عنوان مقاله:

Effect of Mating Designs on Genetic Gain and Increase of average Inbreeding

محل انتشار:

نهمین همایش بین المللی دانش و فناوری علوم کشاورزی، منابع طبیعی و محیط زیست ایران (سال: 1402)

تعداد صفحات اصل مقاله: 1

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خلاصه مقاله:

The purpose of this study was investigate the genetic gain, increase of average inbreeding and accuracy ofprediction using simulated data under different mating designs. Two level of heritability (۰.۱ and ۰.۵) andfive maing designs including random mating (rnd), mating based on minimizes inbreeding (minf), matingbased on maximizes inbreeding (maxf), positive assortative mating design based on phenotype (phen) andpositive assortative mating design based on prediction breeding value (ebv) were considered. The geneticgain after ten generation in rnd, minf, maxf, phen and ebv mating designs for heritability ۰.۱ were ۰.۸۳۶,۰.۷۴۷, ۰.۹۵۲, ۰.۸۷۷ and ۱.۰۲۳, respectively, and for heritability ۰.۳ were ۲.۹۷۹, ۲.۹۹۷, ۳.۰۱۶, ۳.۳۰۳ and۳.۵۹۵, respectively. The results shoewd that the genetic gain in minf design was greater than othersmating designs per ۱% inbreeding increase and minf design was better than other mating designs.

کلمات کلیدی:

Mating designs, Heritability, Inbreeding