

THE  
**ENTOMOLOGIST'S**

**Useful Compendium;**

OR

AN INTRODUCTION TO THE KNOWLEDGE

OF

**BRITISH INSECTS,**

COMPRISING

THE BEST MEANS OF OBTAINING AND PRESERVING THEM, AND  
A DESCRIPTION OF THE APPARATUS GENERALLY USED;

TOGETHER WITH

THE GENERA OF LINNÉ,

AND

The Modern Method of arranging the Classes Crustacea, Myriapoda,  
Spiders, Mites and Insects, from their Affinities and  
Structure, according to the views of DR. LEACH.

ALSO

AN EXPLANATION OF THE TERMS USED IN ENTOMOLOGY;  
A CALENDAR OF THE TIMES OF APPEARANCE AND USUAL SITUATIONS  
OF NEAR 3,000 SPECIES OF BRITISH INSECTS;

WITH

INSTRUCTIONS FOR COLLECTING AND FITTING UP OBJECTS  
FOR THE MICROSCOPE.

*Illustrated with Twelve Plates.*

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**Sp. 1. *Anas Imperator.***

Inhabits England in the New Forest of Hampshire. It is necessary to inform the young entomologist, that the insects of the first and second stirpes of this family require, whilst in a recent state, that the contents of the abdomen should be extracted, and filled with either a piece of paper or cotton, rolled up as near as possible to the natural size of the body, as without this precaution the insects will lose their colour and turn entirely black. For further directions see Instructions for Killing and Preserving.

**STIRPS 3.**—*Wings* erect: *head* transverse: *abdomen* cylindric, linear: *ocelli* or little eyes placed in a triangle.

Genus 386. AGRION. *Fabr., Latr., Leach.* LIBELLULA. *Linn.*  
*Wings* membranaceous, with a rhomboidal stigma: *abdomen* of the male not armed with a forceps-like appendage.

**Sp. 1. *Agrion sanguineus.***

Inhabits marshes.

Genus 387. LESTES. *Leach.*

*Wings* membranaceous with an oblong-quadrate paralleloiped stigma: *abdomen* of the male armed with a forceps-like appendage.

**Sp. 1. *Lestes autumnalis.***

Inhabits marshy places.

Genus 388. CALEPTERYX. *Leach.* AGRION. *Fabr., Latr.*

*Wings* coriaceo-membranaceous, without a real stigma, in place of which is sometimes an irregular transparent spot: *abdomen* of the male furnished with a forceps-like appendage.

**Sp. 1. *Cal. Virgo.***

Inhabits the banks of rivers.

**Fam. II. EPHEMERIDÆ. *Leach.***

EPHEMERINÆ. *Latreille.*

*Tarsi* four-jointed: *mouth* not distinct: *inferior wings* much smaller than the others, sometimes wanting: *abdomen* with the extremity furnished with filaments. *Metamorphosis* quadruple.

**STIRPS 1.**—*Tail* with two filaments.

Genus 389. BAËTIS. *Leach.* EPHEMERA. *Linn., Fabr., Latr.*

*Wings* four.

**Sp. 1. *Baëtis bioculata.***

Inhabits near water.

Genus 390. CLOEON. *Leach.*

*Wings* two.

**Sp. 1. *Clo. pallida.***

Ephemera diptera. *Linn., Fabr.*

Inhabits Norfolk and Cumberland, near large pieces of water.

STIRPS 2.—*Tail* with three filaments.

Genus 391. EPHEMERA of authors.

Sp. 1. *Eph. vulgata*. (Pl. 7. fig. 2.)

Inhabits marshes, and the banks of rivers.

Section II. FILICORNES.

*Antennæ* longer than the head, not subulate: *wings* generally deflexed or incumbent.

Fam. III. PANORPIDÆ. Leach.

PANORPATÆ. Latreille.

*Head* anteriorly produced into a rostrum: *wings* equal, ovate-elliptic, lying one over the other: *ocelli* three, approximate, arranged in a triangle.

Genus 392. PANORPA. Linn., Fabr., Lam., Latr., Leach.

*Tarsi* with two bent claws, denticulated beneath, having a spongy pulvillus between them: *palpi* nearly equal, filiform; the last joint cylindrical-ovate: *mandibles* with their points distinctly bidentate: *abdomen* of the male with the three last joints forming a tail armed with a forceps.

Sp. 1. *Pan. communis*. (Pl. 7. fig. 5. a. *chela magnified*.)

Inhabits hedges, and is very abundant in this country.

Fam. IV. HEMEROBIADÆ. Leach.

HEMEROBINI. Latreille.

*Antennæ* filiform or setaceous: *palpi* four: *wings* equal: *tarsi* five-jointed.

STIRPS 1.—*Ocelli* or little eyes not distinct.

Genus 393. CHRYSOPA. Leach. HEMEROBIUS of authors.

*Antennæ* (at least as long as the body) with cylindrical joints longer than broad.

Sp. 1. *Chrys. Perla*.

Hemerobius Perla. Linné, Fabr., Latr. Chrysopa Perla. Leach.

Inhabits woods, and is a common species.

Genus 394. HEMEROBIUS. Leach, &c.

*Antennæ* as long or shorter than the body, with moniliform joints.

Sp. 1. *Hem. variegatus*.

Inhabits —: is rare near London.

STIRPS 2.—*Ocelli* three, distinct.

Genus 395. OSMYLUS. Latr., Leach. HEMEROBIUS. Fabr. Villers, Roemer, Don.

*Antennæ* moniliform.

Sp. 1. *Osm. maculatus*. Fuscous; head and feet testaceous: *wings* hairy, the upper ones and the costal margin of the inferior ones spotted with black. (Pl. 7. fig. 4.)