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A colon after initial designates the most common given name, as: A: Augustus; B: Benjamin; C: Charles; D: David; E: Edward; F: Frederic; G: George; H: Henry; I: Isaac; J: John; K: Karl; L: Louis; M: Mark; N: Nicholas; O: Otto; P: Peter; R: Richard; S: Samuel; T: Thomas; W: William. The initials at the end of each record, or note, are those of the recorder.

Corrections of errors and notices of omissions are solicited.

- Foerste**, Aug. F. *Pastinaca sativa* proterandrous. (Bot. gazette, Feb. 1882, v. 7, p. 24, 4 cm.)
 Crit. rev., by W: Trelease, entitled "Proterandry of *pastinaca*. (*op. cit.*, Mch., p. 26-27, 9 cm.)
 The flowers of *pastinaca sativa* are said to be crossed by means of "small coleoptera and other insects." Other *umbelliferae* are said to be protogynous.
 W: T. (3551)
- Müller**, Hermann. Ueber die befruchtung von *symplocarpus foetidus*. (Bot. jahresbericht . . . Just, 1879, v. 7, p. 137, 5 cm.)
 Abstract of W: Trelease's "On the fertilization of *symplocarpus foetidus*" (Amer. nat., Sep. [22 Aug.] 1879, v. 13, p. 580-581) [Rec., 1794]. W: T. (3552)
- Shimer**, H: On a new genus in homoptera, section *monomera*. (Proc. Acad. nat. sci. Philad., Jan. 1867, [v. 19], p. 2-11, fig.)
 Crit. rev. in B: D. Walsh's "The grape-leaf gall-louse. *Dactylosphaera vitifoliae*, Fitch" (1st ann. rept. acting state entom. Ill., 1868) (Trans. Ill. state hortic. soc. for 1867, 1868, n. s., v. 1; Appendix), p. 21-24.
 Characterises the "supposed new family" *dactylosphaeridae*, and the new genera *dactylosphaera* [type: *d. globosum* n. sp.] and *viteus* [type: *pemphigus vitifoliae* Fitch]; describes *d. globosum* n. sp. and *d?* (*viteus*) *vitifoliae*; describes the method used in observing these insects.
 [*D. globosum* = *Phylloxera caryaesemen*; *d?* (*viteus*) *vitifoliae* = *Ph. vitifoliae*.] B: P. M. (3553)
- Shimer**, H: The wavy-striped flea-beetle. (Amer. nat., Dec. 1868, v. 1, p. 514-517, fig. 1.)
 Extract, [by B: D. Walsh and C: V. Riley], entitled "The wavy-striped flea-beetle. *Haltica (phylloreta) striolata*, Illiger." (Amer. entom., Apr. 1869, v. 1, p. 158-159, 62 cm., fig. 119.)
 Habits and ravages, food-plants and description and figure of larva and imago of *phylloreta striolata*.
 B: P. M. (3554)
- Stillman**, J: M. On the origin of the lac [Rec., 2792].
 Extract, in Germ. tr., by C. F. Gissler, entitled "Ueber den ursprung des schild-lack's." (Deutsch-amer. apotheker-zeitung, 1 Dec. 1880, jahrg. 1, no. 18, p. 2, 40 cm.) B: P. M. (3555)
- Tasker**, J. C. W. Naphthaline versus camphor. (Entomologist, Oct. 1882, v. 15, p. 240.)
 Use of naphthalin (C₁₀ H₈) recommended as a pestifuge in collections of insects. G: D. (3556)
- Tilghman**, E.: 3d. [Hessian fly.] (Amer. farmer . . . Skinner, 20 Oct. 1820, v. 2, ed. 3, p. 235, 18 cm.)
 Process of oviposition of *cecidomyia destructor* on wheat, described from nature. B: P. M. (3557)
- Todd**, James E. On the flowers of *solanum rostratum* and *cassia chamaecrista*. (Amer. nat., Apr. [22 Mch.] 1882, v. 16, p. 281-287, 3 fig.)
 Includes remarks on the cross-fertilization of *solanum rostratum* and *cassia chamaecrista* by *bombus*, which visits them for pollen. W: T. (3558)
- Townsend**, C: H: Tyler. On the variation of the elytral markings in *cicindela sexguttata*. (Can. entom., Nov. 1883, v. 15, p. 205-208, 1 fig.)
 Describes the variations in number and arrangement of the elytral spots in *cicindela sexguttata*, making eight varieties of them; table to show the relative number of individuals of each variety out of forty-nine specimens taken during 1883. G: D. (3559)
- [?Treat, Mary.] A chapter on mites. (Harper's new mo. mag., Apr. 1861, v. 42, p. 607-614, fig. 1-11.)
 Figures *acarus domesticus*, *a. lacteus*, *a. roseae*, *a. canna-mellifera*, *a. megarrhina*, *a. muscida*, *a. contagiosus*, *hydrachna geographica*, *h. globum*, *h. puteus*, and anatomical details of some of these species; figures imago, larva, ovipositor and mandibles of *ptiophila casei*; with some account of these several insects.
 B: P. M. (3560)

[Treat, Mary.] More about spiders. (Harper's new mo. mag., Feb. 1861, v. 42, p. 323-335, fig. 1-21.)

Gives enlarged figures of *lycosa gyrophora* and *epeira prasinus*, their eyes and nests; of *theridion schizopoda*, its nest, egg-bag, eyes and claws; of *clubiona filices* and nest; of *epeira filices*, nest, egg-bag, eyes and mandibles; of *clenus langeneus*, nest, eyes, mandibles and claws; of *clubiona ogaricus*, *drassus perfida*, *lycosa violaceus* and *tegenaria textura* and their nests, mandibles and eyes; of *epeira fuscata*, *theridion migratum*, *phalangium* sp. and *lycosa noctes*, their mandibles and eyes; and of male palpi of two *theridion*, a *segestria*, two *clotho* and an *epeira*; gives some account of these species and of *epeira diadema*, and of the habits, food and fights of some of them. B: P. M. (3561)

Trelease, W: On the fertilization of *symplocarpus foetidus* [Rec., 1794].

Reprint, under head, "*Symplocarpus foetidus*." (GOODALE, G: L. and SPRAGUE, I: Wild flowers of North America, 1880, pt. 14, p. 120-121.)

Abstract in F. Delpino's "Impollinazione e fecondazione nel cotone e in altre specie" (Rivista botanica, 1880, p. 45).

Abstract, by H. Müller, entitled "Ueber die befruchtung von *symplocarpus foetidus*." (Bot. jahresbericht . . . Just, 1879, v. 7, p. 137, 5 cm.) W: T. (3562)

Trelease, W: The heterogony of *oxalis violacea*. (Amer. nat., Jan. 1882 [30 Dec. 1881], v. 16, p. 13-19, 5 fig.)

The flowers of *oxalis violacea* are believed to be dimorphic instead of trimorphic. They are visited for nectar by *nomada bisignata*, *ceratina dupla*, *augochlora pura*, *osmia* sp., and *halictus* sp. W: T. (3563)

Trelease, W: Protandry of *pastinaca*. (Bot. gazette, Mch. 1882, v. 7, p. 26-27, 9 cm.)

Remarks, apropos of A. F. Foerste's "*Pastinaca sativa* proterandrous" (*op. cit.*, Feb. p. 24) [Rec., 3551], that most *umbelliferae* are strongly protandrous; and states that in Germany the flowers of *pastinaca* are, according to Hermann Müller, visited by hymenoptera and diptera. W: T. (3564)

Troop, J. Proterandry in *amaryllis reginae*. (Bot. gazette, Apr. 1882, v. 7, p. 42, 11 cm.)

The flowers of *amaryllis reginae* are said to be probably fertilized by "some moth with a long proboscis." W: T. (3565)

Verrill, Addison Emory. Additional observations on the parasites of man and the domestic animals. (5th ann. rept. secr. Connecticut board agric., for 1871-1872, 1872, p. 321-342.)

Additions to the lists of internal parasites of man, cattle, horse, hog and poultry, given in author's "The internal parasites of domestic animals" . . . (4th ann. rept. [etc.], 1870, p. 162-256) [Rec., 3569] with corrections and additional statements concerning some of these parasites; treats mostly of worms, but mentions *pentastoma setteni* as a parasite of the horse and the occurrence of *dermatobia noxialis*? in a woman in Mississippi. B. P. M. (3566)

Verrill, Addison Emory. The external and internal parasites of man and domestic animals. [Hartford, Conn., 1870.] t.-p. cover, 140 p., 23X14, t 17X6.5. il.

Reprint, as pamphlet, of author's "The external parasites of domestic animals" . . . (4th ann. rept. secr. Connecticut board agric., for 1869-1870, 1870, p. 72-122, fig. 1-48) [Rec., 3568], and "The internal parasites of domestic animals" . . . (*op. cit.*, p. 162-256, fig. 49-84) [Rec., 3569].

G: D. (3567)

Verrill, Addison Emory. The external parasites of domestic animals: their effects and remedies. (4th ann. rept. secr. Connecticut board agric., for 1869-1870, 1870, p. 72-122, fig. 1-48. (VERRILL, A. E. The external and internal parasites of man and domestic animals . . . [1870], p. 1-51, fig. 1-48.)

Characterises the several subclasses of insects and orders of hexapods, with illustrations of each; describes and figures the principal species of *pulicidae*, *hippoboscidae*, *ostridae*, *cimicidae*, *pediculidae*, *mallophagae* and *acarina*, which are parasitic on domestic animals, with some account of their habits, and of means against them, and mention of related species. B: P. M. (3568)

Verrill, Addison Emory. The internal parasites of domestic animals; their effects and remedies [with discussion]. (4th ann. rept. secr. Connecticut board agric., for 1869-1870, 1870, p. 162-256, fig. 49-84.) (VERRILL, A. E. The external and internal parasites of man and domestic animals . . . [1870], p. 51-140, fig. 49-84.)

Additions and corrections, by author, entitled "Additional observations on the parasites of man and the domestic animals." (5th ann. rept. [etc.], 1872, p. 321-342.)

Characterises the orders *cestoda*, *trematoda*, *acanthocephala* and *nematoda*, to which belong the parasitic worms of man and domestic animals; gives a list of some of the more important general works on parasitic worms; gives lists of the internal parasites of man, dog, cat, sheep, cattle, horse, hog and poultry; describes and figures the principal species of these parasites with accounts of their habits, transformations and ravages and means against them; *pentastoma taenioides*, with its immature form *p. denticulatum*, and *p. constrictum*, which are *acarina*, are here treated of (p. 249-251, fig. 84), and the discussion (p. 252-256) contains remarks on means against *gasterophilus equi* by E. S. Hubbard, N. Cressy, —Sedgwick and author. B: P. M. (3569)

[Walsh, B: Dann and Riley, C: Valentine.] The cotton army-worm. *Noctua (anomis) xyliana*, Say. (Amer. entom., July 1869, v. 1, p. 209-212, 145 cm., fig. 147-149.)

Description and figures of all stages of *aletia xyliana*, and civil and natural history of this insect, and means of preventing its ravages, mostly compiled from the writings of T. Glover and from J. B. Lyman's "Cotton culture;" difficulties and dangers in the pursuit of observations in the southern United States; distinctions between various insects severally termed "army-worms." B: P. M. (3570)

[Walsh, B: Dann and Riley, C: Valentine.]
The chinch bug. *Microfus leucopterus*, Say. (Amer. entom., 1869, v. 1: May, p. 169-177, 315 cm., fig. 122; June, p. 194-199, 221 cm., fig. 135-139.)

Reprint, with changes, by C: V. Riley, entitled "The chinch bug: *microfus leucopterus*, Say." (2d ann. rept. state entom. Mo., [Mch.] 1870, p. 15-37, fig. 1-10.)

Supreme noxiousness of *blissus leucopterus* in grain-field; past civil history and cause of former scarcity of this pest; value of a fore-knowledge of its probable future occurrence; its hibernation, seasons, oviposition, prolificacy, swarming, migrations, dimorphism and ravages, and means against it; its enemies, especially *hippodamia maculata*, *coccinella munda*, *chrysopea florabunda*, *anthrenus insidiosus* and *ortyx virginiana*; distinctions between insects having and not having complete metamorphoses; differences in number of annual generations and in periods of development of insects; effects of meteoric conditions on insects; fallacy of H: Shimer's theory of the epizootic disease of the *blissus*, and failure of Shimer's prophecies.

B: P. M. (3571)

[Walsh, B: Dann and Riley, C: Valentine.]
The gigantic root borer. *Prionus laticollis*, Drury. (Amer. entom., Aug. 1869, v. 1, p. 231-234, 123 cm., fig. 169-173.)

Description and figure of larva and figure of pupa and imago of *prionus laticollis*; habits, food-plants, ravages and geographical distribution of and means against this species; differences between its imago and that of *p. imbricoris*; figure of imago of *orthosoma cylindricum*; characters of larvae of *prionidae*.

B: P. M. (3572)

[Walsh, B: Dann and Riley, C: Valentine.]
The grape-berry moth. *Penthina vittorana*, Packard. (Amer. entom., May 1869, v. 1, p. 177-179, 74 cm., fig. 123.)

Remarks on the appearance of new and the disappearance of old pests; recent occurrence of *penthina vittorana* [*eudemis bostrana*] as a pest in grapes; seasons and habits of and means against this insect.

B: P. M. (3573)

[Walsh, B: Dann and Riley, C: Valentine.]
Imitative butterflies. (Amer. entom., June 1869, v. 1, p. 189-193, 202 cm., fig. 132-134.)

General exemption of *danaidae* from and liability of *pieridae* to the attacks of predaceous animals; attempted explanation of these phenomena; protective imitation of *danaidae* by certain *pieridae*; theory of the origin of this imitation; mimicry of *danais archippus* by *limenitis ditsippus*, and consequent protection of the latter from foes; hibernating habits and description of larva of the *limenitis*, figures of the larva, pupa, imago and hibernaculum of this species; figure of imago of *danais archippus*.

B: P. M. (3574)

[Walsh, B: Dann and Riley, C: Valentine.]
Leafy oak-gall. (Amer. entom., Sept.-Oct. 1869, v. 2, p. 25, 14 cm., fig. 20.)

Answer to inquiry; description and figure of the gall of [*cynips*] *quercus-frondosa*.

B: P. M. (3575)

[Walsh, B: Dann and Riley, C: Valentine.]
The parasites of the human animal. (Amer. entom., Jan. 1869, v. 1, p. 84-88, 180 cm., fig. 73-74.)

General prevalence of parasites in nature; brief accounts of *pediculus humanus*, *p. cervicalis*, *p. pubis*, *oestrus hominis*, *pulex irritans*, *p. penetrans*, *acanthia lectularia*, *conorhinus sanguisuga* and *acarus scabiei*, and mention of some other articulates parasitic on humans; figures and habits of *reduvius personatus* (larva and imago), of Europe, and of *pirates biguttatus*; figure of *conorhinus sanguisuga*; classificatory relations of *pediculina* and *mallophaga*.

B: P. M. (3576)

[Walsh, B: Dann and Riley, C: Valentine.]
The periodical cicada. (Amer. entom., Dec. 1868, v. 1, p. 63-72, fig. 58-64.)

Extract, from p. 68, by authors, with same title. (*op. cit.*, June 1869, p. 202, 7 cm.)

Discovery of the existence of 13-year broods of *cicada*, and characterisation of these broods as a new species, *c. tredecim*; dimorphism of this species and of *c. septendecim*; seasons, habits, transformations, oviposition, enemies, diseases, ravages and sting of these species, and chronological statement of their several known broods.

B: P. M. (3577)

[Walsh, B: Dann and Riley, C: Valentine.]
Potato bugs. (Amer. entom., 1868, v. 1: Oct., p. 21-27, fig. 10-19; Nov., p. 41-49, fig. 33-48.)

Remarks on the usual failure of popular writers to distinguish between the several species of insects infesting the potato plant; brief accounts of *gortyna nitela*, *baridius trinotatus*, *sphinx quinquemaculata*, *epicauta vittata*, *macrobasis unicolor*, *m. murina*, *epicauta pensylvanica*, *e. marginata*, *lema trilineata* and *epitrix cucumeris*, treating of the geographical distribution, habits, food-plants and seasons of most of them, and giving figures of each in one or more states of growth; full account of *doryphora decemlineata*, its distinctness from *d. juncta*, its migrations, habits and enemies, and means against it; figures of *d. decemlineata* and *d. juncta* in their several states, and of numerous enemies of the former; habits of many of these enemies; inability of larva of *sphinx quinquemaculata* to sting; distinctness of *s. carolina* from this species; geographical distribution of *s. carolina*; characteristics of lepidoptera and coleoptera; vesicant properties of *lyttinae*; means against *lyttinae*; stercoracious larval protectants; poisonousness of larvae of *doryphora decemlineata*; natural fluctuations in the abundance of insects.

B: P. M. (3578)

[Walsh, B: Dann and Riley, C: Valentine.]
The royal horned-caterpillar. *Ceratocampa (citheronia) regalis*, Fabr. (Amer. entom., Aug. 1869, v. 1, p. 230-231, 64 cm., pl. 1.)

Description of young and of full-grown larva and of pupa of *ceratocampa regalis*; figure of larva, pupa and imago; seasons, habits, food-plants, sexual differences, odor and vernacular names of this species; popular dread of it.

B: P. M. (3579)

[Walsh, B: Dann and Riley, C: Valentine.]
A swarm of butterflies. (Amer. entom., Oct. 1868, v. 1, p. 28-29, 34 cm., fig. 20-22.)

Record of flights of swarms of *danais archippus*; figures of larva, pupa and imago of this species; *asclepias* its food-plant.

B: P. M. (3580)

[Walsh, B: Dann and Riley, C: Valentine.]
Swarms of ladybirds. (Amer. entom.,
Nov. 1869, v. 2, p. 55, 13 cm.)

Occurrence of countless millions of *coccinellidae* in England; their origin and movements.

B: P. M. (3581)

[Walsh, B: Dann and Riley, C: Valentine.]
The true army-worm: *leucania unipunctata* [sic], Haworth. (Amer. entom.,
July 1869, v. 1, p. 214-217, 106 cm., fig.
152-155.)

Ravages and beneficial action of *leucania unipuncta* in Missouri, in 1869; favorite localities of occurrence, sudden appearance and disappearance, seasons and enemies of this insect; description and figures of larva, pupa and imago; figure of imago of *exorista militaris*.

B: P. M. (3582)

[Walsh, B: Dann and Riley, C: Valentine.]
Wasps and their habits. (Amer. entom.,
Mch. 1869, v. 1, p. 122-143, 900 cm., fig.
96-112; p. 164, 1 cm.)

Appendix, by B: D. Walsh, entitled
"Appendix to the article on 'Wasps and
their habits,' in No. 7." (*op. cit.*, Apr.,
p. 162-164, 120 cm.)

General account of the habits of North American predatory hymenoptera, i. e., *mutillidae*, *fossorae* and *diplopteryga*; structural, classificational and sexual characters of these insects; correspondence of structure with habits, and gradation of habits in insects as regards the making of provision for the care of the young; occurrence of parasites, inquilines and tenants of deserted abodes of these insects; figures of imagos and special accounts of habits of *chlorion coeruleum*, *bembex fasciata*, *sphex ichneumonea*, *ammophila pictipennis*, *pepsis formosa*, *stizus grandis*, *s. speciosus*, *peploeus lunatus*, *agenia bombycina*, *trypoxylon albirtarse*, *cerapales rufiventris*, *cumenes fraterna*, *vespa maculata*, and *polistes rubiginosus*; figure of imago of *cryptus junceus* and of several abodes of wasps.

B: P. M. (3583)

[Walsh, B: Dann and Riley, C: Valentine.]
The wavy-striped flea-beetle. *Haltica*
(*phyllostreta*) *striolata*, Illiger. (Amer.
entom., Apr. 1869, v. 1, p. 158-159, 62 cm.,
fig. 119.)

Habits and ravages, food-plants and description and figure of imago of *phyllostreta striolata*, mostly quoted from H: Shimer's "The wavy-striped flea-beetle" (Amer. nat., Dec. 1868, v. 2, p. 514-517) [Rec., 3554]; habits of larva of *ph. nemorum*.

B: P. M. (3584)

Watson, J. A. Reputed parthenogenesis of
anarta myrtilli. (Entomologist, Nov.
1882, v. 15, p. 261-262.)

Record of the hatching of unfertilized eggs of *anarta myrtilli*.

G: D. (3585)

Webster, Francis M. Leaves from my notebook. (Our home and science gossip,
Sept. 1881, v. 5, p. 103, col. 1-2, 44 cm.)

Notes on the food-habits and localities of occurrence of numerous coleoptera.

B: P. M. (3586)

Weismann, August. Studien zur descendenz-theorie. 2. Ueber die letzten ursachen der transmutationen. Leipzig, W. Engelmann, 1876. t.-p. cover, 24+336 p., 5 col. pl., 26X17, t 18X10. pam., M. 10.
Rev., entitled "Weismann's Final causes of transmutation." (Amer. nat., Feb. 1877, v. 11, p. 109-110.)

Notice. (Entom. nachrichten, 1 April 1877, jahrg. 3, p. 58.)

Rev., by [F. C.] N[oll]. (Zool. garten, 1877, jahrg. 18, p. 142-144.)

"The present work is divided into four divisions, of which the first presents a striking array of facts on the origin of the markings of caterpillars. The author describes the nature and morphology of the markings of larvae of the family *sphingidae*, their biological value and tribal development, concluding that the oldest sphingid caterpillars were without markings; that the oldest style of markings were longitudinal lines, the later ones oblique streaks, and the last to be developed, the spots."—*Amer. nat.*, l. c. The second part discusses the relation of changes in the structure of larvae to their changes as imagos; variation and dimorphism. The third part treats of the changes of the axolotl into *amblystoma*. The fourth part is on the mechanical conception of nature. The plates contain figures of lepidopterous larvae, especially of *sphingidae*. [J: Lubbock's "Scientific lectures" . . . 1879 [Rec., 3438] contains (lecture 2) [Rec., 3437] an abstract of Weismann's studies on larvae of *sphingidae*.]

G: D. (3587)

Whitney, C: P. Descriptions of some new species of *tabanidae*. (Can. entom. Feb. 1879, v. 11, p. 35-38.)

Crit. rev., by E: Burgess. (*op. cit.*, Apr. 1879, p. 80.)

Describes *chrysops cuclux*, *ch. nigribimbo*, *ch. cursim*, *tabanus superjumentarius*, *t. sparus*, all new species, from New Hampshire, and *tabanus dodgei* n. sp. from Nebraska.

B: P. M. (3588)

v. Wielowiejski, Heinrich. Studien über die lampyriden. (Zeitschr. f. wissenschaft. zool., 1 Nov. 1882, bd. 37, p. 354-428, pl. 23-24.)

Abstract, by E: Burgess, entitled "Luminosity of fire-flies." (Science, 9 Mch. 1883, v. 1, p. 150, 22 cm.)

Anatomical, physiological and biological considerations of the luminosity of the imago, larva and eggs of *lampyris* (*l. splendidula* and *l. noctiluca*); anatomy of parts of the related systems (nervous, tracheal, etc.); historical and literature (30 titles).

G: D. (3589)

Witlaczil, Emanuel. Zur anatomie der aphiden. (Arbeiten aus dem zool. instit. d. univ. Wien und d. zool. stat. in Triest, 1882, bd. 4, heft 3, p. 397-441, 3 pl.)

Abstract of portions. (BUCKTON, G: B. Monograph of British aphides, v. 4, 1883, p. 142-143.)

Abstr., entitled "Anatomy of aphides." (Journ. Roy. micros. soc., Feb. 1883, s. 2, v. 3, p. 49-51.)

General external and internal anatomy of *aphididae* considered by different systems of organs.

G: D. (3590)



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