

## INDEX

- Abdomen, 52  
 ABEILLE DE PERRIN, 198  
*Abroma nubifurca*, 170  
*Aburazemi*, 26, 222  
 Accessory gland, 69; female, 70  
*Acheta*, 81  
*Acridotheres cristatellus*, 182  
 Aedeagus, 54, 69, 96  
 AELIAN, 136, 173, 176, 187  
 ÆSOP, 6, 28, 29  
 Aesthetic interest in cicadas, 186  
 Afghanistan, 129  
 Africa, 37  
 Agave, 138  
*Agelaius phoeniceus*, 182  
*Agkistrodon contortrix*, 174  
*Ailanthus*, 22, 32  
*Ailanthus foetida*, 139  
 akpts, 10, 33  
 Alarm cry, 78, 205, 224  
 ALBERTUS MAGNUS, 20  
 ALCAEUS (ALKAIOS), 7  
 Alcedinidae, 149  
*Alcestis*, 87  
 ALDROVANDI, 21, 72, 127, 176  
*Alectryon excelsum*, 158  
 ALEXANDER, 49, 172  
 Alfalfa, 191  
 Alimentary system, 62  
 ALLEN, 193  
 Altitude, and cicada distribution,  
 141; effect of, 41  
 AMADE, JEAN, 39  
 AMANS, 48  
 Amber, cicada carved in, 25; cicadas  
 in, 94  
 Ambient vein, 49  
 Amnion, 111  
*Amphelocoma californica*, 183  
 Amphibia, 173  
 Amulets, cicada tongue, 24  
 AMYOT, 219  
 AMYOT and SERVILLE, 7, 49, 82  
 ANACREON, 6, 128  
 Anal area of wing, 49  
 Anal segment, 52; female, 56  
 ANDERSEN, 31, 223  
 Andes, 142  
 ANDRES, 107  
 Anepisternum, 47  
*Angamiana*, 50, 83  
*Angophora lanceolata*, 138, 161  
 Anlagen of body segments, 109  
 ANNANDALE, 139, 148-9, 187-8, 199,  
 204, 205, 207, 222  
 Antennae, 43, 61, 201  
 Antennae of nymphs, 117  
 Ant, fable of cicada and, 28, 29  
*Anthus rubescens*, 181  
 ANTIPATER of Byzantium, 10; of  
 Thessalonica, 9  
 Ants, 165, 168, 195  
 ANYTE, 10  
 Aorta, 68  
 APGAR, 96  
 Aphididae, 112  
 APOLLO, 196; cicada sacred to, 12  
 APOLLONIDES, 9  
 Appendages of first abdominal seg-  
 ment, 109  
 "Apple gum," 138  
 Apple, oviposition in, 106  
*Apus melba* (?), 178  
 Arachnida, 171  
*Araneus pustulosus*, 171  
 Archedictyon, 51, 86, 91  
 ARCHIAS of Antioch, 9, 165  
*Archirileya inopinata*, 168, 170  
 ARÈNE, PAUL, 38  
*Argiope aurantia*, 172  
 ARISTOPHANES, 7  
*Aristotelia racemosa*, 105, 158  
 ARISTOTLE, 5, 14, 42, 57, 71, 80, 95,  
 103, 106, 122, 136, 157, 159, 187,  
 197  
 ARNAUD and BROGNIART, 189-90  
*Arrenga castanea*, 179  
 Artichoke, 6  
*Arundo conspicua*, 167  
*Arundo donax*, 198  
*Arundo pliniana*, 106  
 Ash, 138  
 ASHBURNE, 39, 219  
 ASHMEAD, 82

- ASHTON, 84, 142, 201, 207  
 Asilidae, 166 *seq.*  
 Assembling role of song, 215  
 Ass, fable of cicada and, 28  
*Astragalinus tristis*, 182  
*Astur badius*, 178  
*Asyndesmus lewisi*, 179  
 Attraction to sounds, 197 *seqq.*  
 Auchenorrhyncha, 80, 89, 90  
 Auditory capsule, 61; nerve, 58;  
 organ, 89; organs, 60; sensations,  
 197 *seqq.*  
 "Aurelias," 122  
 Australia, 5  
 Australian popular names, 39; for  
 cicadas, 33  
 Australian Region, 134  
 Australian sayings, cicadas in, 31  
 Autochthony, cicada as symbol of,  
 12  
 ἀχέραι, 5  
*Azotobacter*, 156
- BAAL, 13  
*Babras*, 84  
 Bacteria, 156  
*Baeolophus bicolor*, 181  
*Baeolophus inornatus*, 181  
*Baeolophus wollweberi*, 181  
*Baeturia exhausta*, 162, 166, 171  
 Bait, cicadas as, 176  
 BALDANGELUS, 19  
 BALL, 129  
 BALL, DYER, 188, 233  
 BALL, E. D., 141  
 BALL, J. DYER, 37  
 Baluchistan, 129  
 Bamboo cleft, for catching cicadas,  
 233  
 BANGS, 177  
 BANKS, 92, 191, 207  
 BARBER, H. S., 101, 107  
 Bars, in cicada music, 223  
 BASHŌ, 132  
 BASIL THE GREAT, ST., 19  
 BATES, 161, 221  
*Bdella*, 172  
 BEAMER, 84, 102, 103, 104, 106, 107,  
 167, 171, 234  
 BEAUREGARD, 189  
 BECCARI, 32, 220, 222  
 BEELZEBUB, 13  
 BÉGUIN, 189-90  
 Behaviour, 195, 202 *seqq.*; of adults,  
 203 *seqq.*; of nymphs, 202 *seq.*;  
 of young nymphs, 112  
 BELL-MARLEY, 123  
 BELLONIUS, PETRUS, 20, 176, 183
- Bells, responded to by cicadas, 199-  
 200  
 BELON, v. BELLONIUS, 20  
 BELT, 176, 183  
 BENNETT, 138, 187, 222  
 BERENDT, 91  
 BERGROTH, 83  
 BERLESE, 49, 59, 60, 61, 62, 63, 64,  
 69, 70, 201, 213, 216  
 BEST, ELSDON, 30  
 BIANOR, 9  
 BILSING, 171  
 BINET, 58, 59  
 BINGHAM, 177, 183  
 Biological Survey, U.S. Department  
 of Agriculture, 183  
 Bird-lime for cicadas, 233  
 Birds, 174 *seqq.*; mating of, 214  
 BISCOE, 161  
 Blindness, alleged, of cicadas, 197  
 BLOCH, 91  
 Boards, oviposition in, 108  
 BODDING, 189  
*Bombycilla cedrorum*, 180  
*Book of the Dead, The*, 17  
 Bordeaux-mixture, 194  
 Borneo, 123  
 BOYER, 197-8  
*Brachyglottis repanda*, 158  
 Bracken, 107  
 Brain, 58  
 BRANCSIK, 166  
 BRANDT, 59, 164  
 BREDDIN, 83, 134  
 British Museum, 83  
 BRITAIN, 193  
 BRODIE, 90  
 BROWN, R., 114  
 BROWNING, 38  
*Bruchigavia novae-hollandiae*, 177  
 BUCHNER, 109, 154 *seqq.*  
 BUCKTON, 6, 145, 186, 188, 212  
 Buddhist poem, 122  
 Bug, 1  
 BUGNION and POPOFF, 42  
 Bulbuls, 176  
 BURGESS, 10  
 Burma, 121  
 BURMEISTER, 82, 91, 103  
 Burrowing, 202-3  
 Burrows, of young nymphs, 112  
 BURTON, 200  
 BUSCK, 192  
*Buteo lineatus*, 177  
*Buteo platypterus*, 177  
*Buteo swainsoni*, 177  
 BUTLER, A. G., 92  
 BUTLER, A. W., 153, 159, 173, 183,  
 185

- BUTLER, E. A., 163  
 BUTLER, Governor, 34  
 BUXTON and HOPKINS, 162, 166  
 BYRON, 38
- Cacao, 191  
*Calcagninus*, 84  
 CALCAGNINUS, 200  
 Calcium cyanide against cicadas,  
 194  
*Callipsaltria longula*, 169  
*Calosoma sycophanta*, 169  
*Calotes versicolor*, 174  
 CALVEYRACH, 39  
 Camerouns, 114, 122  
 CANDIDUS, PETRUS, 20  
 Captivity, cicadas in, 186  
 Carbon bisulphide against cicadas,  
 194  
 Carboniferous, 88  
 CARDANUS, 21, 159  
*Cardinalis cardinalis*, 181  
*Carica papaya*, 162  
*Carineta basalis*, 142  
*Carineta fasciculata*, 191, 194  
*Carineta fimbriata*, 142  
*Carineta formosa*, 69  
 CARLET, 74, 78  
 Carob, 138  
 Caroline Islands, cicadas in popular  
 sayings, 31  
 CARPENTER, 127  
*Carpodetus serratus*, 158  
 CARUS, 11, 63, 78  
 CASSERIUS, 15, 72  
 Cat, 175  
 Catalan poets, 39  
 Catapult for shooting cicadas, 234  
*Catantopus teres*, 173  
 Cat-briar, 108. See *Smilax*  
 Cat-eating cicadas, 185  
 Cavalletta, La, 8  
 Cecidomyiid, 170  
 "Cedar," 106  
*Centaurea*, 106  
*Centrodora cicadae*, 167, 170  
*Cerambycobius cicadae*, 167, 170  
*Cerchneis cenchroides*, 178  
 Cerchi, 54  
 Cercopidae, 66, 67, 89, 90, 101  
 Ceresa, 106  
*Cermatulus nasalis*, 167, 169  
 CHABRIER, 48  
 CHAMPION, 130  
 Ch'an t'ui, 189  
 CHAPMAN, 4  
 Chelonia, 174
- Chestnut blight, cicadas carrying,  
 193  
*Cheyletus* sp., 172  
 China, 84  
 China, cicadas kept in, 8; popular  
 beliefs regarding cicadas, 32  
 Chinese, 5; art, 4; beliefs regarding  
 cicadas, 23; popular beliefs, 37  
 Chipmunks eating cicadas, 185  
 "Chirpers," 5  
 "Chirring," 223  
*Chlorocysta*, 134  
*Chlorocysta macrula*. See *Mardalana*  
*congrua*  
*Chlorocysta vitripennis*, 140, 204  
 Chlorocystini, 85  
*Chonosia*, 84, 135  
*Chonosia crassipennis*, 222  
*Chordeiles virginianus*, 178, 184  
 Chordotonal organ, 61  
 Chorus, singing in, 200, 218-19  
 Chou Dynasty, 24  
 CHRISTIAN, 31  
 "Christmas bees," 33  
 Christmas Island, 114  
 Chromosomes, 98  
 CHRYSOSTOM, ST., 18  
 Chu-ki, 22  
 Cicada, 82  
 Cicada-clapper, 199  
 Cicada, derivation of name, 15  
*Cicada grandiosa*, 91  
*Cicada hieroglyphica*, 106, 170, 171  
*Cicada montana*, 34. See *Melamp-*  
*salta montana*  
 "Cicada ochreoptera," 192  
*Cicada ornata*, 5, 34, 38, 59, 81, 102, 103,  
 106, 114, 123, 136, 138, 139, 142,  
 154-6, 160, 161, 164, 168, 170, 192,  
 197, 199, 205, 211, 218-19, 222  
*Cicada* (?) *pygmaea*, 218  
*Cicada rubrolineata*. See *Tettigades*  
*chilensis*  
*Cicada sordidata*, 137. See *Tibicen*  
*olympusa*  
 Cicadas believed to bring luck, 34  
 Cicadastra, 81  
*Cicadatra*, 81, 136, 197  
*Cicadatra atra*, 6, 114, 139, 192, 204  
*Cicadatra hyalina*, 114, 123, 141, 204,  
 205, 218  
*Cicadatra querula*, 97, 141, 204. See  
*Psalmocharias querula*  
*Cicadella viridis*, 212  
 Cicadellidae, 89, 101  
 Cicadinae (Distant), 82  
 Cicadinae, 85  
 Cicadini, 85  
*Cicadomyces cicadarum*, 156

- Cicadomyces liberiae*, 156  
*Cicadomyces minimus* [sic], 156  
 Circulatory system, 67  
 Cithara, 10  
 Citrus trees, 190-2  
 Civilisation, 2  
 Cixiidae, 87, 90  
 Clapper, cicada-, 199  
 Classical and mediaeval writings of the Western World, 3 *seqq.*  
 Classification, 80  
*Clavaria sobolifera*, 150. See *Cordyceps sobolifera*  
 Claws of nymphs, 116  
 CLAYPOLE, 124, 203  
 CLELAND, 175, 183  
 Clicking of wings, 79, 208-9, 213, 224-5  
*Clidophleps distanti*, 219  
*Climacteris picumna*, 181  
 Clypeus, 44, 109  
 Coccids, 163  
*Coccyzus americanus*, 178, 184  
*Coccyzus erythrophthalmus*, 178  
 COCKCROFT, 125, 175, 183  
 COCKERELL, W., 25, 91, 186, 233  
 Coco-nut, 192  
 Coffee, 191  
 COGAN, 58, 183  
 Coins, cicadas on, 11, 12  
*Colaptes auratus*, 179  
*Colaptes cafer*, 179  
 Collecting, methods of, 233-4  
 COLLINSON, 105, 106  
 Colour, 41  
 COMSTOCK, 48, 89  
 "Cones" of nymphs, 121  
 Control of injurious cicadas, 193  
 Convulsions, cicadas administered for, 189  
 COOK, CAPTAIN, 39  
 COOKE, 189  
 COOKE, M. C., 153  
 Copal, 91  
 Copperhead snake, 174  
*Coprosma*, 135  
*Coprosma grandifolia*, 158  
*Coprosma lucida*, 105, 158  
*Coprosma microcarpa*, 158  
*Coprosma rhamnoides*, 158  
*Coprosma robusta*, 158  
 Copulation, 95, 96  
 Copulatory claspers, 54  
*Cordyceps*, 150 *seqq.*  
*Cordyceps cicadae*, 153  
*Cordyceps Sinclairii*, 151 *seqq.*  
*Cordyceps sobolifera*, 151 *seqq.*  
 Coriaceous border, 50  
 Corium, 49  
 Corn (maize), 107  
 Corpora pedunculata, 58  
 Corti, fibres of, 200  
*Corvus brachyrhynchos*, 183  
*Corvus macrorhynchos*, 183  
*Corvus orru*, 183, 184  
*Corvus ossifragus*, 183  
*Cosmopsaltria*, 90, 134, 136  
*Cosmopsaltria bivocalis*, 137, 222  
*Cosmopsaltria moultoni*, fig., 41  
 COSTA, 192  
 COSTA, A., 102, 106  
 Cotton, 107, 191-2  
 COUPIN, 129  
 Courting, 210-11, 212  
 COWDRY, 156  
 Coxae, 48  
 Coyote-cicada fable, 35  
*Cracticus destructor*, 181  
 CRAIGHEAD, 193  
 CRAMPTON, 86, 87  
 Cretaceous, 89, 91, 94  
 "Cricket dragon fly," 38  
 Crimea, 123, 137  
 Crimean beliefs regarding cicadas, 33  
 CRITON of Pitalia, 9  
 Cross-ridges, 51  
*Croton tiglium*, 190  
 Crow, American, 184  
 Cruciferae, 162  
 Cruciform elevation, 47  
 Crural lobes, 58  
 Cryptic coloration, 148  
*Cryptotympana*, 114, 136  
*Cryptotympana pustulata*, 222  
 Cuba, cicada fables, 29; popular beliefs, 34, 36  
 Cuckoo-cicada myth, 14  
 Cuckoos, 176  
 Cucuyos, 199  
 CUNNINGHAM, 151 *seqq.*  
 CUSHING, 35  
 Cuticle, 40; first larval, 111  
*Cyanocitta cristata*, 183  
 Cyclical occurrence, 127 *seqq.*  
*Cyclochila*, 96, 97, 135  
*Cyclochila australasiae*, 123, 129, 130, 145, 160, 193, 218, 222  
*Cystosoma*, 50, 82, 134, 207  
*Cystosoma Savandersi*, 29 (plate), 138, 204, 206, 222  
 DAHL, 183, 184, 205  
 Damage by oviposition, 191; by sucking sap, 190 *seqq.*  
 DAMPF, 234  
 DAMPIER, 39, 187

- "darted twiggs," 105  
 DARWIN, 209  
*Dasyllis grossa*, 169  
 DAVIS, 121, 128, 129, 140, 142, 143, 159, 161, 166, 171, 173, 185, 206, 209, 211, 221, 222, 234  
 DAVIS, Wm. T., 82, 83, 84  
 Death, 132  
 "Death-feigning," 204  
 DE GEER, 106  
 Degeneration of cells, 99  
 DE GROOT, 25  
 DE GUBERNATIS, 14, 176  
 DELÉTANG, 84, 93, 187, 206, 207  
 DEL GUERCIO, 106, 192  
 DEMETRIUS, 9  
*Derotettix*, 135  
 DESLONGCHAMPS, 27  
 Deterrents to oviposition, 194  
 Dew, 159 *seq.*  
 Dialysis, 64  
*Dicrurus longicaudatus*, 183  
*Dictyocicada antiqua*, 87  
 Digging, by nymphs, 118  
 DIONYSIUS, 9  
 DIOSCORIDES, 188  
 Diseases, cicadas used against, 189  
 Disease, transmission, 193  
 DISTANT, 82, 83, 149, 174, 183  
 Distribution, 134 *seqq.*; ethological, 136 *seqq.*  
 DIEMARS, 194  
 DIXON, 174  
 Dodging, habit of, 59  
 DOERING, 42, 54  
*Dolomedes imperiosus*, 171  
 DONOVAN, 160  
 Dorsal vessel, 67  
 DOYÈRE, 57, 63, 70, 103  
 DOZIER, 137  
*Dracophyllum Traversii*, 163  
 DRACOTT, 125  
 Dragon-flies, 167, 169  
 Drum, effect on cicadas, 200  
*Dryobates villosus*, 179  
 DUFOUR, 54, 59, 62, 63, 64, 68, 69, 70, 136, 154, 164,  
 DUGÈS, 74  
*Dumetella carolinensis*, 180  
*Dundubia*, 134, 196  
 Dunstaniidae, 87  
 D'UTRA, 191  
*Dysdercus*, 162  
*Dysoxylum spectabile*, 158  
 East, cicadas in literature and art of, 22  
 Ecdysis, 122 *seqq.*  
 Ecdysis, first, 111  
 EDMUNDSON, 192  
 Egg-burster in aphids, 112  
 Egg-parasites, 167-8  
 Eggs, 101, 102  
 Egg-strings, 100  
 Egypt, 129, 135  
 Egyptian literature, cicadas in, 17  
 Egyptian theory of cicada song, 18  
 Ejaculatory duct, 69  
 Ejaculatory notes, 204  
*Elaeocarpus dentatus*, 158  
*Elanoides forficatus*, 178  
*Elytranthe tetrapetala*, 159  
 Embryology, 109  
 Embryonic moult, 111  
 Emotions, 216  
 Endive, 106  
 Endoskeleton, 48  
 Endosome, 96  
 ENGELHARDT, 221  
 England, 136  
 ENSLIN, 222  
*Eocicada*, 93  
*Eocicada lapeeri*, 92  
*Eopsaltria australis*, 181  
 Epicranial suture, 43  
 Epimeron, 47  
 Epipyropidae, 168, 169  
*Epipyrops nawai*, 169, 170  
 Episternum, 47; 3-partite, 89  
*Erax interruptus*, 170  
*Eriophyes tiliae*, 193  
*Eriosoma lanigerum*, 192  
 EROS, 196  
*Erythraeus*, 172  
 ESAKI, 141, 205  
 Ethiopian Region, 135  
 Ethological distribution, 136 *seqq.*  
*Eucalyptus viminalis (mannifera)*, 164  
 Eucone eyes, 59  
*Eugereon*, 86, 88  
 EUNOMUS and ARISTON, 10, 199  
*Euphagus cyanocephalus*, 182  
 European names for cicada, 32  
*Eurystomus pactificus*, 178  
 EUSEBIUS, 20  
 Eusternum, 47  
 EVENUS, 9, 147  
 Exeiridae, 166  
*Exeirus lateritius*, 166, 171  
 External structure, 40 *seqq.*  
 Exuviae as *materia medica*, 188  
 Exuviae of nymphs, 235  
 Eyes, compound, 59  
 Fable of cicada and ass, 28  
 Fable of cicada and ant, 28, 29

- Fable of owl and cicada, 28  
 Fables, similar in different regions, 28  
 FABRE, 29, 31, 34, 61, 74, 101, 103,  
 107, 110, 111, 114, 120, 121, 123,  
 124, 125, 129, 139, 160, 162, 165,  
 167, 174-5, 183, 187-8, 195, 197,  
 206, 213-4, 218, 222  
 FABRICIUS, 82  
*Falco columbarius*, 177  
*Falco melanogenys*, 177  
*Falco sparverius*, 177  
 FALLA, 183  
 Fat-body, 68  
 FAUVEL, 32, 187, 188  
 Feeding, 195  
 Feeding-habits, 159  
 FELIOL, 73  
 FELT, 123, 185, 192  
 Female genitalia, 54  
 Femora, 48; of nymphs, 114  
 Fever, cicadas administered for, 189  
 Fibrin of Corti, 61  
*Fidicina*, 135  
*Fidicina bonaërensis*, 153  
*Fidicina opalina*, 207  
*Fidicina pullata*, 191, 194  
*Fidicina* sp., 36  
 Fighting, 211  
 FIGUIER, 133  
 Filter chamber, 64, 89  
 FISHER, W. P., 126  
 Fishes, 173  
 Fish-oil sprays, 194  
 FITCH, 136  
 FLACH, 91  
*Flata*, 67  
 "Flea locust," 160  
 Floods, and cicada distribution, 143  
 Folded membrane, 75  
 Folk-lore, cicadas in, 28 *seqq.*  
 Follicle-cells, 100  
 FOLSOM, 126, 213  
 Food, cicadas as, 187  
 FORBES, W. T. M., 51, 91  
 FORBUSH, 183  
 Formicidae, 171  
 FORSHEY, 143  
 Fossil cicadas, 90, 91  
 Fowls, eating cicadas, 184  
 FRANCE, ANATOLE, 38  
 France, popular beliefs, 34  
 FRANCIS of Assisi, St., 20  
*Frazinus ornus*, 164  
 FRANZ, 38  
 FRIEDMANN, 183  
 FROGGATT, 83, 114, 123, 129, 138,  
 160, 161, 164, 166, 190, 204  
 FRONS, 43  
 FRUHSTORFER, 187, 199, 233  
*Puchsia excorticata*, 158  
 FUJITA, 186  
 FUKAI, 222  
 Fulgoroidea, 89, 101, 163  
 FULTON, 213  
 FUMOZUE, 42, 189  
 Fungal parasites, 150 *seqq.*  
 FUNKHOUSER, 42, 163  
 GADD, 63, 70, 97, 106, 123, 125, 137,  
 138, 139, 141, 192, 200, 204, 205-6,  
 211, 218-9, 236  
 GADEAU DE KERVILLE, 97  
*Gaeana*, 134  
 Gaeninae, 83  
*Galang, galang*, 31  
 GALEN, 188  
 GALILEO, 15, 72  
 Ganglia, 58  
 Gastronomic interest in cicadas, 187  
*Gazuma*, 135  
 GEISE, 42  
 Gems, cicadas figured on, 11, 12  
*Geniostoma ligustrifolium*, 158  
 Genitalia, female, 54; male, 53;  
 preparation for study, 235; use in  
 classification, 82  
 Genital styles, 54  
*Geococcyx californianus*, 178  
 Geological record, 86  
 GERMAR, 82  
 Germinal streak, 109  
 Giant sperm elements, 99  
 GIARD, 198-9  
 GIMINGHAM, 112  
*Glaucidium gnoma*, 178  
 GLICK, 192  
*Glochidion*, 139  
 GOETHE, 3, 6, 38  
 GODING, 83  
 GODING and FROGGATT, 140, 145, 218  
 Gonads, 69  
 Gonapophyses, 57  
 Gond proverb regarding cicadas, 31  
 "Good-huswife," 34  
 GORTNER, 41  
 GOSSARD, 102, 131-2, 192, 193  
 GOUREAU, 74, 77  
 GRABER, 63, 64, 74  
*Graptosaltria colorata*, 26, 101, 139,  
 169, 222  
 GRAVELY, 139, 161  
 Greek Anthology, 9  
 Greek references to cicada song, 4  
 Greeks, 186  
 GREEN, E. E., 163  
 GRENACHER, 59  
 GREY, R. M., 36

- GROSHANS, 5  
 GROTIUS, 10  
 Ground hogs eating cicadas, 185  
*Guiraca caerulea*, 181  
 Gull, 177  
 Gummosis, 190  
 GUTHRIE-SMITH, 183  
 HAASE, 92  
*Haka* or war-song, 31  
 Haka, 230  
*Halcyon vagans*, 178  
 HALDANE, 1  
 HALES, 159  
 Halex River, 10, 136  
*Halticus citri*, 163  
*Hanza*, 84  
 Hand-clapping to attract cicadas,  
 187, 198  
 HANDLIRSCH, 62, 84, 86, 87, 91  
 Hand-picking, 194  
 HANDSCHIN, 134  
 Han Dynasty, 24  
 HANG-TS'UNG emperor, 23  
 HANSEN, 48, 62  
 HARA, 153  
 HARGITT, 63  
 HARLAN, 184  
 HARRIS, T. R., 142  
 HARTMANN, 209  
 Haruzemi, 222  
 HASEMAN, 192  
 HASWELL, 74  
 Hatching, 110 *seqq.*; behaviour, 202  
 HAUPT, 48, 84, 197  
 HAY, 129, 193, 196  
 Hazel, 139  
 Head, 42  
 Hearing, 197 *seqq.*  
 HEARN, 23, 80, 122, 128, 132, 186,  
 188, 206, 221-2, 233  
 Heart, 67  
*Hebe*, 135  
*Hedycarya arborea*, 158  
 HEER, 91  
 HELMHOLTZ, 61  
*Helmitheros vermivorus*, 181  
 HELMS, 220, 222  
*Hemidictya*, 50, 82  
 Hemidictyini, 82, 85  
 Hemielytral condition, 88  
 Hemiptera, 1  
 HEMPFL, 191  
 HENDERSON, W. C., 183  
*Henicopsaltria perulata*, 170  
 HENNEGUY, 70, 111, 126, 127  
 HERCULES, 136  
 HESIOD, 5, 71  
*Heterodon platyrhinus*, 174  
*Heteropsaltria*, 135  
 Heteroptera, 88  
*Heterospilus*, 167, 170  
 HEYMONS, 54, 57, 62, 101, 109, 115,  
 154  
*Hi-chee-sim*, 32  
 HICKERNELL, 63  
 Higurashi, 221  
 HILDRETH, 160  
 HILL, G. F., 172  
 Himalayas, 142  
 Hindu laws, cicada in, 26  
 Hindu literature, cicada in, 26  
 HINGSTON, 74, 217  
*Hirundo erythrogaster*, 179  
 Hoe-handles, oviposited in,  
 108  
 Hog-nosed adder, 174  
 HOLMGREN, 70  
 HOMER, 3  
*Homopus fulviventris*, 167  
 Homoptera, 88  
*Honzau-Kaumoku*, 22, 189  
 HOOKER, 142, 221  
 HOPKINS, 192, 207  
*Hoplophora*, 172  
 HORAPOLLO, 17, 42  
 HORVÁTH, 49, 90, 199  
 HOWARD, 187-8, 205  
 HOWARD, ELIOT, 214  
 Hsia, calendar of, 23  
*Hsien*, 23, 24  
 HUDSON, 129, 173, 175, 183, 209  
 HUEBER, 143, 207, 220  
*Huechys*, 134, 148-9, 188  
*Huechys sanguinea*, 22, 32, 41, 42,  
 114, 123, 139, 178, 182, 189-90, 204,  
 205  
*Hung-liang-tsze*, 22  
 "huts" or "cones" of nymphs,  
 121  
 HUXLEY, 154  
 HUXLEY, JULIAN, 213  
 HYATT, 57  
 HYATT and ARMS, 123  
 Hydrophobia, cicadas administered  
 for, 189  
*Hylaoneura*, 90, 94  
*Hylocichla aliciae*, 180  
*Hylocichla fuscescens*, 180  
*Hylocichla guttata*, 180  
*Hylocichla mustelina*, 180  
*Hylocichla ustulata*, 180  
*Hymenogaster*, 135  
*Hymenogaster planiceps*, 102, 107,  
 129  
 Hypandrium, 53  
 Hypnody, 167

Hypopharynx, 45, 109  
 Hyposoma, 71  
 Hyrax, 221

IBN EL-BEITHAR, 188  
*Ichthaelurus punctatus*, 173  
*Icteria virens*, 181  
*Icterus bullocki*, 182  
*Icterus galbula*, 182  
*Icterus spurius*, 182  
*Ichinia mississippiensis*, 177  
*Idiocentrus mirus*, 168, 170  
*Iliad*, 3, 4  
 IMHOF, 48, 89  
 IMHOOF-BLUMER and KELLER, 11  
 IMMS, 49, 111  
 IM THURN, 206, 221  
 Initial song, 208  
 Injurious cicadas, 190 *seqq.*  
 INNES, 102, 129  
*Inrō*, 26, 27 (fig.)  
 Integument, 40  
 Internal gland, 64  
 Intestine, 64  
*Inyamana*, 135  
*Ioba horizontalis*, 138, 222  
*Ioba leopardina*, 138, 196, 206, 222  
*Iphis ovalis*, 172  
*Iridomyrmex detectus*, 171  
 Iron rod, attempt to oviposit in, 108  
*Isaria amorpha*, 153  
*Isaria arbuscula*, 152  
*Isaria cosmopsaltriae*, 153  
 ISIDORUS, 14  
 Istria, 127  
 Italian sayings regarding cicadas, 33

JACK, 190  
 JACOBI, 84, 135, 149  
 JACOBSON, 183  
 Jade, cicada carved in, 24  
 JAEGER, 33, 129, 160  
 Japan, cicadas in literature, 25;  
 cicadas kept in, 8  
 Japan, popular beliefs on cicadas, 32  
 Japanese fauna, 136  
 JARVIS, 193  
 JENSEN-HAARUP, 222  
 JEREMIAH, 18  
 Jewassee bushes, 130  
 JOHNSTON, 187, 206  
 JONES, 220  
 JOWETT, 7, 8  
 "Joy of life" hypothesis, 213  
 JUDEICH and NITSCHKE, 164  
*Juniperus*, 106

*Juniperus excelsus*, 138  
 Jurassic, 92, 94

KAEMPFER, 32, 189  
 Kainite, against cicadas, 194  
 KALMBACH, 183, 184  
 Karens, 121  
 Karens of Burma, beliefs about  
 cicadas, 32  
 KARSCH, 83  
 Katopisternum, 47  
 Katydid, 213  
 KELLER, 6  
 KELLOGG, C. R., 189  
 Kerosene-emulsion against cicadas,  
 194  
 KERSHAW, J. A., 63, 67, 130, 176,  
 183, 186, 233  
 KERSHAW and MUIR, 53, 54, 57  
*Kihikihi*, 31  
*Kikihi*, 29  
 KILLERMANN, 20  
 Kingfishers, 178  
 King-hunters, 149, 205  
 KIN YUAN, 23  
 KIRBY, W. F., 114  
 KIRKALDY, 83, 86, 114, 169  
 Koromiko, 105  
 Kite, swallow-tailed, 176-7  
 KITO, 26  
 KNIGHT, 163  
 KOLBE, 143  
 KOLENATI, 113  
*Koma bombifrons*, 137, 170, 174,  
 222  
 KONINGSBERGER, 186, 196  
 Korea, cicada carved in amber, 25  
 KORNHAUSER, 98  
 KRIEGER, 161  
 KRUMBACH, 127, 137, 138, 139, 161,  
 197, 219, 222, 223, 236  
 KUHLGATZ, 114, 183, 191, 196  
*Kuma Sebi*, 32  
 KUNCKEL D'HERCULAI, 116

Labium, 46  
 LA BONNE, 125  
 Labrum-epipharynx, 44  
 Lacewings, 165  
 LA FONTAINE, 29  
 LAMEERE, 87  
 LANDER, 121  
 LANDOIS, 8, 62, 71, 78, 219  
*Lanius collaris* (?), 181  
*Lanius cristatus*, 181  
*Lanivireo flavifrons*, 180  
*Lanivireo solitarius*, 180  
*Larus atricilla*, 177

*Larus californicus*, 177  
*Larus philadelphia*, 177  
 LATASTE, 198, 215  
*Laternaria*, 36  
*Lathromeris cicadae*, 170  
 Latin literature, cicadas in, 15  
 Latin references to cicada song, 4  
 LATREILLE, 74, 82, 219  
 "Lauer," 33  
 LAUFER, 24  
 LAURENTI, 73, 77, 113  
 LAWSON, 54  
 LEAF, 4  
 LECLERC, 188  
 LEFROY, 34  
 Legs, 48  
 LEIDY, 153  
 LELAND, 8, 28, 34  
*Lembeja*, 50, 93  
*Leuriana apicalis*, 161  
 LEONIDAS of Tarentum, 10  
 Lepidoptera, 92  
 LEPOBI, 74, 77  
 LEPRIEUR, 191  
*Leptospermum ericoides*, 158  
 LETHIERRY, 196  
*Leucopogon fasciculatum*, 158  
 LEWIS, 165  
 LEYDIG, 139, 145, 200  
 LICENT, 63, 64  
 LIENHARDT, 143  
 Life-cycle, 129  
 Life-history, 95  
 Light, attraction to, 196  
 Limacodids, 92  
 LIMA, DA COSTA, 191  
 Lime-sulphur, 194  
 Liming cicadas, 233  
 LINDEN, VON, 42  
 LINDSAY, 167  
 LINK, 60  
 LINNAEUS, 82, 164  
 "l'instinct botanique," 162  
 LINTNER, 121  
*Liogryllus campestris*, 213  
 Lipoid globules, 99  
 LI SHI CHEN, 22  
*Lissotrachelus maoricus*, 228  
*Lithocicada*, 91  
 Lizards, 174  
 LLOYD, 153  
 Locomotive cicada, 221  
*Locusta viridissima*, 29, 169  
 Locust, confusion with, 33  
*Lolium perenne*, 108  
 Lorum, 45  
 LOTI, PIERRE, 38  
 LOVERIDGE, 210  
 LOWE, 121, 173, 185

LUBBOCK, 64  
 LUCAS, H., 74, 77, 138, 141  
 LUCIAN, 18  
 LUCRETIUS, 122  
*Lycosa carolinensis*, 171  
*Lygus pratensis*, 163  
 LYLE, 102, 114, 123, 125, 137, 138,  
 204, 218, 222

McATEE, 207-8, 218  
 MCCOY, 5, 164, 183, 186, 222  
 Macedonia, beliefs regarding cicadas,  
 34  
 Machabel, 138  
 McMAHON, 130  
 MACPHERSON, 186, 233  
 Macrochromosomes, 98  
*Macropiper excelsum*, 158  
*Macroptopus oleae*, 102, 192  
 Macrotrichial sockets, 91  
*Macrotristria*, 135  
*Macrotristria angularis*, 39, 193  
*Magiccicada cassini*, 222  
*Magiccicada septendecim*, 33, 41, 44,  
 95, 96, 98, 101, 103, 104, 105, 109,  
 110, 114, 116, 117, 118, 121, 123,  
 124, 125, 126, 127, 128, 129-133,  
 135, 138, 141, 143, 145, 146, 153,  
 154, 160, 165, 167, 169, 170-2,  
 173-4, 177-185, 188, 190-4, 202-3,  
 207-9, 218, 222  
 MAKI, 114, 139, 141, 149, 193  
 Malagasy fauna, 135  
 Malay names for cicada, 32  
 Male genitalia, 53  
 MALPIGHI, 54, 57  
 Malpighian tubules, 64, 65  
 Malvaceae, 162  
 Mammals eating cicadas, 185  
 MAMMEN, 62  
 Man, and cicadas, 186  
*Manava-Dharma-Sastra*, 26  
 Mandibular setae, 45  
 MANN, W. M., 161  
 Manna, 160, 164  
 Manniferae, 164  
*Manticora mygaloides*, 169  
 Mantis, 167, 169  
*Mantis religiosa*, 143  
 Manu, Institutes of, 26  
 Maori fables, cicada in, 29  
 Maori sayings, cicadas in, 31  
 MARCGRAVE, 219  
 MARCH, 160  
 MARCUS ARGENTARIUS, 10  
*Mardalana congrua*, 204  
 MARIAN, 33

- MARLATT, 42, 101, 103, 106, 108, 110, 111, 114, 118, 121, 126, 127, 130-131, 145, 146, 153, 166, 171-2, 184, 187-8, 190-4, 202-3, 222
- Marram grass, 108, 118. See *Psamma arenaria*
- MARSHALL, G. A. K., 96, 137, 148, 174, 196, 210, 222
- MASKEW, 192
- MASON, F., 121, 187
- MASSEE, 153
- Massospora*, 133
- Massospora cicadina*, 69, 153
- MATHEW, 219-20, 222
- Mating, 95, 97
- MATSUMURA, 80, 137, 139, 149, 173, 205, 221-2
- Matsumushi, 137
- Maturation of germ cells, 97
- Maua*, 205
- Maxilla, 109
- Maxillary plate, 45; setae, 45
- MAYER, 74, 77
- MECKEL, 59, 63, 69, 70
- MEDICI, 74, 77
- Medicinal uses of cicadas, 188
- Medicine-cases, Japanese, 26
- MEEK, 42
- Meimuna opalifera*, 32, 137, 222
- Melampsalta*, 47, 51, 58, 61, 78, 104, 134, 136, 173, 193, 197
- Melampsalta adusta*, 138
- Melampsalta aestuans*, 141
- Melampsalta algira* = *M. aestuans*, q.v.
- Melampsalta argentata*, 114, 138, 222
- Melampsalta campbelli*, 129, 230
- Melampsalta cantans*, 130, 141
- Melampsalta cassiope*, 129, 142, 229
- Melampsalta cauta*, 96, 105, 106, 129, 138, 196, 206, 230, 232
- Melampsalta cingulata*, 31, 54, 79, 96, 102, 104, 105, 117, 124, 128, 129, 133, 138, 144, 148, 152, 157, 159, 161, 164, 167, 169, 171, 175, 182, 194, 196, 200, 205-6, 208-9, 211-213, 217, 218, 224
- Melampsalta cruentata*, 117, 128, 141, 196, 205, 218, 228-9
- Melampsalta cutora*, 135
- Melampsalta fuliginosa*, 128
- Melampsalta hamiltoni*, 129, 148, 167, 169, 226
- Melampsalta incepta*, 164, 190
- Melampsalta iolanthe*, 129
- Melampsalta leptomera*, 44, 96, 97, 102, 107, 108, 110, 113, 115, 117, 118, 119 *segg.*, 126, 128, 141, 165, 171, 203-5, 207, 226-7, 232, 236
- Melampsalta lindsayi*, 129
- Melampsalta mangu*, 129, 172, 229
- Melampsalta maorica*, 129
- Melampsalta mneme*, 218
- Melampsalta montana*, 102, 107, 114, 123, 125, 136, 138, 204, 218-9, 222
- Melampsalta muta*, 54, 62, 74, 96, 102, 107, 108, 128, 133, 141, 148, 152, 167, 168, 169, 170, 171, 175, 182, 185, 206, 211-2, 225-6
- Melampsalta muta cutora*, 31, 128, 139, 177, 186, 200, 228
- Melampsalta muta subalpina*, 96, 128, 139, 169, 211, 228
- Melampsalta nigra*, 129, 142, 172
- Melampsalta ochrina*, 97, 105, 117, 128, 133, 135, 139, 148, 175, 182, 196, 206, 218, 227
- Melampsalta omar*, 170, 196
- Melampsalta oromelaena*, 129
- Melampsalta radiator*, 138, 222
- Melampsalta sachalinensis*, 205
- Melampsalta scutellaris*, 96, 117, 125, 128, 133, 138, 171, 186, 205-6, 218, 231-2
- Melampsalta sericea*, 74, 96, 117, 128, 135, 141, 205, 212, 225
- Melampsalta*, songs, 223 *segg.*
- Melampsalta strepitans*, 79, 128, 141, 196, 205, 208-9, 211-3, 218, 224-5
- Melampsalta tibialis*, 139, 222
- Melanerpes erythrocephalus*, 179
- Melanoplus femur-rubrum*, 213
- MELEAGER, 9, 10, 147
- MELICHAR, 114, 122, 164
- Melicytus ramiflorus*, 157
- Membracidae, 89, 90, 101, 163
- MERIAN, Madame, 36
- Merops*, 176
- Merops aptaster*, 178
- Mesenteric sac, 64, 66, 217
- Mesodon elevata*, 165
- Mesodon exoleta*, 165
- Mesogereon*, 51, 86, 91, 92
- Mesogereonidae, 92, 94
- Mesogereon neuropunctatum*, 91
- Mesonotum, 46
- Mesosternum, 47
- Mesothroax, 46
- Metaphrenia, 2
- Metasternum, 47
- METCALF, 84, 102, 162
- Metrosideros*, 135
- Mfuti, 138
- Mfuti tree, 148
- Microcentrum laurifolium*, 213
- Microhierax caerulescens*, 177, 178

- Micro-organisms, symbiotic, 154
- segg.*
- Micropterus salmoides*, 173
- Microstylum apicale*, 170
- Microstylum dux*, 170
- Micturition in chorus, 161
- MIDDLEMISS, 74
- MIDDLETON, 192
- "Migration" of cicadas to America, 93
- MILDE, 3, 138, 139, 142, 176, 206, 207, 222
- MILLER, A. E., 172
- MILLER, D., 194
- MILLER, GEORGE HENRY, 38
- Mimmin zemi, 222
- Mimus polyglottos*, 180
- Miocene, 91
- Miomantis fenestrata*, 169
- MIQUEL, 153
- Miridae, 163
- Mirror, 60, 75
- Miscegenation, 97
- Mites, 172
- Mitochondria, 99, 101
- Modern literature, cicadas in, 37
- Mogannia*, 134, 141
- Mogannia hebes*, 139, 193
- Mogannia mandarinea*, 170
- Mogannia nasalis*, 170
- Moganniini, 85
- Molothrus ater*, 182
- Monomatapa insignis*, 210, 222
- MONTEIRO, 167
- Moonlight, singing in, 207
- Mopai, 138
- Mopani tree, 148
- MORERA, 191, 194
- MORGAN, LLOYD, 74
- MORRILL, 133, 191, 192
- MORRIS, 191
- Mortality in eggs, 110
- Mosassa, 138
- MOUFET, 8, 21, 72, 95, 186, 188, 199, 217
- MOULTON (died since the text was written), 84, 90, 123, 196, 205, 207, 233
- Moult, number of, 126
- Mountain cicadas, 135
- Mouth setae, 64
- MUIR, 42, 49, 54, 84, 85, 86, 87, 90, 92, 149, 205
- MUIR and KERSHAW, 42
- Mulberry, 193
- MÜLLER, 209
- Munza basimaculata*, 222
- Munza furva*, 222
- MURR, VON, 22
- Muscivora forficata*, 179
- Muscles, tymbal, 76
- Muscular system, 62
- Muses, 2, 7
- Muses, cicadas beloved of, 12
- MUSGRAVE, 114, 124, 168
- Music, cicada, 220 *segg.*
- Music, of cicadas, 186
- Mycetome, 154 *segg.*
- MYERS, 114
- MYERS, I., 200, 206
- MYERS, I. and J. G., 208, 218, 223
- Myiadestes townsendi*, 180
- Myiagra rubecula*, 179
- Myiarchus cinerascens*, 179
- Myiarchus crinitus*, 179
- Myiochanes virens*, 179
- "mymarid," 170
- Myrtus bullata*, 158
- Mythology, cicadas in, 28
- NASSONOW, 63
- NAWA, 101, 168
- Nearctic Region, 135
- NEBENKERN, 99
- NEEDHAM, 49
- Nematodes, 165
- Neotamias smithi*, 167, 169
- Nertropical Region, 135
- Nervous system, 58
- Nestor notabilis*, 178
- Nets, for catching cicadas, 233
- Netsuké*, 26
- Netveining, 49
- Neuroptera, 111
- NEWELL, W., 54, 102, 103, 107, 108, 192
- New England, cicada traditions, 33
- New Zealand, 128; cicada fables, 29; fauna, 135
- NICHOLS, 108
- Night, singing at, 206-7
- NIGIDIUS, 42, 197
- Nocturnal habits, 207
- Nodal line, 51, 88, 90
- North American popular beliefs, 35
- Northern limit of cicadas, 136
- Nothochrysa gigantea*, 165
- Nothofagus fusca*, 158
- Nothofagus Solandri*, 158
- Nothopanax arboreum*, 158
- Nucifraga columbiana*, 183
- Nucleoli, 101
- Nucleus, 101
- Nurse-cells, 100

- Nurse-chamber, 100  
*Nattallornis borealis*, 179  
 Nymphs, 113 *seqq.*, 115 *seqq.*; newly-hatched, 112; destructive, 191  
 Oak, 137, 138  
 Occurrence, seasonal and cyclical, 127 *seqq.*  
 Ocellar nerves, 58  
 Ocelli, 60  
*Octicelli*, 82  
 O'DELL, 193  
 Odour, emission of, 149  
*Oecanthus*, 168  
 Oesophageal connectives, 58  
 OGLIVIE-GRANT, 196  
 OGLE, 71  
 Oil-cicada, 26  
*Okanagana*, 135, 221  
*Okanagana canadensis*, 209  
*Okanagana cruentifera*, 179  
*Okanagana gracilis*, 141, 178  
*Okanagana rimosa*, 114, 138, 178-9, 184, 221  
*Okanagana schaefferi*, 221  
*Okanagana* sp., 178-9  
*Okanagana synodica*, 141  
*Okanagana vanduzeei*, 205  
*Okimono*, 36  
*Olea lanceolata*, 158  
*Olearia*, 135  
*Olearia Cunninghamii*, 158  
 Olfactory sensations, 201  
 Oligocene, 91  
 Olive, 138, 191-2  
 Omens, cicada as, 16  
 Ommatidia, 59  
*Oncotympana maculaticollis*, 169, 222  
 Oocytes, 100  
 Oogenesis, 100  
 Open country cicadas, 140  
 Opercula, 74, 90  
 Operculum, 47  
 OPPENHEIM, 92  
*Oppia pilosa*, 172  
 Optic nerves, 58  
 Orange, 138  
 Orchard pests, cicadas as, 192  
*Oreospiza chlorura*, 182  
*Oribata*, 172  
*Oribatella*, 172  
*Oribatula*, 172  
 Oriental Region, 134  
 Origin of cicadas, 94  
*Oripoda elongata*, 172  
 Orthoptera, 213  
 OSBORN, H., 89, 102  
 OSBORN and METCALF, 114, 137, 140, 143  
 OSHANIN, 200  
*Otus asio*, 178  
 OU-YANG HSIU, 113  
 Ovarian tubules, 100  
 Ovaries, 69, 100  
 Oviduct, 69  
 Oviposition, 102 *seqq.*  
 Oviposition, damage by, 191  
 Oviposition hosts, 157  
 Ovipositor, 54  
 Owl, fable of cicada and, 28  
*Oxyechus vociferus*, 177  
 PACKARD, 107, 114, 126  
 Palaearctic Region, 135  
*Palaeocossus*, 93  
 Palaeodictyoptera, 88  
 Palaeohemiptera, 86  
 Palaeontinidae, 92, 94  
 Palaeontology, 90  
 PAMPHILUS, 10  
 PAN, 2  
*Pandanus*, 137  
 Panianuan chant, 32  
*Panicum turgidum*, 107  
*Panicum virgatum*, 107  
*Panorpa rufescens*, 169  
 PARACELSIUS, 20  
 Parasites, of egg, 110  
 Parasitoids, 165 *seqq.*  
 PAROCCELLI, 84  
*Passer domesticus*, 174-6, 181-2  
*Passerina amoena*, 181  
*Passerina cyanea*, 181  
 PATON, 9  
 Patristic writings, cicadas in, 18  
 Patterns, 41  
*Pauropsalta leurensis*, 218. See *Melampsalta mneme*  
 Peach, 164, 193  
 Peach, cicada injury to, 190-1  
 PEAD, 141, 161, 190, 199, 205-6, 208, 211, 222  
 PECK, 153  
*Pediculoides ventricosus*, 172  
 PELLIOU, 24  
 PENDLEBURY, 122, 123  
 Penis, 54  
*Penthestes atricapillus*, 181  
*Penthestes carolinensis*, 181  
*Pen Ts'ao*, 3, 22, 189  
 Periandrium, 54  
 Periodical cicada. See *Magiccicada septendecim*  
 PERKINS, 169  
 Permian, 87  
*Perrisia pyri*, 194  
 Persimmon, 192  
 Pests, cicadas as, 190 *seqq.*

- PETCH, 152  
*Petrochelidon lunifrons*, 179  
 Phallosoma, 96  
 Pharynx, 64  
 PHILIP, 17  
 Philippus, 9  
 PHILPOTT, 183  
 Phoresy, 165, 172, 193  
 Phospholipoid bodies, 101  
 Phragma, 47  
*Phragmatocetes*, 93  
 Phylogeny, 86  
*Pica pica*, 183  
 PIERANTONI, 154 *seqq.*  
 Pieridae, 162  
 PIERROT, 193  
 Pigmentation, 41  
 Pigs, eating cicadas, 185  
 Piloosity, 41  
 Pine, 137, 161  
*Pinus insignis (radiata)*, 164  
*Pipilio crissalis*, 181  
*Pipilio erythrophthalmus*, 181  
*Pittosporum eugenioides*, 157  
*Pittosporum tenuifolium*, 157  
*Planesticus migratorius*, 180  
 "Plant worms," 150  
 PLATO, 7, 8, 71, 86  
*Platycostoma compressa*, 163  
*Platyloma*, 134  
*Platypedia*, 91, 221  
*Platypedia putnami*, 178-82  
*Platypedia* sp., 180-3  
*Platypedia vanduzeei*, 204  
*Platyleura*, 92, 135, 136  
*Platyleura calypso*, 114  
*Platyleura capitata*, 161  
*Platyleura centralis*, 138, 148, 170, 174, 222  
*Platyleura Kaempferi*, 221  
*Platyleura marshalli*, 138, 148, 222  
*Platyleura stridula*, 141, 199  
 Playpleurinae, 85  
 Platyptery, 135  
 Pleistocene, 91  
 Pleural flaps, 115  
 Pleuron, 47  
 Pleuropoden, 109  
 PLINY, 6, 15, 42, 81, 159  
 Ploceidae, 174  
 PLUTARCH, 16, 174, 176  
*Podocarpus totara*, 163  
*Poecilodryas aethiops*, 179  
*Poecilopsaltria subrufa*. See *Platyleura capitata*  
 "Poëte des cigales, le", 38  
*Poliopitila caerulea*, 180  
*Polistes macaensis*, 166, 171  
*Polistes pallipes*, 171  
*Polyneura*, 50, 82, 83  
 Polyneurini, 82, 83  
*Pomponia*, 122, 134, 136, 203  
*Pomponia fusca*, 137  
*Pomponia imperatoria*, 32, 149, 206, 220, 222  
*Pomponia intemerata*, 187, 199, 207  
 PONTEDERA, 73, 102, 103, 106, 110, 129  
*Poocetes gramineus*, 182  
 POPE-HENNESSY, 23  
 Poplar, 138  
*Popokoria*, 30  
 Popular beliefs in Europe, 33, 34  
 Popular names, 80  
 Popular names for cicadas, 32, 33  
 Pores, abdominal, 110  
*Porotermes froggatti*, 172  
 POTTER, A. T., 196, 209  
 POTTER, N., 62, 74, 160  
 POULTON, 171  
 POZZI, 113. See PUTIUS  
 Practising song, 232  
*Prairie cicadas*, 141  
*Prasia*, 134  
 Predators, 165 *seqq.*  
 Preference, food, 162  
 Preparation of cicadas for study, 234-235  
 Preservation of cicadas, 235  
*Priocnemus bicolor*, 166, 170  
 Proarna, 135  
*Proarna hilaris*, 197  
*Proarna* sp., 178  
*Proctocanthus nigriventris*, 170  
*Progne subis*, 179  
 Progress, 2  
*Promachus*, 166, 170  
*Promachus anicius*, 170  
*Promachus capreolus*, 170  
*Promachus sokotrae*, 170  
 Pronotum, 46  
 Prophets, cicadas as, 127  
*Prostole*, 86, 87, 88  
 Prosternum, 47  
 Protohemiptera, 86  
 Protorthoptera, 88  
 Pruinosity, 40  
*Psalmocharias querula*, 130  
*Psaltoda moerens*, 130, 138, 161, 164, 222  
*Psamma arenaria*, 108, 171  
 Pseudovitellus, 154  
 Psychology of cicadas, 195 *seqq.*  
 Psyllidae, 163  
 Pubescence, 40  
 Puella Pandion, 176  
 PUTIUS, 102, 113, 164  
 PUTNAM, 141, 221

*Pycna antinorii*, 196  
*Pycna semiclara*, 123  
 Pygophor, 53; female, 56  
*Pyrrangia erythromelas*, 182  
*Pyrrangia ludoviciana*, 182  
*Pyrrangia rubra*, 182  
 Pyrethrum against cicadas, 194  
*Pyrrhuloxia sinuata*, 182

QUAINTANCE, 63, 160, 190  
*Quesada*, 135  
*Quesada gigas*, 206, 207, 219-20, 222  
*Quintilia carinata*, 169  
*Quiscalus quiscula*, 182

RABAUD, 5  
 RAINBOW, 97  
 Rain forest, 134  
 Rain, necessary for hatching, 106  
 "Rain trees," 161  
 RAMDOHR, 63  
*Rapania Urvillei*, 158  
 RATHVON, 106, 110, 121  
 Rattles, cicadas as, for children, 186  
 RATZBURG, 164  
 Rearing cicadas, 235-6  
 RÉAUMUR, 22, 54, 57, 71, 73, 80, 81,  
 102, 103, 106, 110, 114, 160, 167  
 Rebmann, 33  
 Recording songs, 219, 223  
 Rectal sac, 65  
 Reduviidae, 169  
 REGEN, 213  
 REHUA, 13, 31  
 REICHEL, 122  
 RENDALL, 196  
 Reproductive system, 69  
 Reptiles, 173  
 Respiratory system, 62  
*Reticelli*, 82  
 Revolution of embryo, 109  
 Revolver for shooting cicadas, 234  
*Rhus vernicifera*, 42  
 Rhythmic groupings, in songs, 223  
*Rickettsia*-like organisms, 156  
 RIKU-UN, 23  
 RILEY, 110, 121, 124, 125, 130, 166,  
 219, 222  
 Rivalry between males, 209  
 ROBERTS, W. R., 9  
 ROBINSON, TANCRED, 160, 164  
 Rock-frequenting cicadas, 141  
 Romagna Toscana, La, 8  
 ROOSEVELT, 221  
 ROSS, 167  
 ROSSI, 59

Rostrum, 46, 61, 64  
 Rouge d'Huechys, 42  
 Roumania, beliefs regarding cicadas,  
 34; popular names for cicadas, 34  
 ROUSSEAU, 2  
 RUMSEY, 192

SACCARDO, 153  
*Saccharomyces*, 69  
*Saccharomyces cicadarum*, 156  
 SAHLBERG, 137  
 ST. GEORGE, 128, 132, 207  
 Salivary glands, 65  
 Salivary pump, 66  
*Salix Babylonica*, 138  
*Salmo fario*, 173  
 "Salmon fly," 192  
 Salt-marsh cicada, 107, 140. See  
*Tibicen viridifascia*  
 Saltpetre, against cicadas, 194  
 SAMANIEGO, 29  
 SANDAGER, 177, 183  
 SANDEL, 187  
 Sántal medicine, cicadas in, 189  
 Sarawak names for cicada, 32  
*Sarcophaga helcicis*, 170  
 Sarcophagidae, 170  
 SAREN, 25, 128  
*Saticula*, 135  
 SAVIN, 166  
 Saw, cicadas' response to noise of, 200  
*Sayornis phoebe*, 179  
 Scent-organ, in *Huechys*, 190  
 SCHERDLIN, 143  
 SCHINDLER, 63  
 SCHMIDT, 83, 84  
 Scholastic literature, cicadas in, 18  
 SCHUGUROW, 139, 192  
 SCHULTZ, 5  
 SCHULTZE, 122  
 SCHUMACHER, 84, 114, 129, 188, 189-  
 90, 193  
 SCHWARZ, 127  
 "Scissors-grinder," 34  
*Sciurus rufiventris*, 185  
 Scolopales, 61  
 Scolopophores, 61  
*Scolypopa australis*, 105  
 "scorpion-flies," 39  
 SCOTT, 192  
 SCOTT, A. W., 138, 204, 206, 222  
 SCOTT, F. B., 133, 184-5  
 Screech, of alarm, 176  
*Scrophularia*, 141  
 SCUDDER, 91, 92, 205, 213  
*Scudderia curvicauda*, 205  
 Scutellum, 47

Scutum, 47  
*Scytinoptera*, 86, 87  
 Sea oats, 140. See *Uniola panicu-  
 lata*  
 Seasonal occurrence, 127 *seqq.*  
*Semaiophora*, 44  
*Semini mukigara*, 189  
 Sensations of cicadas, 196 *seqq.*  
 Sense-organs, 59, 89  
 Sensillae, olfactory, 61  
 Sensory pits, 89, 201  
 SERRES, M. DE, 63, 91  
 Setae, mouth, 45  
 Settlement, effect on cicadas, 145  
 Seventeen-year cicada, 35. See  
*Magicicada septendecim*  
 Sex chromosome, 101  
 Sexes, proportions of, 96; relations  
 of, 211  
 Sexual selection, 209, 214  
 SHAFFER, 98, 100  
 Shang Dynasty, 3, 24  
 SHAW, MARION, 211  
 Shot-gun for shooting cicadas, 234  
 Shrubland cicadas, 139  
*Sialia currucoides*, 180  
*Sialia mexicana*, 180  
*Sialia sialis*, 180  
 Sialid, 91  
 Siam, 122  
 Sikkim, 123  
 SILVESTRI, 101, 103, 106, 114, 167-8,  
 192  
 "Singer," popular name for cicada,  
 33  
 SINGH-PRUTHI, 54  
 Singing, method of, 217-18  
 Singing on wing, 205  
*Sitta carolinensis*, 181  
 "Six o'clock cicada," 32, 206  
 SKEAT, 187, 199  
 Skolymus, 6  
 Skunks eating cicadas, 185  
 Sleep, 132-3  
 "Slingshot" for shooting cicadas,  
 234  
*Smilax rotundifolia*, 108  
 SMITH, H. W., 7  
 SMITH, J. B., 42, 106, 110  
 SMITH, PORTER, 189-90  
 Snakes, 174  
 SNODGRASS, 42, 63, 64, 104, 110, 111,  
 112, 120, 121, 123, 125, 202-3  
 Soil, distribution of cicadas according  
 to, 131  
*Solidago*, 107  
 SOLIER, 77, 197-8, 222  
 SOLINUS, 11, 136  
 Song, 205 *seqq.*

Song as "betrayer," 149  
 Song, description of, 217 *seqq.*; role  
 of, 209, 215  
*Sophora tetraptera*, 159  
 Sound-organs, 71, 89  
 Sound production, 77; early views,  
 71  
 Sounds, attraction to, 233; cicadas  
 attracted by, 11  
 South African popular names for  
 cicadas, 33  
 Spain, cicadas kept in, 8  
 Sparrows, 149  
 SPREARE, 153  
 Spermatheca, 70  
 Spermatids, 98  
 Spermatocytes, 98  
 Spermatogenesis, 97  
 Spermatogonia, 98  
*Sphaerogonia Basili*, 152. See *Cordyceps  
 Sinclairii*  
*Sphecius freyi*, 166, 171  
*Sphecius speciosus*, 166, 171  
*Sphecius spectabilis*, 166, 171  
*Sphodromantis guttata*, 111  
 Spiders, 171  
 Spiracles, 62, 109  
*Spizella passerina*, 182  
*Spizella socialis*, 182  
*Sporotrichum minutulum*, 153  
 Squirrels eating cicadas, 185  
 Squirting of liquid, 161, 185  
 "S" sounds absorbed, 224  
 STÅL, 82  
 STAUNTON, 186  
 STELLWAAG, 193  
*Stenobothrus*, 99  
*Sterna dougalli*, 177  
*Sterna hirundo*, 177  
 Sternellum, 47  
 Stigmata, 62. See spiracles  
 Stinging, alleged, by cicadas, 190  
 Stomach, 64  
 STRABO, 10, 136  
 Stridulating apparatus, accessory,  
 78  
*Sturnella magna*, 182  
*Sturnus vulgaris*, 182  
 Suboesophageal ganglion, 58  
 Sucking-pump, 64  
 Sugar-cane, 193  
 SULC, 69, 154 *seqq.*  
 Sun god, cicada sacred to, 12  
 Sun, influence on song, 224  
 Sunshine, and cicada distribution,  
 142  
 Sunshine, effect on song, 205-6  
 SURFACE, 126, 174, 184-5  
 Surinam, popular beliefs, 36



SUSHKIN, 174  
Swallow, 176  
SWAMMERDAM, 114  
Swarms of cicadas, 129  
Swim-bladder, 66  
SWINTON, 6, 59, 60, 138, 139, 149, 161, 175, 199, 218, 222  
SWYNNERTON, 97, 210  
Symbionts, 154 *seqq.*  
Synopsis, 98, 100, 101  
*Syntomaspis*, 167, 170  
Syringe, 66. See Salivary pump

*Tachina* sp., 170  
Tachinid, 167, 170  
*Tachopteryx thoreyi*, 169  
Tactile sensations, 201  
*Tacua*, 134  
*Taipinga consobrina*, 141, 205, 208, 211, 222  
*Taipinga nigricans*, 138, 222  
*Talainga*, 84  
Talaingini, 82, 84  
Tamarisk, 130, 140  
*Tamias striatus*, 185  
TANE-MAHUTA, 30, 144  
*Tanna japonensis*, 137, 169, 221  
Taosim, cicadas in, 23  
*Tarakihii*, 31  
TARGIONI, 74  
Tarsi, 48  
TASCHENBERG, 15, 38, 189  
TAYLOR, L. H., 47, 89  
*Tchen*, 23  
Tegmen, 49  
Telegraph poles, 139  
Telbst, 66  
Telson, 52  
Temperature, correlated with cicada activity, 127; effect on song, 206, 207  
*Tenebrio molitor*, 41  
TENNYSON, 38  
*Tenter*, 31  
Tergites, 52  
Termites, cicadas with, 172  
*Terpnosia*, 84, 136  
*Terpnosia pryeri*. See *T. vacua*  
*Terpnosia vacua*, 137, 222  
Territory, in bird life, 214  
Tertiary fossil cicadas, 91  
Testes, 69  
Tetrad development, 99  
τέρτις, 5  
*Tettigades*, 84, 93, 135  
*Tettigades chilensis*, 166, 171, 198  
*Tettigades dumfriesi*, 142

*Tettigades ulnaria*, face p. 84  
Tettigadinae, 50, 78, 84, 85, 135, 149  
*Tettigarcta*, 46, 50, 51, 54, 61, 78, 84, 89, 90, 92, 114, 115, 116, 117, 134, 201, 207  
*Tettigarcta crinita*, 41, 142  
Tettigartinae, 85  
Tettigometra, 12  
*Tettigometra*, 23  
Tettigometridae, 87  
*Tettigomyia*, 135  
*Tettigonia*, 81, 82  
*Tettigonia viridis*. See *Cicadella viridis*  
Tettigophori, 12  
Tettix, 6  
*Tettix australis*, 145  
τέρτιγούητρος, 113, 114  
τέρτιγδία, 5  
THAXTER, 153  
THEOCRITUS, 16, 166  
THEODORE DE MAYERNE, 40  
Thistle, 141  
*Thopha*, 96, 97, 135  
*Thopha saccata*, 124, 171, 222  
Thorax, 46  
*Thyrothorus ludovicianus*, 179  
*Tibicen*, 54, 82, 104, 129, 135, 173  
*Tibicen auletes*, 102, 106, 161  
*Tibicen aurifera*, 107, 170  
*Tibicen bermudiana*, 34  
*Tibicen biconica*, 192  
*Tibicen (Cicada) bicosta*, 192  
*Tibicen chircalua*, 140, 142  
*Tibicen chloromera*, 169, 171, 172, 178  
*Tibicen cinctifera*, 133, 191, 192  
*Tibicen erratica*, 102, 103, 107, 108, 192. See *T. vitripennis*  
*Tibicen flammata*, 137, 222  
*Tibicen linnei*, 97, 117, 123, 169, 170, 171, 196, 206  
*Tibicen lyricen*, 101, 106, 107, 171  
*Tibicen marianalis*, 91, 170  
*Tibicen montezuma*, 161  
*Tibicen ochracea*, 193  
*Tibicen olympusa*, 137, 170  
*Tibicen plebeia*, fig., 4, 5, 41, 42, 63, 78, 81, 101, 103, 106, 107, 110, 114, 116, 121, 123, 124, 133, 136, 139, 142, 160, 161, 168, 170, 172, 192, 197-9, 205-6, 218, 222  
*Tibicen pruinosa*, 107, 114, 178, 183, 209  
*Tibicen resh*, 106  
*Tibicen* sp., 177-80  
*Tibicen superba*, 136  
*Tibicen viridifascia*, 102, 107, 114, 137, 140, 143

*Tibicen vitripennis*, 178  
*Tibicina*, 136  
*Tibicina haematodes*, 33, 34, 136, 139, 142, 146, 192, 199, 200, 207, 218, 222  
*Tibicina septendecim*. See *Magicicada*  
*Tibicina tomentosa*, 155  
Tibicininae, 82, 85  
Tibicinini, 85  
*Tibicinoides hesperius*, 180  
TILLYARD, 49, 51, 80, 86, 87, 88, 92, 94, 114, 166  
Timbre, of cicada songs, 223  
*Tinnunculus cenchreis*, 178  
Toads, 173  
Tobacco dust against cicadas, 194  
τσίτσια, 7  
τσίτσικος, 7  
Torches, cicadas attracted by, 199  
*Torrubia caespitosa*, 152. See *Coreodyceps Sinclairii*  
Tortoises, 174  
*Tosena*, 134  
TOWER, 42  
Towers, emergence, 203  
TOWNSEND, 161, 192  
*Toxostoma rufum*, 180  
Toys, cicadas as, 186  
Toy sounding like cicada, 186  
Tracheation of wings, 89  
Tree-haunting cicadas, 137  
Tree-lizards, 174  
Trial and error, 108  
Triassic, 91, 94  
"Trichogrammid," 170  
Trochanters, 48  
*Trogodytes aedon*, 179  
TROP, 192  
Tropiduchidae, 86, 87  
Trost, 132  
Trout, 173  
*Tsuku-tsuku-boshi*, 32, 222  
TULASNE, 153  
Tune, sustained, 228  
Tymbal covers, 90  
Tymbal muscles, 62, 76  
Tymbals, 75  
Tympanum, 61, 66, 75  
Typhlocybidae, 66  
*Tyrannus tyrannus*, 179  
*Tyrannus verticalis*, 179  
*Tyroglyphus cocciphilus*, 172  
Tyrol, beliefs regarding cicadas, 33

*Ueana dahli*, 114, 179, 183, 184, 191, 196, 205  
UHLER, 83

Umbelliferae, 106  
Uncus, 54  
*Uniola paniculata*, 107, 140  
*Uropetala carovei*, 167, 169  
Urticaceae, 162

VALERIANUS, 42  
VALERIANUS, PIERUS, 17, 18  
VALMONT-BOMARE, 33  
Valves, 54, 57  
VAN DUZEE, 83, 141, 205, 219  
*Vanessa*, 162  
Vascular plants, and cicadas, 157  
Vas deferens, 69  
"Vegetable fly," 150  
Venation, 49  
VERHOEFF, 57  
*Veronica*, 135  
*Veronica salicifolia*, 105  
Vertex, 43  
Vesicula seminalis, 69  
*Vespa crabro*, 166, 171  
Vibrato, 223  
Vine, 138, 139, 192, 193; cicada of, 34  
*Vireo griseus*, 180  
*Vireosylva olivacea*, 180  
*Vireo vicinior*, 180  
VIRGIL, 16, 139  
Virus diseases, 193  
Visual sensations, 196 *seq.*  
Vocal lobes, 58  
VOGEL, 59, 61, 62, 139, 197, 200  
VON LINDEN, 51  
VON MURR, 22  
VOSSELER, 193  
VUILLEMIN, 153

WALEY, 113  
WALKER, F., 82  
Warning coloration, 42, 148  
Wasps, 165, 166, 171  
Waterproof covering for eggs, 106  
WEBSTER, F. M., 131, 145, 167, 175, 183  
WEBSTER, R. L., 106  
WEDDE, 42  
Weight, loss at ecdysis, 127  
*Wenmannia racemosa*, 158  
WEISS, 219, 222  
WESTWOOD, 103  
WEYENBERGH, 90  
Wheat, 108  
WHEELER, 85, 109, 195, 216  
"Whisky drinker," 39  
WHITE, A., 114  
WILCOX, 97, 99  
WILL, 59

WILLIAMS and BUXTON, 111  
 Willow, 137  
 Wing-clicking, 79  
 Wing-coupling apparatus, 51  
 Wings, 48  
*Wistaria*, 192  
 WITHEYCOMBE, 111  
 WOLCOTT, 197  
 WOLFF, 193  
 WOODWORTH, 49  
 WURTH, 193  
 XENARCHUS, 9  
*Xosopsaltria*, 135  
*Xysticus ferox*, 172

*Yanga brancsiki*, 166, 171  
 Yap, island of, 32  
 Yeast, 69  
 Yeasts, as symbionts, 155  
*Yen* principle, 23  
 γήραιον, 8  
 Yolk, 101  
*Yucca angustifolia*, 161

*Zamelodia melanocephala*, 182  
*Zammara*, 135  
*Zammara* sp., 197  
 ZANOTTI, 73, 114  
 Zuni Indians, folk tales, 35