The effects of water flow on animals

Independent Variables

Location

Data was collected in different locations in the same river stream

 Water depths, light intensity, speed of the Water current

Dependent variable

- Factors that cause different aspects of organisms
- Reason and explanation for these different aspects caused by this



Controlled Variables

The quality of the water

The quality must be maintained to have a fair comparison

Hypothesis

 We assume that with higher current speed and less light intensity, there will be less living organisms in that area.

Results

	Site 1	Site 2	Site 3	Site 4
Water Skater	1	0	4	3
Fish	2	7	1	3
Large Stream Snail	10	15	≈150	15
Mayfly Lymph	1	0	0	0
Total species count	4	2	3	3
Total individual count	14	22	>150	21

- Síte 1 shallow, slow water current, strong light intensity
- Síte 2-deep, fast water current ,strong light intensity
- Síte 3 -shallow, slow water current, low light intensity
- Síte 4 deep, fast water current, low light intensity

Síte 1

- shallow, slow water current, strong light intensity
- Lots of snails
- Few mayfly nymphs





Síte2

deep, fast water current ,strong light intensity
Number of fish around 10



shallow, slow water current, low light intensity Larger amount of snails ,a few mayfly nymphs and a

few Water skaters



Síte 4 deep, fast water current ,low light intensity

• 3 water skater and a couple of fish



Analysis

 In general, the more intense the light, the more the individual number of fish

 The lower the water current, the more the individual number of organisms

 The lower light area-site 3 also had slow water current and had large amount of snails

Revisiting our hypothesis

- It is true that lower water currents more organisms were found
- But at stronger light intensity area, more fish were found but less snails were found
- And deeper areas had more larger organisms
- As shallow areas had smaller organisms -mayfly nymphs