

CWSF 2009 - Winnipeg, Manitoba



Maxwell Poole

Can Thermal Energy in the Composting Process Heat an Alternate Water Source?

Division: Engineering & Computing Sciences / Environmental Innovation

Category: Junior

Region: Tri-County

City: Yarmouth, NS

School: Maple Grove Education Centre

Abstract: The project tested whether the thermal energy in the composting process could be used to heat an alternate water source. Utilizing an apparatus called a Natural Convection Compost Heat Extractor (a bucket, copper tubing and water) and a six-month-old compost pile the thermal energy from the compost heated the water in the bucket from 2° C to 34.5° C in less than three days.

Biography

Maxwell Poole is 13 years of age and resides in Chebogue, Yarmouth County, NS. He attends Maple Grove Education Center as a grade 8 student. He is presently a member of the Senior and Stage Bands of Maple Grove Education Center as well as a member of the Junior Boys Track and Field team. His hobbies are competitive swimming, piano, guitar, trumpet, drums, and computer work. Maxwell is currently a member of the Yarmouth Y Whitecaps swim team with aspirations of some time swimming for his province and country. He volunteers at various community sports oriented events. Max enjoys competition and challenging himself against various technologies and other competitors. Max spends much of his time with his family traveling the maritimes for his and his brother's sporting events.