

Manufacturing
...more

THAN YOU MIGHT THINK

Montana
Manufacturing Center



www.mtmanufacturingcenter.com

An MSU College of Engineering Center

Helping Companies Be More Successful



The Montana Manufacturing Center
A statewide manufacturing
outreach program through the
MSU College of Engineering.



Eight engineers around the state
work with manufacturers
to help them be more successful.

- MMEC is a partner in the national program - NIST Manufacturing Extension Program with access to engineering and technical resources in all 50 states.

MMEC

*Our people are
our Strength*

- Experienced
- Informed
- Involved

FIELD ENGINEER LOCATIONS



Bill Nicholson
Kalispell
(406) 756-8329



Paddy Fleming
MilTech
(406) 756-0207



Todd Daniels
Helena
(406) 841-2745



Jim Haider,
WIRED
(406) 841-2745



Kreg Worrest
Missoula
(406) 243-6613



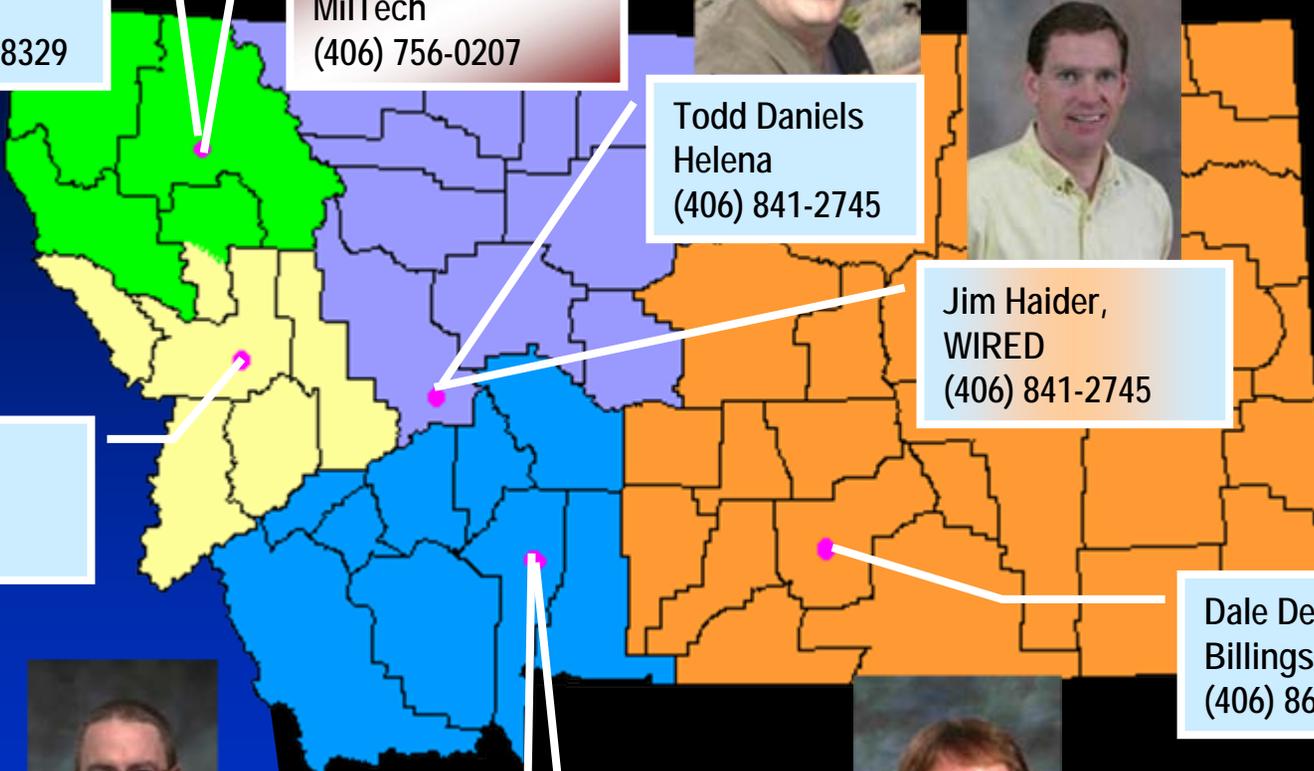
Dale Detrick
Billings
(406) 869-8414



Al Deibert
MilTech
(406) 994-7732



Mark Shyne
Bozeman
(406) 994-3813



800-MEP-4MFG (800 637-4634)

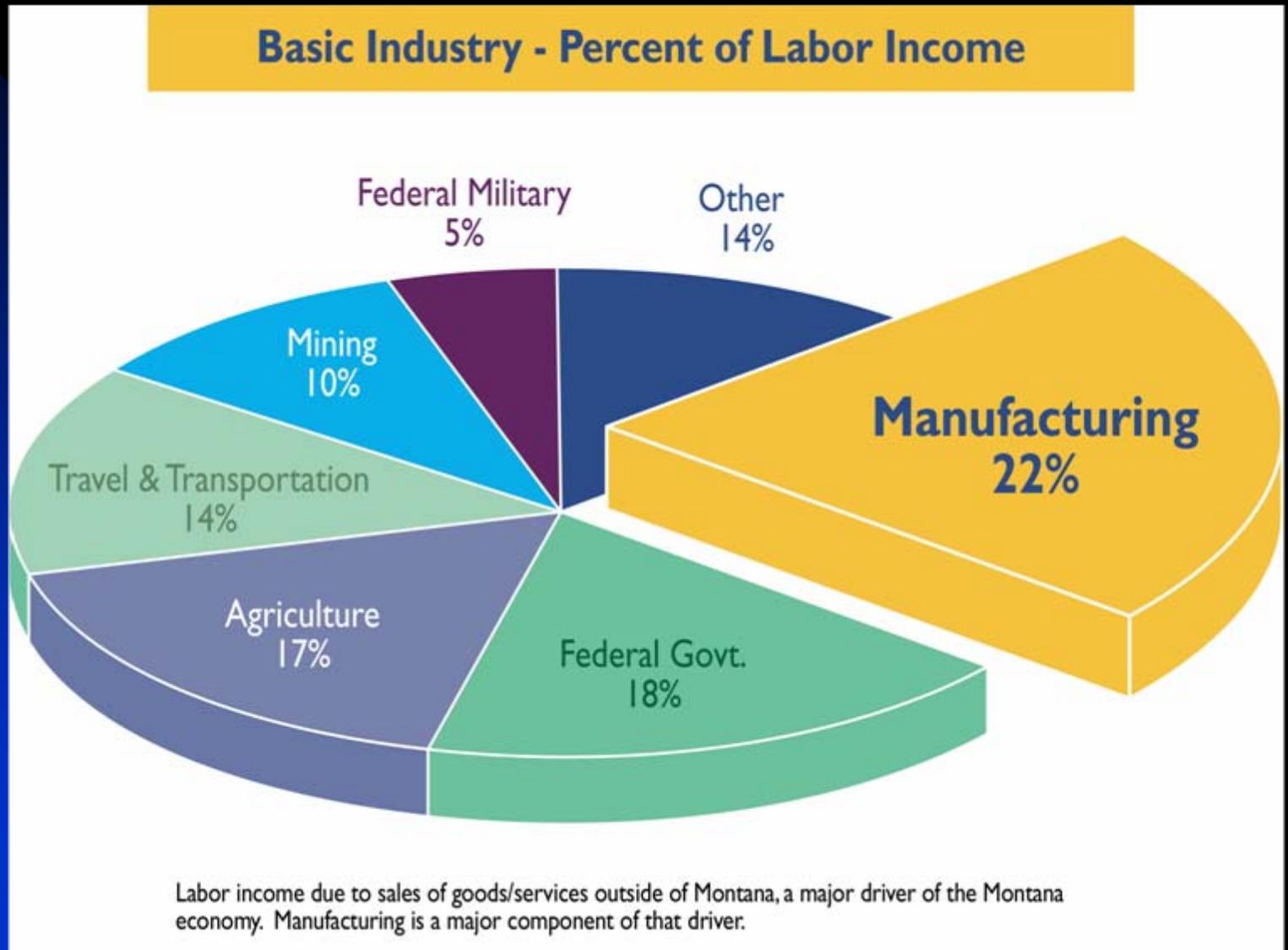
Manufacturing in Montana

- Over 3,100 Manufacturers
- \$8 Billion per year in Output
- 23,000+ Employees
- Earning \$36,900/year

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MSU College of Engineering Center

An Important Basic Industry in Montana



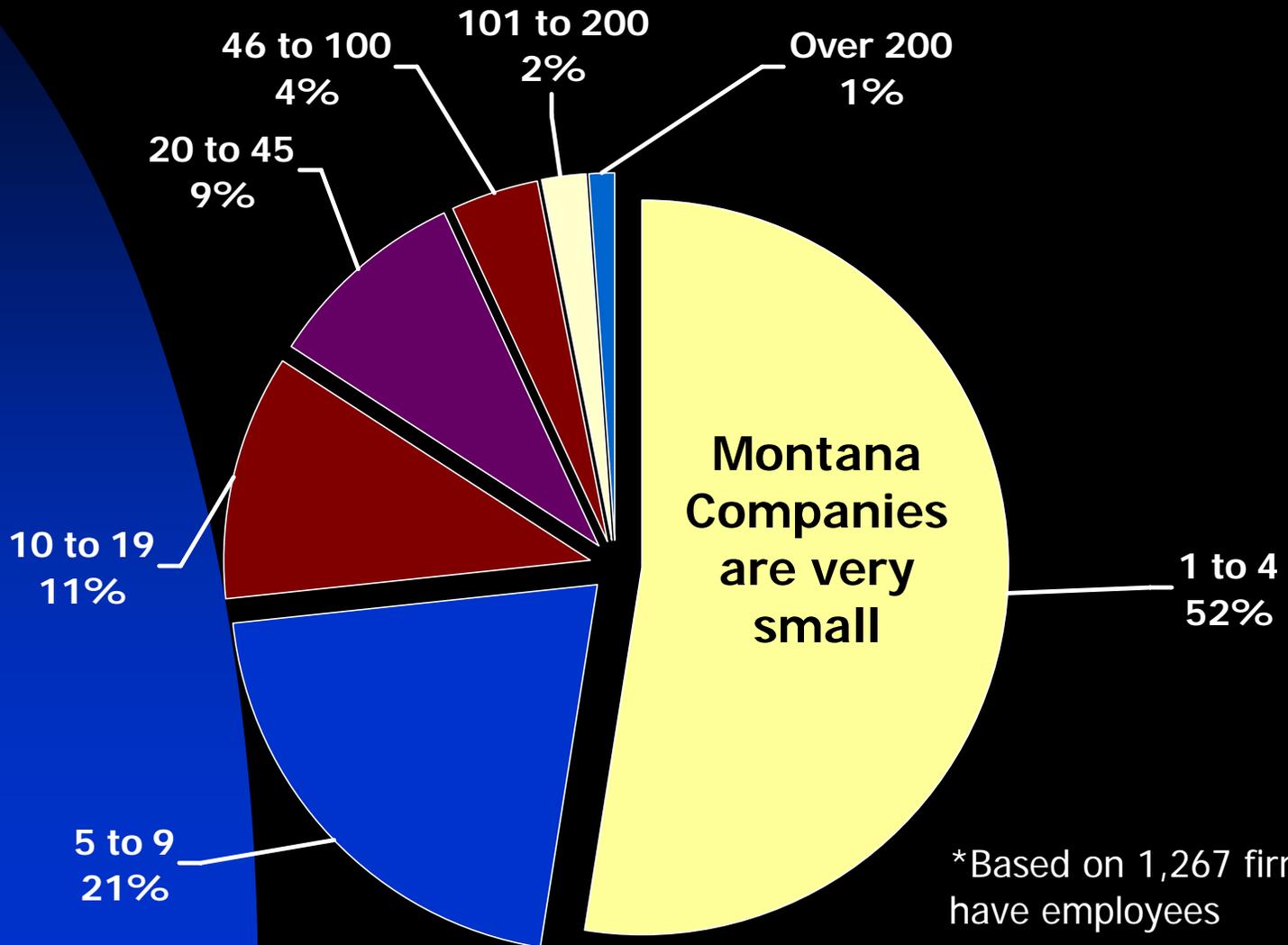
FY 2005 - 2006

As a result of direct MMEC services, clients reported:

- Business Impact: \$88.8 million
- Increased/Retained Sales: \$81 million
- Cost Savings:
- Increased Capital Investment: \$ 7.9 million
- Manufacturing Jobs Created: 169
- Manufacturing Jobs Retained: 150

**From independent survey & analysis approved by the National Institute of Standards & Technology (NIST)*

Montana Company Size Number of Employees*



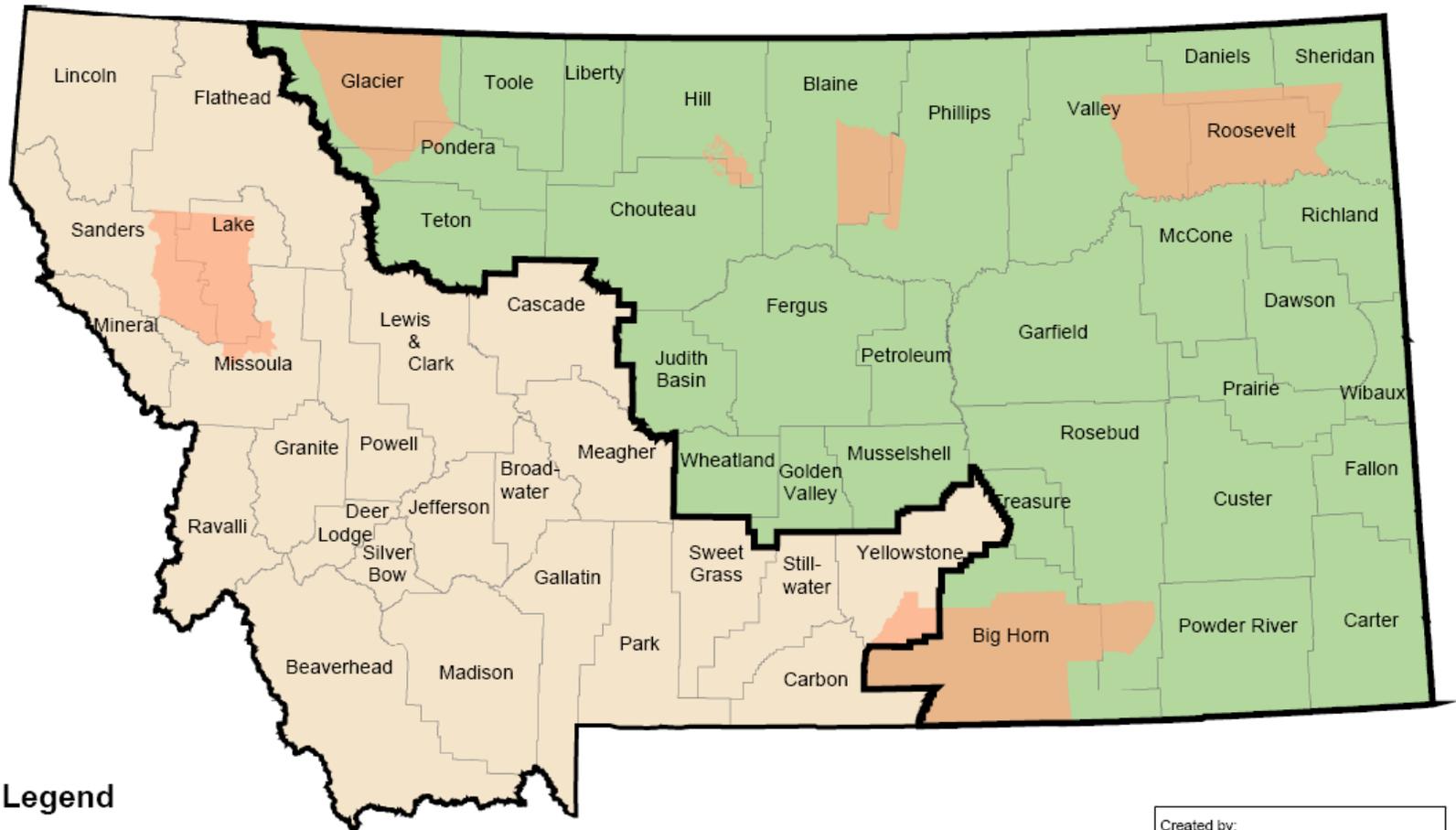
The WIRED Initiative

- WIRED means Workforce Innovation in Regional Economic Development
- The WIRED Initiative, launched in November 2005, stresses the critical role talent development plays in creating effective regional economic development strategies.

The WIRED Grant

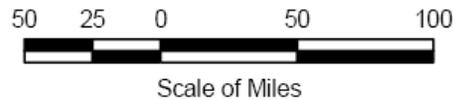
- In February 2006, ETA (Education and Training Administration) announced 13 regions that comprise the WIRED 1st Generation.
- Montana was one of those regions
- First Generation WIRED Regions were awarded \$15 million over three years to revitalize their local economy.

Workforce Innovation and Regional Economic Development - WIRED -



Legend

- WIRED Region
- Balance of the State
- Indian Reservation



Created by:
Census & Economic Information Center
Montana Department of Commerce
301 S. Park Ave, Helena MT 59620-0505
Phone: 406-841-2740, Email: ceic@mt.gov
Internet: <http://ceic.mt.gov>

Montana's WIRED Goals

- Four primary goals have been identified. These goals have also been broken down into specific strategies and activities.
- Target Industries: Energy (biofuels); Manufacturing; Value-Added Agriculture

Montana's WIRED Goals

- 1. Develop a world-class bio-products industry** that catalyzes regional economic transformation from an agricultural commodity driven economy to a value added economy that supports regional prosperity in Eastern and Central Montana.
- 2. Develop a highly trained and stable/growing workforce** to support bio-products and other value-added agricultural products.
- 3. Create an agile, integrated talent development system** (workforce, education and economic development) that will prepare state residents to act quickly to take advantage of new economic opportunities and be responsive to business needs.
- 4. Create an inclusive and sustainable regional identity** and leadership structure that will promote innovation and ensure the long-term success of the transformational initiative.

The MMEC Role

One of the current objectives of the DOC is to successfully administer WIRED funds to qualified Montana manufacturers in an effort to diversify and increase the economic base in the region

The MMEC is working cooperatively with the DOC to help accomplish this objective

My (Jim Haider's) role is to:

- Identify qualified manufacturers in the WIRED region
- Work with identified manufacturers to submit applications for the WIRED program
- Develop and deliver general and customized new and incumbent worker training to companies in the region
- Identify and source knowledgeable, professional third-party providers for training purposes
- Work with the WIRED partners to build client driven training partnerships

Summary of Current Services Offered By MMEC

Business Management Systems

- Ratio Analysis
- Product Costing
- Break-Even Analysis
- Equipment / Process Justification
- Manufacturing Software Selection
- Performance Tracking Systems
- Feasibility Analysis

Summary of Current Services Offered By MMEC

Lean Enterprises / Process Improvements

- Public / Customized Lean Training
- Value Stream Mapping Analysis
- Cycle Time Reduction
- Plant Layout
- 5S Program
- Labor Resource Planning
- Inventory Control Systems

Summary of Current Services Offered By MMEC

Quality Systems

- Quality Systems Gap Assessment
- Training
- Implementation of Quality Systems
- Statistical Process Control
- Registration Compliance Assistance
 - ISO 9001:2000
 - ISO 14001:2004
 - BQ 9000

Objectives of BQ-9000

- To promote the commercial success and public acceptance of biodiesel
- To help ensure that biodiesel fuel is produced to and maintained at the industry standard, ASTM D 6751

Who and What are Accredited

Two accreditations possible for companies:

- BQ-9000 Accredited Producer
- BQ-9000 Certified Marketer

BQ-9000 accredits companies, not fuel

- There is no such thing as 'BQ-9000 Biodiesel'
- BQ-9000 does, however, help ensure that biodiesel produced and sold will meet D 6751

Accredited Producer Focus

To outline a system for monitoring the production of biodiesel to the ASTM D 6751 specification

- Sampling
- Testing
- Storage
- Retain Samples
- Shipping

Certified Marketers Focus

To outline a system for the handling and distribution of biodiesel that maintains the fuel properties at the ASTM D 6751 specification

- Sampling
- Testing
- Storage
- Retain Samples
- Blending
- Shipping

Benefits of BQ-9000

- Provides the biodiesel users (individuals, fleets, government agencies, etc.) with a feeling of confidence
- Provides engine and vehicle companies with a feeling of confidence which is critical in the developing stages of this industry
- Improved consistency saves biodiesel producers and marketers time and money by minimizing problems with out of specification fuel
- Your competitive position within the industry is strengthened as you gain a market advantage through recognition of quality

Questions?

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WIRED Project
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Thank You