

INDEX TO VOLUME 90

- 1-aminocyclopropane-1-carboxylic acid, 75
2,4-D, 67
A. nasatum Budde-Lund (Armadillidiidae), 133
abiotic, 71
 degradation, 67
 stress, 75
Abundance Index, 78
Acer rubrum, 56
Acer saccharum, 55
acidic herbicides, 67
acidic lakes, 61
Acquired Immune Deficiency Syndrome (AIDS), 160
Ada High School, OH, 102
Ada, OH, 102
Adams County, OH, 34, 106, 130, 157
Adams, J.L., 160
adenine nucleotides, 154
Aellopos fadus, 33
aerobic wastewater treatment plant manufacturers,
 Aquarobic Limited, Penetanguishene, Ont., CAN, 117
 Ashland Vault, Inc., Ashland, OH, 117
 Bi-A-Robi Systems, Inc., Hamlin, OH, 117
 Coate Burial Vault, Inc., W. Milton, OH, 117
 Cromaglass Corp., Williamsport, PA, 117
 Jet, Inc., Cleveland, OH, 117
 Multi-Flo Waste Treatment Systems, Inc., Dayton, OH, 117
aestivation, 44
affinis subgroup, 30
Africa, 160
Ailanthus, 1 sp. 34, 1 sp. 37
Airborne fungal spore population, 77
airborne fungal spore counts, 77
 qualitative, 77
 quantitative, 77
Akhtar, M., 71
Akron, OH, 113, 157
Atrachlor (2-chloro-2'-diethyl-N-(methoxymethyl) acetanilide), 125
Alectoria (= *Bryoria*), 130
Alfisols, 4
alkaline kettle-hole depression lake, 61
Alternaria spp., 77
Altonian age, 55
Amba, E.A., 4
American Cyanamid Company, 125
American Indian, 102
American Museum of Natural History, 33
Americup Building, 87
Amphipods, 109
analysis of variance (ANOVA), 13, 69
Anaptychia, 1 sp. 130
Andreas, B.K., 54
Andromeda glaucophylla, 60
Anglos, 102
Anodontinae, 7 sp. 169
anoxia, 13
Anthelmintics in the Cockroach, 152-155
anthelmintics, 152
Anzia, 1 sp. 130
Apatelodidae, 33
Appalachian basin, 108
Appalachian region, 11
appresoria formation, 75
aquatic gastropods, 168
 aquatic, 85
 Aquic Fragiudalf, 5
 arboreal, 85
 Arctiidae, 33
 argillic horizons, 10
 Armadillidium spp., 133
 Aronia prunifolia, 57
 arrow-arum, 61
 arthropods, 133
 artificial intelligence (AI), 171
 artificial selective pressures, 31
 ART®, 174
 Asclepias, 1 sp. 34, 2 sp. 35
 Ashland County, OH, 142
 Ashtabula County, OH, 34, 46, 98
 Asian, 102
 Aspergillus, 81
 aspiration, 16
 AT&T Bell Laboratories, 175
 Athens County, OH, 34, 130
 Athens, OH, 13, 37
 atomic absorption, 5
 ATP synthesis, 154
 Atrazine (2-chloro-4-(ethylamino)-6-(isopropylamino)-s-triazine), 125
 Auglaize County, OH, 34
 Augusta, OH, 143
 Aulacomnium palustre, 59
 auraria complex, 30
 Aureobasidium, 86
 backpack electrofisher, 146
 Baeomyces, 2 sp. 130
 Bainbridge Twp., OH, 168
 bakoue complex, 30
 barnyard grass, 13
 Barred owl, 128
 Barrett, G.W., 125
 Bartonia virginica, 59
 Basidiomycetes, 82
 basin-type bogs, 54
 Bass Island Group (Upper Silurian), 106
 Bayesian, 173
 beaver, 56
 bedrock, 55
 geology, 63
 lithology, 5
 beech maple, 55
 Bell, R.C., 106
 Bellefontaine, OH, 143
 Bellepoint member, 109
 Bellevue Quarry, OH, 108
 Bellevue, OH, 106
 benzimidazole, 154
 benzoic acid herbicides, 67
 Betula alleghaniensis, 54
 Betula spp., 37
 Beuerlein, J., 67
 Beuerlein, M., 67
 Bidens coronata, 57
 Bidens spp., 58
 Big Island Marsh, 88
 Big Pine Creek Twp., OH, 143
 Bigham, J.M., 4
 biochemical functions, 30
 bionomics, 38
 biotic, 71
 stress, 75
 Bipolaris maydis Race T, 71
 birches, 37
 birth control, 160
 bisexual, 160
 bivalves, 168
 black gum, 56
 black spruce, 60
 Blount soil, 118
 bluntnose minnows, 147
 BMDP Logistic Regression Analyses, 153
 bog forest, 57
 bog rosemary, 60
 Book Reviews
 A History of Immunology, 183
 AIDS: Sexual Behavior and Intravenous Drug Use, 182
 Animal Research and Ethical Conflict. An Analysis of the Scientific Literature 1966-1986, 91
 Antarctic Comrades: An American with the Russians in Antarctica, 139
 Brain Messengers and the Pituitary, 48
 Carnivore Behavior, Ecology, and Evolution, 136
 Cell Cycle Control in Eukaryotes, 92
 Down and Out in America: The Origins of Homelessness, 93
 FREE: The End of The Human Condition, 50
 From Quarks to the Cosmos: Tools of Discovery, 49
 High Temperature Superconductors, 183
 Legacy: The Natural History of Ontario, 181
 Mammals of the Neotropics, Vol 1, 184
 Mathematics and the Unexpected, 92
 Modulation of Defined Vertebrate Neural Circuits, 184
 Paleoethnobotany: A Handbook of Procedures, 137
 Science as a Process: An Evolutionary Account of the Social and Conceptual Development of Science, 135
 Silvoor Notes: Leaves from a Naturalist's Notebook, 181
 Structure across a Mesozoic ocean-continent suture zone in the northern Sierra Nevada, California, 90
 The Birds of Ohio, 180
 The Challenge of Global Warming, 138
 The Complete Guide to Environmental Careers: The CEIP Fund, 138
 The Evolution of Sex: An Examination of Current Ideas, 90
 Bowling Green State University, 16, 102, 156, 160
 Department of Geography, 156
 Department of Medical Technology, 160
 Population and Society Research Center, 161
 University Student Counseling Center, 161
 Bowling Green, OH, 16, 102, 156, 160
 Brevispirifer gregarius, 109
 Brinkmann polytron homogenizer, 72
 British Columbia, 36
 broadleaf weed control, 67
 Broadway moraine, 119
 brook stickleback, 147
 Brown Township, OH, 36
 Browns Lake Bog, 62
 "brush" wolves, 142
 Bryan, G.R., 54
 bryophytes, 55
 floras, 54
 species, 62
 Bryoria (*Alectoria*), 1 sp. 130
 Bubo virginianus, 128
 Buck's Lake, WI, 43
 Buckeye Lake, 41
 Buckingham, B.N., 87
 buffer-extractable, 72
 butterflies, 33
 buttonplant, 37
 Cadiz, OH, 143
 calcareous horizons, 7
 calcite, 5
 calcium carbonate, 7
 California, 102
 Calla palustris, 57
 Canada, 41, 54
 Canadian, 89
 lichens, 130
 life zone, 37
 waters, 41

- Candelaria*, 2 sp. 130
Canis latrans, 142
Canis lupus, 143
Canoparmelia (Parmelia), 3 sp. 131
 Captan®, 126
Carex atlantica, 58
Carex canescens, 57
Carex comosa, 59
Carex crinita, 57
Carex howei, 57
Carex spp., 59
Carex tenera, 57
Carex trisperma, 57
Carex-Dulichium meadow, 56
 Carlisle muck, 55
 Carlsbad Caverns, NM, 110
 Carnegie Museum of Natural History, 33
 Carr, T.W., 35
 Carriage Hill Reserve, 146
 Carroll County, OH, 143
 caryopses, 13
 Case, D.S., 46
 Castalia "Blue Hole," 106
 Castalia Quarry, OH, 108
 Castalia, OH, 87, 106
 Castalia-Bellevue area, OH, 108
Catalpa sp., 37
Catapyrenium (Dermatocarpon), 2 sp. 131
 Catostomidae, 9 sp. 148
 cattails, 41
 Cave Junction, OR, 30
 CD-ROMS®, 175
 Cedar Lake, WI, 43
 Cedar Point causeway, 88
 Cedar Point Marina, 87
Celtis occidentalis, 36
 Center for Disease Control (CDC), 160
 Centerville wastewater treatment plant, 147
 Centerville, OH, 147
 central stonerollers, 147
 Centrarchidae, 10 sp., 149
Cephalanthus occidentalis, 57
Cephalozia conniueus, 59
Ceratocystis fimbriata, 71
 Certainty Theory, 173
 certainty factor (CF), 174
 cestodes, 154
Cetraria, 1 sp. 131
Cetrelia (—), 1 sp. 131
 Chagrin Falls, OH, 168
 Chagrin River Unionidae, 168-170
 Chagrin River, 168
 Aurora branch, 168
 East branch, 168
Chamaedaphne calyculata, 54
Chamaedaphne, 60
 Chanwat, Thailand, 28
 Chardon Twp., OH, 168
 Chardon, OH, 143, 168
Chemical Abstracts, 174
 Chester Twp., OH, 168
 chi-square analysis, 126
 chi-square test for independence, 77
 Chili soils, 55
 Chinese tree-of-heaven, 37
 chlorsulfuron, 67
Chonetes sp., 109
 chroma matrix colors, 122
Cicuta bulbifera, 57
 Cincinnati, OH, 113
Circinella, 81
Cladina (Cladonia), 3 sp. 131
Cladonia (=Cladina), 130
Cladonia, 32 sp. 131
Cladopodiella fluitans, 59
Cladosporium spp., 77
 Clark County, OH, 34
 Clark, C.F., 41
 clay, 9
 eluviation-illuviation, 10
 films, 10
 mica, 9
 mica-vermiculite-smectite, 9
 mineralogy, 9
 bulges, 10
 Hoytville, 67
 pedogenic accumulations, 10
 Cleary, E.C., 87
 Clermont County, OH, 98
 Cleveland Museum of Natural History, The,
 36, 98, 142
 Cleveland, OH, 54, 98, 142, 157
 Clupeidae, 1 sp. 148
Coccocarpia, 1 sp. 131
Cochliobolus heterostrophus, 71
 cockroach, 152
Collema, 10 sp. 131
 colluvial slopes, 11
 colluvium, 4
 Columbus Formation, 106
 Columbus Zoo Exploration Center, 133
 Columbus, OH, 4, 33, 46, 67, 71, 112, 118,
 133, 142, 152, 168
 COMAX®, 177
 common carp, 147
 common grackle, 128
 common milkweed, 35
 Comparison of Academic Performance, 102-105
 compass, 77
 condoms, 161
 conductivity bridge, 72
 conductivity, 64
 Congress Run, OH, 133
 conidia, 72
 conidial morphology, 77
 consolidated mat zone, 57
 Constitution, OH, 13
 Cooley Canal, 42
Coptis trifolia, 58
 corn, 37, 67
 agroecosystems, 125
 germination, 67
 growth retardation, 67
 Lynx #4355, 125
 Pioneer 3377 hybrid, 68
 commeal medium, 16
 Coshocox County, OH, 130
 COUNTER® 15-G, 125
 coydogs, 142
 Coyotes in Ohio, 142-145
 coyotes, 142
 livestock damage claims, 144
 occurrences in Ohio, 143
 skull collection, 142
 sportsman encounters, 142
Crambidia pura, 33
 cranberry, 55
 large, 55
 small, 55
 Crane Creek Wildlife Experiment Station, 142
Crangonyx, 110
 crayfish, 43
 creek chubs, 43, 147
 Crites, J.L., 152
 CROPPRO®, 177
 Crosby silt loam, 67
Culaea inconstans, 147
Cunninghamella, 81
Cuscuta gronovii, 58
 Cuyahoga Community College, 54
 Cuyahoga County, OH, 34, 46, 168
 Cuyahoga River, 170
 cyanine dye, 154
Cyrcia inopinatus, 33
Cylindricus conexus (DeGeer) (Cylistidae), 133
 Cyperaceae, 64
 Cyprinidae, 15 sp., 148
 cytoplasm isolate, 71
 N, 71
 Tms, 71
Dacus carota, 127
 Dakotas, 41
 DART®, 177
 Dayton Museum of Natural History, 37
 Dayton, OH, 35
 Dayton-Montgomery County Park District
 Reserves, 146
 dBase III Plus®, 33
 deciduous trees, 79
Decodon verticillatus, 54
Decodon, 60
 deer mouse, 125
 Defiance County, OH, 143
 DeGraff, OH, 143
 Delaware Formation, 106
 Delhi member, 109
 DELT anomalies, 146
 DELTA®, 178
 DENDRAL®, 177
 depositional basin, 55
 depth functions, 9
Dermatocarpon, 2 sp. 131
 descending frequency-presence index, 60
 Detroit River Group (Devonian), 106
 dial caliper, 99
Dicranum polysetum, 62
 dietary antioxidants, 16
 diffractograms, 5
 Digital Equipment Corp. (DEC), 177
 digital planimeter, 146
 Dimilin, 39
Diodia teres, 37
Diospyros virginiana, 37
 DIPMETER®, 178
 direct method, 30
Dirinaria (—), 1 sp. 131
 Discriminant by SPSS, Inc. program, 99
 discriminant function analysis (DFA), 99
 Displayco Building, 87
 diurnal periodicity, 85
 Division of Wildlife, 41
 Dolbeer, R.A., 87
 dolomite, 5
 dormancy, 13
 Dover, OH, 36
Drechslera, 81
 Dresden, OH, 143
 DRILLING ADVISOR®, 178
Drosera intermedia, 59
Drosera rotundifolia, 58
Drosophila, 16
 melanogaster group, 49 sp. 17-20
 obscura group, 10 sp. 17
 willistoni group, 9 sp. 20
 drought, 67
 Dry Lick Run, 146
 dry combustion, 5
Dulichium arundinaceum, 57
 Dunkard Group, 5
 Durkin, J., 171
 East Harbor, OH, 41
 Eastern Com Belt Plains Ecoregion of Ohio, 146
 Eastern North America, 60
 ECESIS®, 178
Echinocloa, 3 sp. 13
 eclosed adults, 16
 ecotypic adaptation, 15
 Educational Consolidation Improvement
 Act of 1981, 103
 Effect of Soybean Herbicides on Corn, 67-70
 electrolyte leakage, 71
 elemental analysis, 8
 Elementary and Secondary Education Act of
 1966, 103

- Eleocharis olivacea*, 59
 Elf Aquitaine, 178
 eluvial horizons, 11
 Elyria, OH, 143, 157
 Endangered Moth, 33
 England, 89
 Englewood Reserve, 146
Enterobius vermicularis, 152
 Entisols, 4
 enzyme solution, 72
 EP-X®, 174
Ephebe, 1 sp. 131
Epicoccum, 81
 epistatic interactions, 16
 Erie basin, 55
 Erie County, OH, 142
Erigeron annuus, 127
 Ermine, 46
 erosion, 11
 Esocidae, 1 sp. 148
Esox lucius, 41
 ethanol, 72
 ethylene, 71
 ethylene-induced peroxidase activity, 75
 European, 54
 evapotranspiration, 120
 evergreen trees, 79
Evernia, 1 sp. 131
 Eversole member, 109
 Exotic Isopod Records for Ohio, 133-134
 Expert Systems in the Sciences, 171-179
 expert system structure, 172
 algorithm, 173
 backward chaining, 172
 forward chaining, 172
 heuristic reasoning, 173
 inference engine, 172
 knowledge base, 172
 predicate calculus, 172
 semantic networks, 172
 working memory, 172
 expert systems, 171
Fagus grandifolia, 55
 Fairborn wastewater treatment plant, 151
 Fairfield County, OH, 34
 Fairhaven, OH, 143
 Farmington, WV, 37
 fathead minnow, 147
 Fayette County, OH, 142
 fecundity, 16
felis domesticus, 128
 feral dogs, 142
 feral house cat, 128
 Fern Lake Bog, 54
 Fern Lake, 62
 fertility, 16
 Field Museum of Natural History, 33
 Findlay Arch, OH, 108
 fingernail clams, 168
 Firebaugh, G., 35
 fish communities, 146
 Fisher conductivity meter (Model 152), 56
 Fisher's Exact Test, 153
 flame emission spectrophotometry, 5
 Flat Rock Quarry, OH, 107
 Flat Rock, OH, 106
 Flatiron Lake Bog, 54
Flavoparmelia (Parmelia), 2 sp. 131
Flavopunctelia (Parmelia), 2 sp. 131
 Flenniken, D., 130
 floating mat, 56
 Florida, 35, 102, 133
 floristics, 54
 force of mortality, 30
 Fortune 1000, 171
 fragipan, 10
 Franklin County, OH, 34, 72, 157
 Franklin Twp., OH, 143
 Frequency-Presence Index (FPI), 54
 Fulton County, OH, 34
 fungal colonization, 72
 fungal flora, 85
 fungus, 72
 fur trappers, 142
Fusarium, 86
 Fuzzy Logic, 173
 G2®, 174
 GA1®, 177
 Gagen, K.P., 16
Galium tinctorium, 59
 Gallia County, OH, 130
 game protector survey, 142
 Garraway, M.O., 71
 gasometric procedure, 5
Gaultheria procumbens, 55
Gaylussacia baccata, 54
Gaylussacia, 61
 Geauga County, OH, 34, 54, 143, 168
 gene frequencies, 31
 genetically produced "ovaryless" flies, 31
 genital manipulation, 161
 manual, 164
 oral, 164
 Genoa, OH, 36
 Gensym Corp., 174
 Geology of Seneca Caverns, Ohio, 106-111
 Geomorphic processes, 4
 Georgia, 98
 germ tube development, 75
 Germantown Reserve, 146
 Germination and Growth of *Echinochloa*, 13-15
 gerontological research, 29
 Giant Silkworm Moths, 33
 Gilpin soils, 5
 glacial, 11
 border, 11
 boundary, 5, 54
 kettle-hole, 54
 outwash, 4
 till plain, 118
 Glaciated Allegheny Plateau, 54
 glaciation, 54
 Glandorf, OH, 143
 glaucous sedge, 61
 glucose, 154
 glucose-L-asparagine agar medium, 72
Gluphisia lintneri, 33
 glutaraldehyde, 77
Glyceria striata, 57
Glycine max L., 67
 glycophytic grasses, 14
 Glynwood soil, 118
 Godwin, H.W., 37
 golden redbird, 147
 Good's Cave, OH, 106
 Gordon, J.J., 102
 Gramineae, 127
Grammia, 2 sp. 33
 Grand River lobe, 55
 Grand River Wildlife Area, 46
 gray treefrogs, 98
 Great Britain, 134
 Great Lakes, 43, 87
 Great Miami River, 143, 146
 Great-horned owl, 128
 green sunfish, 147
 Greene County, OH, 34
 Greene County, PA, 37
 Greenfield Twp., OH, 143
 greenhouses, 134
Gromphadorbina portentosa, 152
 Ground Layer, 59
 grounded mat, 56
 Groundwater Technology, Inc., 106
 Grove City, OH, 130
 growth chamber, 13
 guaiacol, 72
 Guernsey County, OH, 34, 142
 Guertal, W.R., 118
 Gull Island, 89
 gypsum, 106
 Gypsy moth, 33
 control, 34
 habitat modification, 34
 habitat succession, 34
 hackberry, 34
 Haiti, 160
 Hall, G.F., 4, 118
 halophyte, 15
 Hamilton County, OH, 34, 100, 133
Hammerschmidtella diesingi, 152
 Hampton Creek, 59
 Hancock County, OH, 142
Haplophthalmus danicus Budde-Lund (Trichoniscidae), 133
 Hapludalf, 5
 Typic, 5
 Ultic, 5
 Hardin County, OH, 119, 130, 142
 hardwood trees, 60
 Harrison County, OH, 142
 Harrisville, OH, 5
 Haviland, C.S., 125
 Hawk Moth, 33
Heliophyllum halli, 109
Helminthosporium Drechslera, 86
Helminthosporium maydis, 71
 helminths, 152
 hemacytometer, 72
Hemaris, 1 sp. 33, 2 sp. 36, 1 sp. 38
Hemileuca, 1 sp. 33, 1 sp. 35
 Henry County, OH, 143
 Herbaceous Layer, 58
 herbaceous, 85
 plants, 34, 85
 vegetation, 88
 herbicide residues, 67
 herpetology, 99
 Herring Gulls on Sandusky Bay, 87-89
Heterodermia (Anaptychia), 9 sp. 131
 heterogenous lawns, 79
 heterosexual, 160
 high temperature stress, 75
 Highland County, OH, 34
 Hiltner, J., 156
 Hiram, OH, 54
 Hockett, C.T., 146
 Hocking County, OH, 34, 130, 143
 Hoggarth, M.A., 168
 hollow cathode lamp, 56
 hollow microtopography, 62
Holomelina nigricans, 33
 homosexual, 160
 Hooper, J.D., 37
Hordeum jubatum, 15
Hormodendrum (Cladosporium), 86
 horseradish peroxidase, 75
 host-specific pathotoxin, 75
 Houghton Lake, MI, 44
 Howe's Sedge, 61
 huckleberry, 60
 Huffman Reserve, 146
 Human Immunodeficiency Virus (HIV), 160
 humidity, 16
 Hummingbird Moth, 33
 hummock, 56
 hummock-hollow topography, 64
 Huron County, OH, 143
 hydroxy-Al interlayered minerals (HIM), 9
 hydroxy-Al-polymers, 9
 hygrometer, 77
Hyla chrysoscelis, 98
Hyla versicolor, 98

- Hypericum virginicum*, 57
Hyperphyscia (Physcia), 2 sp. 131
 hyphomycetes, 79
Hypogymnia, 1 sp. 131
Hypotrachyna (Parmelia), 2 sp. 131
Hypotrachyna, 130
 IBM (3081D mainframe computer), 99
 Ictaluridae, 4 sp. 149
Ilex verticillata, 57
 illite, 9
 imazaquin, 67
 imazethapyr, 67
 imidazolinone herbicide, 67
 immunocompromised, 77
Impatiens capensis, 59
Imsbaugia (Parmeliopsis), 2 sp. 131
 inbreeding depression, 31
 Inceptisols, 4
 incubator, 13
 Index of Biotic Integrity (IBI), 146
 Indiana, 36
 inexact reasoning, 173
 Inference Corp., 174
 insecticide stress, 125
 Institute for Microbial and Biochemical Technology, 71
 Intelligent Database Management Systems, 174
 intercourse, 160
 anal, 165
 interstitial space, 8
 intravenous (IV), 160
 ionically bound peroxidase activity, 72
 ionizing radiation, 16
 Iowa, 144
 Irish Ridge Road, 37
 iron oxides, 9
 iron, 67
 Irwin Prairie State Nature Preserve, 35
 isopods, 133
 isozyme variation studies, 30
 Jackson County, OH, 34, 130, 143
 Jackson Fen, 62
 Jamaica, 85
 Jefferson County, OH, 4
 Jerome Twp., OH, 143
Juncus canadensis, 57
Juncus effusus, 57
 Junior Science Fair Project, 67
Kalmia polifolia, 60
 kames, 55
 Kansas, 85
 kaolinite, 9, 67
 Keeney, G.D., 133
 Kelleys Island, OH, 143
 Kent Moraine, 55
 Kent State University, 54
 Herbarium, 55
 Tuscarawas Campus, 77
 Kent Till, 55
 Kent, OH, 54, 170
 Kenton weather station, 119
 Kenton, OH, 119
 kettle-hole bog, 54
 Kew Gardens, 134
 Kihn, G.E., 106
kikkawai complex, 30
 Killbuck River lobe, 55
 Kingsville, Ontario, CAN, 44
 Kirtland, J.P., 37
 Klamath (KL/KL) gene arrangement, 30
 Knox County, OH, 34, 142
 Koehn, L.C., 36
 Kruskal-Wallis (chi-square approximation) test, 17
 Lac Ste. Anne pike, 44
 lactophenol cotton blue, 77
 lacustrine deposits, 4
 lagg, 56
 LaGrange County, IN, 37
 Lake County, OH, 46, 168
 Lake Erie Pike Movements, 41-45
 Lake Erie, 41, 87, 106, 168
 Lake Huron, 89
 Lake Michigan, 89
 Lake Oahe, ND, 43
 Lake Oahe, SD, 43
 Lake Ontario, 89
 Lake Superior, 41, 89
 Lampsilinae, 2 sp. 169
 landscape instability, 11
 landscape stability, 11
Lapara bombycoides, 33
Larix laricina, 36, 54
Larix, 56
Larus argentatus, 87
Larus delawarensis, 87
 larval crowding, 16
Lasallia, 2 sp. 131
 Lasiocampidae, 33
 Late Wisconsin-age, 11
 late Wisconsinan glaciation, 55
 Lavery tills, 55
 Lawrence County, OH, 34
 Lay Brother's Fishery, 41
 LDH electrophoresis, 98
 leachates, 71
 least significant difference (LSD) test, 13
 Leeds and Northrup Co., 72
Leersia oryzoides, 57
Leidyema portentosae, 152
Leiorhynchus sp., 109
Lemna minor, 59
 Lepidoptera, 33
Leptogium, 10 sp. 131
 lesion development, 75
 lessivage, 10
Leucobryum glaucum, 59
 lichenologists, 130
Lichens of Ohio, 130
 lichens, 34
 Licking County, OH, 130
 life table method, 30
 light density, 16
Ligidium spp. (Ligiidae), 133
 lilac, 34
 linear discriminant analysis, 142
 lithologic discontinuities, 5
 Little Cedar Bog, 61
 Little Cedar Point Marsh, 42
 Little Miami River, 146
 Little Rock, AR, 103
 liverworts, 55
Lobaria, 2 sp. 131
 loess, 4
 Logan County, OH, 142
 Long Ridge Road, 37
 long-tailed weasel, 46
 Longevity of *Drosophila* Species, 16-32
 Lorain County, OH, 143
 Lorain, OH, 157
 lotic habitats, 146
 lotic systems, 146
 Lou Campbell State Nature Preserve, 35
 Loux, M., 67
 low shrub zone, 56
 Lower Lake Dock Company, 87
 Lucas County, OH, 33, 43, 143
 Lucas Formation, 106
 Lucas, V.P., 33
Ludwigia alternifolia, 59
Ludwigia palustris, 59
Lycopus uniflorus, 62
Lycopus virginicus, 57
Lymantria dispar, 33
 Lymantriidae, 33
 Lynx Prairie, 35
Lysimachia terrestris, 57
 macroenvironment, 82
Macroglossa balteata, 37
 macrolichens, 130
 Mad River, 146
 Madison County, OH, 143
 Madison, WI, 71
 Magee Marsh, 41
 Mahalanobis methods, 99
 Mahoning County, OH, 34
 Mahoning River, 170
 West Branch, 170
Maianthemum canadense, 58
 Maine, 54
 maize inbred W64A, 71
 maize, 71
 malagasy cockroach, 152
 Mammoth Cave, KY, 110
 Mancl, K., 112
 mandible tags, 41
Manettia sp., 37
 Mann-Whitney U tests, 126
 Mantua Twp., OH, 168
 Mantua, OH, 168
 Manufacturing Formation Rates, 156-159
 Marblehead member, 109
 marginal fen, 56
 marginal moat, 55
 Marion County, OH, 34, 143
 Marion County, WV, 37
 Marion, OH, 143
 marsh fern, 61
 marsh St. John's-wort, 61
 Massachusetts, 60, 89
 masturbation, 163
 Mather, CA, 28
 mating status, 17
 Matson, T. O., 98
 Maumee River, 42, 143
 Maumee State Forest, 35
 McDonald, K.P., 46
 mean longevity, 17
 mebendazole, 152
Medeola virginiana, 59
 Meigs County, OH, 130, 157
Melanelia (Parmelia), 3 sp. 131
melanogaster subgroup, 29
 Melbourne, FL, 106
 membrane permeability, 71
Menegazzia, 1 sp. 131
 Mercer County, OH, 142
 methionine, 75
 Metropolitan Statistical Area (MSA), 156
 Metzler, E.H., 33
 Mexican, 102
 Mexican-Americans, 102
 Miami University, 125
 Ecology Research Center, 125
 Miami University-Middletown, 146
 Department of Zoology, 146
 Michigan basin, 108
 Michigan trout streams, 41
 Michigan, 35, 41, 54, 98, 102
 microedaphic conditions, 15
 microenvironment, 77
 microhabitats, 64
 microtubules, 154
 Middle Devonian, 106
 Middle Devonian-Silurian, 106
 Middletown, OH, 146
 Migrant Student Record Transfer System, 103
 migrant children, 102
 academic achievement, 102
 academic comparison, 102
 academic performance, 102
 academic problems, 102
 mobile, 102
 settled-out, 102

- migrant laborer, 102
Miktoniscus medcofi, 134
Miktoniscus ohioensis Muchmore (Trichoniscidae), 133
 Milk-Bone dog biscuits, 152
 minerotrophic peatlands, 61
 Minnesota, 54
 Mississippi, 98
 Missouri River, 44
Mitchella repens, 55
 molds, 77
 molluscan fauna, 168
 monel metal round tags, 41
 Monongahela Formation, 5
 Monroe County, OH, 130
 Monroe Twp., OH, 143
 Montgomery County Stream Fishes, 146-151
 Montgomery County, OH, 34, 143, 147
montium subgroup, 29
 Morgan County, OH, 34, 130
 Morley soil, 118
 morphological functions, 30
 morphometric, 98
 Mosquito Creek Reservoir, OH, 143
 Mosquito Creek Wildlife Area, 46
 mosses, 55
 Moths of Special Concern in Ohio, 33-40
 moths, 33
 Mount Pleasant Township, OH, 5
 mountain-holly, 60
 mouse, 46
 Mt. Gilead High School, 67
 Mt. Gilead, OH, 67
 Multi-flo aerobic system, 114
 multicellular eukaryotic organism, 29
 Mundahl, N.D., 146
 Munsell color chroma, 118
 Munson Twp., OH, 168
Muscrospirifer mucronatus, 109
 Muskingum County, OH, 143
 Muskingum River, 143
 mussel, 168
Mustela, 4 sp. 46
 mycelia sterilia, 80
 bright-colored, 77, 81
 dark-colored, 81
 hyaline mycelia sterilia, 81
 subhyaline mycelia sterilia, 81
 mycelial dry weight, 72
 MYCIN®, 174
 mycological physiology, 85
Myelochroa (Parmelia), 3 sp. 131
Mylia anomala, 59
Myrophyllum spp., 41
Najas minor, 44
 NASA, 174
 National Band and Tag Company, 42
 National Child Labor Committee, The, 103
 National *Drosophila* Species Resource Center, 16
 National Research Council, 161
 natural populations, 31
 Nature Conservancy, 38
 NAVEX®, 174
 Nebraska, 36
 necrotroph, 75
 Nematoda: Oxyuroidea, 152
 nematode parasites, 153
Nemopantbus mucronatus, 54
Nemopantbus, 61
Nephroma, 1 sp. 131
 New Brunswick, CAN, 36
 New England, 36
 New Hampshire, 54
 New Jersey Pine Barrens, 37
 New Jersey, 54, 98
 New Philadelphia, OH, 77
 New York, 54, 98
 New Zealand, 47
 Newbury Twp., OH, 168
nikananu complex, 30
 nitrogen deficiency, 57
 nonhalophytes, 15
 nonsaline location, 14
 North America, 41, 54
 North American lichens, 130
 North Carolina State University, 118
 North Carolina, 98
 Northern pike, 41
 northern highbush blueberry, 56
 Norway strain, 30
 Norweco aerobic system, 114
Notodontia simplaria, 33
 Notodontidae, 33
 Nova Scotia, 36
 Nussbaum, F., 77
 nutrients, 71
 nutrition, 16
Nyssa sylvatica, 54
Nyssa, 59
 Oak Harbor, OH, 142
 Oak Openings, 34
 oaks, 55
 ocular micrometer, 98
 Ohio Administrative Code, 112
 Ohio Agricultural Research and Development Center, 4, 71
 Research-Extension Analytical Laboratory, 68
 Ohio Board of Health, 112
 Ohio Cooperative Soil Survey program, 4
 Ohio Department of Natural Resources (ODNR), 39, 87, 107, 146, 168
 Division of Forestry, 39
 Division of Natural Areas and Preserves, 39, 168
 Division of Soil and Water Conservation, 4
 Division of Wildlife, 33, 46
 Soils Division, 107
 Ohio Division of Wildlife, 142
 Ohio Environmental Protection Agency (EPA), 112, 146
 Ohio flora, 60
 Ohio Gray Treefrog Morphometrics, 98-101
Ohio Industrial Directory, 156
 Ohio Land Use/Cover Classification System, 39
 Ohio Lepidopterists, 33
 Ohio Lichens, 130-132
 Ohio River, 37, 106, 123
 Ohio State Extension Service, 113
 Ohio State University, The, 4, 36, 67, 71, 112, 118, 133, 152
 Department of Zoology, 152
 Teaching Collection, 143
 Insect Culturing Laboratory, 152
 Museum of Zoology, 46, 142, 168
 Ohio Cooperative Fish and Wildlife Research Unit, 46
 Ohio University Collection, 37
 Ohio University, 13
 Ohio, 4, 14, 33, 41, 46, 54, 67, 77, 87, 98, 102, 106, 112, 130, 142, 146, 152, 156, 160, 168
 "Old Mist'ry River," 106
 Oldham aerobic system, 114
 ombrogenous, 64
 ombrotrophic, 62
 Omnidata International Easy Logger, 107
 Oniscioidea, 133
 Ontario, CAN, 89
 Opossum Creek, 146
 opportunistic mycoses, 77
 oral sex, 161
 Orange County, NY, 61
 organic carbon content, 8
 Orion 200 field pH meter, 56
Osmunda cinnamomea, 57
 Ottawa County, OH, 34
 Ottawa River, 43
Ouisculus quiscula, 128
 outwash plains, 55
 Oxford, OH, 125
 oxidoreductase, 72
 oxygen tension, 16
 Pakistan, 13
 paleontology, 106
 paleosols, 4
Pallavicinia lyellii, 59
Pannaria, 4 sp. 131
 Paper and Allied Products, 159
Papularia, 86
 parasites, 153
 parasitic dodder, 61
 parasitic nematodes, 154
Paraspirifer acuminatus, 109
 Parkertown Quarry, OH, 108
Parmelia, 3 sp. 131
Parmelinopsis (Parmelia), 2 sp. 131
Parmotrema (Parmelia), 14 sp. 131, 132
 particle size distribution, 10
 partridge-berry, 55
 pathogen, 71
 pathotoxin, 72
 PEACE®, 177
 Pearl's "rate of living" hypothesis, 31
 peatlands, 54
 pedogenesis, 9
 Pedogenic processes, 4
 Pelee Island, 44
Peltandra virginica, 58
Peltigera, 8 sp. 132
Penicillium, 81
 Pennsylvania, 11, 37, 47, 144
 Pennsylvanian-age sandstones, 55
Pentas, 1 sp. 34, 1 sp. 37
 perch, 43
 Percichthyidae, 1 sp. 149
 Percidae, 10 sp., 149
 percolation test, 114
 periglacial
 activities, 11
 environment boundary, 11
 erosion, 11
 features, 11
 times, 11
 Perkin-Elmer (2280 atomic absorption spectrophotometer), 56
Peromyscus maniculatus bairdii, 125
Peromyscus maniculatus, 125
Peromyscus, 46
 peroxidase activity, 71
 Perturbation Effects on Deer Mice, 125-129
 pesticide application, 33
 petri dishes, 13
 Pewamo soil, 119
Phaeophyscia (Physcia), 11 sp. 132
 phanerogam, 54
 phenoloxidizing enzymes, 75
 Philadelphia, PA, 37, 72
 Phillipsburg, NJ, 71
Phoma, 86
 photodecomposition, 67
 photoperiod, 16
Physcia, 9 sp. 132
Physciella (—), 1 sp. 132
Physconia (Physcia), 2 sp. 132
 physiological functions, 30
Picea mariana, 60
 Pickaway County, OH, 142
 piezometers, 118
 Pigeon River, MI, 41
Pimephales promelas, 147
Pinus, 1 sp. 34, 5 sp. 36

- pinworm, 152
 Piper Cherokee C airplane, 87
 pitcher-plant, 61
 Pittsburgh, PA, 38
 Plain City, OH, 143
 PLANT®, 177
Platismatia (Cetraria), 1 sp. 132
 Pleistocene advances, 55
Poa pratensis, 15
 Poland, OH, 37
 pollution on lichens, 34
 polygenic control, 16
Polygonum arifolium, 57
Polygonum hydropiperoides, 57
 polypeptides, 16
Polytrichum commune, 62
 Popovich, M., 38
 population density, 16
Populus, 34
Porcellio scaber Latreille (Porcellionidae), 133
 Portage County, OH, 54, 143, 168
 Porter, J.W., 35
 Possum Creek Reserve, 146
Potamogeton, 2 sp. 44
Potentilla norvegica, 127
 Povani®, 152
 Powell, OH, 133
 Powelson Wildlife Area, OH, 143
 "prairie" wolves, 142
 prairie, 143
 pre-Wisconsinan, 54
 Preble County, OH, 98, 142
 Price, H., 36
 Primary Metals, 159
 Princeton, NJ, 125
 Processes Operative in Soils, 4-12
Prosopis farcta, 15
 PROSPECTOR®, 174
Prunus spp., 36
Pseudevernia (—), 1 sp. 132
Pseudocyphellaria, 1 sp. 132
 pseudomycelial yeasts, 81
Puccinia graminis f. sp. *tritici*, 71
 Puerto Rican, 102
Pullularia (Aureobasidium), 86
Punctelia (Parmelia), 5 sp. 132
 Pursuit®, 67
 Putnam County, OH, 130, 143
 PVC pipe, 120
 pycnidial molds, 81
Pycnothelia, 1 sp. 132
 Pymatuning State Park, 46
 pyrrinium pamoate, 152
Pyxine, 2 sp. 132
 quarries, 107
 quartz, 9
Quercus spp., 35, 59
 Quesnel, CAN, 28
 radio frequency transmitters, 43
 radiocarbon dating, 55
 Rahman, M., 13
 rainfall, 77
 Raleigh, NC, 118
Ramalina, 8 sp. 132
 Ravenna, OH, 143
 Red Lake Peatland, 64
 Red Lake, 55
 red maple, 56
 regression analysis, 69
 relative humidity, 16, 77
 Remote Sensing Program, 39
 respiratory allergic reactions, 77
 Resthaven Wildlife Area, 87
 REX®, 175
Rhamnus frangula, 57
Rhus vernix, 57
Rhynchospira alba, 58
 ring-billed gulls, 87
 riprap, 88
 Rosaceae, 34
 Ross County, OH, 34, 142
 round-leaved sundew, 61
 Rubiaceae sp., 37
 Rubiaceae, 34
Rubus hispidus var. *obovalis*, 57
 Ruedisili, L. C., 106
Rumex crispus, 15
 Rusha Creek, 42
 Russell Twp., OH, 168
 rust fungi, 82
Sagittaria latifolia, 57
 Salesville, OH, 143
 salinity levels, 13
Salix, 1 sp. 34, 1 sp. 35, 1 sp. 37
 salt tolerance, 15
 salt-extractable, 72
Samia cynthia, 33
 sandhill milkweed, 35
 sandstone quarry, 62
 sandstone, 4
 Sandusky Bay, 42, 87
 Sandusky County, OH, 34
 Sandusky, OH, 87
 Sardis, OH, 37
Sarracenia purpurea, 61
 SATPRO®, 179
 Saturniidae, 33
 scarification, 13
 Scepter®, 67
Schizophoria propinqua, 109
 Scioto County, OH, 34, 123, 130
 Scioto River, 143
Scirpus cyperinus, 57
 Seaman, T.W., 87
 sedges, 61
 seed germination, 13
 seedling growth, 13, 67
 semi-ombrotrophic, 64
 Seneca Caverns, 106
 Seneca County, OH, 34, 106
 septic systems, 112
 aerobic, 112
 gravelless, 112
 mound, 112
 sand filter, 112
 septic tank, 112
serrata complex, 30
 Sewage Treatment Survey, 112-117
 sex education, 161
 Sex, College Freshmen, and AIDS, 160-167
 sexual behavior, 161
 Shannon diversity, 150
 Shannon *H_{max}*, 150
 Shelby County, OH, 142
 Sheldon Marsh, 88
 Sherman live traps, 46, 126
 Shieldcastle, M.C., 142
 short-tailed weasel, 46
 Showman, R. E., 130
 Shrub Layer, 58
 Shuey, J.A., 36
 sideslope colluvial deposits, 11
 Silica Sand Quarry Bog, 62
 silty colluvium, 4
 Simpson diversity, 150
 Simpson dominance, 150
 Smeck, N.E., 4
 smectite, 9
Smerintbus cerisyi, 33
 Smidth Cement Kiln Controller, 178
 Smith, B.W., 156
 smut fungi, 82
 Smyrna, OH, 143
 snout-vent length (SVL), 98
 Sodium Bisulfite and Maize Peroxidase, 71-76
 sodium bisulfite, 71
 sodium bisulfite-enhanced peroxidase activity, 74
 sodium hexametaphosphate, 5
 sodium phosphate buffer, 72
 Soil Conservation Service, 61, 122
 Soil Interpretation Record, 122
 Soil Survey Manual, 119
 Soil Taxonomy, 5, 118
 Soil Water Table Levels, 118-124
 soil, 11
 formation, 11
 morphology, 118
 permeability, 119
 water color, 118
 water table levels, 118
Solidago canadensis, 127
 solifluction, 4, 11
 soluble peroxidase activity, 72
Sorghum bicolor, 15
 sound spectrographic analysis, 98
 South America, 134
 South Bass Island, OH, 106
 South Carolina, 98
 soybean, 67
 species-area curve, 55
Spermacoce, 1 sp. 34, 1 sp. 37
 spermicide, 165
 SPEX®, 177
Sphagnum Dominated Bogs in Ohio, 54-66
Sphagnum, 54
 capillifolium, 59
 fimbriatum, 59
 magellanicum, 59
 mat, 54
 palustre, 59
 papillosum, 59
 recurvum (sensu lato), 54
 recurvum, 59
 Sphingidae, 33
Sphinx, 2 sp. 33
Spiraea alba, 57
 "Spirifer" *duodenarius*, 109
 "Spirifer" *macrothyris* faunule, 109
 sporulation, 71
 St. Marys Fish Farm, 41
 St. Marys River, 143
 standard food vials, 16
 Stanford Research Institute, 178
 Stanford University, 177
 starclusters, 37
 Stark County, OH, 62
 Statistical Analysis System (SAS), 17
 Stehr, W.C., 37
Stereocaulon, 2 sp. 132
 sterile mycelia, 86
 sterilized flies, 31
Sticta, 1 sp. 132
 Stillwater River, 146
 stonelines, 4
 stratification + light treatments, 13
 stratigraphy, 106
 Straub, M., 102
 stream fishes, 146
 stream terraces, 55
Strix varia, 128
Strophitus undulatus undulatus, 170
 Student's *t*-test, 99, 126
 Student-Newman-Keuls (multiple range) statistical test, 17
 Sugar Creek, 146
 Sugarcreek Reserve, 146
 Summit County, OH, 34, 157
 surfactant, 72
suzukii subgroup, 29
 swamp loosestrife, 55
 swamp thicket-tall shrub zones, 55
 swamps, 59

- Swan Creek, 43
 sweet potato, 71
Symplocarpus foetidus, 58
Syringa vulgaris, 36
 S[®], 175
 tall shrub zone, 56
 Tallant, W.N., 36
 tamarack bogs, 54
 tamarack, 57
 Tamazunchale, San Luis Potosi, Mexico, 28
 Taylor, D. H., 125
 Taylorsville Reserve, 146
 Teknowledge, 178
Teloschistes, 1 sp. 132
 telson, 133
 Tempe, AZ, 41
 Tennessee, 36
Tentaculites scalariformis, 109
 terrestrial isopods, 133
Tetrapihis pellucida, 59
 tetraploid, 98
 Texas, 98, 102
 "The Earthquake Crack," 106
 thelastomatid nematodes, 152
Thelypteris palustris, 57
 thermocline, 43
 thermocouples, 120
 Thompson Township, OH, 106
 Thornthwaite method, 120
 Three Mile Island, 174
 three-seeded sedge, 61
 Tiger Moth, 33
 Till Plains of the Central Lowlands, 106
 Titusville ice sheet, 55
 Toledo Area Metropolitan Park District, 35
 Toledo Zoo Aquarium, 43
 Toledo, OH, 89, 106, 113
 topographic maps, 146
 Tori, G.M., 142
 Toussaint Creek, 4
Trachelipus rathkei (Brandt) (Porcellionidae), 133
 Transition life zone, 37
 Tree Layer, 58
 treed bog zone, 56
tremuloides, 34
 Triangle Lake Bog, 54
Trichoniscus pusillus Brandt (Trichoniscidae), 133
Trichorbina tomentosa (Budde-Lund) (Squamiferidae), 133
Triticum aestivum, 15
 troglobitic crustaceans, 109
 trophic composition, 151
 trout, 41
 brook, 41
 brown, 41
 rainbow, 41
 truck-mounted hydraulic probe, 5
 Trumbull County, OH, 46, 143
Tuckermannopsis (*Cetraria*), 6 sp. 132
 Tulsa, OK, 86
 Turbufos: S-[(1,1 dimethylethyl) thio] methyl] 0.0-diethyl phosphorodithioate, 125
 Turning Point Island, 87
 Tuscarawas County, OH, 34
 Tuscarawas River, 143
 Tuscarawas Valley, 77
 Tussock Caterpillar, 33
 Tween-20, 72
 Twin Creek, 146
 Tygon tubing, 120
Typha latifolia, 57
Typha spp., 41
 Typic Hapludults, 5
 U.S. lichens, 130
 U.S. Department of Agriculture Research Services, 177
 U.S. Department of Health and Human Services National Health Interview Survey, 161
 Ultisols, 4
 ultrasonic transmitters, 43
 ultraviolet radiation, 16
Umbilicaria, 3 sp. 132
 Ungar, I.A., 13
 Unglaciaded region, 4
 Union County, OH, 143
 unionid fauna, 168
 unionid molluscs, 168
 Unionidae, 168
 Uniontown Shale Member, 5
 United Kingdom, 158
 United States Department of Agriculture Animal Damage Control, 87
 Denver Wildlife Research Center, 87
 Forest Service, 71
 Soil Conservation Service, 4, 57
 United States Geological Survey (U.S.G.S.), 5, 110
 United States National Museum, 33
 United States, 34, 77, 88, 102, 125, 142, 165
 University of Akron, The, 171
 Department of Electrical Engineering, 171
 University of California, 161
 University of Chicago, 106
 University of Cincinnati Herbarium, 55
 University of Toledo, 106
 Upper Silurian, 106
 uropods, 133
Usnea, 6 sp. 132
Utricularia minor, 58
Utricularia vulgaris, 58
Vaccinium corymbosum, 54
Vaccinium macrocarpon, 55
Vaccinium oxycoccus, 55
Vaccinium, 1 sp. 34, 2 sp. 36
 Variation in Fungal Spore Populations, 77-86
 vascular plants, 55
 VAX[®], 177
Venezillo evergladensis Schultz (Armadillidae), 133
 vermiculite, 9
 Vermont, 54
 Vermox[®], 152
Verticillium, 81
 Viable spores, 78
Viburnum recognitum, 57
 Vinton County, OH, 34, 130, 157
Viola spp., 59
 Virginia chain fern, 61
 VM[®], 178
 Vollmar's Park, 44
 Walhonding River, 142
 Warren County, OH, 34, 157
 Washington County, OH, 130
 Washington Formation, 5
 Washington Twp., OH, 143
 Washington, D.C., 86
 water
 chemistry, 54
 horehound, 61
 quality, 146
 table, 64, 118
 water-vapor saturated incubator, 72
 waterbirds, 88
 Wayne County, OH, 34, 62
 Waynesburg No. 11 Coal blossom, 5
 Waynesburg No. 11 Coal Underclay, 8
 Waynesburg Sandstone Member, 5
 weathering phenomena, 9
 Weeks, J.L., 142
 wet-cold stratification, 13
 Whatman No. 2 filter paper, 13
 Whatman No. 3 filter paper, 71
 wheat rust, 75
 wheat, 71
 Wheatley, Ontario, 42
 white beak-rush, 61
 white suckers, 43, 147
 white weasel, 46
 Whitney (WT/WT) gene arrangement, 30
 Wild T1A theodolite, 107
 wild calla, 61
 wild canid encounters, 142
 wild canid skulls, 142
 wildlife management personnel, 142
willistoni subgroup, 29
 willow, 37
 winterberry, 61
 wintergreen, 55
 Wisconsin, 36, 41, 54, 98
 Wisconsinan glacial epoch, 4
 Wisconsinan loess, 5
 Wisconsinan till-plain, 119
 Wisconsinan time, 11
 wolves, 143
 Wood County, OH, 142
Woodwardia virginica, 57
 Woolly Bear Caterpillar, 33
 Wooster, OH, 4, 68, 130
 Wormsbacher, H., 36
 Woronecki, P.P., 87
 Wright, D.J., 35
 Wyandot County, OH, 130
 x-ray diffraction, 5
 x-ray fluorescence, 5
Xanthoparmelia (*Parmelia*), 6 sp. 132
Xanthoparmelia, 130
Xanthoria, 3 sp. 132
 XCON[®], 177
Xylophanes tersa, 33
Xyris difformis, 59
 yeast-malt-agar (YMA) medium, 77
 yellow birch, 56
 YES[®], 177
 Yoon, J.S., 16
 Yu, X., 152
 Zaleski State Forest, 37
Zaphrentis corniculum, 109
Zea mays, 37, 67, 125
 Zhu, D.L., 16
 zone of equilibrium, 56