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不同年限紫花苜蓿(生长)水分利用效率和耗水系数的差异 孙洪仁,关天复,孙建益,武瑞鑫,李品红

摘要:

采用小型蒸渗仪法,在北京平原区研究了一年生和二年生紫花苜蓿Medicago sativa水分利用效率和耗水系数的差异。研究结果表明:二年生紫花苜蓿的生物产量和经济产量水分利用效率[14.7和17.1 kg/(hm2·mm)]显著高于一年生紫花苜蓿[12.6和14.7 kg/(hm2·mm)](P<0.05);生物产量和经济产量耗水系数(679和584)显著低于一年生紫花苜蓿(793和682)(P<0.05)。研究表明生长年限对紫花苜蓿的水分利用效率和耗水系数具有影响。

关键词: 紫花苜蓿:水分利用效率:耗水系数;生长年限;小型蒸渗仪:北京平原区

Difference of water use efficiency and water consumption coefficient of alfalfa different in growing season

SUN Hong-Ren, GUAN Tian-Fu, SUN Jian-Yi, WU Rui-Xin, LI Pin-Hong

Abstract:

Difference of water use efficiency (WUE) and water consumption coefficient (WCC) of alfalfa (Medicago sativa) between the first growing season and the second growing season was studied in Beijing plain with micro—lysimeter. The results showed that the WUE based on biological and economic yields [14.7 and 17.1 kg/(hm2 \cdot mm)] of the second growing season were significantly (P<0.05) higher than that of the first growing season [12.6 and 14.7 kg/(hm2 \cdot mm)], the WCC based on biological yield and economic yield (679 and 584) of the second growing season were significantly (P<0.05) lower than that of the first growing season (793 and 682). This proved that the growing years affected the WUE and WCC.

Keywords: alfalfa, water use efficiency, water consumption coefficient, growing year, micro lysimeter, Beijing plain

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