Supplementary Figure S1 – Observation of regrowth in *E. plana* plants after 60 days of glyphosate (312g ae ha-1) treatment at greenhouse (A) and field conditions (B and C). In field conditions is shown unsatisfactory control of *E. plana* in burndown operations using glyphosate (1,920g ae ha-1) in soybean fields (Santana do Livramento, RS, Brazil).



**A**

**C**

**B**

Supplementary Table S1– measurements of Total Dissolved Solids, Conductivity and pH of water used in spray solutions.

|  |  |  |
| --- | --- | --- |
| **TDS**  **(ppm)** | **Conductivity**  **(uS/cm)** | **pH** |
| 131 | 261 | 8.16 |

Supplementary Table S2 – Log-logistic parameters from the dose response regression fitted to the shoot dry mass data for *E. colona*. Data were best described with a non-linear log–logistic, four-parameter regression, .

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Variable | Slope  (*b*) | Lower limit  (c) | Upper limit  (d) | GR50 a  (g ha-1) |
| Shoot dry mass | 2.7 ± 1.9 b | 3.3 ± 1.2 | 14.3±1.8 | 48.45 ± 15.4 |

a GR50 – Herbicide dose that caused 50% of shoot dry mass reduction.

b Standard error.