

## **ESRM 301, Maintaining Nature in an Urban and Urbanizing World**

### **Natural History Reports**

You will do a natural history profile of one plant and one animal. Following this is a list of organisms which may be found in the urban environment. If you have a favorite that you do not see here, talk to us about it. Each organism will be profiled by only one student, so sign up early if you have a favorite!

You will turn in a one-two page profile (format below) of each organism. You will also be prepared to talk about them to the class on Feb. 8 or Feb. 15, using **NO MORE** than three powerpoint slides, which will be due the Tuesday before your presentation.

Each one-page profile will follow this format\*:

Your name

Date

Type of organism (insect, fish, etc.)

Species name (scientific)

Common name

Brief description of the organism, plus relevant life history

Native geography (part of world and type of habitat)

If non-native, how introduced to the urban environment and when\*

How successful in the urban environment, from “thrives” to “barely persists.” In which urban environment occurs, how and why it survives or thrives.

Does it invade any natural environments and how severe are those environments?

Significance to humans (both positive and negative)

Is management needed? How is it done? Is this adequate?

Related native species (esp. difference species in the same genus). How do they compare with the species you are studying? For instance, is one common in urban areas and others not?

Miscellaneous notes, if any. This includes any interesting tidbits you discover about the species.

Bibliographic references, numbered 1, 2, 3, 4, etc. Each piece of information above should have numbered references afterwards. For instance, Introduced for ornamental landscape use (1,4). The references should be keyed into a list at the end of the report.

**\*If some of this information is not relevant to your organism you can just omit that section**

## LIST OF ORGANISMS FOR PROFILES

### Fungi

*Boletus chrysenteron* - Yellow-fleshed boletus  
*Agaricus augustus* - The Prince  
*Marasmius oreades* - Fairy-ring mushroom  
*Macrolepiota rachodes* - Shaggy lepiota  
*Scleroderma citrinum* - Thick-skinned puffball

### Mosses and liverworts

*Dicranoweisia cirrata* - Curly thatch moss  
*Funaria hygrometrica* - Cord moss  
*Rhytidiadelphus squarrosus* - Bent-leaf moss  
*Tortula ruralis* - Sidewalk moss (spelled *muralis* in Kozloff)

### Horsetails and ferns

*Equisetum arvense* - Common horsetail  
*Athyrium filix-femina* - Lady fern  
*Polypodium vulgare* - Licorice fern (often as *P. glycyrrhiza*)  
*Polystichum munitum* - Sword fern  
*Pteridium aquilinum* - Bracken fern

### Wildflowers and weeds

*Cichorium intybus* - Chicory  
*Convolvulus sepium* - Hedge bindweed  
*Daucus carota* - Queen Anne's lace  
*Geranium robertianum* - Herb-robert  
*Hypericum perforatum* - Klamath weed  
*Plantago major* - Common plantain  
*Polygonum cuspidatum* - Japanese knotweed  
*Prunella vulgaris* - Self-heal  
*Solanum dulcamara* - European bittersweet  
*Solidago canadensis* - Canada goldenrod  
*Stellaria media* - Chickweed  
*Taraxacum officinale* - Dandelion  
*Trifolium repens* - Clover  
*Trillium ovatum* - Western trillium

### Wetland and aquatic plants

*Lysichiton americanum* - Skunk-cabbage  
*Lythrum salicaria* - Purple loosestrife  
*Myriophyllum spicatum* - Eurasian water-milfoil  
*Phalaris arundinacea* - Reed canary-grass  
*Typha latifolia* - Cattail

### Grasses and rushes

*Agropyron repens* - Quackgrass  
*Agrostis capillaris* (= *A. tenuis*) - Colonial bentgrass  
*Digitaria sanguinalis* - Crabgrass  
*Poa annua* - Annual bluegrass  
*Juncus effusus* - Common rush

### **Shrubs (and groundcovers)**

*Cornus stolonifera* (= *C. sericea*) - Red-osier dogwood  
*Corylus cornuta* - Hazelnut  
*Cytisus scoparius* - Scot's broom  
*Daphne laureola*  
*Gaultheria shallon* - Salal  
*Hedera helix* - English ivy  
*Ilex aquifolium* - English holly  
*Ribes sanguineum* - Red-flowering currant  
*Rubus discolor* (= *R. procerus*) - Himalayan blackberry  
*Salix scouleriana* - Scouler's willow  
*Sambucus racemosa* - Red elderberry  
*Vinca minor* - Dwarf periwinkle

### **Trees**

*Acer circinatum* - Vine maple  
*Acer macrophyllum* - Bigleaf maple  
*Acer palmatum* - Japanese maple  
*Acer rubrum* - Red maple  
*Alnus rubra* (= *A. oregona*) - Red alder  
*Arbutus menziesii* - Pacific madrone  
*Populus balsamifera* subsp. *trichocarpa* (= *P. trichocarpa*) - Black cottonwood  
*Pseudotsuga menziesii* - Douglas-fir  
*Robinia pseudoacacia* - black locust  
*Tsuga heterophylla* - Western hemlock

### **Invertebrates**

*Armadillidium vulgare* - Pillbug  
*Scutigera immaculata* - Garden centipede  
*Forficula auricularia* - European earwig  
*Blattella germanica* - German cockroach  
*Periplaneta americana* - American cockroach  
*Apis mellifera* - Honey bee  
*Musca domestica* - House fly  
*Malacosoma californicum pluviale* (= *M. pluviale*) - Tent caterpillar moth  
*Porthetria dispar* - Gypsy moth  
*Lumbricus terrestris* - Nightcrawler  
*Arion ater* - Black slug

### **Fishes**

*Cyprinus carpio* - Carp  
*Micropterus salmoides* - Largemouth bass  
*Oncorhynchus nerka* - Sockeye salmon  
*Salmo gairdneri* (= *Oncorhynchus mykiss*) - Rainbow trout/Steelhead

### **Amphibians and Reptiles**

*Ensatina eschscholtzii oregonensis* - Oregon salamander  
*Plethodon vehiculum* - Red-backed salamander  
*Ambystoma macrodactylum* - Western long-tailed salamander  
*Hyla regilla* - Pacific tree frog  
*Thamnophis ordinoides* - Northwestern garter snake

### **Birds**

*Branta canadensis* - Canada goose  
*Anas platyrhynchos* - Mallard

*Charadrius vociferus* - Killdeer  
*Larus glaucescens* - Glaucous-winged gull  
*Columba livia* - Rock dove/Pigeon  
*Colaptes auratus* - Common flicker  
*Corvus brachyrhynchos* - Crow  
*Turdus migratorius* - American robin  
*Sturnus vulgaris* - European starling  
*Passer domesticus* - House sparrow  
*Agelaius phoeniceus* - Red-winged blackbird  
*Zonotrichia leucophrys* - White-crowned sparrow  
*Falco peregrinus* - Peregrine falcon  
*Ardea herodias* - Great blue heron  
*Psaltriparus minimus* - Bushtit

### **Mammals**

*Scapanus orarius* - Coast/Pacific mole  
*Scapanus townsendi* - Townsend's mole  
*Mus musculus* - Common house mouse  
*Peromyscus maniculatus* - Deer mouse  
*Rattus rattus* - Black/roof rat  
*Rattus norvegicus* - Norway rat  
*Eptesicus fuscus* - Big brown bat  
*Didelphis marsupialis* - Virginia opossum  
*Sciurus carolinensis* - Eastern gray squirrel  
*Procyon lotor* - Raccoon  
*Canis familiaris* - Domestic dog  
*Canis latrans* - Coyote  
*Felis catus* - Domestic cat  
*Neurotrichus gibbsii* - Shrew-mole