

عنوان مقاله:

Effect of growth stages and systems on range vegetation characteristics in el Rosa, north Kordofan, Sudan

محل انتشار:

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خلاصه مقاله:

The range vegetation characteristics were studied in closed and open systems at flowering and seeding in (El Rosa) El khuwei locality at September and November 2009. Sampling was using 2Km² plots in a radiating manner from the centre of plot. CRD was used to analyses all parameters. Results of biomass, plant density and plant cover in the closed systems at the flowering were significantly ($P < 0.0001$) higher. These parameters were significantly lower in the open system at seeding. Bare soil and litter were significantly ($P < 0.0001$) higher in the open system at seeding. Total forage productivity kg/ha was significantly ($P < 0.05$) higher in the closed system at the flowering and least in the open system at seeding. Carrying capacity was significantly ($P < 0.0001$) higher in closed system at seeding and least in open at flowering. Stoking rates in the closed system at flowering were significantly ($P < 0.0001$) higher and least in the open system at seeding. Plant frequencies were higher in the closed system at the two growth stages than open system like Huskneet (*Cenchrus biflorus*) Bano (*Eragrostis tremula*) Gaw (*Aristida* sp) Difra (*Echinocloa colonum*) Aboelrakhus (*Andropogon gayanus*) Fisiya (*Fimbristylis hispida*) and Tmrar (*Oldenlandia senegalensis*) had higher frequencies. However lelef (*Luffa aegyptiaca*) and Himeira (*Hymenocardia acida*) had lower frequencies. Simeima (*Sesamum alatum*) Buid (*Commelinia subulata*) Abodaib (*Ceraothea sesamoid*) Shuleny (*Zornia glochidiata*) and Rabaa (*Zalea* sp) were found only in the closed system at flowering. Nuida (*Sida cordifolia*) were only found in the open system at the two growth stages. It was concluded that the closed system had higher plant density and cover, biomass, plant frequencies and forage production. Bare soil and litter were higher in open system at seeding. Carrying capacity was higher in the closed system at seeding. Stoking rates in the closed system at flowering were higher. Indicate that direct effects on different system vegetation characteristics, productivity, caring capacity and stocking rates.

کلمات کلیدی:

Biomass , Plant cover and density , Bare soil , Litter , Frequency

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