

Supplementary S1 Meta-analysis search terms

Subject terms: drought stress, re-hydration, yield

Free terms: “drought stresses” OR “draught stress” OR “Drought resistant” OR “water stress” OR “moisture stress” OR “water-stress”, “rehydration” OR “re-hydrating” OR “rehydrate”, “Output” OR “Production” OR “yield” OR “Yields” OR “production output” OR “production capacity” OR “volume of production” OR “productive capacity” OR “production volume” OR “quantity of production”

Supplementary S2 Search formulas for different databases

1. Web of Science:

((TS= ("drought stress" OR "drought stresses" OR "draught stress" OR "Drought resistant" OR "water stress" OR "moisture stress" OR "water-stress")) AND TS= ("re-hydration" OR "rehydration" OR "re-hydrating" OR "rehydrate")) AND TS= ("Output" OR "Production" OR "yield" OR "Yields" OR "production output" OR "production capacity" OR "volume of production" OR "productive capacity" OR "production volume" OR "quantity of production"))

2. PubMed:

("drought stress" [Title/Abstract] OR "drought stresses" [Title/Abstract] OR "draught stress" [Title/Abstract] OR "Drought resistant" [Title/Abstract] OR "water-stress"[Title/Abstract] OR "moisture stress" [Title/Abstract] OR "water-stress" [Title/Abstract]) AND ("re-hydration" [Title/Abstract] OR "rehydration" [Title/Abstract] OR "re-hydrating" [Title/Abstract] OR "rehydrate" [Title/Abstract]) AND ("Output" [Title/Abstract] OR "Production" [Title/Abstract] OR "yield" [Title/Abstract] OR "Yields" [Title/Abstract] OR "production output" [Title/Abstract] OR "production capacity" [Title/Abstract] OR "productive capacity" [Title/Abstract] OR "production volume"[Title/Abstract]))

3. ScienceDirect:

("drought stress" OR "draught stress" OR "drought" OR "water stress" OR "moisture stress") AND ("rehydration" OR "re-hydrating" OR "rehydrate") AND "yield")

4. CNKI

("drought stress" + "water stress" + "drought" + "drought resistant" * "rehydration" + "re-hydrating" + "rehydrate" * "yield")

5. Wanfang Database

(Title/keywords: ("drought stress" OR "water stress" OR "drought" OR "drought resistant") and Title/keywords: ("rehydration" OR "re-hydrating" OR "rehydrate") and Title/keywords: ("yield"))

6. China Science and Technology Journal Database

(((((Title/keywords = "drought stress" OR Title/keywords = "water stress") OR Title/keywords = "drought") OR Title/keywords = "drought resistant") AND ((Title/keywords = "rehydration" OR Title/keywords = "re-hydrating") OR Title/keywords = "rehydrate")) AND Title/keywords = "yield"))

Supplementary S3 List of papers used for Meta-analysis data extraction

1. Yan, Yongluan, Weiping Hao, Xurong Mei, Qingjun Bai, and Lin Liu. "Effects of Water Stress Rewatering at Jointing Stage on Dry Matter Accumulation and Wue of Winter Wheat." *Chinese Journal of Agrometeorology* 32, no. 2 (2011): 190-95+202.
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