically sought in favourable situations and upon their particular food plants, for these, like the last group, are entirely phytophagous in their economy.

The curious *Centrotus cornutus* is a common species on bushes in the woods about Ipswich, Bury St. Edmunds, and Lowestoft in June; but *Gargara genistae* is very local at Tostock and Ipswich, though Mr. Norgate has taken it commonly on broom at Barnham and Downham in the north-west. *Issus coleoptratus* has only occurred singly at Ipswich in 1894 and 1904, and in a wasps' nest in a holly bush near Bury; *Cixius pilosus* and *C. nervosus* are common, though *C. cunicularis* is decidedly local at Tostock and Assington Thicks in July. The thick-horned *Asiraca clavicornis* was first found by Curtis at Henstead near Wangford, and more recently by myself among coniferae in Bentley Woods, it is not uncommon about Brandon; I have also found *Delphax pulchella* to be somewhat common on reeds in Benacre and Herringfleet Broads in the middle of August. The extensive genus *Liburnia* requires much more full investigation than it has hitherto received; of the

⁵ Ent. Mo. Mag. 1891, p. 277.

⁶ Cf. Trans. Norf. Nat. Soc. 1902, p. 333.

INSECTS

fifty British species only eighteen have been observed, amongst which *L. notula* occurs on reeds in Oulton Broad, *L. lineola* in Dodnash Woods, and on the banks of the Orwell, *L. longipennis* in tufts of *Carex paniculata* at Foxhall in the winter; *L. vittipennis* is abundant in Tuddenham Fen, where Elliott has taken *L. fuscovittata* in some numbers; and *L. punctulum* with *L. pellucida* and *L. scotti* about Lowestoft, where it was found by Butler, as well as at Claydon Bridge and Foxhall. Mr. Edwards tells us⁷ that *L.*, or *Chloriona glaucescens*, Fieb.—formerly thought to be *C. unicolor*, H. S.—has been found by him commonly on reeds in the coast marshes at Southwold in August. *L. leptosoma* and *L. limbata* are common, and *L. elegantula* local at Foxhall, Kentford, and Tuddenham; but *L. speciosa*, which does not appear to have been taken in Britain for many years, has been but sparingly met with by Mr. Elliott and myself in marshes at Ipswich, Barton Mills, Brandon and Tuddenham Fen. The remaining species are *Liburnia difficilis*, *discolor*, *exigua*, *Fairmairei*, and *lineata*, whose distribution is not yet fully known.

Of the rest of the Delphacidae, I have seen *Dicranotropus hamata* from Foxhall to Tuddenham, and *Stiroma pteridis* common on bracken, *P. albomarginata* at Bentley and Tuddenham, *P. affinis* once swept at Freston in 1904. The extremely handsome *Triecphora vulnerata* is by no means uncommon upon young poplars and flying in the sunshine in the Bentley Woods, Assington Thicks, and Holbrook Park in June; both species of *Aphrophora* live about Ipswich and Bury; and all the British *Philaeni*, or 'Cuckoo-spits,' are common, though *P. lineatus* appears somewhat local, and several forms of *P. spumarius* have not been met with. *Ledra aurita* is uncommon on oaks in the Bentley Woods, at Tostock and Battisford; *Ulopa reticulata* often swarms beneath heather; and *Megophthalmus scanicus* is very common. Among the pretty family Bythoscopidae, we have a much better percentage of representatives. *Macropsis lanio* is often beaten from oak trees; *Bythoscopus alni* rarely met with on the banks of the Gipping and in Bentley Woods, where as elsewhere *B. flavigollis* abounds; the rare *B. rufusculus* has occurred singly in Tuddenham Fen and the Bentley Woods in 1904. *Pediopsis scutellatus*, *P. tibialis*, *P. impurus*, and *P. ulmi* all occur with fair frequency, and last year I discovered *P. cereus* in Tuddenham Fen and *P. fuscinervis* at Foxhall, both in August; *C. virescens*, too, has lately turned up at Tostock, Kentford, and Barham. *Idiocerus adustus*, *I. populi* and *I. confusus* are not infrequent upon poplars and willows; an example from Farnham appears referable to *I. fulgidus*; and I have also recently found here *I. lituratus* in Tuddenham Fen and *I. distinguendus* in Assington Thicks, which latter Mr. Tuck took at Aldeburgh;⁸ *I. albicans* is local at Freston, Tuddenham, and Brandon, and a single *I. tremulae* has occurred in Bentley Woods. *Agallia puncticeps* and *A. venosa* both occur, the latter being widely distributed at Claydon, Southwold, and Brandon. *Evacanthus interruptus*, upon ragwort, and *E. acuminatus* are both found in the Bramford chalk pits; and *Tettigonia viridis* is often a pest in marshes throughout the county. We possess all the British *Acocephali*, the only uncommon one being *A. flavostriatus*, which Butler has turned up in Fritton Decoy and I have seen at Kessingland. *Eupelix cuspidata* has only been noticed on the Breck sands and Foxhall Plateau; but *Doratura stylata* and *Paramesus nervosus*, of the former of which I captured a specimen of the macropterous form at Ipswich in 1896, are common. I also beat a single *Glyptocephalus proceps* at Barren Heath near Ipswich in July 1904.

The Jassidae leave much to be desired; the only common *Athysani* being *A. brevipennis*, *communis*, *sordidus*, *obsoletus*, and *obscurellus*; Butler has found *A. grisescens* at Lowestoft. Twelve kinds of *Deltoccephalus* are enumerated, of which five—*D. pascuellus*, *coronifer*, *distinguendus*, *sabulicola*, and *punctum*—were first taken by Butler about Lowestoft; Edwards records *D. Normani* from Fritton, and I have seen *D. argus* in the Westleton lamb-pits and at Foxhall, where *D. citrinellus*, *ocellaris*, and *striatus* also occur. *D. Flori* and *D. pulicaris* appear to be rare at Freston.⁹ *Allygus mixtus*, *Limotettix antennata*, and *L. quadrinotata* are common, as also probably is *L. sulphurella*, though I had not met with it till last August, when the rare *L. aurantipes* occurred to me at Foxhall and Bramford marshes. Of our six species of *Thamnotettix*, Tuck met with *T. splendidula* at Tostock in October 1899; and I beat a couple of *T. Torneella* from birch in the Bentley Woods in May and June 1902, from bushes through which I have beaten with no sign of this insect for ten consecutive years; it is rare in Britain, but has a wide range from Rannoch to the New Forest. *T. attenuata* first turned up, and then commonly, at Foxhall late in September 1904. Edwards has found the rare *Cicadula fascifrons* at Southwold; and I have once or twice met with *C. septemnotata*, which is much rarer here than *C. sexnotata*; *Gnathodes punctatus* is local at Bentley Woods and Foxhall. *Alebra albostriella* has been observed, and, in Tuddenham Fen, in June 1901, I took three examples of an allied insect, which was common there on birch, though apparently hitherto unrecognized in Britain. *Dicraneura variata* is abundant and *D. flavipennis* common. The

⁷ Ent. Mo. Mag. 1898, p. 60.

⁸ Cf. Trans. Norf. Nat. Soc. 1902, p. 332.

⁹ Since the above was written I have been so fortunate as to capture somewhat commonly *Deltoccephalus formosus*, a species not hitherto noticed in Britain, in a marshy wood at Brandon, on the banks of the Little Ouse, which forms the north-west boundary of the county (Cf. Ent. Mo. Mag. 1908, p. 59).—C. M.

A HISTORY OF SUFFOLK

pretty green *Kybos smaragdulus* lives not uncommonly in all our marshes ; *Chlorita flavescens* occurs at Southwold, where it is attracted to lamplight in July ; and *C. viridula* is always abundant in the spring at Bentley and in Ipswich gardens. Of the slender and fragile genus *Eupteryx*, we have twelve kinds, all common and widely distributed except *E. melissae* from Foxhall, *E. abrotani* in salt marshes at Southwold, and *E. signatipennis*, which occurs abundantly, but solely, on *Spiraea ulmaria* in the Freston Woods. Only ten species of *Typhlocyba* have at present been noted, amongst which *T. sexpunctata*, *ulmi*, *Douglasi*, *rosae*, and *quercus* are common ; *T. tenerrima* occurs at Ipswich and Carlton Colville, *gratiosa* at Southwold, *geometrica* sparingly on alder and *nitidula* once only on beech at Foxhall. *Zygina flammigera* has been found at Wherstead, *Z. parvula* at Bramford and Foxhall, where also *Z. scutellaris* has occurred, and I have once swept the rare *Z. hyperici* from a mass of *Hypericum hirsutum* in the Bentley Woods in the middle of September.

PSYLLIDAE

The difficulty of determining the Psyllina has greatly contributed to their being passed over in the field, consequently there are comparatively few records. *Livia juncorum* is certainly rare at Bramford and Foxhall in the autumn, though it is said to be universally abundant at the roots of rushes ; on 19 August 1904 I swept the two first British specimens of *L. limbata*, in Tuddenham Fen. *Psyllopsis fraxinicola* is abundant on ash trees everywhere, but *P. fraxini* has only been seen at Assington and Barham. *Aphalara calthae* is not rare, but *A. exilis* has only occurred at Foxhall once. Of the clear-winged genus *Psylla*, we have twelve species, few of which claim especial attention excepting to point out that many may be beaten from coniferae in the winter : thus *P. pruni* has been found in the Bentley Woods, with *P. pineti*, in March ; *P. melanoneura* has been taken by Chitty at Foxhall in the same month, and *P. buxi* lives in my garden here at Monk Soham till quite late in the autumn on box-trees. *P. visci* Curtis described from specimens found at Rougham, near Bury St. Edmunds, but it has not since been reported from the county. *Trioza urticae*, *galii*, and *remota* are probably, like *Arytaena genistae*, all abundant ; but *T. crithmi* has only once occurred to me, in some numbers in August in the coast salt marshes at Southwold.

APHIDIDAE

For the purpose of adding some account of the green flies of the county to this History, I began to collect them last May, and succeeded so well in their identification, with the aid of Buckton's *Monograph of the British Aphides*, published by the Ray Society, 1876-83, that I am able to present a very representative account of them. By slavishly following this work I have been enabled to name nearly every specimen taken upon its own food-plant, and can only regret that so little interest is shown in this most interesting family in Britain, where I know of no one who pretends to any knowledge of the subject since the author's death. Except where stated the following species were taken in the garden of Monk Soham House during 1907.

The first species of the Aphidinae, and one of the most prevalent, was *Siphonophora rosae*, which was seen upon the young shoots of both wild and cultivated roses throughout the summer, as well as upon the leaves of adjacent *Aquilegia vulgaris* at the end of July. I did not look for *S. granaria* till the middle of August, but harvest had hardly begun, and I at once found both the imaginal forms commonly on some adventitious ears of wheat in my garden and a few females on barley in neighbouring fields. *S. hieracii* were very rare beneath flower-heads of *Hieracium* early in August, associating with a few females of *Aphis rumicis*. As early as 1 June larvae of *S. millefolii* appeared on the flower-stalks of *Chrysanthemum segetum*, and in early August both winged and apterous imagines were fairly common on the stems of both that plant and *Achillea millefolium*, becoming abundant by the middle of the month ; it also occurs at Brandon. At the end of July I found *S. pisi* not very commonly on my garden peas and its larvae on *Bursa bursa-pastoris* ; in 1903 I took it near Ipswich in October. *S. rubi* was not observed till the first week in August, when both imaginal forms were seen on the leaves of *Rubus fruticosus* with *Aphis urticariae*. *S. urticae* has been scarce ; I took only one apterous female, still attached to her pupal skin, on nettle early in August. The distinct *A. avellanae* also appears rare, since of this I have also found but one apterous female on *Corylus avellanae* in early June. Larvae, pupae, and apterous forms of *S. tanaci* abounded in a dandelion in the middle of August. On *Tusilago farfara* numerous dead *S. tussilaginis* were found early in the same month ; and a diligent search revealed but two winged forms. *S. sonchi*, in its apterous forms, is one of our commonest species on *Centurea nigra* at Monk Soham, Southwold, and Brandon. Larvae, pupae, and apterous imagines of *S. cichorii* occurred upon a plant of chicory near Easton Park on 17 August ; and I saw it also at Dunwich in the middle of September. Five *S. olivata* were taken on *Cnicus palustris* in the Bentley Woods in August 1904.

INSECTS

The small *Phorodon humuli* was abundant on the underside of hop leaves near Easton Park in August ; and a protracted examination of *Lamium album* in my garden revealed a solitary winged *P. galeopsidis*, on the under side of the leaf, in the same month. On 7 June a score of *Myzus cerasi* in all their stages, though only two winged, were found on cherry ; and in early August I took *M. ribis* rarely on *Ribes rubrum*. Quite suddenly on 4 August, *Drepanosiphum acerina* appeared commonly beneath maple leaves and those of adjacent hazel and dogwood. Apterous females, larvae, and pupae of the distinct and presumably rare *Megoura viciae* were found very commonly feeding upon the pods and stems of *Lathyrus pratensis* in a damp meadow near Easton Park on 17 August. Early in June *Rhopalosiphum ribis* was found in hundreds in all its stages in rolled leaves of *Ribes nigrum* ; and it is certainly the same species that Kirby referred to nearly a century ago when he wrote :¹⁰ ‘Last week I observed the top of every young shoot of the currant trees in my garden (at Barham) curled up by myriads of these insects.’ *R. nymphae* was abundant on the stalks of *Alisma plantago* in July and *Nymphaea alba* in August, in the moat which surrounds my house, but among thousands of the apterous form I could detect but one winged specimen. A very few winged females and pupae only of *R. ligustri* were taken early in August on privet leaves. Exclusively winged forms of *Siphocoryne pastinaceae* were found on wild carrot both here and in the adjacent parish of Bedfield in August. *S. xylostei* is a great pest on honeysuckle over the house-windows. *S. capreae* occurs commonly on the leaves of willow and, like *S. xylostei*, extends throughout the summer. *S. foeniculi* has only been seen on fennel at Dunwich in the middle of September.

The genus *Aphis* is an extensive one, and many of its species are common. *A. brassicae* was forming large powdery masses on the flowers of cabbages on 9 June, and was still abundant up to the end of August ; but I have seen no winged forms. About the same time I found a little cluster of four apterous *A. crataegi* on a leaf of whitethorn in Framlingham Castle moat ; and *A. subterranea* was very common on a carrot, just below the ground, at the end of August. On whitethorn at Bedfield early in the same month *A. edentula* was not uncommon in all its forms on terminal shoots. Mallow failed to produce *A. malvae*, but it occurred abundantly beneath the flower-heads of yarrow in early August. On 1 June winged *A. mali* were somewhat common, with a few scattered pupal skins on the leaves of the apple trees ; and on the 3rd the apterous females and larvae were found to be abundant in their curled leaves ; the whole pest had, however, quite vanished by the end of July. *A. urticaria* was very common on the stems of nettle early in June ; and in curled leaves of *Prunus spinosa*, *A. pruni* was prevalent at the same time, with a proportion of one winged to every score of apterous forms. *A. atriplicis* occurred on the sea lavender and *Aster tripolium* in the salt marshes about Southwold early in September. *A. hieracii* was first seen very rarely on leaves of *Heracleum sphondylium* on 9 June, by the middle of July it was common, and at the beginning of August extremely abundant on the stems of hogweed ; it also appeared at Southwold. A single plant of the hairy willow herb, among many, produced a dozen larvae and one of both forms of the female of *A. epilobii* in the middle of August. *A. hederae* is only too common on the ivy around the house. *A. rumicis* is one of the commonest kinds here, and bewilderingly omnivorous ; I first took the winged form singly on the young leaves of *Rumex acetosa* ; it abounded on broad beans throughout the summer, also attacking *Cnicus arvensis*, *Petasitis officinalis*, beet, and *Hieraceum*. Thirteen of the very distinct larvae of *A. papaveris* were clustered together on a leaf of scarlet poppy on 30 July ; and all the forms of *A. pyri* were abundant in curled leaves of pear early in June. *Hyalopterus arundinis* was so numerous on reeds in the salt-marshes about Southwold in September as to appreciably weigh down the sweep-net ; and Buckton records *H. melanocephalus* from Brandon.

At the end of May, *Chaitophorus aceris* was very numerous beneath the leaves of maple, mingling later with *Drepanosiphum*. Early in August I succeeded in securing three examples of the winged form of *C. salicivorus*, among myriads of the apterous one, which were scattered all over the leaves of sallow ; later I also saw the species at Southwold. In the middle of August *C. leucomelas* was not uncommon in its curious blisters on aspen leaves at Monk Soham, Debenham, and Easton Park. Buckton also records *Cryptosiphum artemisiae* from Brandon. *Callipterus betuleticola* is excessively abundant on birch in Tuddenham Fen and at Mildenhall ; *C. coryli* occurred commonly, though singly and sparsely, here on hazel leaves in August. It was common in Easton Park in the middle of the month, together with *C. quercus*, which I first found on oak leaves in my garden on 4 June. On 27 August 1906 *C. casteneae* was swept from rough heath grass in Tuddenham Fen ; and this year I also found it at Brandon. *Pterocallis juglandicola* turned up on a walnut tree at Sibton Abbey in the middle of September ; and, on the leaves of alder near Easton Park, winged *P. alni* were not rare, though only one apterous imago and but a few larvae were present in the middle of August. I have twice captured *P. tiliae* flying in July at Ipswich and Kessingland ; here the winged form is solitarily abundant on the under side of lime leaves. *Phyllaphis fagi* was

¹⁰ *Introd. to Entom.* (7th ed.), 152.

A HISTORY OF SUFFOLK

abundant in all stages on the leaves of both old and young beeches at the beginning of June, but soon disappeared.

Of *Lachnus*, the presumably rare *L. agilis* was commonly beaten from pines in the middle of August, though but three winged forms were seen. Many winged *L. macrocephalus* were beaten from spruce at Foxhall on 4 July 1904; and Kirby and Spence say¹¹ that *L. pini* used to be common in the garden of Mr. Sheppard, who was curate of Nacton, 1804-7. I have captured winged *L. piniculus* in the Bentley Woods in July and at Easton Broad in June; and in the middle of August beaten the apterous form abundantly in my garden here, where were no winged individuals. Three hibernating winged females of the large *L. viminalis* were found beneath willow bark by the Gipping at Ipswich during the winter of 1894-5. Kirby says¹² that he has taken *Aphis radicum* (= *Trama troglodytes*) in the nest of *Lasius flavus*—most probably in this county. Of the Schizoneurinae, *Schizoneura lanigera* is only too common here and at Brandon on apple bark; I have, however, seen none winged; they were still on the trees 22 October 1907. Apterous *S. fuliginosa* are equally abundant in downy masses, one behind the other, on the pinnules of Scots fir in August; the earliest winged ones appeared last year on 22 October. Perhaps the ubiquitous *S. corni*, more appropriately called *vagans*, was the species said by Kirby to have occurred in incredible numbers in Ipswich in 1814; it is, at all events, often abundant there, at Wherstead, and Barren Heath, as well as at Monk Soham, Reydon, Tuddenham, Eriswell, and Brandon, first appearing on 22 August in 1907. Of the remaining small families I can at present only mention *Chermes laricis*, of which I found eggs, larvae, and winged females abundantly on larches at Foxhall at the end of May, and a big oviparous female here in June; and *Forda formicaria*, which Mr. Chitty took near Brandon in the nest of *Tetramorium caespitum* early in May.

ABERRANT HEMIPTERA

Under this heading I shall notice the extremely few species of all those various families which have at different times been thought to possibly belong to this Order, because little or nothing has been ascertained respecting them in Suffolk, and they appear to have appealed very little to the collecting instincts of our entomologists. I have, for instance, very often seen Coccidae, or Scale Insects, on bushes and have passed them by on the other side; once I did send what I thought to be a Coccid to Mr. Newstead, but he returned it as the pupa of a Psyllid! Mr. Tomlin has found fluffy Coccids on bushes in the Bentley Woods, and I have no doubt *Mytilaspis*, *Aspidotus*, and the rest of the pests are only too common with us, but I wot not of them. The only three species of the family I can refer to are the currant scale, *Pulvinaria ribesiae*, Sign., which I saw on my currant bushes this year, *Aspidotes crataegi* on hawthorn, and a white coccid, which simply covered the bark of a tall beech in my garden last August, but its name I do not know. Only two kinds of Aleurodidae have been mentioned by Mr. Douglas,¹³ both taken that year by Mr. Bonnewell; *Aleurodes proletella*, Linn., on celandine at Coddendenham on 7 November, and *A. brassicae*, Walk., on savoys in an Ipswich garden on the 14th of the same month; the latter species occurred in my garden at Monk Soham on 3 June and again in October 1906. Of the Mallophaga, too, those apterous parasites of birds which have no suction-tube with its circle of hooks at the base, but a biting mouth, only three kinds can be instanced, though a very great many certainly occur, since each bird is supposed to possess a peculiar one. The first appears to be *Laemobothrum laticolle*, Denny, who says it is found on the genus *Falco*; this was certainly taken, with many more of the same species, upon a hawk which a fowler had caught in his net near Ipswich in November 1900; and in October 1903 Mr. W. A. Dutt sent me apparently the same kind, found on a hobby hawk (*F. subbuteo*) at Lowestoft. Two domestic fowl lice, *Goniocotes hologaster* and *Menopon pallidum*, have been found in my hen-house at Monk Soham. The Pediculidae raise more aversion than interest, and the only three kinds at present under notice are *Pediculus capitidis*, Nitz; that so often found on pigs, *Haematopinus suis*, Leach, and the dog louse, *H. piliferus*, Burm. Nor can we claim any authentic Thripidae, though abundant everywhere and in July often sweeping over the neighbourhood in myriads, entering picture-frames in such numbers as to necessitate remounting, and tickling everyone's flesh; the commonest kind here is probably *Limothrips cerealium*, Hal., so destructive to corn.¹⁴ A second species, *Coleothrips fasciata*, Linn., has been somewhat doubtfully recorded from Monk Soham by Prof. Poulton.¹⁵

In 1905 I published *The Hemiptera of Suffolk*, which brings the total of Heteroptera noted here up to 281 species, and the Homoptera, of the families Cicadidae and Psyllidae, to 162 species,

¹¹ *Introd. to Entom.* (7th ed.), 185.

¹² *Ibid.* 336.

¹³ *Ent. Mo. Mag.* 1895, p. 68.

¹⁴ Cf. my notes in *E. Anglian Daily Times*, 7 Aug. 1906.

¹⁵ *Trans. Ent. Soc.* 1906, p. 409.

INSECTS

which numbers may be taken to very fairly represent the fauna of the county, though especial attention to these groups would doubtless reveal many more; and indeed I am already able to add:—

<i>Asopus punctatus.</i> Beaten from rose, <i>Tuddenham Fen</i> , Aug. 1905, by E. A. Elliott, F.Z.S.	Allygus modestus. One swept from marsh plants in <i>Tuddenham Fen</i> , in autumn of 1906
<i>Sehirus morio.</i> Found in sand at <i>Brandon</i> , May and June, by A. J. Chitty, M.A., and myself	<i>Deltotcephalus socialis.</i> Captured at <i>Brandon</i> and <i>Tuddenham Fen</i> , in Aug. 1905
<i>Gerris argentata.</i> <i>Oulton and Barnby Broads</i> , early Apr. 1903, by E. C. Bedwell, F.E.S.	<i>Deltotcephalus formosus.</i> A new British species, which I swept at <i>Brandon</i> , Aug. 1906
<i>Phytocoris Reuteri.</i> I beat one from white poplar at <i>Brandon</i> , in Aug. 1906	<i>Limotettix stactogala.</i> Found commonly on tamarisk at Southwold, Sept. 1907
<i>Systellonotus triguttatus.</i> At <i>Brandon</i> , in Aug. 1906, by E. A. Elliott and myself	<i>Cicadula metria.</i> Swept from reeds near <i>Brandon Stanch</i> in the early autumn of 1906
<i>Corixa venusta.</i> Four specimens in a swamp at <i>Bixley Decoy, Foxhall</i> , in Mar. 1897	<i>Dicranura similis.</i> Two specimens were swept in <i>Tuddenham Fen</i> , in Aug. 1905
<i>Liburnia forcipata.</i> I swept this in an alder carr at <i>Reydon</i> early in June 1905	<i>Aphalara nervosa.</i> One only, taken on ragwort in my garden, <i>Monk Soham House</i> , 1907
<i>Idiocerus varius.</i> Beaten from trees at <i>Brandon</i> , in the middle of Aug. 1906	

A SUMMARY OF THE INSECTS OF SUFFOLK, OCTOBER 1907

COLEOPTERA :—	Suffolk	Britain	NEUROPTERA :—	Suffolk	Britain		
<i>Adephaga</i>	277	444	<i>Thysanura</i>	10	60		
<i>Palpicornia</i>	74	95	<i>Pseudo-neuroptera</i>	40	111		
<i>Brachelytra</i>	441	777	<i>Odonata</i>	20	42		
<i>Clavicornia</i>	343	681	<i>Subnecromorphotica</i>	32	56		
<i>Lamellicornia</i>	58	90	<i>Trichoptera</i>	62	174		
<i>Sternoxi</i>	35	76	TOTAL . . .	<u>164</u>	<u>443</u>		
<i>Malacoderma</i>	56	91	 LEPIDOPTERA	1,290	c. 2,100		
<i>Teredilia</i>	34	57	 HYMENOPTERA :—				
<i>Longicornia</i>	32	57	<i>Chrysididae</i>	12	21		
<i>Phytophaga</i>	187	256	<i>Aculeata</i>	295	380		
<i>Heteromera</i>	73	118	<i>Evaniiidae</i>	3	8		
<i>Rhynchophora</i>	320	526	<i>Ichneumonidae</i>	455	1,688		
TOTAL . . .	<u>1,930</u>	<u>3,268</u>	<i>Braconidae</i>	137	596		
 HEMIPTERA :—			<i>Proctotrypidae</i>	74	373		
<i>Heteroptera</i>	287	431	<i>Chalcididae</i>	36	1,408 ¹⁷		
<i>Homoptera</i>	171	321	<i>Cynipidae</i>	38	180 ¹⁸		
<i>Aphididae</i>	66	182	<i>Tenthredinidae</i>	191	c. 350 ¹⁹		
<i>Other Groups</i>	13	c. 299 ¹⁶	TOTAL . . .	<u>1,241</u>	<u>5,004</u>		
TOTAL . . .	<u>537</u>	<u>1,233</u>	 ORTHOPTERA	22	DIPTERA	1,171	2,577²⁰
 GRAND TOTAL . . .			GRAND TOTAL . . . Suffolk, 6,355.		GRAND TOTAL . . . Britain		14,678

¹⁶ This is Dale's computation, and is probably much too low; he says, *Thripsidae*, 46; *Coccidae*, 18 (cf. Newstead); *Aleyrodidae*, 10; *Pediculidae*, 14; and *Philopteridae*, 211.

¹⁷ Walker, Haliday, and Westwood are stated to have described 1,274 by Kirchner (*Cat. Hym. Europ.*); I have found the above total to be correct by the closest scrutiny.

¹⁸ Marshall says (*Ent. Ann.* 1874) that he has trebled Curtis's number—56; there is no British list, and the above total is that of the species described by Cameron, 1893.

¹⁹ We cannot tell the total till Rev. F. D. Morice has completed his present work on this family (*Ent. Mo. Mag.* 1903 et seq.).

²⁰ Excluding all the doubtfully British species in Mr. Verrall's List.—C. M.

The following text is generated from uncorrected OCR or manual transcriptions.

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XTbe IDlctoria Ibistov^ of the

Counties of ENGLAND

EDITED BY WILLIAM PAGE, F.S.A.

A HISTORY OF

SUFFOLK

IN SIX VOLUMES

VOLUME I

[Begin Page: Text]

THE

VICTORIA HISTORY

OF THE COUNTIES

OF ENGLAND

SUFFOLK

DAWSON

FOR

THE UNIVERSITY OF LONDON

INSTITUTE OF HISTORICAL RESEARCH

[Begin Page: Text]

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INSCRIBED

TO THE MEMORY OF

HER LATE MAJESTY

QUEEN VICTORIA

WHO GRACIOUSLY GAVE

THE TITLE TO AND

ACCEPTED THE

DEDICATION OF

THIS HISTORY

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GENERAL ADVERTISEMENT

The Victoria History of the Counties of England is a National Historic Survey which, under the direction of a large staff comprising the foremost students in science, history, and archaeology, is designed to record the history of every county of England in detail. This work was, by gracious permission, dedicated to Her late Majesty Queen Victoria, who gave it her own name. It is the endeavour of all who are associated with the undertaking to make it a worthy and permanent monument to her memory.

Rich as every county of England is in materials for local history, there has hitherto been no attempt made to bring all these materials together into a coherent form.

Although from the seventeenth century down to quite recent times numerous county histories have been issued, they are very unequal in ifierit ; the best of them are very rare and costly ; most of them are imperfect and many are now out of date. Moreover, they were the work of one or two isolated scholars, who, however scholarly, could not possibly deal adequately with all the varied subjects which go to the making of a county history.

VII

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In the Victoria History each county is not the labour of one or two men, but of man} , for the work is treated scientifically, and in order to embody in it all that modern scholarship can contribute, a system of co-operation between experts and local students is applied, whereby the history acquires a completeness and definite authority hitherto lacking in similar undertakings.

The names of the distinguished men who have joined the Advisory Council are a guarantee that the work represents the results of the latest discoveries in every department of research, for the trend of modern thought insists upon the intelligent study of the past and of the social, institutional, and political developments of national life. As these histories are the first in which this object has been kept in view, and modern principles applied, it is hoped that they will form a work of reference no less indispensable to the student than welcome to the man of culture.

THE SCOPE OF THE WORK

The history of each county is complete in itself, and in each case its story is told from the earliest times, commencing with the natural features and the flora and fauna. Thereafter follow the antiquities, pre-Roman, Roman, and post-Roman ; ancient earthworks ; a new translation and critical study of the Domesday Survey ; articles on political, ecclesiastical, social, and economic history , architecture, arts, industries, sport, etc. ; and topography. The greater part of each history is devoted to a detailed description and history of each parish, containing an account of the land and its owners from the Conquest to the present day. These manorial histories are compiled from original documents in the national collections and from private papers. A special feature is the wealth of illustrations afforded, for not only are buildings of interest pictured, but the coats of arms of past and present landowners are given.

HISTORICAL RESEARCH

It has always been, and still is, a reproach that England, with a collection of public records greatly exceeding in extent and interest those of any other country in Europe, is yet far behind her neighbours in the study of the genesis and growth of her national and local institutions. Few Englishmen are probably aware that the national and local archives contain

for a period of 800 years in an almost unbroken chain of evidence, not only the political, ecclesiastical, and constitutional history of the kingdom, but every detail of its financial and social progress and the history of the land and its successive owners from generation to generation. The neglect of our public and local records is no doubt largely due to the fact that their interest and value is known to but a small number of people, and this again is directly attributable to the absence in this country of any endowment for historical research. The government of this country has too often left to private enterprise work which our continental neighbours entrust to a government department. It is not surprising, therefore, to find that although an immense amount of work has been done by individual effort, the entire absence of organization among the workers and the lack of intelligent direction has hitherto robbed the results of much of their value.

In the Victoria History, for the first time, a serious attempt is made to utilize our national and local muniments to the best advantage by carefully organizing and supervising the researches required. Under the direction of the Records Committee a large staff of experts has been engaged at the Public Record Office in calendaring those classes of records which are fruitful in material for local history, and by a system of interchange of communication among workers under the direct supervision of the general editor and sub-editors a mass of information is sorted and assigned to its correct place, which would otherwise be impossible.

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A special feature in connexion with the Architecture is a series of ground plans, many of them coloured, showing the architectural history of castles, cathedrals, abbeys, and other monastic foundations.

In order to secure the greatest possible accuracy, the descriptions of the Architecture, ecclesiastical, military, and domestic, are under the supervision of Mr. C. R. Peers, M.A., F.S.A., and a committee has been formed of the following students of architectural history who are referred to as may be required concerning this department of the work : —

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Arthur S. Flower, M.A. Percy G. Stone, F.S.A., F.R.I.B.A.

J. A. Gotch, F.S.A., F.R.I.B.A. H. Thaciceray Turner, F.S.A.

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Fauna

The general plan of Contents and the names among others of those
who are contributing articles and giving assistance are as follows :—

Natural History

Geology. Climent Reid, F.R.S., Horace B. Woodward, F.R.S., G. A. Lebour, M.A., J. E. Marr,
D.Sc, F.R.S., and others

Palaeontology. R. Lydekker, F.R.S., F.L.S., F.G.S.

/Contributions by G. A. Boulenger, F.R.S., J. G. Baker, F.R.S., F.L.S., etc., G. C. Druce,
M.A., F.L.S., Walter Garstang, M.A., D.Sc, F.L.S., Rev. Canon A. M. Normak,
D.C.L., LL.D., F.R.S., Rev. Canon W. W. Fowler, M.A., D.Sc, F.L.S., F.E.S., Rev. O.

Pickard-Cambridge, M.A., F.R.S., Rev. T. R. R. Stebbing, M.A., F.R.S., etc., B. B.

Woodward, F.G.S., F.R.M.S., etc and other Specialists

Prehistoric Remains. W. Boyd Dawkins, D.Sc, LL.D., F.R.S., F.S.A., Geo. Clinch, F.S.A. Scot., F.G.S.,

John Garstang, M.A., B.Litt., F.S.A. , and others

Roman Remains. F. Haverfield, M.A., LL.D., F.S.A., and others

Anglo-Saxon Remains. C. Hercules Read, LL.D., F.S.A., Reginald A. Smith, B.A., F.S.A., and others

Domesday Book and other kindred Records. J. Horace Round, M.A., LL.D., and other Specialists

Architecture. C. R. Peers, M.A., F.S.A., W. H. St. John Hope, M.A., Harold BRAioiPEAR, F.S.A.,
A.R.LB.A., and others

Ecclesiastical History. R. L. Poole, M.A., Rev. H. Gee, D.D., F.S.A., Rgv. J. C. Cox, LL.D., F.S.A.,
A. G. Little, M.A., and others

Political History. Prof. C. H. Firth, M.A., LL.D., D.Litt., F.S.A., W. H. Stevenson, M.A., J. Horace
Round, M.A., LL.D., Prof. T. F. Tout, M.A., Prof. James Tait, M.A., and A. F. Pollarp,
M.A., F.R.Hist.Soc.

History of Schools. A. F. Leach, M.A., F.S.A.

Maritime History of Coast Counties. Sir John K. Laughton, M.A., M. Oppenheim, and others

Topographical Accounts of Parishes and Manors. By Various Authorities

Agriculture. Sir Ernest Clarke, M.A., Late Sec. to the Royal Agricultural Society, and others

Forestry. John Nisbet, D.CEc, and others

Industries, Arts and Manufactures

Social and Economic History

Ancient and Modern Sport. E. D. Cuming, the Rev. E. E. Dorling, M.A., and others

Cricket. Sir Home Gordon, Bart.

[By Various Authorities

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THE

VICTORIA HISTORY

OF THE COUNTY OF

SUFFOLK

EDITED BY

WILLIAM PAGE, F.S.A.

VOLUME ONE

DAWSON

FOR

THE UNIVERSITY OF LONDON

INSTITUTE OF HISTORICAL RESEARCH

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County Ccminittce for Suffoll?

Formed in 1907

THE MOST HON. THE MARQUESS OF BRISTOL

Lord Lieutenant^ Chairman

His Grace The Duke of Grafton,

K.G.

The Rt. Hon. The Earl Cadogan, K.G.

The Rt. Hon. The Earl Howe,

G.C.V.O.

The Rt. Hon. The Earl of Stradbroke

The Rt. Hon. The Viscount Iveagh,

K.P.

The Rt. Hon. The Lord Francis

Hervey

The Rt. Rev. The Lord Bishop of Ely

The Rt. Rev. The Lord Bishop of

Norwich

The Rt. Rev. The Bishop of Thetford

The Rt. Hon. The Lord de Saumarez

The Rt. Hon. The Lord Bateman

Col. The Hon. H. W. Lowry-Corry

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The Hon. Stanhope Tollemache

The Rev. Sir William Hyde-Parker,

Bart.

Sir Ralph Blois, Bart.

Sir Thomas Gooch, Bart.

Sir Collingwood Hughes, Bart.

Sir Charles Dalrymple, Bart.

Sir William Dunn, Bart.

Sir Cuthbert Quilter, Bart.

Sir E. Walter Greene, Bart.

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Sir Thomas H. Tacon, D.L.

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BURGH

The Worshipful The Mayor of Bury

St. Edmunds

The Worshipful The Mayor of Ipswich

The Worshipful The Mayor of South-

WCLD

The Worshipful The Mayor of Sud-

bury

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Col. N. Barnardiston, J. P., D.L.

Edward Beauchamp, Esq., M.P.

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John D. Cobbold, Esq. J.P., D.L.

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F.R.S.A.

T. W. Cotman, Esq.

G. MiLNER-GIBSON-CuLLUM, EsQ., M.A.,

F.S.A.

The Rev. Francis J. Eld, M.A., F.S.A.

The Rev. E. Farrer, F.S.A.

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H. Rider Haggard, Esq., J. P.

G. A. Hardy, Esq., M.P.

The Rev. D. P. Harrison, M.A.

The Rev. J. F. A. Hervey, M.A.

The Rev. E. Hill, M.A.

The Rev. J. Holden, M.A.

J. Sancroft Holmes, Esq., J. P., D.L.

Oliver D. Johnson, Esq., J. P.

Roger Kerrison, Esq., J.P.

Col. H. Mussenden Leathes

John Seymour Lucas, Esq., R.A.

George Manners, Esq., J.P., D.L.

T. TiNDAL Method, Esq., J.P.

Claude Morley, Esq., F.E.S.

Col. O. H. Oakes

R. H. Inglis Palgrave, Esq., F.R.S.,

JP-

Capt. E. G. Pretyman, J.P., D.L.

F. H. Pretyman, Esq.

Capt. W. G. Probert

Vincent B. Redstone, Esq., F.R.Hist.S.

F. S. Stevenson, Esq., B.A., J.P., D.L.

The Rev. Julian G. Tuck, M.A.

The Rev. Canon Warren, B.D., F.S.A.

B. Eaton White, Esq., J.P.

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Lichenes {Lichens)

Fungi

Zoology

Marine

Molluscs (Non-Marine)

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By R

Edi

By C

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E. Salmon

By the Rev,

By the Rev

G. R. Bullock-Webster, M

E. N. Bloomfield, M.A., F

A.,F

A.

E.S.

E.S.

By the late H. C. Sorby, LL.D., F.R.S., F.S.A.

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By J. T. CUNNINGHAM, M.A.

By G. T. Rope

By the Rev. Julian Tuck, M.A. .

By G. T. Rope

By W. Allen Sturce, M.V.O., M.D., F.R.C.P.

By W. A. DuTT

By George Clinch, F.G.S., F.S.A. (Scot.)

By the late George E. Fox, M.A., F.S.A.

By Reginald A. Smith, B.A., F.S.A.

jt j» ?» ••

By Beatrice A. Lees, Oxford Honours School of

Modern History

Adapted from the Translation by the late Lord Hervey

By J. C. Wall

By Professor George Unwin, B.A. .

By Dorothy Kemp, Oxford Honours School of

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Early Man :

Plan of Mildenhall District

Sections of the Warren Hill Ridge

Flint Implements. Plate I

Plate II .

Plate III .

Plate IV ,

Boyton : Gold Torque

Lakenheath : Bronze-Age drinking cup

Saape : Cinerary urn

Fornham : Celt

Lakenheath : Celt

Mildenhall : Celt .

Honington : Palstave

Mildenhall : Bronze finger-ring .

Ornament on lid of bronze box .

Westhall : Enamelled bronze harness-ring

Lakenheath : S-shaped brooch with typical late Ce

,, Small socketed bronze axe

Mildenhall : Iron bill-hook of the Early Iron Age

Westhall : Bronze cylinders

Romano-British Suffolk :

Burgh Castle : Plan showing position .

„ „ Plan of Gariannonum .

Walton Castle : Plan showing position

Chart of entrance to Harwich Harbour in 1686

Walton Castle : Ground plan and ruins

„ „ Vase from cemetery .

Whitton : Fragment of mosaic pavement

Rougham : Contents of barrow .

Barking Hall : Bronze figure

Icklingham : Pewter from the Acton Collection

Coddenham : Mirror case

Cowlinge : Bronze jar or household god (Hercules)

.. (Mercury)

Herringfleet : Bronze vessel

Icklingham : Plan of Roman house, Horselands .

Kesgrave : Medallion in terra cotta

Icklingham : Square pewter dish and other pieces .

Mirtlesham : Base of bronze figure

Melton : Plan of tile kiln . . . •

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Anglo-Saxon Remains :

Snape : Cinerary urn

„ Gold ring with Roman int.iglio

„ Boat in grave-mound

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Sutton near Woodbridge : Gold front of jewelled brooch

Ipswich : Bronze square-headed brooches . . . 1

„ Square-headed and circular brooches and buckle)

Cinerary urns found in Suffolk. Plate III .

Ixworth : Bronze brooch

Cinerary urns found in Suffolk. Plate IV .

Ixworth : Bronze-gilt disk-head of pin .

Two bronze mounts of sword-scabbard (.) •

Akenhain H.dl, Ipswich : Pair of long brooches)

West Stow Heath : Bronze brooch . . J

Warren Hill, Mildenhall : Bronze badge (?) offish form

Mitchell's Hill, Icklingham : Gilt-bronze buckle

Ipswich : Iron axe-head

Mildenhall : Lead weight with bronze-gilt top

„ Bronze-gilt brooch with silver mounts

„ Part of bracelet-clasp

„ Bronze brooch, once enamelled

Felixstowe : Lion brooch of bronze

Bronze brooch in form of bee

Blythburgh : Whale's bone tablet for writing

Ancient Earthworks :

Burgh (near Woodbridge) : Castle Field

Clare : Camp .

Burgh Castle .

Chvington Hall Farm

Great Ashfield : Castle Hill

Orford Castle .

Bungay Castle .

Clare Castle .

Eye Castle

Framlingham Castle .

Denham Castle

Haughley Castle

Iketshall St. John : The Moun

Lidgate Castle

Lindsey Castle

Milden Castle

Otley : Site of Castle

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Mettingham Castle .

Wingfield Castle

Lawshall : The Warbanks

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PREFACE

EAST ANGLIA exhibits a peculiar difficulty to the county historian on account of the small size, and consequently the

large number, of its parishes and manors. This is probably
the cause of various unsuccessful attempts to' write the
history of Suffolk. Some of these efforts have so far matured as
to reach the stage of the publication of one or two volumes, while
others have not got beyond the stage of preliminary manuscript
collections. The first to attempt a county history of Suffolk was
John Gage, F.R.S., F.S.A., who, in 1838, took the name of Rokewode.
He published, in 1822, The History and Antiquities of Hengrave, in which
parish was the family seat of his father and afterwards of his elder
brother. In 1838 he issued the first volume of his proposed larger work,
The History and Antiquities of Su^olk, containing the history of the hundred
of Thingoe, the only part of his history which reached publication. His
work is careful and exhaustive, and it is much to be regretted that it was
not completed. His valuable collections for the continuation of the
work are now preserved at Hengrave Hall. The next to take up the
history of the county was Alfred Inigo Fox, LL.B., who, in 1820, took
the name of Suckling. He began the publication of his History and
Antiquities of Suffolk in 1846, but, like Gage, he only completed the
history of one hundred, that of Lothingland. Kirkby's Suffolk Traveller,
published in 1848, and its later edition, with supplement by Augustine
Page, published in 1844, cannot be strictly called county histories,
although they contain much useful information. An admirable history
of the county was undertaken by the late Mr. W. A. Coppinger, M.A.,
LL.D., F.S.A., who, in 1905, published The Manors of Suffolk, with
Notes on their History and Devolution. This volume contains the history
of the hundreds of Babergh and Blackburn. In 1908 the second
volume, including the hundreds of Blything, Bosmere, and Claydon,
appeared. Dr. Coppinger's Materials for the History of Suffolk, containing

references to sources for a history of the county, is of great value to all those interested in the topography of Suffolk. Besides the printed histories of the county, there are several manuscript collections for histories, principal among which are those of David Ehsha Davy, B.A., which were purchased by the British Museum in 1852 (Add. MSS. 1 9077-1 9207) ; of Davy's friend, H. Jermyn, which were presented to the British Museum by Herbert Gurney in 1830 (Add. MSS. 8168-96) ; and of Craven Ord, F.R.S., F.S.A., most of whose collections are also now in the British Museum (Add. MSS. 71 01-2, 8986-7),

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PREFACE

During the preparation of this volume the Editor has had to deplore the death of Mr. H. C. Sorby, LL.D., F.R.S., F.S.A., who left the rough draft of his article on the Marine Zoology of the county, the revision of the proofs of which was generously undertaken by the Rev. Canon Norma/i, D.C.L. The Editor also greatly regrets the loss of his old and much esteemed friend, Mr. George E. Fox, Hon. M.A., F.S.A., whose profound knowledge of Roman archaeology and kindly sympathy endeared him to a large circle of friends. Mr. Fox died before finally revising the proofs of his article on the Roman Remains of the county, for the correction of which the Editor is responsible. The late Canon Raven was to have written the articles on Early Man and the Anglo-Saxon Remains of the county, but died before commencing the work.

The Editor has to express his thanks to Lord Francis Hervey for advice and assistance ; to the Society of Antiquaries, the Suffolk Institute of Archaeology and Natural History, the British Archaeological Association, the Royal Archaeological Institute, the Prehistoric Society of East Anglia, Mr. C. D. Pridden, M.A., Mr. Frank Woolnough, Mr. W. Allen Sturge, M.V.O., M.D., F.R.C.P., and Miss Nina Layard, for illustrations and information ; and to Mr. Vincent Redstone for his ready help in many ways while passing the sheets through the press.

Owing to unforeseen circumstances there has been a delay in the publication of this volume ; hence it is possible that works issued during the past year, touching upon the subjects with which it deals, may not have been consulted.

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TABLE OF ABBREVIATIONS

O.)

Abbrev. Plac. (Rec

Com.)

Acts of P.C.

Add. . . .

Add. Chart.

Admir. .

Agarde .

Anct. Corresp.

Atict. D. (P.R

A 2420

Ann. Mon.

Antiq. .

App. .

Arch.

Arch. Cant

Archd. Rec

Archit. .

Assize R.

Aud. Off.

Aug. Off

Ayloffe

Bed. . .

Beds . .

Berks .

Bdle. .

B.M. .

Bodl. Lib.

Bore.

Brev. Reg.

Brit. . .

Buck..

Bucks

Cal. .

Camb.

Cambr.

Campb. Chart

Cant.

Cap. . . .

Carl. . .

Cart. Antiq. R.

C.C.C. Camb. ,

Certiorari Bdles.

(Rolls Chap.)

Chan. Enr. Decree

R.

Chan. Proc.

Chant. Cert.

Chap. Ho. .

Charity Inq.

Chart. R. 20 Hen.

III. pt. i. No. 10

Abbreviatio Placitorum (Record Commission)

Acts of Privy Council

Additional

Additional Charters

Admiralty

Agarde's Indices

Ancient Correspondence

Ancient Deeds(Public Record Office) A 2420

Annates Monastici

Antiquarian or Antiquaries

Appendix

Archæologia or Archaeological

Archæologia Cantiana

Archdeacons' Records

Architectural

Assize Rolls

Audit Office

Augmentation Office

Ayloffe's Calendars

Bedford

Bedfordshire

Berkshire

Bundle

British Museum

Bodley's Library

Borough

Brevia Regia

Britain, British, Britannia, etc.

Buckingham

Buckinghamshire

Calendar

Cambridgeshire or Cambridge

Cambria, Cambrian, Cam-
brensis, etc.

Campbell Charters

Canterbury

Chapter

Carlisle

Cartx Antiqua; Rolls

Corpus Christi College, Cam-
bridge

Certiorari Bundles (Rolls

Chapel)

Chancery Enrolled Decree

Rolls

Chancery Proceedings

Chantry Certificates (or Cer-

tificates of Colleges and

Chantries)

Chapter House

Charity Inquisitions

Charter Roll, 20 Henry III.

part i. Number 10

Chartul. .

Chas.

Ches.

Chest. .

Ch. Gds.

K.R.)

Chich. .

Chron. .

Close

Co. . .

Colch. .

Coll.

Com.

Com. Pleas

Conf. R.

Co. Plac.

Cornw. .

Corp.

Cott. .

Ct. R. .

Ct. of Ward

Cumb. .

Cur. Reg.

D. . .

D. and C.

Dc Banc. R

Dec. and Ord

Dep. Keeper's

Derb. . .

Devon .

Dioc. . .

Doc. . .

Dods. MSS.

Dom. Bk. .

Dors.

Duchy of Lane

Dur. .

(Exch

Re

East.

Eccl. .

Eccl. Com.

Edw. .

Eliz.

Engl. .

Engl. Hist.

Enr.

Epis. Reg.

Esch. Enr. Accts.

Excerpta e Rot. Fin

(Rec. Com.)

Exch. Dep.

Exch. K.B.

Exch. K.R. .

Exch. L.T.R. .

Rep,

Chartulary

Charles

Cheshire

Chester

Church Goods (Exchequer

King's Remembrancer)

Chichester

Chronicle, Chronica, etc.

Close Roll

County

Colchester

Collections

Commission

Common Pleas

Confirmation Rolls

County Placita

Cornwall

Corporation

Cotton or Cottonian

Court Rolls

Court of Wards

Cumberland

Curia Regis

Deed or Deeds

Dean and Chapter

De Banco Rolls

Decrees and Orders

Deputy Keeper's Reports

Derbyshire or Derby

Devonshire

Diocese

Documents

Dodsworth MSS.

Domesday Book

Dorsetshire

Duchy of Lancaster

Durham

Easter Term

Ecclesiastical

Ecclesiastical Commission

Edward

Elizabeth

England or English

English Historical Review

Enrolled or Enrolment

Episcopal Registers

Escheators Enrolled Accounts

Excerpta e Rotulis Finium

(Record Commission)

Exchequer Depositions

Exchequer King's Bench

Exchequer King's Remembrancer

Exchequer Lord Treasurer's
Remembrancer

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TABLE OF ABBREVIATIONS

Eich. of Pleas, Plea

R.

Exch. of Receipt .

Exch. Spec. Com. .

Feet of F. . . .

jod. Accts. (Ct. of

Wards)

Feod. Surv. (Ct. of

Wards)

Feud. Aids .

fol

Foreign R. . . .

Forest Proc.

Exchequer of Pleas, Plea Roll

Exchequer of Receipt

Exchequer Special Commis-
sions

Feet of Fines

Feodaries Accounts (Court of

Wards)

Feodaries Surveys (Court of

Wards)

Feudal Aids

Folio

Foreign Rolls

Forest Proceedings

Gaz Gazette or Gazetteer

Gen Genealogical, Genealogica,

etc.

Geo George

Glouc Gloucestershire or Gloucester

Guild Certif (Chan.) Guild Certificates (Chancery)

Ric. II. Richard II.

Hants

Harl.

Hen.

Heref

Hertf

Herts

Hil. .

Hist.

Hist. MSS. Com.

Hosp.

Hund. R. . .

Hunt. . . .

Hunts .

Inq. a.q.d.

Inq. p.m.

Inst. . .

Invent. .

Ips. .

Itin. . .

Jas. .

Journ.

Lamb. Lib.

Lane

L. and P. Hen.

VIII.

Lansd.

Ld. Rev. Rec. . .

Leic

Le Neve's Ind.

Lib

Lich

Line

Lond

m

Mem

Hampshire

Harley or Harleian

Henry

Herefordshire or Hereford

Hertford

Hertfordshire

Hilary Term

History, Historical, Historian,

Historia, etc.

Historical MSS. Commission

Hospital

Hundred Rolls

Huntingdon

Huntingdonshire

Inquisitions ad quod damnum

Inquisitions post mortem

Institute or Institution

Inventory or Inventories

Ipswich

Itinerary

James

Journal

Lambeth Library

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Soc

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Somers

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Vetusta Monumenta

Victoria County History

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Volume

Warwickshire or Warwick

Westminster

Westmorland

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Wiltshire

Winchester diocese

Worcestershire or Worcester

Yorkshire

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A HISTORY OF SUFFOLK

Orihocephalus saltatory and, at Lowestoft, *O. mutabilis* have been noticed here. Six kinds of Dicyphus (of which *D. pallidornis* is confined to *Digitalis purpurea* at Freston), *Campyloneura virgula*[^] and the two species of *Cyllocoris* are all common on their respective food-plants. *Aetorhinus angulatus* is often attracted to light at night ; and I have captured *Glochiceps flavomaculatus*, *G. dispar*, and *Me-*

comma ambulans. Butler has taken a macropterous specimen of *Cyrtorrhinus flaveolus* at Fritton,' I have found *C. caricis* at Wherstead, and *C. pygmaeus* has occurred to Thouless at Fritton. Eleven species of the genus *Orthotylus* have been found in Suffolk, of which *O. prasinus*, taken by Saunders at Southwold in 1877, *O. tenellus* at Freston, and *O. rubidus* on *Artemisia maritima* are the only uncommon ones. *Hypsitylus bicolor*, *Heterocordylus tibialis*, *Onychumenus decolor*, and *Oncotylus viridiflavus* are uncommon, and *Heterotoma merioptera* abundant on nettles. *Loxops coccineus* has only been seen at Kentford, with *Malacoris chlorixans* in the Bentley and Dodnash Woods. The two common *Macrocolei* and both the *Macrotyli* are met with ; *Conostethus roseus* is abundant upon Foxhall Plateau and *Harpocera thoracica* on oaks everywhere. *Amblytylus affinis*, *Byrsoptera rufifrons*, the three *Phyli* and *Atractotomus magnicornis* occur sparingly, though *A. mali* has only been found at Bungay upon one occasion in 1903. Eleven species of *Psallus*, among which *P. alnicola* at Freston and *P. Rotermundi* at Brandon are very local, and six of *Plagiognathus*, of which *P. albipennis* is found on *Artemisia maritima* all along the coast, have been noticed. Butler took *Asciodesma obsoletum* at Lowestoft in 1891 ; I have recently also turned it up about Ipswich.

Many of the interesting aquatic Cryptocerata await discovery, and few unusual kinds have been noticed. *Naucoris cimicoides* is said by Paget to have been very common in ditches about Yarmouth in 1825 ; it occurs at Oulton Broad, Ipswich, in brackish water at Bawdsey, and swarms in the Tostocic ponds. *Nepa cinerea*, the water-scorpion, is generally common ; but the handsome *Ranatra linearis* stood on the authority of a single specimen taken many years ago at Battisford by Baker, till Tuck took several in one pond in the middle of a field at Drinkstone in October 1901.* *Notonecta glauca* is abundant, and its variety *furcata* is referred to by Paget ; *Plea minutissima* occurs in all the ponds about Ipswich. Of the extensive genus *Corixa*, comprising the lesser waterboatmen, we have only fifteen kinds as far as is at present ascertained ; all these are fairly widely distributed, though *C. fallenii* is represented by only two individuals taken respectively in 1893 and 1904, *C. cohoptata* and *C. venusta* are restricted to Bixley Decoy and Oulton Broad, and *C. limitata* is very rare and local. *C. lugubris* often occurs, mixed with *C. praeusta*, in the utmost abundance among shrimps, in the brackish ditches at Bawdsey, the net becoming weighed down with a dark mass of them.

From this short resume of the Heteroptera it will be seen that some two hundred and eighty-four species have been noticed in Suffolk. Considering that I captured over a hundred in 1897 alone, and that less than that number have been added during the following eight years, it is sufficiently obvious that collecting of late has fallen into neglect, and that assiduous working might show up many new kinds.

HOMOPTERA

CICADIDAE

In this group we have had even less observations to draw from than was the case in the Heteroptera. Mr. Butler noted a few about Lowestoft in 1891, Mr. Edwards mentions one or two kinds from Southwold and Brandon, and Curtis records, I think, two from the county. It cannot, therefore, be wondered at that I have been able to include little more than exactly half the British kinds ; but, with our extensive marsh country, to which many of those insects are restricted, quite another fifty or sixty kinds should turn up if systematically sought in favourable situations and upon their particular food plants, for these, like the last group, are entirely phytophagous in their economy.

The curious *Centrotus cornutus* is a common species on bushes in the woods about Ipswich, Bury St. Edmunds, and Lowestoft in June ; but *Gargara genistae* is very local at Tostock and Ipswich, though Mr. Norgate has taken it commonly on broom at Barnham and Downham in the north-west. *Issus coleoptratus* has only occurred singly at Ipswich in 1894 and 1904, and in a wasps' nest in a holly bush near Bury ; *Cixius pilosus* and *C. nervosus* are common, though *C. cunicularis* is decidedly local at Tostock and Assington Thicks in July. The thick-horned *Asiraca clavicornis* was first found by Curtis at Henstead near Wangford, and more recently by myself among coniferae in Bentley Woods, it is not uncommon about Brandon ; I have also found *Delphax pulchella* to be

somewhat common on reeds in Benacre and Herringfleet Broads in the middle of August. The extensive genus *Liburnia* requires much more full investigation than it has hitherto received ; of the

- Ent. Mo. Mag. 1891, p. 277. 'Cf. Tram. Norf. Nat. Soc. 1902, p. 333.

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fifty British species only eighteen have been observed, amongst which *L. notula* occurs on reeds in Oulton Broad, *L. lineola* in Dodnash Woods, and on the banks of the Orwell, *L. longipennh* in tufts of *Carex pankulata* at Foxhall in the winter ; *L. vittipennis* is abundant in Tuddenham Fen, where Elliott has taken *L. fuscovittata* in some numbers ; and *L. punctulum* with *L. pelludda* and *L. scotti* about Lowestoft, where it was found by Butler, as well as at Claydon Bridge and Foxhall.

Mr. Edwards tells us' that *L.*, or *Chloriona glaucescens*, Fieb. — formerly thought to be *C. unicolor*, H. S. — has been found by him commonly on reeds in the coast marshes at Southwold in August. *L. leptosoma* and *L. limbata* are common, and *L. eUgantula* local at Foxhall, Kentford, and Tuddenham ; but *L. speciosa*, which does not appear to have been taken in Britain for many years, has been but sparingly met with by Mr. Elliott and myself in marshes at Ipswich, Barton Mills, Brandon and Tuddenham Fen. The remaining species are *Liburnia difficilis*[^] *discolor*, *exigua*, *Fairmairei*, and *lineata*, whose distribution is not yet fully known.

Of the rest of the Delphacidae, I have seen *Dicranotropus hamata* from Foxhall to Tuddenham, and *Stiroma pteridis* common on bracken, *P. albomarginata* at Bentley and Tuddenham, *P. affin* once swept at Freston in 1904. The extremely handsome *Triecphora vulnerata* is by no means uncommon upon young poplars and flying in the sunshine in the Bentley Woods, Assington Thicks,

and Holbrook Park in June ; both species of *Aphrophora* live about Ipswich and Bury ; and all the British *Philaeni*, or ' Cuckoo-spits,' are common, though *P. lineatus* appears somewhat local, and several forms of *P. spumarius* have not been met with. *Ledra aurita* is uncommon on oaks in the Bentley Woods, at Tostock and Battisford ; *Ulopa reticulata* often swarms beneath heather ; and *Megophthalmus scanicus* is very common. Among the pretty family *Bythoscopidae*, we have a much better percentage of representatives. *Afacropsis lanio* is often beaten from oak trees ; *Bythoscopus atni* rarely met with on the banks of the Gipping and in Bentley Woods, where as elsewhere *B. flavidollis* abounds ; the rare *B. rufusculus* has occurred singly in Tuddenham Fen and the Bentley Woods in 1904. *Pediopsis scutellatus*, *P. tibialis*, *P. impurus*, and *P. ulmi* all occur with fair frequency, and last year I discovered *P. cereus* in Tuddenham Fen and *P. fuscinervis* at Foxhall, both in August ; *C. virescens*, too, has lately turned up at Tostock, Kentford, and Barham. *Idiocerus adustus*, *I. populi* and */.* *confusus* are not infrequent upon poplars and willows ; an example from Farnham appears referable to *I. fulgidus* ; and I have also recently found here */.* *lituratus* in Tuddenham Fen and */.* *distinguendus* in Assington Thicks, which latter Mr. Tuck took at Aldeburgh ;* */.* *albicans* is local at Freston, Tuddenham, and Brandon, and a single */.* *tremulae* has occurred in Bentley Woods. *Agallia puncticeps* and *A. venosa* both occur, the latter being widely distributed at Claydon, Southwold, and Brandon. *Evacanthus interruptus*, upon ragwort, and *E. acuminatus* are both found in the Bramford chalk pits ; and *Tettigonia viridis* is often a pest in marshes throughout the county. We possess all the British *Acoctphali*, the only uncommon one being *A. flavostriatus*, which Butler has turned up in Fritton Decoy and I have seen at Kessingland. *Eupelix cuspidata* has only been noticed on the Breck sands and Foxhall Plateau ; but *Doratura stylata* and *Paramesus nervosus*, of the former of which I captured a specimen of the macropterous form at Ipswich in 1896, are common. I also beat a single *Glyptocephalus proceps* at Barren Heath near Ipswich in July 1904.

The Jassidae leave much to be desired ; the only common *Athysani* being *A. hrevipennis*, *communis*, *sordidus*, *obsoletus*, and *obscurellus* ; Butler has found *A. grisescens* at Lowestoft. Twelve kinds of *Deltocephalus* are enumerated, of which five — *D. pascuellus*, *coronifer*, *distinguendus*, *sabulicola*, and *punctum* — were first taken by Butler about Lowestoft ; Edwards records *D. Normani* from

Fritton, and I have seen *D. argus* in the Westleton lamb-pits and at Foxhall, where *D. citrinellus*, *ocellaris*, and *striatus* also occur. *D. Flori* and *D. pulicaris* appear to be rare at Freston.¹ *Allygus mixtus*, *Limotettix antennata*, and *L. quadrinotata* are common, as also probably is *L. sulphurella*, though I had not met with it till last August, when the rare *L. aurantipes* occurred to me at Foxhall and Bramford marshes. Of our six species of *Thamnotettix*, Tuck met with *T. splendidula* at Tostock in October 1899 ; and I beat a couple of *T. Torneella* from birch in the Bentley Woods in May and June 1902, from bushes through which I have beaten with no sign of this insect for ten consecutive years ; it is rare in Britain, but has a wide range from Rannoch to the New Forest. *T. attenuata* first turned up, and then commonly, at Foxhall late in September 1904. Edwards has found the rare *Cicadula jascifrons* at Southwold; and I have once or twice met with *C. septemnotata*, which is much rarer here than *C. sexnotata* ; *Gnathodes punctatus* is local at Bentley Woods and Foxhall. *Alebra albostriella* has been observed, and, in Tuddenham Fen, in June 1901, I took three examples of an allied insect, which was common there on birch, though apparently hitherto unrecognized in Britain. *Dicraneura variata* is abundant and *D. flavipennis* common. The

¹ Ent. Mo. Mag. 1898, p. 60. Cf. Trans. Norf. Nat. Soc. 1902, p. 332.

' Since the above was written I have been so fortunate as to capture somewhat commonly *Deltoccephalus formosus*, a species not hitherto noticed in Britain, in a marshy wood at Brandon, on the banks of the Little Ouse, which forms the north-west boundary of the county (Cf. Ent. Mo. Mag. 1908, p. 59). — C. M.

South wold, where it is attracted to lamplight in July ; and *C. viridula* is always abundant in the spring at Bentley and in Ipswich gardens. Of the slender and fragile genus *Eupteryx*, we have twelve kinds, all common and widely distributed except *E. melissae* from Foxhall, *E. abrotani* in salt marshes at Southwold, and *E. signatipennis*, which occurs abundantly, but solely, on *Spiraea ulmaria* in the Freston Woods. Only ten species of *Typhlocyba* have at present been noted, amongst which *T. sexpunctata*, *ulmi*, *Douglasi*, *rosae*, and *quercus* are common ; *T. tenerima* occurs at Ipswich and Carlton Colville, *gratiosa* at Southwold, *geometrica* sparingly on alder and *mtidula* once only on beech at Foxhall. *Xygina flammigera* has been found at Wherstead, *Z. parvula* at Bramford and Foxhall, where also *Z. scutellaris* has occurred, and I have once swept the rare *Z. hyperici* from a mass of *Hypericum hirsutum* in the Bentley Woods in the middle of September.

PSYLLIDAK

The difficulty of determining the Psyllina has greatly contributed to their being passed over in the field, consequently there are comparatively few records. *Livia juncorum* is certainly rare at Bramford and Foxhall in the autumn, though it is said to be universally abundant at the roots of rushes; on 19 August 1904 I swept the two first British specimens of *L. limbata*, in Tuddenham Fen. *Psyllopsis fraxinicola* is abundant on ash trees everywhere, but *P. fraxini* has only been seen at Assington and Barham. *Aphalara calthae* is not rare, but *A. exilis* has only occurred at Foxhall once. Of the clear-winged genus *Psylla*, we have twelve species, few of which claim especial attention excepting to point out that many may be beaten from coniferae in the winter : thus *P. pruni* has been found in the Bentley Woods, with *P. pineti*, in March ; *P. melanoneura* has been taken by Chitty at Foxhall in the same month, and *P. buxi* lives in my garden here at Monk Soham till quite late in the autumn on box-trees. *P. visci* Curtis described from specimens found at Rougham, near Bury St. Edmunds, but it has not since been reported from the county. *Trioza urticae*, *g'lii*, and *remota* are probably, like *Arytaena genitiae*[^] all abundant ; but *T. crithmi* has only once occurred to me, in some numbers in August in the coast salt marshes at Southwold.

Aphididae

For the purpose of adding some account of the green flies of the county to this History, I began to collect them last May, and succeeded so well in their identification, with the aid of Buckton's Monograph of the British Aphides, published by the Ray Society, 1876-83, that I am able to present a very representative account of them. By slavishly following this work I have been enabled to name nearly every specimen taken upon its own food-plant, and can only regret that so little interest is shown in this most interesting family in Britain, where I know of no one who pretends to any knowledge of the subject since the author's death. Except where stated the following species were taken in the garden of Monk Soham House during 1907.

The first species of the Aphidinae, and one of the most prevalent, was *Siphonophora rosae*, which was seen upon the young shoots of both wild and cultivated roses throughout the summer, as well as upon the leaves of adjacent *Aquilegia vulgaris* at the end of July. I did not look for *S. granaria* till the middle of August, but harvest had hardly begun, and I at once found both the imaginal forms commonly on some adventitious ears of wheat in my garden and a few females on barley in neighbouring fields. *S. hieracii* were very rare beneath flower-heads of *Hieracium* early in August, associating with a few females of *Aphis rumicis*. As early as 1 June larvae of *S. millefolii* appeared on the flower-stalks of *Chrysanthemum segetum*, and in early August both winged and apterous imagines were fairly common on the stems of both that plant and *Achillea millefolium*, becoming abundant by the middle of the month ; it also occurs at Brandon. At the end of July I found *S. pisi* not very commonly on my garden peas and its larvae on *Bursa bursa-pastoris* ; in 1903 I took it near Ipswich in October. *S. ruhi* was not observed till the first week in August, when both imaginal forms were seen on the leaves of *Rubus fruticosus* with *Aphis urticariae*. *S. urticae* has been scarce ; I took only one apterous female, still attached to her pupal skin, on nettle early in August. The distinct *A. avellanae* also appears rare, since of this I have also found but one apterous female on *Corylus avellanae* in early June. Larvae, pupae, and apterous forms of *S. tanaceti* abounded in a dandelion in the middle of August. On *Tusilago farfara* numerous dead *S. tussilaginis* were found early in the same month ; and a diligent search revealed but two winged forms.

S. sonchi, in its apterous forms, is one of our commonest species on *Centurea nigra* at Monk Soham, Southwold, and Brandon. Larvae, pupae, and apterous imagines of *S. cichorii* occurred upon a plant of chicory near Easton Park on 17 August; and I saw it also at Dunwich in the middle of September. Five *S. olivata* were taken on *Cnicus palustris* in the Bentley Woods in August 1904.

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The small *Phorodon humuli* was abundant on the underside of hop leaves near Easton Park in August ; and a protracted examination of *Lamium album* in my garden revealed a solitary winged *P. ga/eopsidis*, on the under side of the leaf, in the same month. On 7 June a score of *Myzus cerasi* in all their stages, though only two winged, were found on cherry ; and in early August I took *M. ribis* rarely on *Ribes rubrum*. Quite suddenly on 4 August, *Drepanosiphum acertna* appeared commonly beneath maple leaves and those of adjacent hazel and dogwood. Apterous females, larvae, and pupae of the distinct and presumably rare *Megoura vic'iae* were found very commonly feeding upon the pods and stems of *Lathyrus pratensis* in a damp meadow near Easton Park on 17 August. Early in June *Rhopalosiphum ribis* was found in hundreds in all its stages in rolled leaves of *Ribes nigrum* ; and it is certainly the same species that Kirby referred to nearly a century ago when he wrote :^o ' Last week I observed the top of every young shoot of the currant trees in my garden (at Barham) curled up by myriads of these insects.' *R. nymphae* was abundant on the stalks of *Yilisma plantago* in July and *Nymphaea alba* in August, in the moat which surrounds my house, but among thousands of the apterous form I could detect but one winged specimen. A very few winged females and pupae only of *R. Itgustri* were taken early in August on privet leaves. Exclusively winged forms of *Siphocoryne pastinaceae* were found on wild carrot both here and in the adjacent parish of Bedfield

in August. *S. xylostei* is a great pest on honeysuckle over the house-windows. *S. capreae* occurs commonly on the leaves of willow and, like *S. xylostei*, extends throughout the summer. *S. foeniculi* has only been seen on fennel at Dunwich in the middle of September.

The genus *Aphis* is an extensive one, and many of its species are common. *A. brassicae* was forming large powdery masses on the flowers of cabbages on 9 June, and was still abundant up to the end of August ; but I have seen no winged forms. About the same time I found a little cluster of four apterous *A. crataegi* on a leaf of whitethorn in Framlingham Castle moat ; and *A. subterranea* was very common on a carrot, just below the ground, at the end of August. On whitethorn at Bedfield early in the same month *A. edentula* was not uncommon in all its forms on terminal shoots. Mallow failed to produce *A. malvae*, but it occurred abundantly beneath the flower-heads of yarrow in early August. On 1 June winged *A. mali* were somewhat common, with a few scattered pupal skins on the leaves of the apple trees ; and on the 3rd the apterous females and larvae were found to be abundant in their curled leaves ; the whole pest had, however, quite vanished by the end of July. *A. urticaria* was very common on the stems of nettle early in June ; and in curled leaves of *Prunus spinosa*, *A. pruni* was prevalent at the same time, with a proportion of one winged to every score of apterous forms. *A. atriplicis* occurred on the sea lavender and *Aster riparium* in the salt marshes about Southwold early in September. *A. hieracii* was first seen very rarely on leaves of *Heracleum sphondylium* on 9 June, by the middle of July it was common, and at the beginning of August extremely abundant on the stems of hogweed ; it also appeared at Southwold. A single plant of the hairy willow herb, among many, produced a dozen larvae and one of both forms of the female of *A. epilobii* in the middle of August. *A. hederae* is only too common on the ivy around the house. *A. rumicis* is one of the commonest kinds here, and bewilderingly omnivorous ; I first took the winged form singly on the young leaves of *Rumex acetosa* ; it abounded on broad beans throughout the summer, also attacking *Cnicus arvensis*, *Petasitis officinalis*, beet, and *Hieraceum*. Thirteen of the very distinct larvae of *A. papaveris* were clustered together on a leaf of scarlet poppy on 30 July ; and all the forms of *A. pyri* were abundant in curled leaves of pear early in June. *Hyalopterus arundinis* was so numerous on reeds in the salt-marshes about

Southwold in September as to appreciably weigh down the sweep-net ; and Bucton records *H. melanocephalus* from Brandon.

At the end of May, *Chaitophorus aceris* was very numerous beneath the leaves of maple, mingling later with *Drepanosiphum*. Early in August I succeeded in securing three examples of the winged form of *C. salicivorus*, among myriads of the apterous one, which were scattered all over the leaves of sallow ; later I also saw the species at Southwold. In the middle of August *C. leucomelas* was not uncommon in its curious blisters on aspen leaves at Monk Soham, Debenham, and Easton Park. Buckton also records *Cryptosiphum artemisiae* from Brandon. *Callipterus betuleticola* is excessively abundant on birch in Tuddenham Fen and at Mildenhall ; *C. coryli* occurred commonly, though singly and sparsely, here on hazel leaves in August. It was common in Easton Park in the middle of the month, together with *C. quercus*, which I first found on oak leaves in my garden on 4 June. On 27 August 1906 *C. castaneae* was swept from rough heath grass in Tuddenham Fen ; and this year I also found it at Brandon. *Pterocallis juglandicola* turned up on a walnut tree at Sibton Abbey in the middle of September ; and, on the leaves of alder near Easton Park, winged *P. alni* were not rare, though only one apterous imago and but a few larvae were present in the middle of August. I have twice captured *P. tiliae* flying in July at Ipswich and Kessingland ; here the winged form is solitarily abundant on the under side of lime leaves. *Phyllaphis fagi* was

"• Introd. to Entom. (7th ed.), 152.

abundant in all stages on the leaves of both old and young beeches at the beginning of June, but soon disappeared.

Of LachnuSy the presumably rare *L. agilis* was commonly beaten from pines in the middle of August, though but three winged forms were seen. Many winged *L. macrocephalui* were beaten from spruce at Foxhall on 4 July 1904 ; and Kirby and Spence say '^\ that *L. plni* used to be common in the garden of Mr. Sheppard, who was curate of Nacton, 1804-7. I have captured winged *L. p'tnicolus* in the Bentley Woods in July and at Easton Broad in June ; and in the middle of August beaten the apterous form abundantly in my garden here, where were no winged individuals. Three hibernating winged females of the large *L. vimina/is* were found beneath willow bark by the Gipping at Ipswich during the winter of 1894-5. Kirby says ^\ that he has taken *Aphis radicum* (= *Trama troglodytes*) in the nest of *Lasius flavus* — most probably in this county. Of the Schizoneurinae, *Schizoneura lanigera* is only too common here and at Brandon on apple bark ; I have, however, seen none winged ; they were still on the trees 22 October 1907. Apterous *S. fuliginosa* are equally abundant in downy masses, one behind the other, on the pinnules of Scots fir in August ; the earliest winged ones appeared last year on 22 October. Perhaps the ubiquitous *S. corni*, more appropriately called vagans, was the species said by Kirby to have occurred in incredible numbers in Ipswich in 1814 ; it is, at all events, often abundant there, at Wherstead, and Barren Heath, as well as at Monk Soham, Reydon, Tuddenham, Eriswell, and Brandon, first appearing on 22 August in 1907. Of the remaining small families I can at present only mention *Cherma laricis*, of which I found eggs, larvae, and winged females abundantly on larches at Foxhall at the end of May, and a big oviparous female here in June ; and *Forda formkaria*, which Mr. Chitty took near Brandon in the nest of *Tetramorium caespitum* early in May.

Aberrant Hemiptera

Under this heading I shall notice the extremely few species of all those various families which have at different times been thought to possibly belong to this Order, because little or nothing has been ascertained respecting them in Suffolk, and they appear to have appealed very little to the collecting instincts of our entomologists. I have, for instance, very often seen Coccidae, or Scale Insects, on bushes and have passed them by on the other side ; once I did send what I thought to be

a Coccid to Mr. Newstead, but he returned it as the pupa of a Psyllid 1 Mr. Tomlin has found fluffy Coccids on bushes in the Bentley Woods, and I have no doubt *Mytilaspis*, *Aspidiotus*, and the rest of the pests are only too common with us, but I wot not of them. The only three species of the family I can refer to are the currant scale, *Pulvinaria riiesiaf*. Sign., which I saw on my currant bushes this year, *Aspidiotes crataegi* on hawthorn, and a white coccid, which simply covered the bark of a tall beech in my garden last August, but its name I do not know. Only two kinds of Aleurodidae have been mentioned by Mr. Douglas," both taken that year by Mr. Bonnewell ; *Aleurodes proUtella*, Linn., on celandine at Coddenham on 7 November, and *A. hrassicae*. Walk., on savoys in an Ipswich garden on the 14th of the same month ; the latter species occurred in my garden at Monk Soham on 3 June and again in October 1906. Of the Mallophaga, too, those apterous parasites of birds which have no suction-tube with its circle of hooks at the base, but a biting mouth, only three kinds can be instanced, though a very great many certainly occur, since each bird is supposed to possess a peculiar one. The first appears to be *Laemobothrum laticolle*, Denny, who says it is found on the genus *Falco* ; this was certainly taken, with many more of the same species, upon a hawk which a fowler had caught in his net near Ipswich in November 1900; and in October 1903 Mr. W. A. Dutt sent me apparently the same kind, found on a hobby hawk {*F. subhuteo*) at Lowestoft. Two domestic fowl lice, *Goniocotes hologaster* and *Menopon pallidum*, have been found in my hen-house at Monk Soham. The Pediculidae raise more aversion than interest, and the only three kinds at present under notice are *Pediculus capitidis*, Nitz ; that so often found on pigs, *Haematopinus suis*, Leach, and the dog louse, *H. piifirus*, Burm. Nor can we claim any authentic Thripsidae, though abundant everywhere and in July often sweeping over the neighbourhood in myriads, entering picture-frames in such numbers as to necessitate remounting, and tickling everyone's flesh ; the commonest kind here is probably *Limothrips cerealium*, Hal., so destructive to corn.* A second species, *Coleothrips fasciata*, Linn., has been somewhat doubtfully recorded from Monk Soham by Prof. Poulton."

In 1905 I published The Hemiptera of Suffolk, which brings the total of Heteroptera noted here up to 281 species, and the Homoptera, of the families Cicadidae and Psyllidae, to 162 species,

" Introd. to Entom. (7th ed.), 185. " Ibid. 336. " Ent. Mo. Mag. 1895, p. 68.

" Cf. my notes in E. Anglian Daily Timet, 7 Aug. 1906.

" Tram. Ent. Soc. 1906, p. 409.

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INSECTS

which numbers may be taken to very fairly represent the fauna of the county, though especial attention to these groups would doubtless reveal many more ; and indeed I am already able to add:—

Asopus punctatus. Beaten from rose, Tuddenham Fen,

Aug. 1905, by E. A. Elliott, F.Z.S.

Sehirus morio Found in sand at Brandon, May and

June, by A. J. Chitty, M.A., and myself

Gerris argentata. Oulton and Bantby Broads, early

Apr. 1903, by E. C. Bedwell, F.E.S

Phytocoris Reuteri. I beat one from white poplar at

Brandon, in Aug. 1906

Systellonotus triguttatus. At Brandon, in Aug. 1906,

by E. A. Elliott and myself

Corixa venusta. Four specimens in a 'swamp' at

Bix/ej Decoy, Foxha/l, in Mar. 1897

Ebumia forcipata. I swept this in an alder carr at

Reydon early in June 1905

Idiocerus varius. Beaten from trees at Brandon, in

the middle of Aug. 1906

Allygus modestus. One swept from manh plants in

Tuddenham Fen, in autumn of 1906

Deltocephalus socialis. Captured at Brandon and

Tuddenham Fen, in Aug. 1905

Deltocephalus formosus. A new British species, which

I swept at Brandon, Aug. 1906

Limotettix stactogala. Found commonly on tamarisk

at Southwold, Sept. 1907

Cicadula metria. Swept from reeds near Brandon

Stanch in the early autumn of 1906

Dicraneura similis. Two specimens were swept in

Tuddenham Fen, in Aug. 1905

Aphalara nervosa . One only, taken on ragwort in my

garden. Monk Soham House, 1907

A Summary of the Insects of Suffolk, October 1907

CoLEOPTERA : —

Suffolk

Adephaga 277

Palpicomia 74

Brachelytra 441

Clavicomia 34.3

S8

35

56

34

32

Lamellicomia

Stemoxi

Malacoderma

Teredilia

Longicomia

Phytophaga 187

Heteromera 73

Rhynchophora 320

Total . . 1,930

Hemiptira : —

Heteroptera 287

Homoptera 171

Aphididae 66

Other Groups 13

Total . . 537

Orthoptera

Grand Total

Britain

44+

95

777

681

90

76

9«

57

57

256

118

526

3TI68

43«

3z«

182

c. 299"

1.233

Neuroptera : —

Thysanura

Pseudo-neuroptera

Odonata

Subnecromorphotica .

Trichoptera . .

Total

Lepidoptera

Hymenoptera : —

Chrysididae

Aculeata

Evaniiidae .

Ichneumonidae

Braconidae .

Proctotrypidae

Chalcididae

Cynipidae .

Tenthredinidae

Total

53 DiPTERA . . •

Suffolk, 6,355. Britain

1,171 2,577'

14,678

" This is Dale's computation, and is probably much too low ; he says, Thripsidae, 46 ; Coccidae, 1 8
(cf Newstead) ; Aleyrodidae, 10 ; Pediculidae, 14 ; and Philopteridae, 211.

" Wallter, Haliday, and Westwood are stated to have described 1,274 ^Y Kirchner {Cat. Hym. Eurofi.) ;
I have found the above total to be correct by the closest scrutiny.

" Marshall says (Ent. Ann. 1874) that he has trebled Curtis's number — 56 ; there is no British list, and
the above total is that of the species described by Cameron, 1893.

" We cannot tell the total till Rev. F. D. Morice has completed his present work on this family {Ent. Mo.
Mag. 1903 et seq.).

TM Excluding all the doubtfully British species in Mr. Verrall's List. — C. M