

BIOLOGICALLY EFFECTIVE MANAGEMENT of GRAZINGLANDS

Preface

Biologically effective management of grazinglands consists of an assemblage of strategies that are an antithetical paradigm change from traditional treatments and gimmicky practices. Biologically effective management of grassland ecosystems provides the biological requirements to all of the above and belowground components by activating the biogeochemical processes in the ecosystem and the defoliation resistance mechanisms within the grasses and rhizosphere organisms through coordination of partial defoliation by grazing animals with phenological growth stages of grass plants. These revitalized conditions cause improvement of soil structure and functional quality, mineralization of greater quantities of essential elements, enhancement of grass growth and tiller development, increases in forage quantity and nutritional quality, and improvement of livestock growth and weight performance which result in the capture of greater wealth from the renewable land natural resources. This compendium of reports provide the basic information needed to understand and to operate a specifically designed twelve month pasture and harvested forage management strategy for beef cattle that is biologically effective and economically efficient.

Llewellyn L. Manske PhD
Research Professor of Range Science
NDSU Dickinson Research Extension Center

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