CHANGES IN DEPTH TO WATER TABLE
AND DIRECTION OF GROUND WATER FLOW
1902–1979

INTRODUCTORY STATEMENT

The map and chart presented here are the result of a study of the ground water levels and the movement of ground water over the past 77 years. The data was collected and analyzed by the Arizona Department of Water Resources and the United States Geological Survey.

GOALS

The main goals of this study were to:

1. Map the ground water levels and the movement of ground water over the past 77 years.
2. Identify areas of recharge and discharge.
3. Understand the effects of human activities on ground water levels.
4. Predict future ground water levels and movement.

METHODS

The data was collected using various methods, including ground water level measurements, well log analyses, and aerial photography. The data was then analyzed using statistical methods and computer models to create the maps and charts presented here.

SCALE

The maps and charts presented here are drawn to a scale of 1 mile to the inch. The base map is a digital map of the area, and the charts show the changes in ground water levels and movement over the past 77 years.

CONTOUR INTERVAL

The contour interval used on the maps is 10 feet. This means that each contour line represents a 10-foot change in ground water level.

DEUCTIONS BY PLUMBING

The data indicates that the ground water levels and movement are influenced by several factors, including:

1. Recharge from surface water sources, such as rivers and lakes.
2. Discharge to surface water sources.
3. Human activities, such as pumping from wells.
4. Natural processes, such as evaporation and precipitation.

In conclusion, the study shows that the ground water levels and movement are complex and influenced by a variety of factors. Further research is needed to understand the effects of these factors on ground water levels and movement.