

عنوان مقاله:

Omega-^w in Dragon's head (Lallemantia iberica (MB) Fischer & Meyer) as effected by irrigation regimes and sowing date

محل انتشار:

مجله فرآیند و کارکرد گیاهی, دوره 12, شماره 58 (سال: 1402)

تعداد صفحات اصل مقاله: 13

نویسندگان:

Saeideh Maleki Farahani - Shahed University, Department of Crop Production and Plant Breeding, College of Agriculture, Shahed University, Tehran, Iran

Maryam Mirdoraghi - Shahed University, Department of Crop Production and Plant Breeding, College of Agriculture, Shahed University, Tehran, Iran

Alireza Rezazadeh - Shahed University, Department of Crop Protection, College of Agriculture, Shahed University, Tehran, Iran

خلاصه مقاله:

In order to evaluate the effect of irrigation regimes and sowing dates on linolenic acid (Omega-Ψ) content in dragon's head (Lallemantia iberica), an experiment was conducted factorial as a randomized complete block design in three replications in the research farm of Shahed University on crop year Y₀Y₁–Y₀YY in the research farm of Shahed University. The experimental treatments included: Irrigation regimes at three levels: IY₀: Irrigation after Y₀% depletion of soil available water (SAW); IF₀: An irrigation after F₀% depletion of SAW; and ISY₀: Irrigation at sowing and before flowering based on Y₀% depletion of SAW. The second factor was the sowing dates of autumn (November ۱Δ) and spring (March ۱Δ). The interaction effect of autumn sowing date and irrigation regime IY₀ produced the greatest seed yield (FA_{0.1} kg.ha-1), harvest index (•.YA), chlorophyll b content (•.FΔY mg.g-1 Fw), seed number per plant (FF9.•), and branch number per plant (9.AΨ). Also, the amount of linolenic acid was greater under the treatment of sowing date and irrigation regime IY₀, with values of FF.•Y% and FF.ΨΨ%, respectively. A water shortage in the soil also decreased linolenic acid content under deficit irrigation treatments (ISY₀ and IF₀) although in IF₀ it was not statistically different from IY₀. Totally, it was clearly determined that the low temperature of autumn increased Omega-Ψ in the Dragon's .head

کلمات کلیدی:

Linolenic acid, Low irrigation, Photosynthetic pigments, Rainfed, Spring sowing, Linolenic acid, Low irrigation, Photosynthetic pigments, Rainfed, Spring sowing

لینک ثابت مقاله در پایگاه سیویلیکا:

https://civilica.com/doc/1916029

