

NJRCCT SAMPLE PERFORMANCE ASSESSMENT TASK (PAT)

The performance assessment task (PAT) on pages 8–12 is a sample of the type included in the NJRCCT. Following the PAT, on pages 13–19, are sample student responses and their scores to help you understand how the response was scored.

Fueling Change

CropCorp is a new corporation with the mission of developing new **biofuels**¹. You have been hired as a consultant to manage its newly acquired farm. You must decide which crop will most efficiently transform sunlight into a product that can be used to make a **biofuel**. You want to choose a crop that will make the most efficient use of space and resources (land, fertilizer, money).

The farm you are planning for is located in central New Jersey, where the soil is a mix of sand, clay, and organic material with some stone and gravel. The land is flat with a 2-acre pond and 100 acres of forest that can be used for logging. One acre of land is approximately the size of a football field.

All alternative fuel decisions have environmental and economic costs that must be considered. CropCorp would like you to recommend which crop, corn or **witchgrass**², should be planted on the new farm.



¹ **Biofuels** – any fuels that are obtained from a renewable biological resource

² **witchgrass** – native prairie grass that can be grown in abundance in the United States

Njbct Sample Performance Assessment Task

Patrick Vollmar



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