

Figure S2 – Results from fixed effects ANOVAs for the effects of ploidy (diploid, tetraploid), soil N treatment (low, medium, high), their interaction (P x N), and genetic line (nested within ploidy) on the % N in shoots and roots of fireweed (*Chamerion angustifolium*); we report the F -ratio and level of significance (Prob > F) for the effect of ploidy relative to the between-genetic line variance ($MS_{\text{genetic line}}$). (a) For shoots: ploidy ($F_{1, 222} = 4.69$, $P = 0.0511$), soil N ($F_{2, 222} = 283.92$, $P < 0.0001$), and genetic line ($F_{12, 222} = 5.19$, $P < 0.0001$) but not the P x N interaction ($F_{2, 222} = 0.41$, $P = 0.6607$) had significant effects on %N. (b) For roots: ploidy ($F_{1, 114} = 8.45$, $P < 0.0001$), soil N ($F_{2, 114} = 200.32$, $P < 0.0001$), the P x N interaction ($F_{2, 114} = 3.83$, $P = 0.0246$), and genetic line ($F_{12, 114} = 2.60$, $P = 0.0042$) all had significant effects on %N in roots. LS means and ± 1 SE are reported (error bars).

