

# Hazelnut in the Upper Midwest of the U.S.A.

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Hazelnut fertilization recommendations developed in Oregon are based primarily on comparing leaf nutrient levels with established sufficiency/deficiency standards. Application rates in cases of deficiency are not well established. Therefore, we recommend applying low rates of fertilizer, retesting and applying more if analysis still indicates a deficiency. However, this can lead to overapplication of potentially polluting nutrients such as N and P, and of globally supply-limited nutrients such as K. Biological methods, such as legume intercropping to enhance soil-atmosphere nutrient cycling, may offer a better approach. Whether leguminous covers in the alleys between hazelnuts can supply all the N required to produce N-rich nuts has yet to be determined. Research project specialist Evelyn Reilly will share a possible study design to address this gap, and would welcome feedback and ideas.

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