

Tankmixing Non-Selective Herbicides (and other weedy matters)

Aaron Hathaway and Ronald Calhoun
 Department of Crop and Soil Sciences

Fast car – fuel economy, fried food and a fit figure, we always want the best of both worlds but seldom get it. The same is true for non-selective burndown herbicides. Diquat bromide (Reward) and pelargonic acid (Scythe) are the fastest of the bunch to show symptoms, but perennial vegetation starts to recover in a couple of days. Glyphosate (Roundup Pro) gets to the root of the problem better than some others but can take a week or two to get really brown on top. Tankmixes of Scythe or Reward with Roundup are frequently recommended and used. Do these tankmixes of non-selective herbicides provide fast burndown and complete control? In this study, combinations of non-selective herbicides were applied to plots consisting of annual and perennial vegetation. Scythe, Reward, and Finale were tankmixed with Roundup Pro at a one-to-one rate and at a one-tenth-to-one to examine the effects of these combinations for non-selective burndown on these plots. Separate plots were treated at 56 and 3 days before Field Day. Can you have your cake and eat it too?

Treatment	Form	Rate
1 UNTREATED		
2 ROUNDUP PRO	4 EC	4 FL OZ/GAL
3 ROUNDUP PRO	4 EC	4 FL OZ/GAL
FINALE	2 SL	0.4 FL OZ/GAL
5 ROUNDUP PRO	4 EC	4 FL OZ/GAL
6 FINALE	2 SL	4 FL OZ/GAL
7 ROUNDUP PRO	4 EC	4 FL OZ/GAL
SCYTHE	1 EC	4 FL OZ/GAL
9 ROUNDUP PRO	4 EC	4 FL OZ/GAL
SCYTHE	1 EC	0.4 FL OZ/GAL
10 ROUNDUP PRO	4 EC	4 FL OZ/GAL
REWARD	2 SL	2 FL OZ/GAL
11 ROUNDUP PRO	4 EC	4 FL OZ/GAL
REWARD	2 SL	0.2 FL OZ/GAL