

Provided herein are herbicidal compositions comprising a mixture comprising (a) a choline salt of 2,4-dichlorophen-oxyacetic acid (2,4-D-choline) and (b) a salt of 2-amino-4-(hydroxymethylphosphinyl) butanoic acid (glufosinate). The compositions provide synergistic weed control of undesirable vegetation and improved crop tolerance in 2,4-D- and glufosinate-tolerant soybeans, corn, or cotton. The compositions also provide synergistic weed control of undesirable vegetation in areas including, but not limited to, non-crop, perennial crop, fruiting crop, and plantation crop areas.