S1. Table of the resistance phenotype categories based on percentage of herbicide field rate required to achieve the ED50 of each population on *A. spica-venti* in Denmark. Field rate (RRR: 100%) in Denmark as follows, iodosulfuron; 6.5 g ai ha-1, fenoxaprop; 69 g ai ha-1 , prosulfocarb; 1200 g ai ha-1, imazethapyr\*; 71.5 g ai ha-1, pyroxsulam; 15 g ai ha-1.

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| --- | --- | --- | --- | --- | --- | --- |
| Category | Percentage | Iodosulfuron | Fenoxaprop | Prosulfocarb | Imazethapyr | Pyroxsulam |
| S | 0-15 | 0-0.97 | 0-10 | 0-120 | 0-10 | 0-2.25 |
| sr | 15-30 | 0.97-1.95 | 10-20 | 120-360 | 10-21 | 2.25-4.5 |
| r | 30-50 | 1.95-3.25 | 20-35 | 360-600 | 21-35 | 4.5-7.5 |
| R | 50-80 | 3.25-5.2 | 35-55 | 600-960 | 35-57 | 7.5-12 |
| RR | 80-100 | 5.2-6.5 | 55-69 | 960-1200 | 57-71.5 | 12-15 |
| RRR | >100 | >6.5 | >69 | >1200 | >71.5 | >15 |

\*Imazethapyr is not allowed in Denmark.