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Precision Agriculture Techniques in Maize Farming: An Ethnographic Study of Adoption and Yield Impact in Northern Ethiopia,

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Abstract

Precision agriculture techniques have been introduced to improve maize farming yields in northern Ethiopia's agricultural sector. The study employed ethnographic research methods to understand farmer perceptions, decision-making processes, and challenges in adopting these technologies. Precision agriculture techniques led to a 15% increase in maize yields among participating farmers. Farmers demonstrated significant interest in precision farming tools but faced initial resistance due to cost and unfamiliarity with technology. Government support for training programmes and infrastructure development is recommended to facilitate wider adoption of these techniques. Precision Agriculture, Maize Farming, Farmers Adoption, Yield Improvement

Keywords: *African Geography, Precision Agriculture, Qualitative Research, Farming Systems, Farmer Practices, Rural Development, Community Engagement*

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