

Manganese Distribution in New Mexico Private Wells

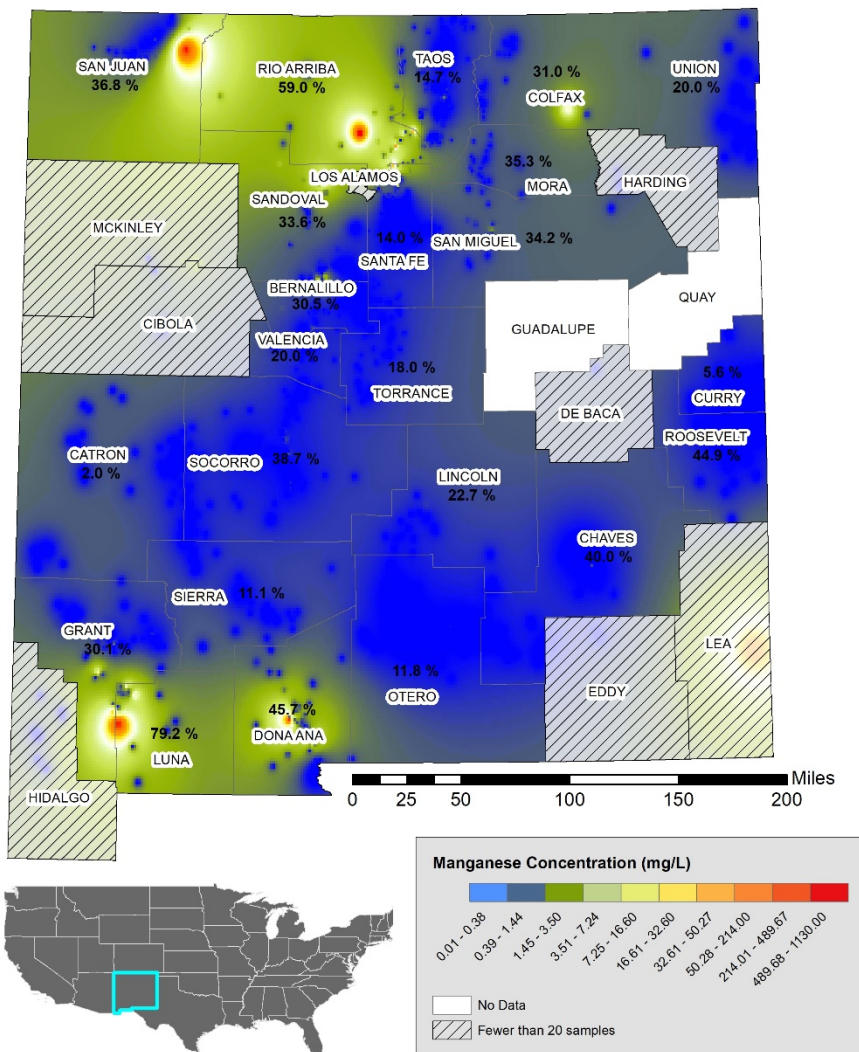
Wells Sampled January 1964 - April 2018

Manganese levels in water samples from private wells vary between New Mexico counties and even within the same county. The groundwater system in New Mexico is very complex. This complexity can lead to manganese concentration variability even amongst neighboring wells. **Therefore, to know the manganese concentration in your water from your own well, you need to test.** The secondary safe drinking water concentration for manganese, related to aesthetics (color and taste), is 0.05 milligrams per liter (mg/L). Some of the water samples from wells in all counties appear to exceed this Environmental Protection Agency (EPA) Safe Drinking Water secondary standard.

Manganese Distribution in New Mexico Private Wells

Wells Sampled January 1964 - April 2018

**Interpolated* Groundwater Manganese Concentrations (mg/L)
from Private Wells Data**



Data Sources: NMED Water Fairs, NMBGMR, USEPA, USGS NWIS, NMDOH biomonitoring, Bernalillo County, Santa Fe County

*Interpolated Using QGIS 3.4.3 inverse distance weighted.

<https://nmtracking.doh.nm.gov/environment/water/Manganese.html>

Data Sources: NMED Water Fairs, NMBMMR private Wells, USGS NWIS private wells, NMDOH biomonitoring, Bernalillo County, Santa Fe County
Last Updated: 08/2022



New Mexico Private Wells Inventory

Manganese Test Results Summary January 1964 - April 2018

County	Number of tests	% Tests above secondary MCL (0.05 mg/L)	Concentration of Manganese in Milligrams per Liter (mg/L)						
			Mean	Standard Deviation	Max	95th Percentile	Median	5th Percentile	Minimum Detected Value*
Bernalillo	285	30.5	0.17	0.78	8.94	0.60	0.010	0.001	0.0001
Catron	50	2.0	0.01	0.01	0.07	0.03	0.003	0.001	0.0003
Chaves	90	40.0	0.10	0.19	1.50	0.38	0.041	0.005	0.0005
Cibola	11	45.5	1.60	2.71	8.83	8.83	0.026	0.001	0.0005
Colfax	29	31.0	1.66	5.94	23.70	22.50	0.023	0.001	0.0005
Curry	54	5.6	0.01	0.02	0.08	0.06	0.013	0.001	0.0005
De Baca	1	100.0	0.09	-	0.09	0.09	0.093	0.093	0.0930
Doña Ana	116	45.7	4.28	31.91	310.00	1.39	0.034	0.001	0.0003
Eddy	6	16.7	0.04	0.02	0.08	0.08	0.030	0.013	0.0125
Grant	113	30.1	1.08	5.92	50.27	2.20	0.022	0.001	0.0005
Guadalupe	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Harding	4	50.0	0.15	0.23	0.48	0.48	0.052	0.001	0.0012
Hidalgo	9	0.0	0.01	0.01	0.05	0.05	0.010	0.001	0.0010
Lea	5	100.0	63.84	69.69	140.00	140.00	20.900	9.160	9.1600
Lincoln	22	22.7	0.09	0.23	1.10	0.29	0.025	0.013	0.0125
Los Alamos	5	40.0	0.11	0.22	0.51	0.51	0.007	0.001	0.0005
Luna	24	79.2	16.39	66.22	325.56	28.32	0.322	0.005	0.0040
McKinley	2	50.0	0.08	0.08	0.13	0.13	0.075	0.020	0.0200
Mora	34	35.3	0.28	0.58	2.27	1.88	0.020	0.001	0.0010
Otero	169	11.8	0.02	0.07	0.51	0.07	0.009	0.001	0.0003
Quay	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Rio Arriba	134	59.0	11.20	98.40	1130.00	5.92	0.071	0.001	0.0005
Roosevelt	49	44.9	0.04	0.04	0.18	0.11	0.043	0.001	0.0005
San Juan	951	36.8	4.76	53.89	823.56	2.30	0.021	0.001	0.0001
San Miguel	38	34.2	0.40	1.40	6.49	5.90	0.008	0.001	0.0005
Sandoval	518	33.6	1.70	15.56	238.00	1.50	0.014	0.001	0.0001
Santa Fe	1446	14.0	2.28	30.97	650.00	0.52	0.001	0.001	0.0001
Sierra	45	11.1	0.02	0.09	0.48	0.10	0.003	0.001	0.0005
Socorro	253	38.7	0.28	0.61	4.80	1.50	0.025	0.001	0.0003
Taos	389	14.7	0.09	0.59	8.31	0.38	0.003	0.001	0.0003
Torrance	50	18.0	0.02	0.03	0.10	0.09	0.021	0.001	0.0005
Union	30	20.0	0.03	0.06	0.26	0.20	0.005	0.001	0.0005
Valencia	35	20.0	0.10	0.28	1.20	1.00	0.006	0.001	0.0005

- Indicates insufficient data to calculate statistics; N/A indicates Not Applicable; *Minimum detected value calculated as half the detection limit (DL) for concentrations less than DL; DL varies

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