



The productivity of some varieties of lentil under irrigation intervals in conditions of Sinai

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Abstract : Two field experiments were carried out during 2013/2014 and 2014/2015 winter seasons at production and research station of Maghara at north of Sinai government, Desert research center, ministry of agriculture, Egypt. The objective of this study was to investigate the effect of irrigation intervals on yield, yield components and chemical content in grains of some varieties of lentil. The results could be lead to as follows, the cultivar Giza-9 recorded the highest plant height and dry weight of plant however Giza 370 and Sinai 1 recorded the lowest value; on the other hand, cultivar Giza 370 recorded the highest secondary branches/plant while Sinai 1 recoded the lowest value; cultivar Giza 4 recorded the highest value primary branches/plant, however, cultivar Giza 51 recorded the lowest value; cultivar Giza 51 recorded the highest number of pods and 100 seeds weight, while cultivar Giza 9 and Giza 4 recorded the lowest; on the other, cultivar Sinai 1 recorded the highest value on chemical analysis .the result indicated irrigation intervals 2 day significantly increased all the previous characters while irrigation intervals 8 day give the lowest value for all study characters.

Key words: lentil – varieties – yield- irrigation intervals.

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