

前植物生产层

3种除草剂与肥料混施对海滨雀稗及交播黑麦草生长的影响

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摘要:

2009-2010年在江苏小洋口乡村俱乐部进行田间试验,旨在明确除草剂啶磺隆、磺酰磺隆、敌草隆与复合肥混施后对海滨雀稗(*Paspalum vaginatum*)及交播黑麦草(*Lolium perene*)生长的影响。结果表明,海滨雀稗休眠前单施啶磺隆0.027 kg ai/hm²、磺酰磺隆0.01 kg ai/hm²及与复合肥250 kg/hm²(含N:P:K为18:6:12)混施,对海滨雀稗草坪叶色及返青无影响。施敌草隆1.6 kg ai/hm²,2周内草坪叶片轻度失绿,草坪返青正常。敌草隆与肥料混施后,2周内草坪叶片中度失绿,来年返青比对照迟5 d。草坪完全返青后单施啶磺隆0.027 kg ai/hm²及与肥料混施,药后3周黑麦草死亡,海滨雀稗叶色及密度正常。单施磺酰磺隆0.01 kg ai/hm²及与肥料混施,药后3周黑麦草死亡,海滨雀稗叶片极轻微至轻微失绿。5~6周全区草坪叶色及密度正常。施敌草隆1.6 kg ai/hm²后2周黑麦草死亡,海滨雀稗叶片中度失绿伴密度轻微受损。药后7周全区草坪叶色渐趋正常,但密度低于对照。敌草隆与肥料混施后2周黑麦草死亡,海滨雀稗叶片严重失绿,6周局部死亡,9周全区草坪叶色渐趋正常,密度显著低于对照。

关键词: 除草剂 肥料 混施 海滨雀稗 黑麦草

Effect of application of herbicides with fertilizer on growth of seashore paspalum and seashore paspalum overseeded by perennial ryegrass

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Abstract:

Field experiments were conducted from 2009 to 2010 to determine the injuring of perennial ryegrass (*Lolium perene* cv. Overseed 2#) overseeded in seashore paspalum (*Paspalum vaginatum* cv. Salam) by mixing application of herbicides with fertilizer (The trade product contained 4.5 g/m² of N plus 1.5 g/m² of P₂O₅ and 3 g/m² of K₂O). This study showed that Chlosulfuron at 0.027 kg ai/ha and sulfosulfuron at 0.01 kg ai/ha resulted in excellent seashore paspalum safety when applied alone or mixing with fertilizer in Nov. 2009. While neglecting minor leaf discoloration of turf was demonstrated at 2 WAA (Weeks After Application) by diuron at 1.6 kg ai/ha alone. The dormancy stage of turf had been prolonged for 5 days when mixing diuron and fertilizer comparing with the untreated plots. The ryegrass eliminated at 2-3 WAA caused by 3 herbicides both along using or mixing with fertilizer treated in late May, 2010. No injuring of seashore paspalum caused by chlosulfuron at 0.027 kg ai/ha alone or mixing with fertilizer. Neglecting tiny leaf discoloration of turf occurred with the sulfosulfuron at 0.01 kg ai/ha alone or mixing with fertilizer and recovered 5-6 WAA. Moderate discoloration with thickness of turf caused by diuron 1.6 kg ai/ha at 2 WAA and recovered at 7 WAA. Visible severe leaf discoloration with some necrosis of turf occurred due to mixing application with diuron 1.6 kg ai/ha and fertilizer lasting from 2 to 5 WAA and recovered at 9 WAA with remarkable thickness.

Keywords: mixing application of herbicide and fertilizer injuring of turf seashore paspalum perennial ryegrass

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