



NORTHWEST IOWA
Developers Coalition

"Charting A Course For Success"

Woody Grabenbauer
Northwest Iowa Economic Developers Coalition
c/o NCC Business & Industry Center
603 West Park Street
Sheldon, Iowa 51201-1056
800-352-4907

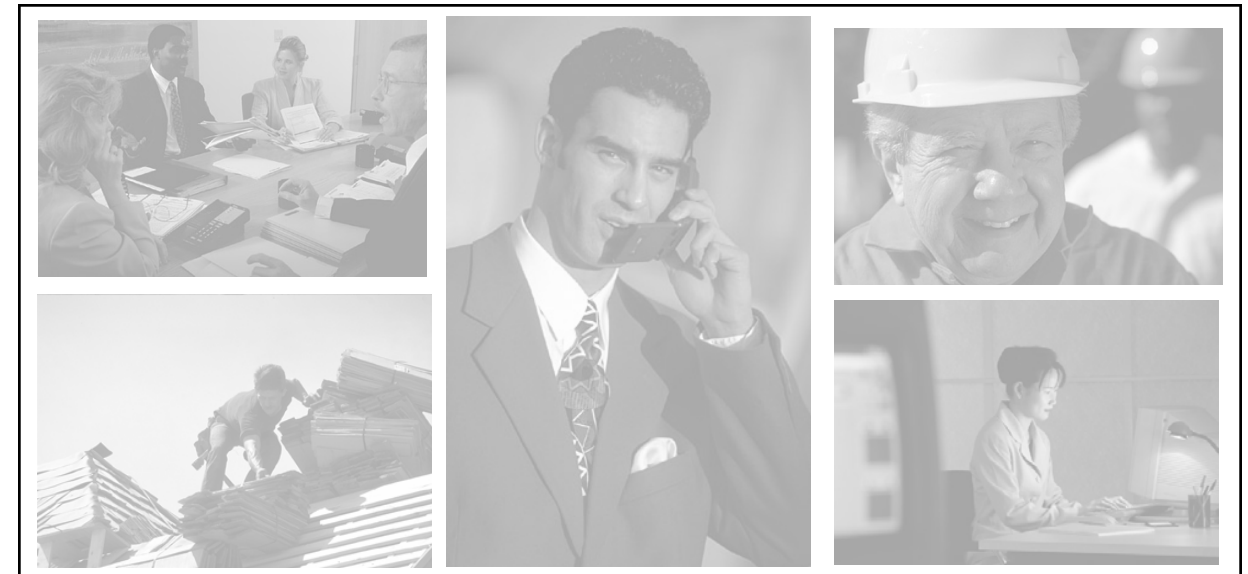
Publication of Iowa Workforce Development. For more information about this publication, Contact:
Iowa Workforce Development, Policy & Information Division
1000 E Grand Avenue, Des Moines, IA 50319
Phone: (515) 281-8515; www.iowaworkforce.org

An Equal Opportunity Employer/Program
Auxiliary aids and services are available upon request for individuals with disabilities



Regional
Industry Cluster Overview
Chemical Production

2005



NORTHWEST IOWA
Developers Coalition

"Charting A Course For Success"

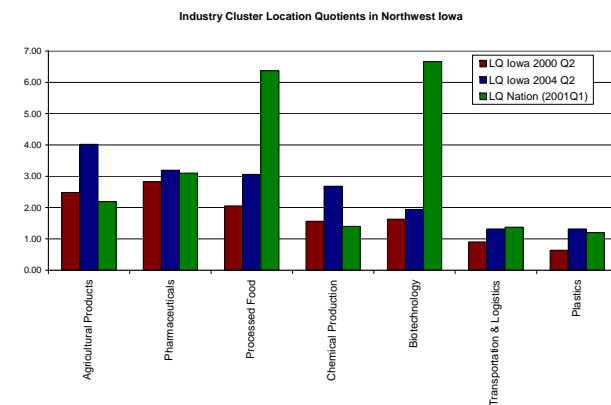
Chemical Production Industry Cluster

WHAT IS AN INDUSTRY CLUSTER?

Industry clusters are a group of concentrated industries that share similar processes, workforce, and resources. Armed with knowledge of where geographic concentrations and gaps exist, policy can support clusters and help foster their growth in a variety of ways. Investments for research and infrastructure can be more precisely targeted; new cooperative relationships can be brokered between firms within "core" industry sectors as well as with region suppliers and customers. Occupations within key industries can be identified, and education and training institutions can use this information to counsel and train students for high-demand, high-wage careers.

Chemical Production Competitiveness

Chemical Production has very high location quotients in Northwest Iowa, along with complimentary industries such as agriculture and pharmaceuticals.

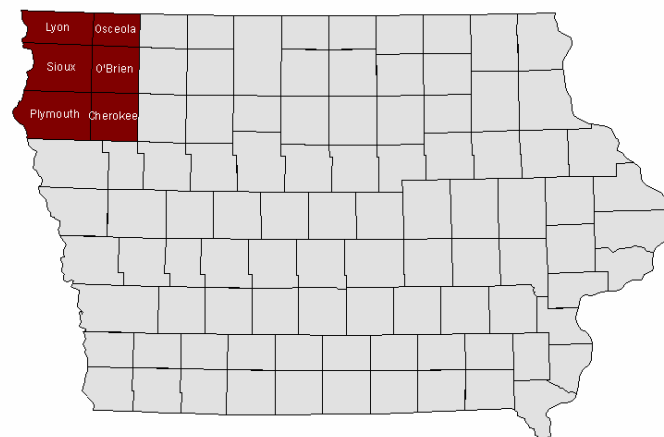


WHAT IS CHEMICAL PRODUCTION?

Chemical Production may be described as the transformation of organic and inorganic raw materials by a chemical process and the formulation of products.

- petroleum refineries;
- basic inorganic chemical production;
- basic organic chemical production (including ethanol production); pesticides and other agricultural chemical production;
- pharmaceuticals and medicine manufacturing

Northwest Iowa Region



**2004 2nd Quarter
Regional Average Annual Wage
\$25,829**

**Chemical Production Core
Regional Average Wage
\$42,196**

**Total Regional Employment
45,084**

**Chemical Production
Core Regional Employment
361**

**Chemical Production Support Industries
Regional Employment
4,930**

Northwest Iowa High-Growth, High-Wage Occupations In Chemical Production

OCCUPATIONAL TITLE	2000 ESTIMATED EMPLOYMENT	2010 PROJECTED EMPLOYMENT	TOTAL GROWTH 2000-2010	2004 MEDIAN ANNUAL SALARY
Computer Software Engineers, Systems Software	95	190	95	*
Telemarketers	430	485	55	*
Computer Software Engineers, Applications	45	85	40	*
Network and Computer Systems Administrators	25	50	25	\$35,838
Truck Drivers, Light or Delivery Services	105	125	20	\$25,917
Computer Support Specialists	20	35	15	\$29,474
Chief Executives	45	55	10	\$96,054
General and Operations Managers	50	60	10	\$74,256
Sales Managers	30	40	10	\$62,442
Computer and Information Systems Managers	30	40	10	\$54,642
Computer Programmers	30	40	10	*
Computer Systems Analysts	10	20	10	\$56,784
Forging Machine Setters, Operators, and Tenders, Metal and Plastic	55	65	10	*
Training and Development Specialists	5	10	5	\$36,358
Accountants and Auditors	20	25	5	\$39,541
Network Systems and Data Communications Analysts	10	15	5	*
Agricultural and Food Scientists	0	5	5	\$41,288
Microbiologists	10	15	5	*

Note: The Northwest Region includes Cherokee, Lyon, O'Brien, Osceola, Plymouth, and Sioux Counties. The occupations listed have the highest growth within the industry and that have a higher wage than the regional average of \$25,043. Although the occupations listed above are found in Chemical Production, employment listed is for all industries in Northwest Iowa. The median annual salary is derived from the 2004 Iowa Wage Survey for the 6 county area. Those occupations without an annual salary show high growth but due to the sample from the Occupational Employment Statistics Survey, we are not able to report a wage.

Chemical Production Suppliers

Education

Northwest Iowa Community College, Western Iowa Technical Community College, Dordt College and Northwestern College, located in Northwest Iowa, offer a selection of programs that support the Chemical Production cluster.

Programs

- Animal Science Agri-business
- Agriculture Biology
- Chemistry Plant Science

CHEMICAL PRODUCTION CORE INDUSTRY EMPLOYMENT 2003

