



Figure S1. Effects of treatments on harvest ear of spring maize at Changwu and Yangling in 2021–2022. CK, PFM, BFM, PEM+BN, PFM+ST indicate bare land, transparent plastic film mulching, black plastic film mulching, double mulching of PFM with black polyethylene net, and double mulching of PFM with straw, respectively. Black dots represent replicates for each treatment ($n = 3$). Different lowercase letters indicate significant differences when $p < 0.05$.