

Ecology Result #61 — Analysis Report

Generated 2026-09-21 02:38:42 · 1 run(s) · CAT-G Data Analyzer

1. alpha diversity (#61)

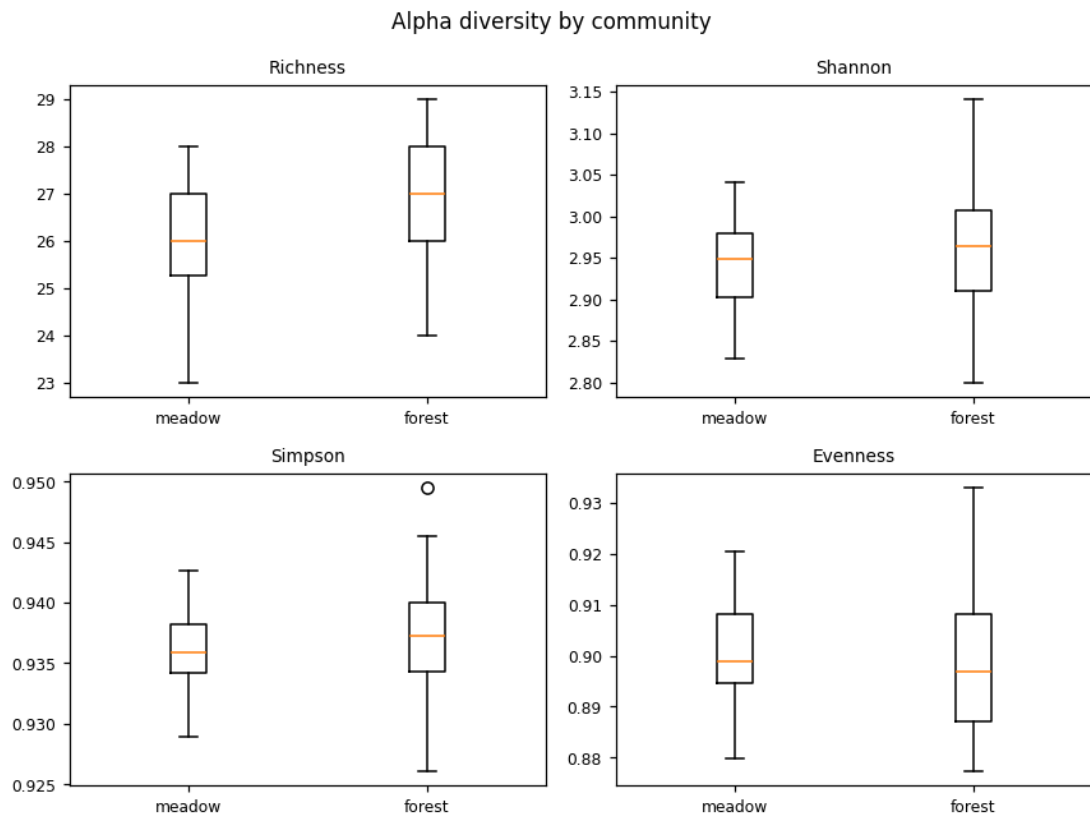
2026-09-21 02:17:26 · ecology · status: completed

Alpha-diversity analysis of 60 samples found a mean Shannon index of 2.95.

n_rows	60
derived_dataset_id	716
group_col	community

indices

richness	shannon	simpson	evenness
27	3.033082	0.942367	0.920277
26	2.909643	0.934102	0.89305
27	2.935465	0.935769	0.890658
27	2.957406	0.936869	0.897316
27	3.03298	0.942592	0.920246
26	2.99914	0.940032	0.920519
25	2.90515	0.934618	0.902536
25	2.839696	0.929321	0.882201
27	2.947885	0.936538	0.894427
26	2.962414	0.938766	0.909247



alpha index boxplot

Method & Provenance

method	Ecology — Alpha Diversity
engine	Python · numpy/scipy 1.17.1
datasets	gallery — example_community_matrix.csv
started	2026-09-21 02:17:26.280202
permanent link	https://cat-g-omxpert.wishartlab.com/results/by-token/98ddb301a65940c0adea62e26e8

Parameter	Value
analysis_kind	alpha_diversity
group_col	community

Command history

```
# python
# Alpha Diversity via app.services.ecology_service

# python
# diversity indices / distance matrix on community matrix
```