

A comprehensive database of poplar research in North America from 1980 – 2010

David R. Coyle¹, Jill. A. Zalesny^{1,2}, and Ronald S. Zalesny, Jr.¹

¹ *U.S. Forest Service, Northern Research Station, Institute for Applied Ecosystem Studies,
Rhineland, USA*

² *Wisconsin Department of Natural Resources, Bureau of Remediation and Redevelopment,
Rhineland, USA*

Short rotation woody crops such as *Populus* species and hybrids (hereafter referred to as poplars) are renewable energy feedstocks that can potentially be used to offset electricity generation and natural gas use in many temperate regions. Highly productive poplars grown primarily on marginal agricultural sites are an important component of the future North American energy strategy. Additionally, poplars can be strategically placed in the landscape to conserve soil and water, recycle nutrients, and sequester carbon. These purpose-grown trees are vital to reducing our dependence on nonrenewable and foreign sources of energy used for heat and power. Establishing poplar genotypes that are adapted to local environmental conditions substantially increases establishment success and productivity. In the past 30 years, there has been exponential increase in the amount of research on poplars. This research primarily falls into six general categories: genetics, growth and productivity, insects and diseases, physiology, phytotechnologies, and silviculture. We constructed a comprehensive, annotated database of peer-reviewed literature, dating back to 1980, and compiled these papers into one readily-accessible cd-rom. The database will also be available online, with specific details to be released at the conference. All papers are listed within and cross-listed between the six categories, greatly improving the ease of literature searching and use with regards to poplar research. We will make this cd free and available at the meeting, and will have copies for distribution.

Keywords: Poplar research database, Short Rotation, Biomass production

Coyle, David R., United States Department of Agriculture - USDA Forest Service, 345 Russell Labs, 1630 Linden Dr. Madison, WI 53706, USA, Tel: +1 608-262-4755, Fax: +1 608-262-3322, e-mail: drc Doyle@wisc.edu



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