

Bob Guthrie

Missing Information

Historical information about fertilizer application rates in relation to current recommendations will be instructive and should be included in the update. This information is available from the University of Minnesota Extension (Historical Guidelines), Minnesota Department of Agriculture (Fertilizer Sales Data), the USDA National Agricultural Statistics Service (e.g., Quick Stats), and USDA's Census of Agriculture Historical Archive

(<https://agcensus.library.cornell.edu/#:~:text=Search Census Archive,to incomplete archival record keeping.>). In general, the rate of nitrogen fertilizer application on a per acres basis for most major commodity crops has increased during the past few decades. This could be problematic if the rate of nitrogen assimilation remains unchanged.