

Biomass Conversion Technologies: Heat, Electricity, and Liquid Fuels Panel

Woody Biomass and Small Log Workshop

Weed, CA

September 19, 2007

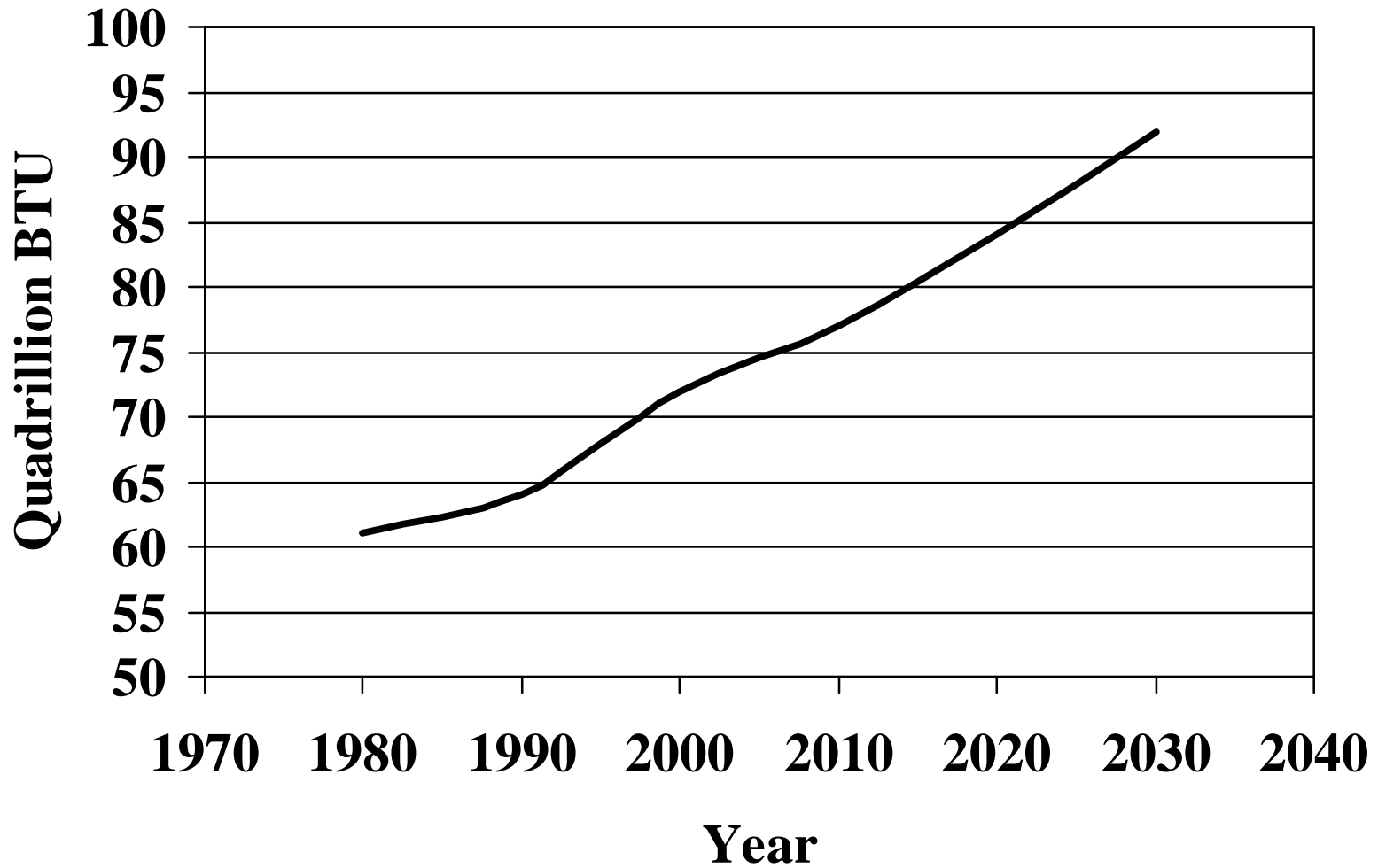
John R. Shelly, UC Berkeley – moderator

Rob Williams, UC Davis

Tad Mason, TSS Consultants

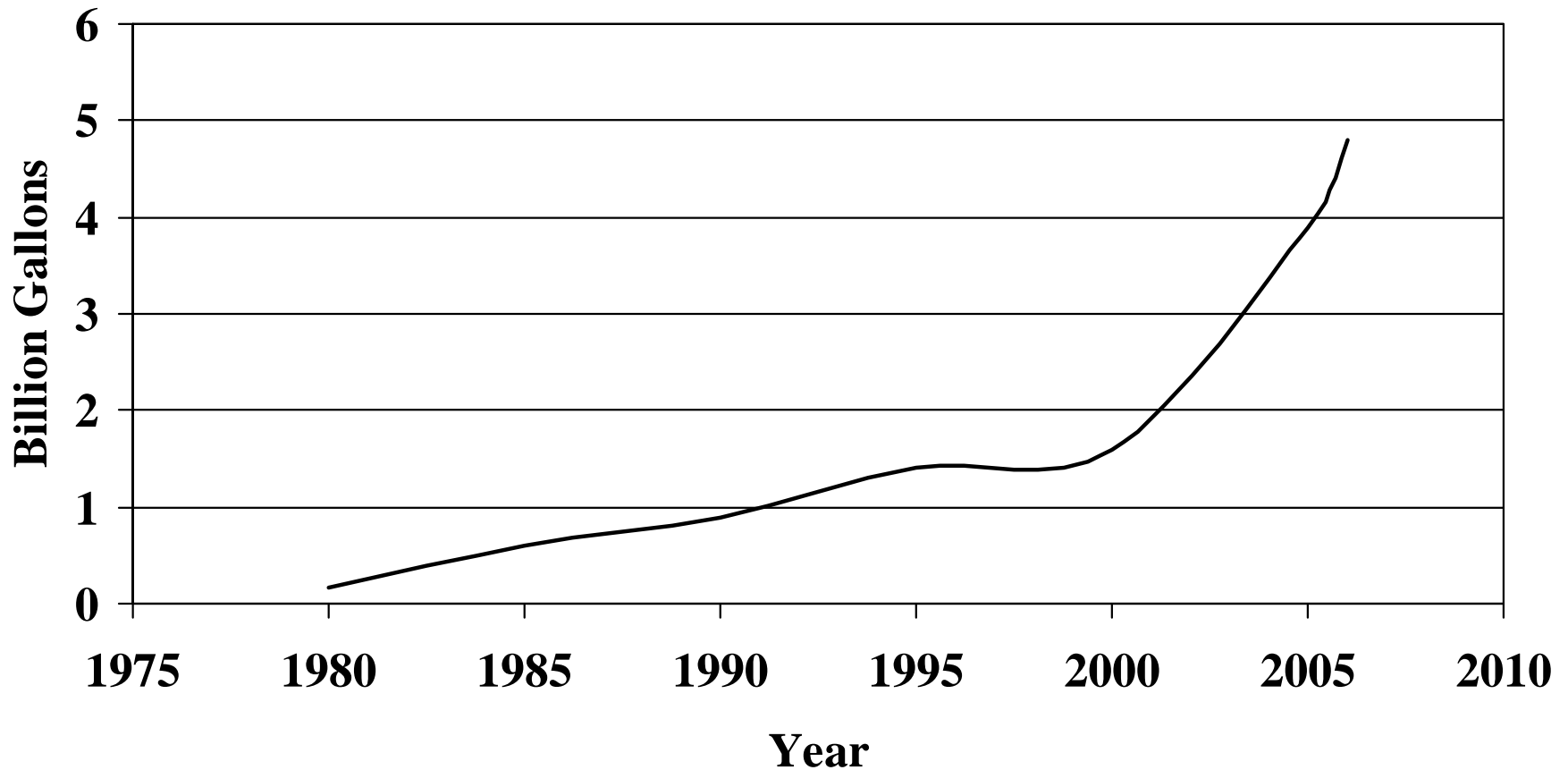
Bryan Jenkins, UC Davis

US Energy Demand



Source: Energy Information Administration: Annual Energy Outlook 2007

US Transportation Fuel Demand



Source: Renewable Fuels Association 2007

What Role Will Biomass Play in
Helping Meet the Ever-Growing
Demand for Energy?

Conversion Pathways

Combustion

Heat
Electricity

Biochemical

- Anaerobic digestion
- Hydrolysis/Fermentation

Alcohol
Other organic chemicals

Thermochemical

- Pyrolysis
- Gasification

Heat
Electricity
Bio-diesel
Alcohol
Other organic chemicals

Life Cycle Inventory Analysis

