INTRODUCTION

The Arizona Department of Water Resources (ADWR) conducts continuous water-monitoring activities throughout the state to assess water level conditions. ADWR has been collecting hydrography data, in the form of groundwater levels, since 1905. This dataset is used to assess water level trends, evaluate groundwater resources, and inform water management decisions.

WATER LEVEL CHANGE

The measured water level change across a twelve-month period near Benson, Arizona, for WY 2007 and WY 2008, was divided by 12 to represent ten-month water level change. The map shows the variation in water levels within the groundwater sub-basin. This sub-basin is characterized by shallow aquifers, which are commonly influenced by surface water conditions.

North of Benson, the groundwater level change ranged from a decline of 6.9 feet to an increase of 1.2 feet. The change values ranged from 1.2 feet to 40 to 60 feet. This area near the San Pedro RIenge, which is located near streambeds and mountain depressions, shows changes in water levels due to surface water conditions. The San Pedro RIenge is a water-limited area where water levels are subject to changes throughout the year.

Municipalities

Groundwater Sub-basin Boundary

Well in which depth to groundwater was measured in both years (WY 1991 and WY 2000). A water-limited area, which is located near streambeds and mountain depressions, shows changes in water levels due to surface water conditions. The San Pedro RIenge is a water-limited area where water levels are subject to changes throughout the year.

Conditions

Water level changes in the Twin Buttes area are shown as a range of 2.5 feet to an increase of 5 feet. The change values ranged from a decline of 40 to 60 feet to an increase of 5 feet. This area near the San Pedro RIenge, which is located near streambeds and mountain depressions, shows changes in water levels due to surface water conditions. The San Pedro RIenge is a water-limited area where water levels are subject to changes throughout the year.

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Map showing groundwater level changes in the Twin Buttes area. The map is rounded to the nearest whole number. Unsigned values were used to show rises in water levels (blue points) and values with negative signs were used to show declines in water levels (red points).

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