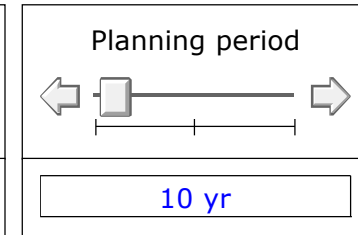
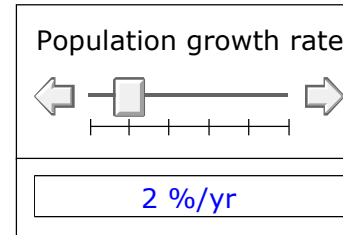
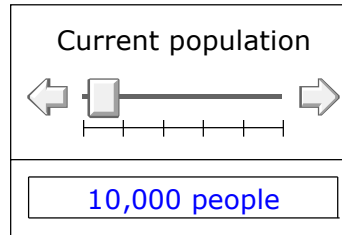
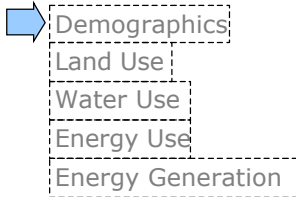
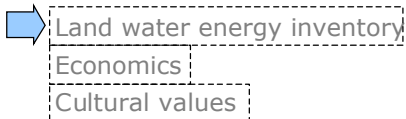


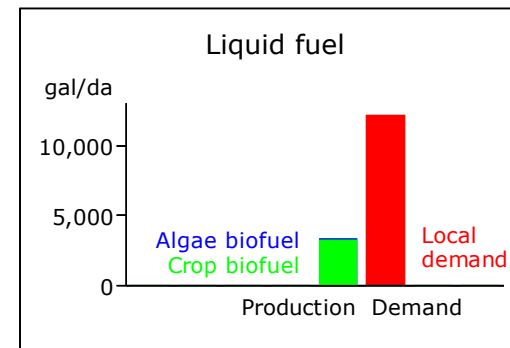
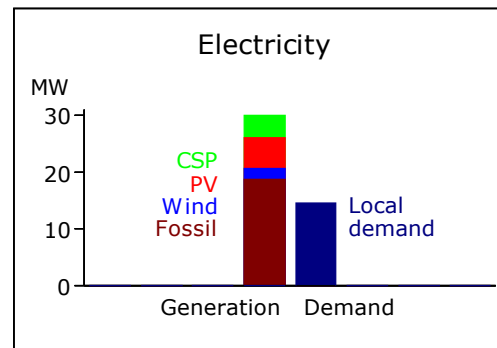
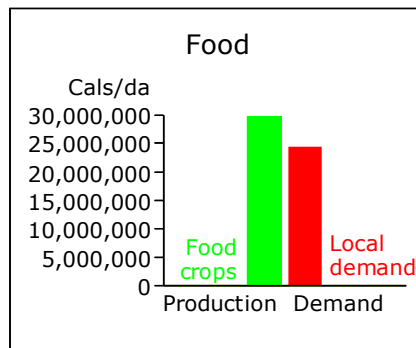
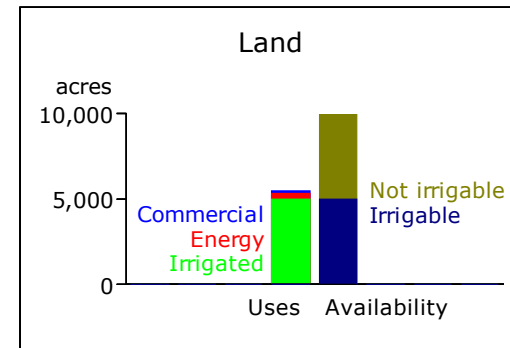
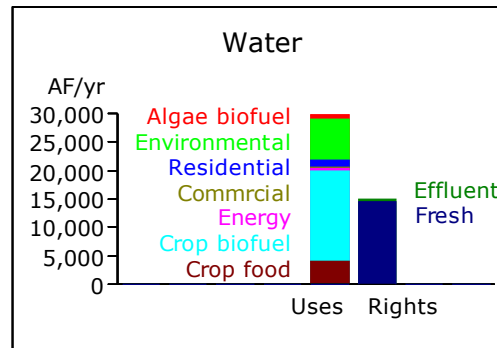
Model Inputs



Model Outputs

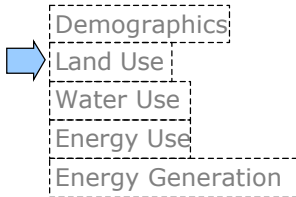


Rescale
Plots



Natural Resources Planning Decision Support Model

Model Inputs



Land Resource		
Total	10,000 acres	<input type="text"/>
Irrigable	5,000 acres	<input type="text"/>
Commercial	500 acres	<input type="text"/>
Residential	1,000 acres	<input type="text"/>
Other	3,500 acres	

% irrigable land used



100 %

Irrigated area

5,000 acres

% commercial land used for energy generation

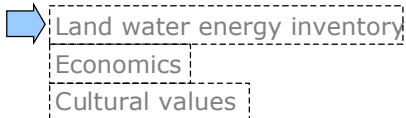


70 %

Commercial land used for energy generation

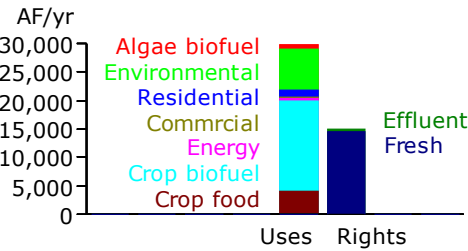
350 acres

Model Outputs

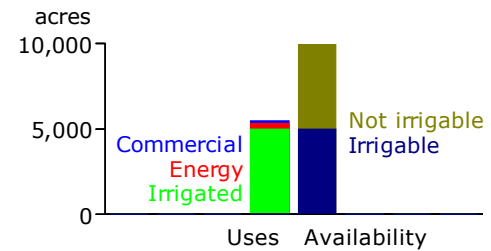


Rescale
Plots

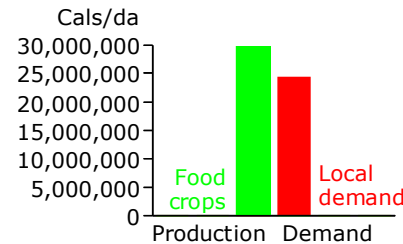
Water



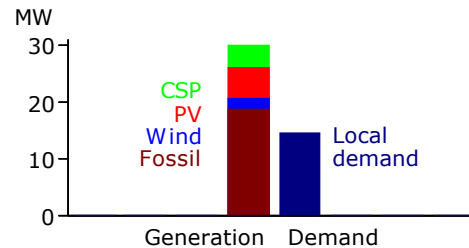
Land



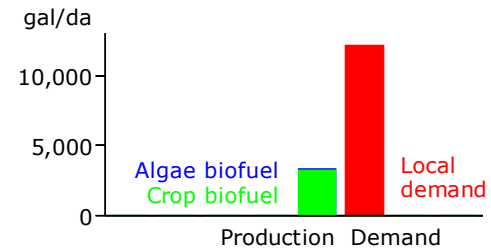
Food



Electricity



Liquid fuel



Natural Resources Planning Decision Support Model

Model Inputs

Demographics
Land Use
Water Use
Energy Use
Energy Generation

Water Use Rates		
Irrigation	4 ft/yr	<input type="text"/>
Residential	100 gal/person/da	<input type="text"/>
Energy Cooling	0.6 gal/kWh	<input type="text"/>
Other Commercial	400 gal/acre/da	<input type="text"/>
Algae Biofuels	5,000 gal/gal biofuel	<input type="text"/>
Environmental	10 cfs	<input type="text"/>

Total Water Rights

15,000 AF/yr

Effluent Rights

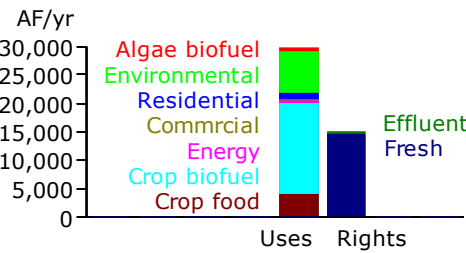
500 AF/yr

Model Outputs

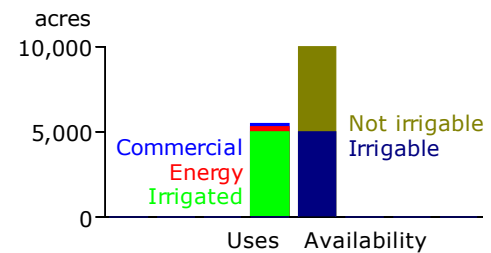
Land water energy inventory
Economics
Cultural values

Rescale
Plots

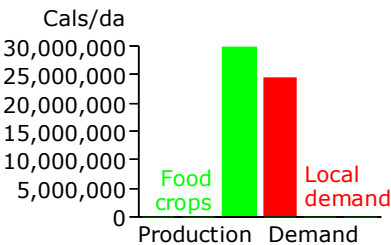
Water



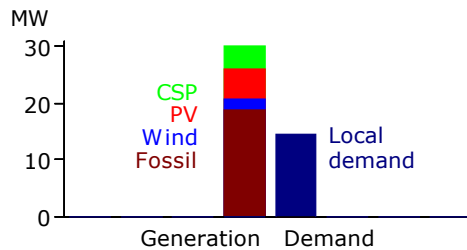
Land



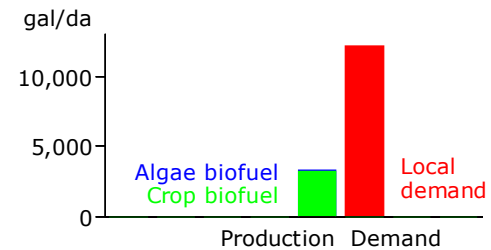
Food



Electricity

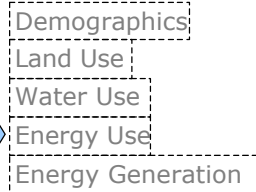


Liquid fuel



Natural Resources Planning Decision Support Model

Model Inputs



Per capita electricity use



28.8 kWh/person/da

Per capita gasoline use



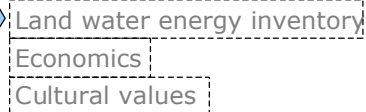
1 gal/person/da

Per capita calorie demand (food)



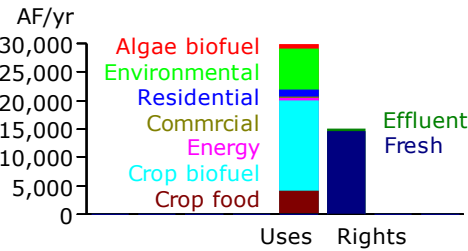
2,000 Cals/person/da

Model Outputs

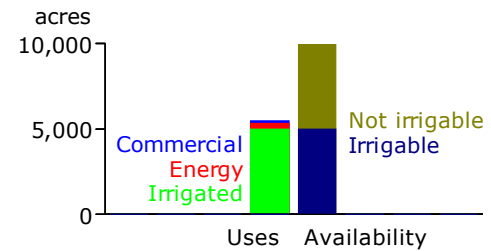


Rescale
Plots

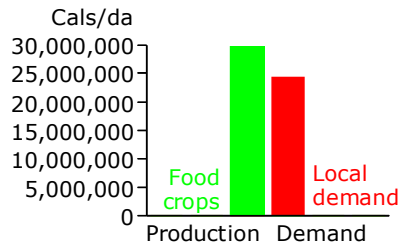
Water



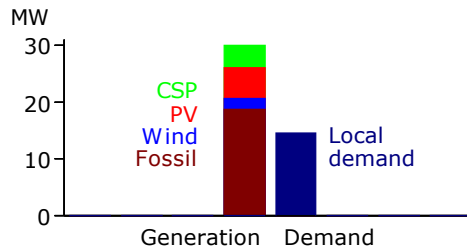
Land



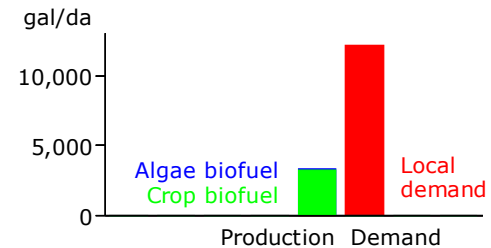
Food



Electricity



Liquid fuel



Natural Resources Planning Decision Support Model

Model Inputs

Demographics

Land Use

Water Use

Energy Use

Energy Generation

	Energy Potential	Area Dedicated
Fossil	2,200 kW/acre	10 acres
Wind	20 kW/acre	500 acres
PV	133 kW/acre	100 acres
CSP	100 kW/acre	100 acres
Food crops	10,700,000 Cals/acre/yr	1,000 acres
Crop Biofuels	288 gal biofuel/acre/yr	4,000 acres
Algae Biofuels	100 gal biofuel/acre/yr	500 acres

Total fossil resource



1,000 GWh

Model Outputs

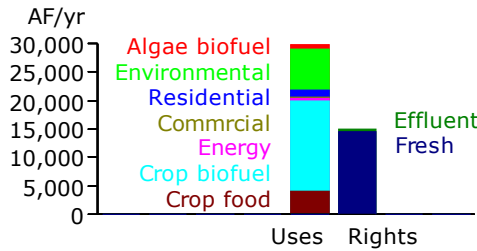
Land water energy inventory

Economics

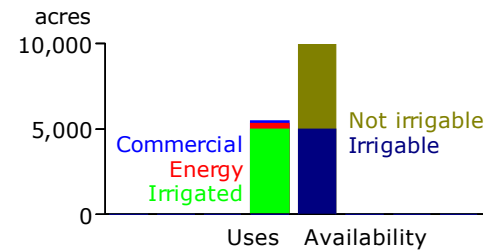
Cultural values

Rescale
Plots

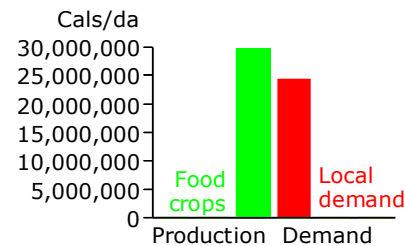
Water



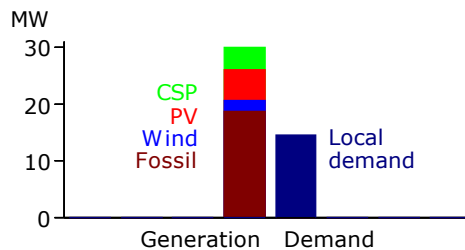
Land



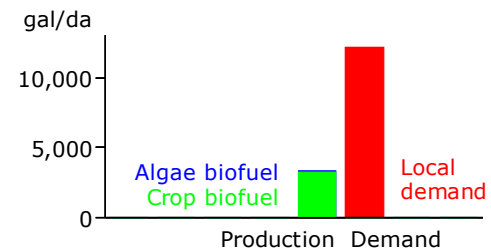
Food



Electricity

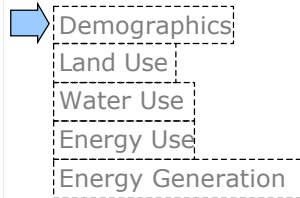


Liquid fuel



Natural Resources Planning Decision Support Model

Model Inputs



Current population

← →

10,000 people

Population growth rate

← →

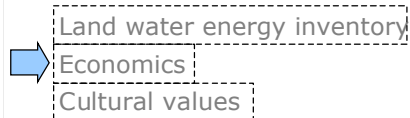
2 %/yr

Planning period

← →

10 yr

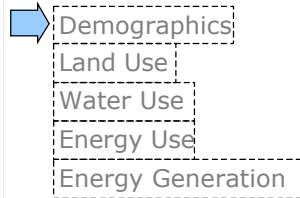
Model Outputs



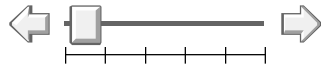
Economic output under construction

Natural Resources Planning Decision Support Model

Model Inputs

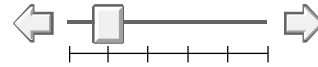


Current population



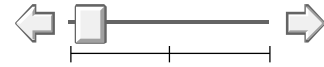
10,000 people

Population growth rate



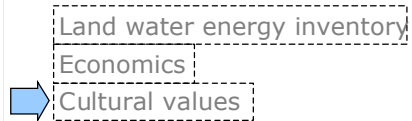
2 %/yr

Planning period



10 yr

Model Outputs



Cultural values output under construction