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dark in ^{the more dense} portions of the forest. The light factor would certainly be an influence in the habitat & reaction of the forest upon the animal and bird forms. To man, this vegetational set-up is almost impenetrable. Found the *Thamnopis* commonly patterned in highway surface.

7-22-41

Animal forms observed at Vancouver environs.

Sturnella neglecta. Frequently found feeding in small groups on parade (grass) grounds at Vancouver Barracks. Aug. heard.

Chordeiles minor hesperis (sp.?) Most common bird in both respects of sight or hearing. Always in the air and flying over city calling. After hot spell later on they became uncommon.

Colaptes cafer cafer. Occ. occasionally observed.

Nuthatch, probably *Sitta canadensis* (sub-sp.?)

Corvus brachyrhynchos brachyrhynchos. Common in cultivated fields.

Thrush. Occasionally heard.

Spizella passerina arizonae. Frequently observed

Warbler (sp.?)

Micropodops columbianus. Saw flew over hospital & flew to the south.

Hylocichla lewisii. Occasionally observed.

Ardea herodias farrini. Generally distributed.

Gulls. Several species and common at river

Chrysomitris vociferans vociferans. Common in fields and along river.

Dendragapus fuliginosus sierrae (sp.?) Occasionally found at hospital grounds in forest to east.

Large Douglas Tree Squirrel. An overgrown *Tamiasciurus*. It differs from Utah *Tamiasciurus* in the following respects: Explores more confidently the open situations and running more freely upon the ground without the jumping movement of our squirrel. In other words it has emancipated itself from the dependence of the conifer trees.

7/26/41

Following books in Portland Library.

Naturalists Guide to the Americas

Plant Ecology - Weaver and Clements

Ecological Animal Geography - Hesse, Allee, Schmidt

Laboratory & Field Ecology - Shelford

An Ecological Glossary. J. Richard Carpenter.

Bio-ecology - Clements & Shelford

Recent Mammals of Idaho - W. B. Davis