

Fairchild Swamp Area Groundwater Basin

- Groundwater Basin Number: 1-22
- County: Modoc
- Surface Area: 3,300 acres (5 square miles)

Basin Boundaries and Hydrology

The Fairchild Swamp Area Groundwater Basin is a north trending basin following the north trending fault system in the region. The basin is bounded on all sides by Plio-Pleistocene basalt flows. The flows consist of gray to black ophitic to sub-ophitic basalt and basaltic andesite. The flows are highly fractured, nearly flat-lying, and dip toward the south (DWR 1965). Basin deposits consist of Quaternary alluvium. Annual precipitation ranges from 17- to 19-inches.

Hydrogeologic Information

Hydrogeologic information was not available for the following:

Water-Bearing Formations

Groundwater Level Trends

Groundwater Storage

Groundwater Budget

Groundwater Quality

Well Production characteristics

| Well yields (gal/min) | |
|-----------------------|-----|
| Municipal/Irrigation | NKD |
| Total depths (ft) | |
| Domestic | NKD |
| Municipal/Irrigation | |

NKD – No known data

Active Monitoring Data

| Agency | Parameter | Number of wells /measurement frequency |
|--------|-----------------------------|--|
| | Groundwater levels | NKD |
| | Miscellaneous water quality | NKD |

Basin Management

| | |
|-------------------------|---|
| Groundwater management: | The County of Modoc adopted a groundwater management ordinance in 2000. |
| Water agencies | |
| Public | None |
| Private | None |

Selected References

- California Department of Water Resources (DWR). 1965. Northeastern Counties Ground Water Investigation. Appendix C: Geology. Office Report.
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- Gay, T.E, Jr. and Aune, QA (1968). Geologic Map of California, [Alturas Sheet], California Division of Mines and Geology.

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- Bailey EH. 1966. Geology of Northern California. California Division of Mines and Geology. Bulletin 190.
- California Department of Water Resources. 1975. California's Ground Water. California Department of Water Resources. Bulletin 118.
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- Dickinson WR, Ingersoll RV, Grahm SA. 1979. Paleogene Sediment Dispersal and Paleotectonics in Northern California. Geological Society of America Bulletin 90:1458-1528.
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- Planert M, Williams JS. 1995. Ground Water Atlas of the United States, Segment 1, California, Nevada. USGS. HA-730-B.

Errata

Changes made to the basin description will be noted here.