Environmental Neutral N and P Forage Yield After 10 Years of Application

**Conclusions**

- The results indicated that the application of manure and the subsequent growth of grassland agri-ecosystems was initiated after a manure application rate of approximately 150 kg N ha⁻¹, based on its total N content, should be applied to the upland site in the spring, summer (after 1st cut), early fall (after 2nd cut) and late fall (November - early December) and late fall (late October - early November) and late fall (November - early December) and late fall (late October - early November). The environmentally neutral P or N point was taken as the point where the amount of P or N applied was equal to the amount of P or N taken up by the crop, respectively. The N balance point occurred at 125 kg N ha⁻¹.

- The results demonstrated that the N balance point occurred at manure applications ranging from 75 to 125 kg N ha⁻¹, although further manure N additions, although not significant, resulted in increased forage yields. The environmentally neutral N or P point was taken as the point where the amount of the nutrient taken up equals the amount of the nutrient applied; where uptake equalled application, occurred at 125 kg N ha⁻¹.

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