

and by washing the muddy matrix from shells, produced a sample of beautiful mollusks. Did not have to repeat this stunt many times until I had practically a full quart of assorted snails. All snails collected, except a few on surface of mud, from about 2 square feet of surface of hard pan.

After collecting sample of Riccia from surface of pond label (2) which litterly covered the entire exposures left for home and upon arrival proceeded to take care of material. After floating off the vegetative debris, which was very little, found that I had practically a pure culture of snail. After drying overnight, assorted them with different sizes of screens into specimens of the smallest grade averaging 2 m. m in size, of the second grade of 4 m. m in size and of the third grade from 6 m. m- to 20 m. m in size. Frequently small specimens would be found in larger grade. From the several grades took samples as representative with the idea of determining the percent frequency and dominance of the different species.

Occurrence of Species (by grade)

	1st Grade	2nd grade	3rd grade (small)	3rd grade (Large)
Lymnea	—	.206% - 68	.05% - 41	.18% - 23
Pisidium	.325% - 65	.309% - 128	.034% - 9	—
Gyraulus	.50% - 40	.121% - 40	.027% - 7	—
menetus	.17% - 34	.018% - 6	.042% - 11	—
Heliosoma	.095% - 19	.066% - 22	.12% - 30	.05% - 7
Ridged Lymnea	.085% - 17	.106% - 34	.06% - 15	.038% - 5
Valvata	.045% - 9	.06% - 20	.54% - 141	.71% - 93
Physa	.035% - 7	.006% - 2	—	—
microphysa	.035% - 7	.015% - 5	—	—
Vertigo	.02% - 4	.006% - 2	.023% - 6	.015% - 2
Succinea	—	—	—	—
others	—	—	—	—

Species Percent frequency of total grades

Physa	.336%	1
Pisidium	.265%	2
Gyraulus	.161%	3
Lymnea	.115%	4
menetus	.103%	5
R. Lymnea	.077%	6
Valvata	.07%	7
Heliosoma	.05%	8
microphysula	.018%	9
Vertigo	.017%	10
Succinea	.014%	11

Specimens in Collections.

col. no.	name	Remarks	col. no	name	Remarks
1			62		
2			63	numbers to 75	