

Studies on Eco-physiology of Seedling Emergence Under Stress Environment (2)

— Effect of Chemicals on Increasing Proso Seedling Emergence Under Condition of Drought

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In this paper the effect of soaking seeds using CaCl_2 and GA on increasing Proso seedling emergence was studied. It has been shown from the results that, under water stressed condition by method of mannitol solution (-0.73MPa) and in the pot soil (moisture content 7—8%), emergence rate and drought resistance of seedling were obviously increased because of soaking seeds with CaCl_2 and GA. The preliminary research indicated that, the mechanism of CaCl_2 and GA to promoting seedling emergence seems differnt. On the basis of experiment results, the possibility of applying this method to practical production was discussed.

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## 作物生态研究室学术活动简讯 (1)

1988年8月14—25日, 西北水保所作物生态室山仑和陈培元赴美国得克萨斯州阿玛里勒市参加了由美国农业部农业科研处等单位联合主持召开的国际旱农会议。这次会议共有47个国家约300名代表参加, 是历届会议中规模最大的一次。会后还考察了得克萨斯、俄克拉荷马、堪萨斯、科罗拉多等州的科研、教学、推广工作和相应的设施。

(陈培元供稿)