

USAGE-ITC: Empirical Foundations

Dixon, Rimmer, McDonald, Balistreri, McDaniel, Wong, Johnson

USAGE-ITC:

Data-rich Environment

- National input-output, trade data
 - Baseline
 - Interim years
- National parameters
- "Sub-national" data
- Occupational data

National Data

- Benchmark input-output data (1992)
- Interim input-output data (1983-1998)
- Trade data (1983-1998)

Benchmark I-O Data: Bureau of Economic Analysis (BEA)

- 500 sectors (industries and commodities), with joint production and intermediate use.
- Labor, capital, and government value added.
- Household, government, investment final demand.
- Trade flows.

Interim (Historical) I-O Data: Bureau of Labor Statistics (BLS)

- 192 sectors
- "Final demand" in 126 categories used for national accounting forecasts. We aggregate to 3 categories (household, investment, government).
- Value added in only 1 category. Other data used to disaggregate into labor, capital, government.

National Parameters

- Substitution elasticities
 - Capital/labor substitution
 - Import/domestic substitution (Armington)
- Demand elasticities
 - Household demand systems

Capital-Labor Substitution:		
Direct Estimates and Weighted		
Averages of Disaggregated Estimates		
AII	0.951	1.215
Mfg.	1.213	1.318
Farming and Ag	0.083	0.325
Mining and Metals	0.988	0.789
Intermediates	0.502	1.049
Dur. Mfg. Goods	0.918	1.721
Nondur. Mfg.	1.315	1.256

Regional Data

- 528-sector state data, for 1998 (IMPLAN).
- Inter-regional trade to be estimated. Gravity and other models.

Occupational Disaggregation

- For 1998, employment data are available for roughly 600 occupations by 300 industries.
- Also 600 occupations by 50 states (not by industry).
- Potential linkage to household demand— Survey of Consumer Expenditures
 - Income, employment, household size
 - About 15 occupational classes