Supplementary Figure 1. Non-metric multidimensional scaling (NMDS) ordination plot showing seed bank communities after 13.5 years of experimental N additions at Wardlow Hay Cop. Text shows centroids for N-treatment levels. The ordination with two dimensions adequately represented the original seed bank dataset (stress = 18.8), and demonstrated a distinct difference between seed bank communities in control plots and those which received 140 N treatment, with plots receiving 35 N treatment overlapping both groups. Nitrogen treatment was significantly but not strongly correlated with seed bank composition ($r^2 = 0.27$, $P = 0.01$; determined by fitting N treatment as a factor to the NMDS ordination using correlation analysis and estimating $P$ values from comparison of correlation coefficients with those generated from 999 random permutations of the data).
Supplementary Figure 2. Similarity between seed bank and above-ground plant communities according to the Bray Curtis distance in plots receiving experimental N addition treatments at Wardlow Hay Cop. The Bray-Curtis distance measure

\[ BC = \sum_i^n \frac{|x_{ij} - x_{ik}|}{\sum_i^n x_{ij} + x_{ik}}, \]

where \( x_{ij} \) is the relative abundance of species \( i \) in community \( j \), \( x_{ik} \) is the relative abundance of species \( i \) in community \( k \), and \( n \) is the total number of species, with 0 representing the most similar communities, and 1, the most different communities) showed the greatest difference between seed bank and plant community in plots receiving 140 N treatment (\( n = 3 \), error = s.e.m).