NOTES - Populations.pdf

INVESTIGATION 1.2: 'A Sample Census - Wildlife on the Move'

- population the total number of individuals of a single species that live in a designated region at a given time.
- ex: human population is ~ 7 billion
- **population density** the number of individuals of a single species that live in each unit area (km², mi², hectare, acre) of habitat at a given time.
- ex: deer population is 6 deer per square mile
- census a count of the population.
- true census actual count of all of the individuals of a species in a given area.
- sample census is an estimate of the population.

(used when actual count is not possible)

ESTIMATED POPULATION = Estimated Population Density x Area of Habitat

• The 'mark-return-recapture method' is used to estimate population density.

ex: DFO at Millerton and Cassillis estimate salmon populations on Miramichi River.

 $P = \frac{T_F T_L}{M} \qquad \begin{array}{c} \text{P - estimated population} \\ \text{T}_{\text{F}} \text{ - total animals captured in first trapping} \\ \text{T}_{\text{L}} \text{ - total animals captured in later trapping} \\ \text{M - recaptured animals that are marked} \end{array}$

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LAB: Mark-Return-Recapture

1.2 A Sample Census-Wildlife.doc

Classroom







Lab - Mark_Return_Recapture.pdf

Lab Report - Mark_Return_Recapture.pdf

Field..Miramichi River







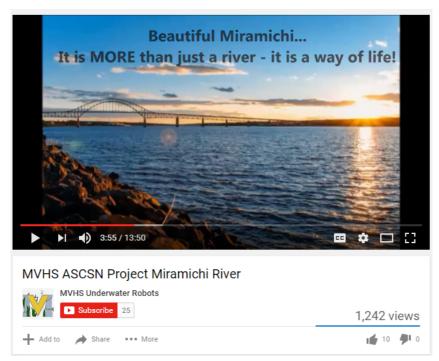
NOTES: - Only 1 lab report needs to be passed per group.

- If you are absent, see me to make it up during IS.
- link is below for the extension question.

http://www.miramichisalmon.ca/northwest-miramichi-river-smolt-study/

DUE: By the end of class on Friday

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https://www.youtube.com/watch?v=hc0AD4v3n3Q

1.2 A Sample Census-Wildlife.doc

Lab - Mark_Return_Recapture.pdf

Lab Report - Mark_Return_Recapture.pdf

NOTES - Populations.pdf