

United States Department of Agriculture
Project Initiation

Project Data for Accession Number 1032672

Project Title

Improving Forest Management Through Automated Measurement of Tree Geometry

Project Details

Sponsoring Institution National Institute of Food and Agriculture	Project Status ACTIVE
Funding Source NIFA Non Formula	Grant Year 2024
Grant No. 2024-67021-42879	Cumulative Award Amt. \$598,947.00
Proposal No. 2023-11367	Multistate No. (N/A)
Project Start Date Aug 01, 2024	Project End Date Jul 31, 2028
Program Code [A1521] Agricultural Engineering	

Project Director

Hardiman, B.

Recipient Organization

PURDUE UNIVERSITY
2550 NORTHWESTERN AVE # 1100
West Lafayette, INDIANA 479061332

Performing Department

(N/A)

Non Technical Summary

Animal Health Component

Animal Health Component: 0%

Research Effort Categories

Basic	20%
Applied	20%
Developmental	60%

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Classification

Knowledge Area (KA)	Subject of Investigation (SOI)	Field of Science (FOS)	Percent
123	7210	2020	100%

Knowledge Area

[123] Management and Sustainability of Forest Resources

Subject Of Investigation

[7210] Remote sensing equipment and technology

Field Of Science

[2020] Engineering

Keywords

Forestry, LiDAR, Deep Learning, 3D Reconstruction, Digital Twinning, Instrument Integration

Goals / Objectives

Project Methods