

Anthropogenic Winter Season Emission Projections for Butte County, California (Tons per Day)

Source: California Emissions Projection Analysis Model (CEPAM2026 PM2.5 Plans Version 1.00) using CEIDARS 2023 base year inventory. Emissions grown and controlled (includes external adjustments).

Stationary Sources

Category Name	PM2.5				NOx				SOx				ROG				Ammonia			
	2023	2028	2035	2038	2023	2028	2035	2038	2023	2028	2035	2038	2023	2028	2035	2038	2023	2028	2035	2038
FUEL COMBUSTION	0.048	0.046	0.045	0.045	1.060	1.015	1.009	1.021	0.028	0.028	0.029	0.029	0.081	0.078	0.077	0.077	0.000	0.000	0.000	0.000
WASTE DISPOSAL	0.006	0.006	0.006	0.006	0.006	0.007	0.007	0.007	0.003	0.003	0.003	0.003	0.049	0.049	0.048	0.048	0.090	0.090	0.092	0.094
CLEANING AND SURFACE COATINGS	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.035	1.087	1.185	1.253	0.000	0.000	0.000	0.000
PETROLEUM PRODUCTION & MARKETING	0.000	0.000	0.000	0.000	0.048	0.042	0.034	0.032	0.001	0.001	0.000	0.000	0.489	0.458	0.436	0.435	0.017	0.015	0.012	0.011
INDUSTRIAL PROCESSES	0.672	0.730	0.823	0.875	0.030	0.031	0.034	0.036	0.015	0.015	0.015	0.016	0.041	0.042	0.046	0.048	0.003	0.004	0.004	0.005
SUBTOTAL	0.725	0.782	0.874	0.926	1.145	1.094	1.084	1.095	0.047	0.047	0.048	0.049	1.695	1.714	1.791	1.862	0.110	0.109	0.108	0.109

Areawide Sources

Category Name	PM2.5				NOx				SOx				ROG				Ammonia			
	2023	2028	2035	2038	2023	2028	2035	2038	2023	2028	2035	2038	2023	2028	2035	2038	2023	2028	2035	2038
SOLVENT EVAPORATION	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	2.105	2.197	2.296	2.353	3.084	3.033	2.969	2.944
RESIDENTIAL FUEL COMBUSTION	1.617	1.504	1.459	1.458	0.615	0.617	0.609	0.603	0.043	0.043	0.043	0.043	2.944	2.944	2.944	2.944	0.089	0.089	0.089	0.089
FARMING OPERATIONS	0.202	0.198	0.194	0.192	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.295	0.283	0.269	0.264	0.487	0.473	0.458	0.453
MANAGED BURNING AND DISPOSAL	1.224	1.001	0.993	0.991	0.500	0.461	0.455	0.452	0.048	0.045	0.045	0.045	1.403	1.005	0.998	0.995	0.357	0.170	0.169	0.169
OTHER MISC. PROCESSES	0.572	0.568	0.592	0.600	0.002	0.001	0.002	0.002	0.000	0.000	0.000	0.000	0.021	0.021	0.022	0.022	0.374	0.379	0.391	0.398
SUBTOTAL	3.615	3.271	3.238	3.241	1.117	1.079	1.066	1.057	0.090	0.088	0.088	0.087	6.769	6.449	6.529	6.578	4.391	4.144	4.076	4.053

Mobile Sources

Category Name	PM2.5				NOx				SOx				ROG				Ammonia			
	2023	2028	2035	2038	2023	2028	2035	2038	2023	2028	2035	2038	2023	2028	2035	2038	2023	2028	2035	2038
ON-ROAD MOTOR VEHICLES	0.076	0.067	0.063	0.061	2.565	1.680	1.231	1.128	0.023	0.021	0.020	0.019	1.221	0.931	0.700	0.642	0.266	0.291	0.315	0.317
OTHER MOBILE SOURCES	0.132	0.089	0.068	0.059	2.774	2.409	2.087	1.849	0.020	0.020	0.020	0.020	1.788	1.388	0.993	0.882	0.003	0.003	0.003	0.003
SUBTOTAL	0.208	0.157	0.131	0.120	5.340	4.089	3.318	2.977	0.044	0.042	0.040	0.039	3.009	2.319	1.693	1.524	0.269	0.294	0.318	0.320

Total for All Categories

	PM2.5				NOx				SOx				ROG				Ammonia			
	2023	2028	2035	2038	2023	2028	2035	2038	2023	2028	2035	2038	2023	2028	2035	2038	2023	2028	2035	2038
	4.549	4.209	4.242	4.287	7.601	6.263	5.468	5.129	0.181	0.177	0.176	0.176	11.473	10.483	10.013	9.964	4.770	4.546	4.502	4.482

ERC BANK

	PM2.5*				NOx				SOx				ROG			
	2023	2028	2035	2038	2023	2028	2035	2038	2023	2028	2035	2038	2023	2028	2035	2038
	0.107	0.107	0.107	0.107	0.164	0.164	0.164	0.164	0.008	0.008	0.008	0.008	0.164	0.164	0.164	0.164

*BCAQMD currently has an ERC bank for PM10 but not for PM2.5. As PM2.5 is a fraction of PM10, this is a conservative projection.

GRAND TOTAL INCLUDING ERC BANK

	PM2.5				NOx				SOx				ROG				Ammonia			
	2023	2028	2035	2038	2023	2028	2035	2038	2023	2028	2035	2038	2023	2028	2035	2038	2023	2028	2035	2038
	4.656	4.316	4.349	4.394	7.765	6.427	5.632	5.293	0.189	0.185	0.184	0.184	11.637	10.647	10.177	10.128	4.770	4.546	4.502	4.482

Natural Winter Season Emission Projections for Butte County, California (Tons per Day)

Source: California Emissions Projection Analysis Model (CEPAM2026 PM2.5 Plans Version 1.00) using CEIDARS 2023 base year inventory. Emissions grown and controlled (includes external adjustments).

Category Name	PM2.5				NOx				SOx				ROG				Ammonia			
	2023	2028	2035	2038	2023	2028	2035	2038	2023	2028	2035	2038	2023	2028	2035	2038	2023	2028	2035	2038
BIOGENIC SOURCES	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	7.046	7.046	7.046	7.046	0.000	0.000	0.000	0.000
GEOGENIC SOURCES	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.764	0.764	0.764	0.764
WILDFIRES	0.008	20.538	20.538	20.538	0.001	1.557	1.557	1.557	0.000	0.783	0.783	0.783	0.010	26.397	26.397	26.397	0.000	1.368	1.368	1.368
TOTAL FOR NATURAL SOURCES	0.008	20.538	20.538	20.538	0.001	1.557	1.557	1.557	0.000	0.783	0.783	0.783	7.056	33.443	33.443	33.443	0.764	2.131	2.131	2.131

Category Name	NOx			
	2023	2028	2035	2038
SOIL NOx*	0.841	0.841	0.841	0.841

*Soil NOx estimate calculated separately from CEPAM using the MEGAN Model.

GRAND TOTAL INCLUDING ANTHROPOGENIC SOURCES	PM2.5				NOx				SOx				ROG				Ammonia			
	2023	2028	2035	2038	2023	2028	2035	2038	2023	2028	2035	2038	2023	2028	2035	2038	2023	2028	2035	2038
	4.664	24.854	24.887	24.932	8.607	8.825	8.030	7.691	0.189	0.968	0.967	0.967	18.693	44.090	43.620	43.571	5.534	6.677	6.633	6.613