**Controlling Herbicide Resistant Annual Bluegrass (*Poa annua* L.)
Phenotypes with Methiozolin**

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**Supplementary Material**

Primers used to amplify alpha-tubulin loci were developed from unpublished pilot research conducted by the authors with *Poa annua* L. The PCR reaction implemented with these primers was identical to that of Brosnan et al. (2016b).

Forward: 5’ CCTACACCAACCTCAACAGG 3’

Reverse: 5’ CGAACTCAGCACCAACTTCC 3’

Primers used to amplify enolpyruvylshikimate-3-phosphate synthase (EPSPS) loci were identical to those published by Liu et al. (2013) on *Lolium perenne* spp. *multiflorum*

Forward: 5’ AGCTGTAGTCGTTGGCTGTG 3’
Reverse: 5’ TCGCTCCCTCATTCTTGGTA 3’

Primers used to amplify *psbA* loci were developed using the work of Brosnan et al. (2016a) and Brosnan et al. (2016b) on *Poa annua* L.

Forward: 5’ AAACGAATTTGCTAATGAGGGTT 3’
Reverse: 5’ TTGGGTATTTCTAGCTTTCCTTT 3’

Liu M, Hulting AG, Mallory-Smith CA (2013) Characterization of multiple-herbicide-resistant Italian ryegrass (*Lolium perenne* spp. *multiflorum*). Pest Mgmt. Sci 70:1145-1150.

Brosnan JT, Vargas JJ, Breeden GK, Grier L, Aponte RA, Tresch S, LaForest M (2016a) A new amino acid substitution (Ala-205-Phe) in acetolactate synthase (ALS) confers broad spectrum resistance to ALS-inhibiting herbicides. Planta. 243:149-159

Brosnan JT, Breeden GK, Vargas JJ, Trigiano RN, Boggess SL, Staton ME (2016b). Confirmation and control of annual bluegrass resistant to photosystem II inhibiting herbicides. Int. Turf. Soc. Res. J. (*In press*). doi: 10.2134/itsrj2016.05.0359