Science Societies

Bioenergy Cropping on Marginal Lands

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Bioenergy crops present a promising source for biofuel production, offering a potential solution to reduce reliance on fossil fuels. However, they face criticism for potentially encroaching on arable land essential for food production. To address this issue, there is a growing focus on utilizing marginal lands for growing bioenergy crops, which are

less suitable for crop production. In this episode, Dileepa Jayawardena, a Research Associate at The Great Lakes Bioenergy Research Center, Michigan State University, sheds light on his research aimed at finding suitable bioenergy cropping systems for marginal lands in Michigan and Wisconsin.

Self-Study CEU Quiz

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1. **The first-generation bioenergy crops are _____.**
   a. Corn.
   b. Soybean.
   c. Both a and b.
   d. None of the above.

2. **The source of biofuel from corn is**
   a. cellulose.
   b. lignin.
   c. starch.
   d. hemicellulose.

3. **The source of biofuel from second-generation bioenergy crops is**

a. cellulose.
b. lignin.
c. hemicellulose.
d. All of the above.

4. **Which of the following was NOT listed as a reason for lower Miscanthus biomass production in Wisconsin?**
   a. High soil moisture in both Northern and Central sites.
   b. Low wintertime temperature in the Northern site.
   c. Low snow cover in the Central site.
   d. Low soil moisture in both Northern and Central sites.

5. **Switchgrass performed well in all the experimental sites.**
   a. True.
   b. False.

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