

Methodological Gaps in Food Security Forecasting Literature

Balashankar et al. (2023)	<div><div></div><div>No (Absent)</div></div>	<div><div></div><div>No (Absent)</div></div>	<div><div></div><div>No (Absent)</div></div>	<div><div></div><div>~ Partial</div></div>	<div><div></div><div>No (Absent)</div></div>
Busker et al. (2024)	<div><div></div><div>~ Partial</div></div>	<div><div></div><div>~ Partial</div></div>	<div><div></div><div>No (Absent)</div></div>	<div><div></div><div>Yes (Complete)</div></div>	<div><div></div><div>No (Absent)</div></div>
Nature Comm. (2024)	<div><div></div><div>~ Partial</div></div>	<div><div></div><div>~ Partial</div></div>	<div><div></div><div>No (Absent)</div></div>	<div><div></div><div>No (Absent)</div></div>	<div><div></div><div>No (Absent)</div></div>
Lentz et al. (2019)	<div><div></div><div>No (Absent)</div></div>	<div><div></div><div>No (Absent)</div></div>	<div><div></div><div>No (Absent)</div></div>	<div><div></div><div>No (Absent)</div></div>	<div><div></div><div>No (Absent)</div></div>
This Work (2026)	<div><div></div><div>Yes (Complete)</div></div>	<div><div></div><div>Yes (Complete)</div></div>	<div><div></div><div>Yes (Complete)</div></div>	<div><div></div><div>Yes (Complete)</div></div>	<div><div></div><div>Yes (Complete)</div></div>
	AR Baseline (Lt + Ls)	Spatial CV	Two-Stage Cascade	Interpretability Analysis	Dynamic Features

AGENT-VERIFIED from full methodology sections (34 web searches, 10 full-text fetches):
AR Baseline (Lt + Ls): Balashankar used RF with traditional factors (no AR-only), Busker used persistence (no Ls), Nature Comm used ARIMA (no Ls), Lentz compared vs IPC ratings (no AR). NONE used Lt + Ls.
Spatial CV: All used temporal validation (Balashankar: temporal folds, Busker/Nature: walk-forward, Lentz: 2010-2013). NO spatial blocking or leave-one-region-out found.
Interpretability: Busker explicitly used SHAP for livelihood-zone heterogeneity. Others: limited or unclear.
Dynamic Features: NONE used HMM or DMD.

Sources: Science Advances PMC, Earth's Future, Nature Comm, ScienceDirect, ResearchGate (Jan 4, 2026)