

UPDATING ANALYSIS: A LOOK AT REMI v2.3

2019 REMI AMHERST ECONOMIC ANALYSIS
CONFERENCE
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Agenda



- About REMI – Brief
- Primary Data Changes
- Results Variables
- New Policy Variable Inputs
- Software Improvements
- Model Features Demonstration

About REMI



Regional Economic Models, Inc. (REMI) is a World Leader in Economic Policy Modeling

Software

- **REMI PI+ is the industry standard for policy analysis.**
- **Other Customized Models**
 - **TranSight**
 - **Tax-PI**
 - **E3+**

Support

- REMI licenses include unlimited telephone and email technical support.
- REMI users have access to vast resources to enhance their understanding and skill in the model.

Services

- Macroeconomic impact consulting
- Analysis of prominent state and federal legislation
- Led by REMI's team of highly experienced and qualified research economists

Model Changes Overview v.2.3/4.3



Primary Data Changes – Expect some changes to regional profiles & impacts

- **Last history year 2017**
- **Revised forecast**
 - CBO forecast reflects TCJA extension, also reduced international migration outlook
- **Converted real dollar base year from 2009 to 2012.**
 - Comprehensive updates apart of National Income & Product Accounts (NIPA), every five years
 - Incorporates newly available and more comprehensive source data with improved methodologies
- **Incorporated BEA's comprehensive update to Local Area Personal Income 2001-2017.**
 - Fewer suppressions, more complete and more detailed than before

Model Changes Overview v.2.3/4.3



Primary Data Changes Continued

- **Incorporated BEA GDP by county data (2012 – 2015)**
 - GDP data by county for 3 major categories (private goods-producing industries, private services-producing industries, and government and government enterprises, with significant suppressions).
 - There may be some significant shifts in the historical series by industry and county due to the information provided in this new data set.
 - Additional data helps to refine county level estimates
- **Updated trade flow parameters (betas – distance decay and sigmas – responsiveness of demand)**
 - Local Trade Flows Reestimation
 - May result in significant changes to industry trade flows, including RPCs, as well as model responses to changes in industry cost of production, access (distance), and subsequently the “multiplier” effects.

Model Changes Overview v.2.3/4.3



Results Categories – New Economic Result Variables

These variable were previously calculated within the model, but not available or limited display on the result tables:

Age Composition Effect on Consumption

Marginal Income Effect on Consumption

Marginal Price Effect on Consumption

Population Effect on Consumption

Relative Composite Price

Relative Composite Factor Costs

Cost of Production (moving average)

Labor Intensity

Labor Access Index

Commodity Access Index

Domestic Demand

Domestic Supply

Share of Foreign Imports

Share of Foreign Imports

Model Changes Overview v.2.3/4.3



Results Categories – New Demographic Result Variables

Single year of age cohort detail has been added to the following:

Births by Age of Mother

Birth Rates

College Population

Deaths

Military Dependent Population

Economic Migrants

International Migrants

Labor Force

Labor Force Population

Military Population

Population

Prisoner Population

Retired Migrants

Vital Population

Model Changes Overview v.2.3/4.3



Additional Policy Variables – New Profiles

- New and modified policy variables
 - Detailed Industry (Translators) – updated to reflect BEA 2012 Benchmark IO Table
 - Tourism (Translators) – updated to reflect BEA 2016 Tourism Satellite Accounts
 - Labor Productivity option to change Labor Intensity
 - Compensation option for rate change (cost of income) and amount (income only)

Model Changes Overview v.2.3/4.3



Software Improvements – User friendly and highly customizable

- New and modified policy variables
 - ▣ Redesign the Navigation Bar & Results
 - ▣ Impact Profile (Simulation)
 - ▣ Determinative Graphs (Simulation)
 - ▣ Connection Explorer
 - ▣ Favorites Manager
 - ▣ Import Settings
 - ▣ Custom Results
 - ▣ Additional software enhancements & variable descriptions

Model Features Demonstration

PI+ v.2.3