

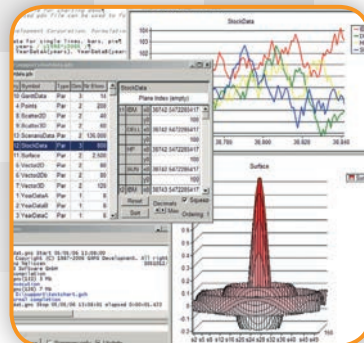
GENERAL ALGEBRAIC MODELING SYSTEM

High-Level Modeling

The General Algebraic Modeling System (GAMS) is a high-level modeling system for mathematical programming problems. GAMS is tailored for complex, large-scale modeling applications, and allows you to build large maintainable models that can be adapted quickly to new situations. Models are fully portable from one computer platform to another.

State-of-the-Art Solvers

GAMS incorporates all major commercial and academic state-of-the-art solution technologies for a broad range of problem types.



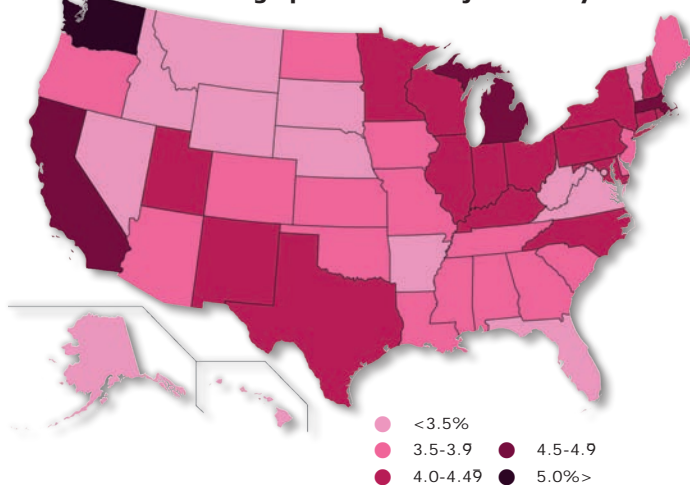
GAMS Integrated Developer Environment for editing, debugging, solving models, and viewing data.

Effects of Proposed Trade Policies on Employment

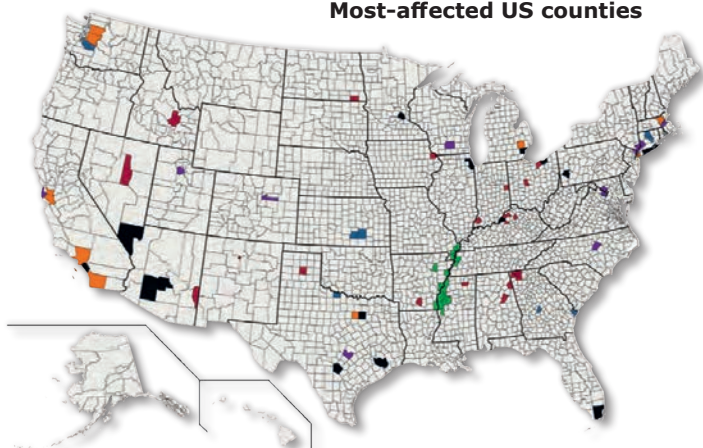
The Peterson Institute for International Economics (PIIE) presented the results of a pre-election analysis of the economic implications of the proposed trade policies of the two presidential candidates: Clinton and Trump. The analysis traces the impacts of major changes in trade policy on macro aggregates: consumption, investment, government expenditure, and international trade. The results indicate that any shock to US international trade has serious effects on employment, including many sectors indirectly linked to exporting industries – when workers lose their jobs, they no longer go to restaurants.



Percentage private sector job loss by state



Most-affected US counties



The modeling framework contained several components, including a GAMS input-output model, a Python module to disaggregate the results to the state and county level, and a GIS platform to display the results.

For further information please visit: <https://goo.gl/2ghNx5>

- High percentage job loss (full trade war scenario)
- High job loss, business services sector (asymmetric trade war scenario)
- High absolute job loss (full trade war scenario)
- High job loss, soybeans sector (asymmetric trade war scenario)
- High job loss, aerospace sector (asymmetric trade war scenario)
- High job loss in specific sector (asymmetric trade war scenario) and either percentage or absolute job loss (full trade war scenario)