

Ava Piper Elsie Robert

Question: How does position in the watershed (along the riparian area) affect soil chroma and biodiversity?

Claim:

Evidence Needed:

Methods: 1. Measure locations along the riparian corridor from the lagoon up to the top of the watershed.

At each location measure:

2. Plant Biodiversity: randomly place the quadrant and count how many types of plants are in the quadrant.

3. Soil moisture: place the probe into the soil for 40 seconds before reading)

4. Soil Core: Take a soil core and compare the number to the munsell soil color chart.

5. Repeat 10+ times along the watershed.

Equipment: Pond kit, quadrant, soil moisture meter, soil core and munsell color chart, plant guide

Site #	Elevation (ft)	Soil Color	Soil Moisture	Nutrient level P&N (water)	Nutrient level P&N (water)	% plant cover	# of plant types	Notes
1a	0	3/3	10	0	0	100	2	-cyperaceae, rosaceae -Dead near bridge
1b	0	3/2	10	0	0	100	3	-same plants + typhaceae
1c	0	2.5/2	10	20	0	100	2	
2	5	4/1	10	0	0	80	6	Behind bridge
3	60	4/2	7.8	10	0	70	4	More trees
4	60	3/3	3	X	X	100	4	-Lots of

								trees -large litter layer(lo ts of DOM) -moist soil(mo stly ground water?)
5	40	3/3	3.9	0	0	80	5	-trees more compa ct, less tall
6	320	4/3	7.8			80	7	Notes on spread sheet
7	270	5/8	2.9			80	7	Notes on spread sheet
8a	150	3/1	.5			20	5	Notes on spread sheet
8b	150	5/2	.5			50	5	Notes on spread sheet
9a	80	4/3	8.5			10	6	Notes on spread sheet
9b	80	5/3	.5			15	3	Notes on spread sheet

10	70	5/6	8			70	7	Notes on spread sheet
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