

Statistical Test Result #183 — Analysis Report

Generated 2026-09-21 02:37:55 · 1 run(s) · CAT-G Data Analyzer

1. mann whitney (#183)

2026-09-21 02:16:20 · statistical_test · status: completed

The mann whitney on PC_WOODMASS across RANCH groups was statistically significant ($p = 0.006$).

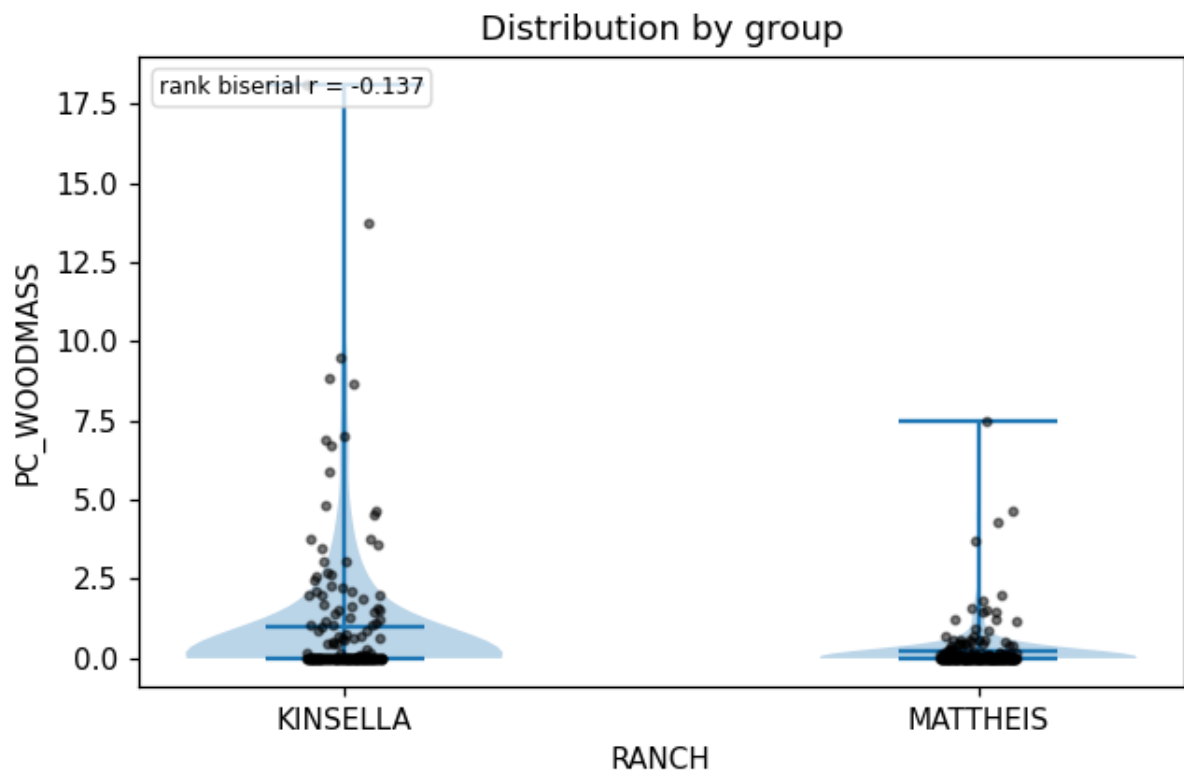
statistic	21778.5
p_value	0.005597
significant	True
alternative	two-sided
method	asymptotic (normal approximation)
rank_biserial_r	-0.13708
value_col	PC_WOODMASS
group_col	RANCH

group stats

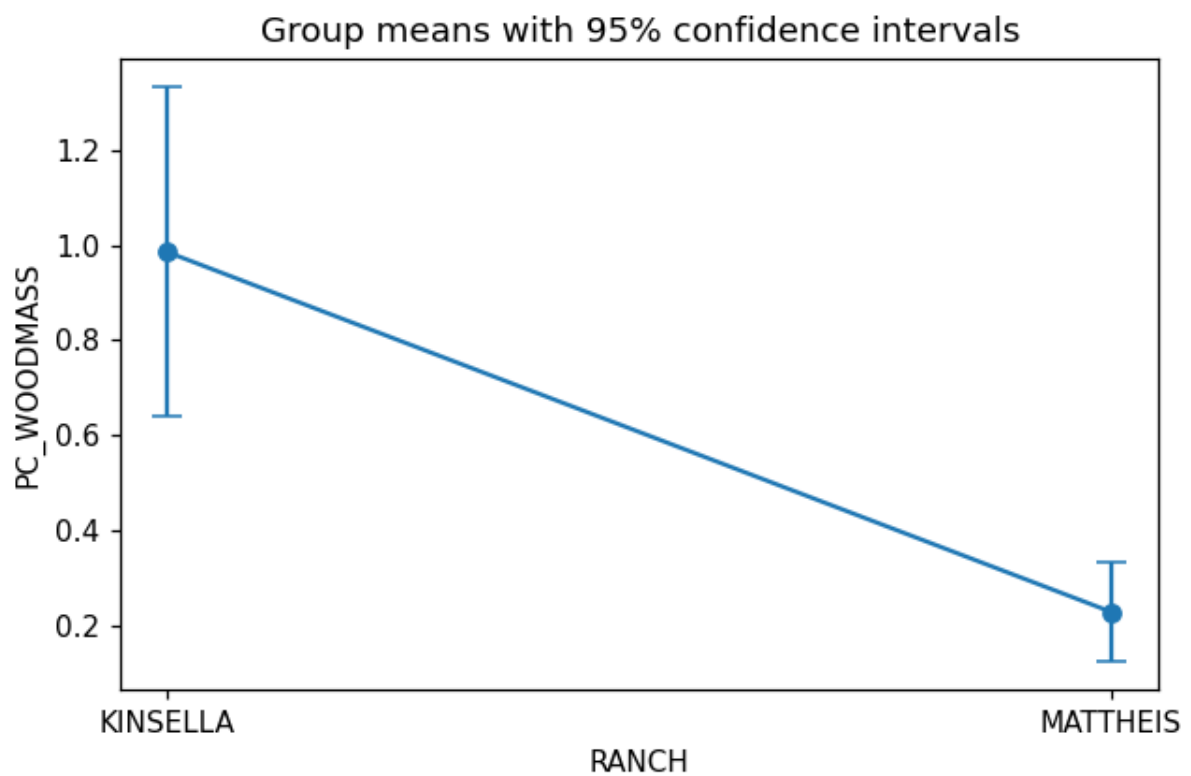
group	n	mean	sd	median	min	max
KINSELLA	179	0.98493	2.363451	0.0	0.0	18.072
MATTHEIS	214	0.228551	0.772529	0.0	0.0	7.466

effect size

name	value
name	rank_biserial_r
value	-0.13708



group violin



mean ci

Method & Provenance

method	Mann-Whitney U test
--------	---------------------

engine	Python · scipy 1.17.1
datasets	gallery — catg_example_08_woody_encroachment.csv
started	2026-09-21 02:16:20.597111
permanent link	https://cat-g-omxpert.wishartlab.com/results/by-token/4fd68eade08c42a9bba7ba26389c

Parameter	Value
test_type	mann_whitney
value_col	PC_WOODMASS
group_col	RANCH

Command history

```
# python
from scipy import stats

# python
stat, p = stats.mannwhitneyu(group_a, group_b, alternative='two-sided')
```