Mattole River Valley Groundwater Basin

- Groundwater Basin Number: 1-28
- County: Humboldt
- Surface Area: 3,150 acres (5 square miles)

Basin Boundaries and Hydrology

The Mattole River Valley Groundwater Basin occupies small valleys of the Mattole and North Fork Mattole Rivers where the Mattole River discharges to the ocean. The basin is bounded to the south and east by undifferentiated marine Cretaceous deposits of graywacke and shale. The basin is bounded to the northwest by Tertiary marine sedimentary rocks of the Wildcat series (Strand 1962). The Wildcat series is a group of five formations ranging in age from Miocene to Pleistocene consisting of sandstone, marine siltstone, and claystone (Evenson 1959). Annual precipitation ranges from 63- to 75-inches.

Hydrogeologic Information

Hydrogeologic information was not found for the following:

- Water-Bearing Formations
- Groundwater Level Trends
- Groundwater Storage

Groundwater Budget (Type B)

The estimate of groundwater extraction for the Mattole River Valley Basin is based on a 1996 survey conducted by the California Department of Water Resources. The survey included landuse and sources of water. Groundwater extraction for agricultural use is estimated to be 140 acre-feet. Groundwater extraction for municipal and industrial uses is estimated to be 7 acre-feet. Deep percolation of applied water is estimated to be 87 acre-feet.

Groundwater Quality

Hydrogeologic information was not found.

Well Production characteristics

<table>
<thead>
<tr>
<th>Well yields (gal/min)</th>
<th>Total depths (ft)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Municipal/Irrigation</td>
<td>NKD</td>
</tr>
<tr>
<td>Domestic</td>
<td>Range: 48 - 51</td>
</tr>
<tr>
<td>Municipal/Irrigation</td>
<td>NKD</td>
</tr>
</tbody>
</table>

NKD – No known data
Active Monitoring Data

<table>
<thead>
<tr>
<th>Agency</th>
<th>Parameter</th>
<th>Number of wells/Measurement frequency</th>
</tr>
</thead>
<tbody>
<tr>
<td>Groundwater levels</td>
<td>NKD</td>
<td></td>
</tr>
<tr>
<td>Miscellaneous water quality</td>
<td>NKD</td>
<td></td>
</tr>
<tr>
<td>Department of Health Services</td>
<td>Miscellaneous water quality</td>
<td>2</td>
</tr>
</tbody>
</table>

Basin Management

Groundwater management: No known groundwater management plans, groundwater ordinances, or basin adjudications.

Water agencies

- Public: None
- Private: None

Selected References


Bibliography


Errata

Changes made to the basin description will be noted here.