

Nitrogen Management Zone Delineation. (S08-franzen144513-Poster)

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Abstract:

Residual soil nitrate levels have been found to follow similar patterns over years in the Northern Plains. This study is being conducted to determine methods to more easily delineate nitrogen management zones. The method being used classifies a relatively easily obtainable data set, including aerial photography, satellite imagery, soil electrical conductivity, topography and yield mapping, then determines the nitrate zone based on weighting attributed to each data layer. Each delineation method is tested against a 33 m grid nitrate soil test layer for relative effectiveness of representing the nitrate levels in the field.

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