Multi-regional Dynamic General Equilibrium Modeling of the U.S. Economy

USAGE-TERM Development and Applications
Contents

1 Beyond Regional Input–Output Modeling ............................................. 1
Glyn Wittwer, Janine Dixon and John Madden

Part I Sectoral Detail in USAGE-TERM

2 Agriculture and Mining in Regional United States .......................... 21
Glyn Wittwer

3 Manufacturing Industries in the United States ................................. 41
Glyn Wittwer

4 Regional Electricity Supply in the United States .............................. 65
Glyn Wittwer

5 Regional Health Care, Education, International Trade,
Other Services and Household Consumption ..................................... 83
Glyn Wittwer

6 Tourism and Transport in a CGE Model
and an Illustrative Application ...................................................... 99
Glyn Wittwer

Part II Potential Household and Fiscal Extensions

7 Enhancing the Links Between Income Sources, User
Expenditures and Taxes in a CGE Database ..................................... 115
Janine Dixon

8 Fiscal Accounts in Regional CGE Modeling ..................................... 135
John Madden
Part III  Model Preparation

9  Preparing a Database for Dynamic CGE Modeling .................. 153
    Glyn Wittwer

10  Top-Down Extensions to Represent Counties
    and Congressional Districts and Moving to Bottom-Up .......... 173
    Mark Horridge and Glyn Wittwer

Part IV  Model Applications

11  Modeling California's Drought ...................................... 195
    Glyn Wittwer

12  The Economic Effects of a Hypothetical Nuclear Attack
    on Downtown LA .................................................. 211
    Peter B. Dixon, Maureen T. Rimmer and Glyn Wittwer

About the Authors .................................................... 229
Index ................................................................. 233