

Some economic tools & methods in climate adaptation

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Data Analysis

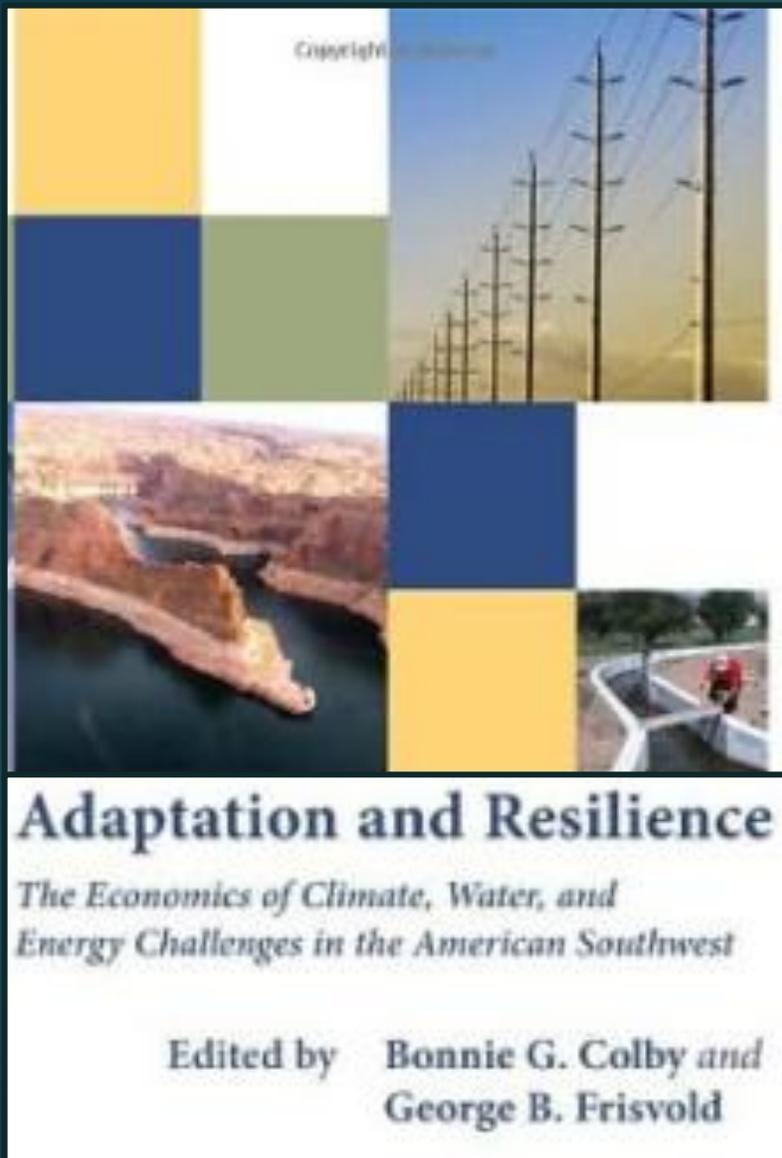
Farmer Use of Information & Technology for
Climate Adaptation

Climate & National Park Visitation

Demand for Weather Information

Climate, Insurance, & Crop Abandonment

Agricultural Water Demand, Productivity, and
Profitability





Global Environmental Change and Agriculture

ASSESSING THE IMPACTS



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Simulation Modeling

Computable General Equilibrium Models

- Climate Change & Agriculture
- Returns to Agricultural Research

Multimarket Trade Models

- Value of Crop Genetic Diversity
- Climate Change Adaptation
- Effects of Biotechnology

US Agricultural Sector Models

- Drought & Water Shortages
- Climate Change Mitigation Policies

Input-Output Models

- Effects of Water Transfers on Rural Communities

Applications

Transboundary water management on the US–Mexico border

Sustainable and self-enforcing water agreements

Border infrastructure investments

Rural-urban water transfers

Invasive species control

Management of herbicide-resistant weeds

Game Theory

