**Supplementary figure captions**

**Supplementary Figure 1.** Yield dispersion from the mean throughout the evaluated years of release for database 1, 2 and 3. Wheat yield deviation in kg ha\(^{-1}\) (a), double-crop soybean yield deviation in kg ha\(^{-1}\) (b), and full-season soybean yield deviation in kg ha\(^{-1}\) (C).

**Supplementary Figure 2.** Relative (to until 1989) soybean yield (%) to relative (to until 1989) wheat yield. Effect of year the study was conducted of DC soybean yields to older studies and wheat yields to older studies for database 2.

**Supplementary Figure 1.** Yield dispersion from the mean throughout the evaluated years of release for database 1, 2 and 3. Wheat yield deviation in kg ha\(^{-1}\) (a), double-crop soybean yield deviation in kg ha\(^{-1}\) (b), and full-season soybean yield deviation in kg ha\(^{-1}\) (C).

**Supplementary Figure 2.** Relative (to until 1989) soybean yield (%) to relative (to until 1989) wheat yield. Effect of year the study was conducted of DC soybean yields to older studies and wheat yields to older studies for database 2.