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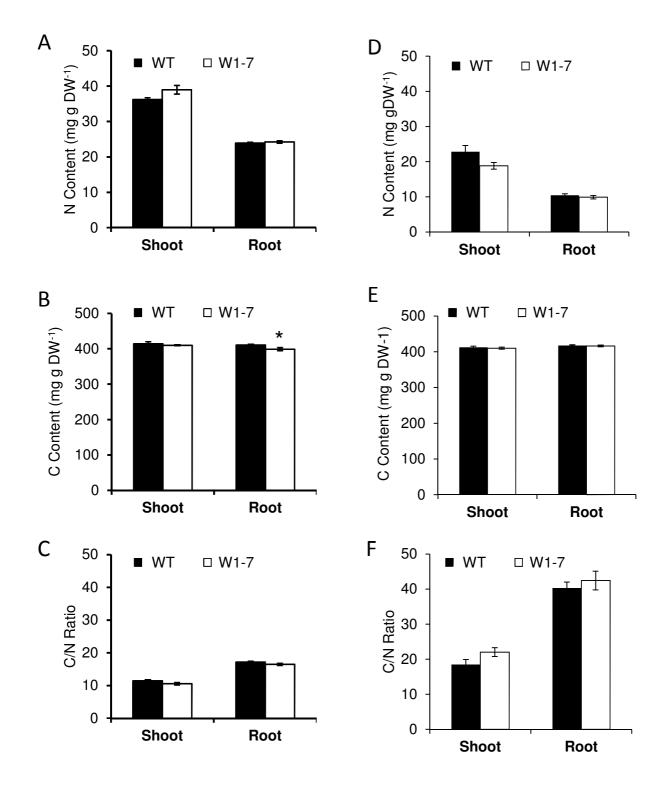
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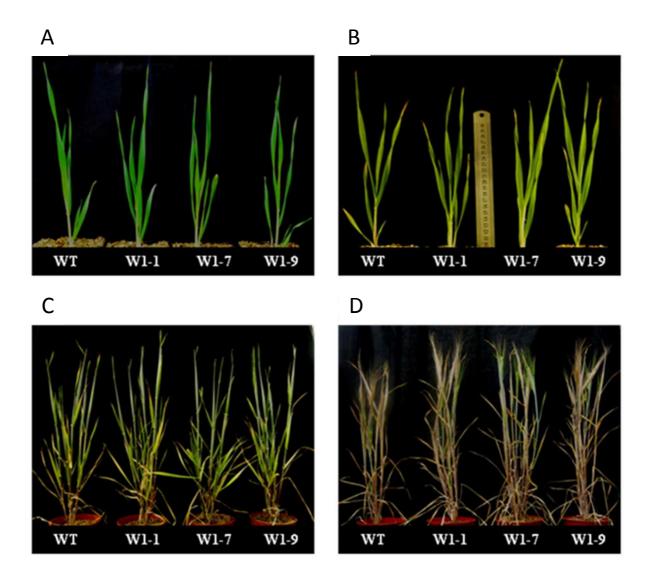
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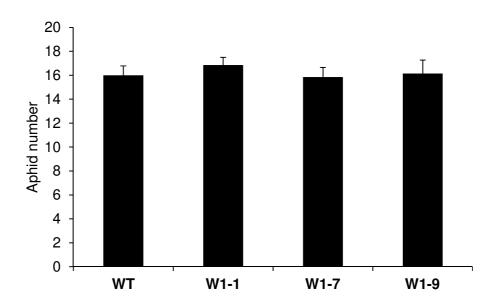




Supplemental Figure S1 Comparisons of shoot and root carbon and nitrogen contents in wild-type and WHIRLY-1 deficient W1-7 seedlings grown for 15 days under either optimal (A-C) or limiting nitrogen (D-F) conditions. Data are represented as mean \pm SE, values (n = 5) and indicate total nitrogen (A, D), total carbon (B, E) and carbon to nitrogen ratios (C, F). Significant differences between lines were estimated using the students T-test as indicated by asterisks (P<0.05).



Supplemental Figure S2 Appearance of wild-type and WHIRLY1-deficient barley lines grown under optimal nitrogen for 18 (A), 27 (B), 81 (C) and 130 (D) days.



Supplemental Figure S3 Aphid fecundity on wild-type and WHIRLY1-deficient barley lines. Data indicate the number of aphids recovered from whole plants 15 days after the transfer of a single one day old nymph of *Myzus persicae* and are represented as mean \pm SE, n = 7.