**Effect of Water Stress on Weed Germination, Growth Characteristics, and Seed Production: A Global Meta-Analysis**

**Supplementary Table S1.** Number of studies conducted per individual weed species, country, water status metric, weed family, and the medium used for inducing water stress.

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| --- | --- | --- | --- | --- |
| **Weed species** | **No. of studies** |  | **Family** | **No. of studies** |
| 1. hemp sesbania | 4 |  | 1. Poaceae | 24 |
| 1. junglerice | 3 |  | 1. Asteraceae | 22 |
| 1. redroot pigweed | 3 |  | 1. Fabaceae | 9 |
| 1. Canada thistle | 1 |  | 1. Convolvulaceae | 5 |
| 1. crowfootgrass | 2 |  | 1. Amaranthaceae | 4 |
| 1. green foxtail | 2 |  | 1. Rubiaceae | 4 |
| 1. hoary cress | 2 |  | 1. Boraginaceae | 3 |
| 1. itchgrass | 2 |  | 1. Solanaceae | 3 |
| 1. ivyleaf morningglory | 2 |  | 1. Brassicaceae | 2 |
| 1. pitted morningglory | 2 |  | 1. Chenopodiaceae | 2 |
| 1. ragweed parthenium | 2 |  | 1. Euphorbiaceae | 2 |
| 1. slender amaranth | 2 |  | 1. Malvaceae | 2 |
| 1. tall morningglory | 2 |  | 1. Aizoaceae | 1 |
| 1. All others | 1 |  | 1. Apocynaceae | 1 |
|  | |  | 1. Asclepiadaceae | 1 |
| **Country** |  |  | 1. Commelinaceae | 1 |
| 1. USA | 31 |  | 1. Cucurbitaceae | 1 |
| 1. Australia | 21 |  | 1. Lamiaceae | 1 |
| 1. Philippines | 16 |  | 1. Melastomataceae | 1 |
| 1. China | 6 |  | 1. Onagraceae | 1 |
| 1. Canada | 5 |  | 1. Polygonaceae | 1 |
| 1. Iran | 4 |  | 1. Sapindaceae | 1 |
| 1. UK | 1 |  | 1. Sterculiaceae | 1 |
| 1. Greece | 1 |  | 1. Tiliaceae | 1 |
| 1. Denmark | 1 |  |  |  |
|  | |  | **Medium for water stress** |  |
| **Water status metric** |  |  | 1. Polyethylene glycol (PEG) | 65 |
| 1. Solution osmotic potential *(ψsolution*) | 68 |  | 1. Soil | 17 |
| 1. Soil moisture (% field capacity) | 11 |  | 1. Mannitol | 2 |
| 1. Soil water potential (*ψsoil*) | 6 |  | 1. Mannitol & soil | 1 |
| 1. *ψsolution* and *ψsoil* | 1 |  | 1. PEG & soil | 1 |