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Title: Analysis and Comparison of Single Period Single Level and Bilevel Programming Representations of a Pre-existing Timberlands Supply Chain with A New Biorefinery Facility

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Highlights

- Economic analysis of new biorefineries in an established timberlands system
- Game theoretic modeling approach for a supply allocation problem
- Bilevel modeling to represent harvester and manufacturer interactions
- Behavior comparison between bilevel and single level decision making models
- Implications of making different assumptions on the problem structure

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