1 square = 1 x 1 cm, which represents 100 m x 100 m.

100 m x 100 m = 10,000 m² or 1 hectare.

Precipitation 1
Precipitation falls on the map area at a rate of 1 m/yr.

Each square receives a volume of 10,000 m³ of water per year.

The map has 324 squares.

The map area’s total annual water supply or yield is 3,240,000 m³.

Scale
1:10,000
Precipitation 2
2 m/yr falls on 162 squares, for a total yield of 3,240,000 m$^3$/yr of water.

Precipitation 1
1 m/yr falls on 162 squares, for a total yield of 1,620,000 m$^3$/yr of water.

1 square = 1 x 1 cm = 10,000 m$^2$

Scale
1:10,000
Map 3

Precipitation 1
1 m/yr falls on 90 squares, for a total yield of 900,000 m³/yr of water.

Precipitation 2
2 m/yr falls on 72 squares, for a total yield of 1,440,000 m³/yr of water.

Precipitation 3
0.25 m/yr falls on 108 squares, for a total yield of 270,000 m³/yr of water.

Precipitation 4
3 m/yr falls on 36 squares, for a total yield of 1,080,000 m³/yr of water.

Sierra Nevada

Sierra Foothills

Central Valley

Coastal Areas

Scale 1:10,000

Ocean
Land Use & Water Demand Allocations

To assign land uses and water demands to the map, use colored pencils or these cut-out pieces.

**Agriculture 1**
Each Ag1 block produces food for 6 people

**Agriculture 2**
Each Ag2 block produces food for 18 people

**Residential Use**
Each residential block provides homes for 80 people
(To provide all food locally, you would need ~13 Ag1 units or 8 Ag2 units for each residential block)

**Commercial Use**
Each commercial block provides jobs for 100 people

Scale
1:10,000