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**Description:** Drought stress is a major constraint affecting maize (*Zea mays* L.) productivity and yield stability in tropical environments. Maize hybrids evaluation for grain yield under irrigated and water-deficit conditions, integrating tolerance indices and GGE biplot analysis to identify the stable and high-yielding genotypes, was carried out at the Jombang, East Java, Indonesia. Hybrids experienced a 42.4% yield reduction under drought stress compared to irrigated conditions, emphasizing the importance of selecting drought-tolerant maize genotypes. Several selection approaches effectively identified the drought-tolerant genotypes with consistent performance across the environments. Based on the tolerance indices, the drought-tolerant hybrids G05 (R0641), G03 (R0211), and G08 (R0020) performed better. Information regarding yield stability and drought tolerance in maize using selection indices and GGE biplot analysis can be found in the research manuscript of Bimantara *et al.* (2026). Bimantara YM, Suwarno WB, Sobir S, Maharijaya A (2026). Yield stability in maize (*Zea mays* L.) using GGE biplot and selection indices under irrigated and drought-stress conditions. *SABRAO J. Breed. Genet.* 58 (2) 643-654. <http://doi.org/10.54910/sabrao2026.58.2.15>.

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