

عنوان مقاله:

Velvetleaf interference with cotton planted in conventional and ultra narrow row spacings

محل انتشار: پنجمین کنگره بین المللی توسعه کشاورزی، منابع طبیعی، محیط زیست و گردشگری ایران (سال: 1400)

تعداد صفحات اصل مقاله: 16

نویسندگان: Esmail Ghorbanpour - *PHD student in Agronomy*

Javid Gherekhloo - Assistant professor, Gorgan University of Agriculture Sciences and Natural Resources

Farshid Ghaderifar - Assistant professor, Gorgan University of Agriculture Sciences and Natural Resources

خلاصه مقاله:

Crop row spacing and weed density affects on the growth and weed seed production and cotton yield. In order to evaluate the Velvetleaf interference with the cotton planted in conventional and ultra narrow row spacings, an experiment was conducted in a completely randomized block design with split plot arrangement of treatments at Experimental Station of Gorgan University of Agriculture Sciences and Natural Resources during Yoll growing season. The treatments were three row spacings (o (monocular weed), Yocm, Focm and Aocm) of cotton (mainplot) and four densities (1, ^w, ^Δ and ¹Y plant.m-Y) of velvetleaf (subplot). Each plot including five rows with Ym length of cotton was considered as one replication and the experiment was done with three replications. Result showed that, plant density (increase crop or weed density) was affected on the velvetleaf yield component and cotton row spacing. The increase plant density increased plant height, height of highest sub branch and reduced capsule number and seed weight of velvetleaf. The weed velvetleaf seed production fitted a liner regressions function. The liner regression equation was estimated by increase per plant of weed density velvetleaf seed production was increased to YAVY. ""FY, "QIV.5. A", Y9YY.F9YF and WFF. AW. seed.m-Y in monocular and competition with Y., F. and A. cm cotton row spacing, respectively. Too, by increase per gram weed dry matter was increased velvetleaf seed production to ۴Υ.Δ۶Δλ, Λο. ΨΛΥ, Ya.Y and 50.05 seed.m-Y in monocular and competition with Yo, Fo and Ao cm cotton row spacing, respectively. So, the dry matter of cotton decreased by increasing the velvetleaf density, but the rate of decreasing was different between row spacings. Cotton yield loss increased with increasing of weed density, but the yield loss rate in Ultra Narrow Row .((UNR) was lower than 40 cm and Conventional Row spacing (CR

کلمات کلیدی:

.Seed production, Competition, Plant density, Dry matter, Yield loss

لینک ثابت مقاله در پایگاه سیویلیکا:



