

**EXPLANATION**

**Map Pattern**

**Water-quality type**

**A** Calcium magnesium bicarbonate type water  
Calcium or magnesium are dominant cations; bicarbonate is the dominant anion.  
Includes the following cation and anion areas in the trilinear diagrams:  
Cation areas: 2, 3, and 4  
Anion areas: 2

**B** Sodium bicarbonate type water  
Sodium is a dominant cation; bicarbonate is the dominant anion.  
Includes the following cation and anion areas in the trilinear diagrams:  
Cation areas: 1, 5, 6, and 7  
Anion areas: 2

**C** Sulfate type water  
Any cation may be dominant; sulfate is a dominant anion; chloride is not a dominant anion.  
Includes the following cation and anion areas in the trilinear diagrams:  
Cation areas: 1, 2, 3, 4, 5, 6, and 7  
Anion areas: 3 and 4

**D** Chloride type water  
Any cation may be dominant; chloride is a dominant anion.  
Includes the following cation and anion areas in the trilinear diagrams:  
Cation areas: 1, 2, 3, 4, 5, 6, and 7  
Anion areas: 1, 5, 6, and 7

**Map symbol**

Well, depth less than 501 feet  
Well, depth 501 to 1,000 feet  
Well, depth greater than 1,000 feet  
Well, depth unknown  
Spring  
Calculated dissolved-solids content in mg/L plotted next to symbol for source of water sample.

Study area boundary

**Geologic unit**

Consolidated rock  
Basin fill

**EXPLANATION**

**Map number**

**1** 0 to 500 mg/L  
**2** 501 to 1,000 mg/L  
**3** 1,001 to 3,000 mg/L  
**4** 3,001 to 10,000 mg/L  
**5** Greater than 10,000 mg/L

**Map symbol**

Well, depth less than 501 feet  
Well, depth 501 to 1,000 feet  
Well, depth greater than 1,000 feet  
Well, depth unknown  
Spring  
Calculated dissolved-solids content in mg/L plotted next to symbol for source of water sample.

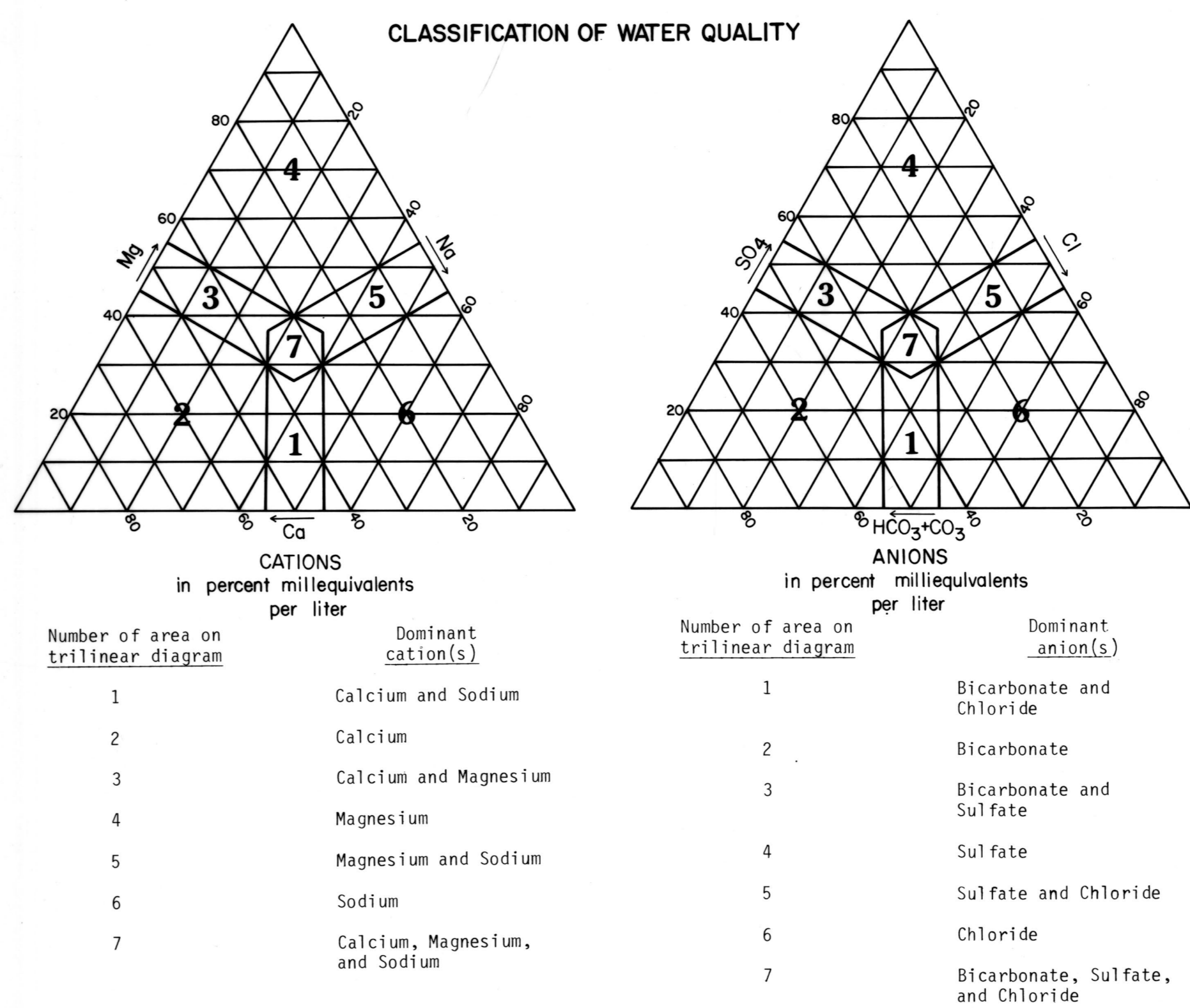
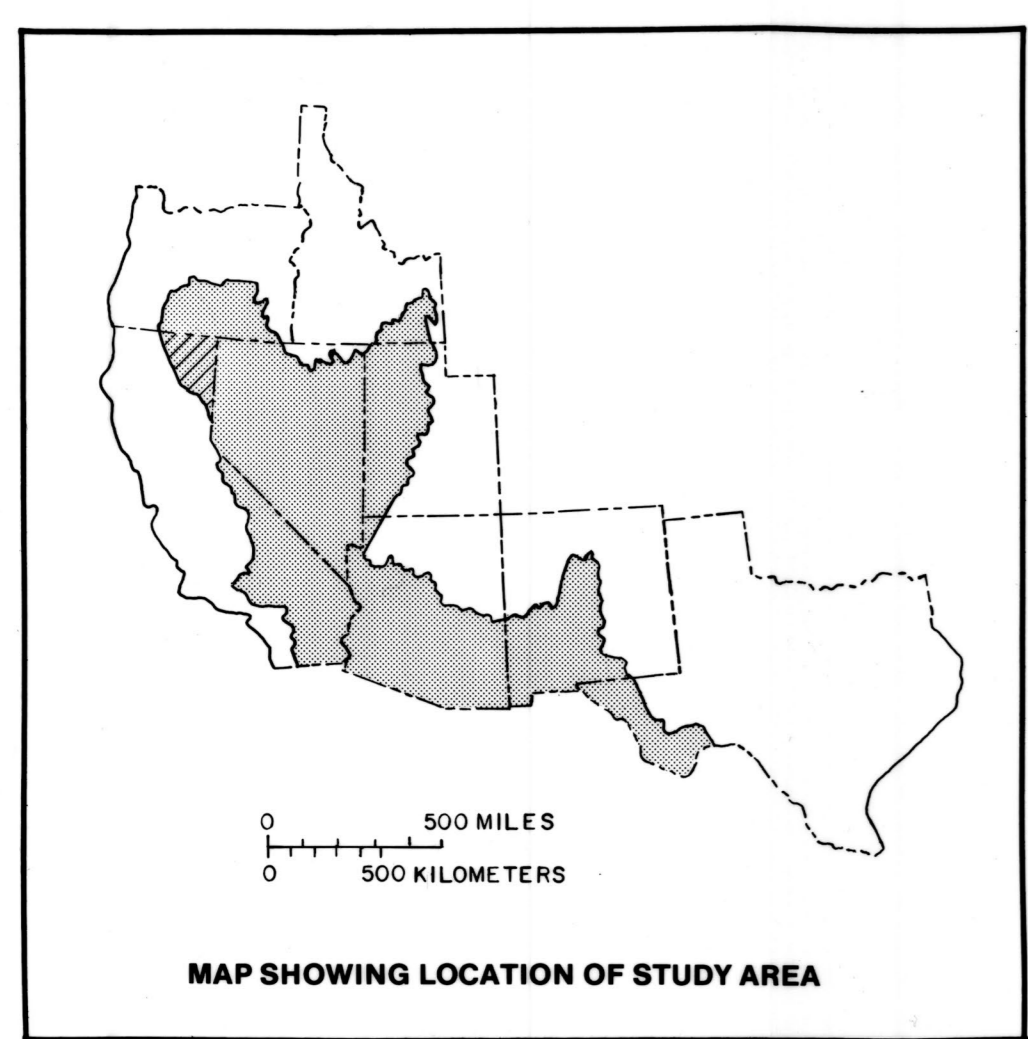
Study area boundary

**Geologic unit**

Consolidated rock  
Basin fill

MAP SHOWING DISTRIBUTION OF DISSOLVED SOLIDS IN GROUND WATER  
Scale 1:500,000  
1 inch equals approximately 8 miles  
0 10 20 30 40 Miles  
0 10 20 30 40 50 Kilometers

MAP SHOWING DOMINANT CHEMICAL TYPE IN GROUND WATER  
Scale 1:500,000  
1 inch equals approximately 8 miles  
0 10 20 30 40 Miles  
0 10 20 30 40 50 Kilometers



# MAPS SHOWING DISTRIBUTION OF DISSOLVED SOLIDS AND DOMINANT CHEMICAL TYPE IN GROUND WATER, BASIN AND RANGE PROVINCE, NORTHERN CALIFORNIA

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1984