## (a) Means +/- S.E. for all diversity & group abundance variables bare ground litter soil cover exotic forb relative abundance areal cover proportion 1.00 relative abundance 0.3 0.75 0.2 0.50 0.25 0.1 0.00 0.0 2021 2022 2023 2022 2023 2021 2022 2023 2021 year year year exotic grass relative abundance exotic forb exotic grass areal cover areal cover areal cover proportion relative abundance 1.0 1.0 0.9 0.9 8.0 8.0 0.7 0.7 0 0.6 0.6 0.5 0.5 2021 2021 2021 2022 2023 2022 2023 2022 2023 year year year native forb native forb **Shannon diversity** relative abundance areal cover areal cover proportion 1.5 treatment 0.6 1.0 Ì raked 0.4 0 0.5 0.2 unraked 0.0 0.0 2021 2022 2023 2021 2022 2023 2021 2022 2023 year year year exotic forb native Shannon diversity species richness **Shannon diversity** 1.2 species per plot 9 8.0 0 Ì 6 0.4 3 0.0 2021 2022 2023 2021 2022 2023 2021 2022 2023 year year year exotic forb native species richness species richness 6 species per plot 0) (0) 2

areal cover proportion

areal cover proportion

relative abundance

0.3

0.2

0.1

0.0

1.00

0.75

0.25

0.00

3

1

0

2021

2022

year

2023

0

2021

2022

year

2023

species per plot 2

**±** 0.50

1.00

0.75

0.50

0.25

0.00

0.6

0.4

0.2