



California's Ballot Tracking Service: Who Is Using It and How Does It Impact Voter Confidence and Behavior?

Appendix

Appendix

Appendix A: BallotTrax Use Rates

BallotTrax Use Rates All Voters 2022 Primary Election									
	BallotTrax Users Registered Voters	Registered Voters	BallotTrax Users Actual Voters	Actual Voters	BallotTrax Users Vote-by-Mail Voters	Vote-by-Mail Voters	BallotTrax Use Rate Registered Voters	BallotTrax Use Rate Actual Voters	BallotTrax Use Rate Vote-by-Mail Voters
Alameda	200,871	926,152	111,551	307,171	109,029	296,094	21.7%	36.3%	36.8%
Alpine	137	921	103	555	103	555	14.9%	18.6%	18.6%
Amador	4,471	26,531	3,356	14,964	3,250	14,386	16.9%	22.4%	22.6%
Butte	20,329	122,683	12,303	48,373	12,283	48,222	16.6%	25.4%	25.5%
Calaveras	5,401	31,832	3,746	15,442	3,572	14,426	17.0%	24.3%	24.8%
Colusa	1,067	10,104	580	3,595	545	3,297	10.6%	16.1%	16.5%
Contra Costa	146,821	697,805	83,898	246,558	80,809	232,366	21.0%	34.0%	34.8%
Del Norte	1,646	14,947	1,060	5,976	1,007	5,277	11.0%	17.7%	19.1%
El Dorado	26,736	137,896	17,705	62,416	17,069	59,594	19.4%	28.4%	28.6%
Fresno	75,030	499,317	38,273	135,336	36,183	125,013	15.0%	28.3%	28.9%
Glenn	1,774	14,325	1,123	6,004	1,100	5,792	12.4%	18.7%	19.0%
Humboldt	13,247	84,643	8,461	34,813	8,068	31,770	15.7%	24.3%	25.4%
Imperial	6,602	85,622	2,886	19,505	2,779	18,470	7.7%	14.8%	15.0%
Inyo	1,796	10,836	1,279	5,766	1,225	5,202	16.6%	22.2%	23.5%
Kern	57,910	440,104	28,801	113,338	27,410	104,106	13.2%	25.4%	26.3%
Kings	8,271	60,935	4,414	17,640	4,217	16,550	13.6%	25.0%	25.5%
Lake	5,129	37,311	3,140	13,505	2,970	12,142	13.7%	23.3%	24.5%
Lassen	1,869	14,732	1,177	6,587	1,156	6,440	12.7%	17.9%	18.0%
Los Angeles	955,797	5,646,904	507,843	1,615,201	462,370	1,367,722	16.9%	31.4%	33.8%
Madera	10,555	71,826	6,385	24,805	6,153	23,478	14.7%	25.7%	26.2%
Marin	46,865	170,209	31,694	84,355	30,879	80,889	27.5%	37.6%	38.2%
Mariposa	2,210	11,564	1,654	6,229	1,652	6,216	19.1%	26.6%	26.6%
Mendocino	7,182	52,717	4,849	22,269	4,768	21,542	13.6%	21.8%	22.1%
Merced	17,216	124,174	8,045	31,731	7,654	30,142	13.9%	25.4%	25.4%
Modoc	457	5,139	303	2,501	293	2,349	8.9%	12.1%	12.5%
Mono	1,483	7,641	995	3,288	955	2,957	19.4%	30.3%	32.3%
Monterey	32,437	208,702	18,073	64,699	17,658	62,053	15.5%	27.9%	28.5%
Napa	14,585	83,559	9,317	36,346	9,198	35,786	17.5%	25.6%	25.7%
Nevada	14,013	73,413	9,901	37,526	9,551	35,703	19.1%	26.4%	26.8%
Orange	284,313	1,807,966	148,090	633,652	136,398	560,642	15.7%	23.4%	24.3%
Placer	72,329	276,653	48,248	127,849	45,748	119,275	26.1%	37.7%	38.4%
Plumas	1,680	13,792	1,185	7,193	1,185	7,186	12.2%	16.5%	16.5%
Riverside	230,748	1,292,042	118,628	373,077	113,288	349,574	17.9%	31.8%	32.4%
Sacramento	172,245	863,445	104,615	335,644	101,855	324,247	19.9%	31.2%	31.4%
San Benito	4,853	37,370	2,655	12,597	2,527	11,937	13.0%	21.1%	21.2%
San Bernardino	187,882	1,140,582	80,705	256,399	74,996	227,460	16.5%	31.5%	33.0%
San Diego	379,964	1,916,903	221,065	669,799	211,616	625,484	19.8%	33.0%	33.8%
San Francisco	92,936	497,126	57,990	228,929	54,891	206,992	18.7%	25.3%	26.5%
San Joaquin	58,025	384,463	28,595	107,342	27,122	100,182	15.1%	26.6%	27.1%
San Luis Obispo	39,442	181,422	27,303	88,300	26,712	85,669	21.7%	30.9%	31.2%
San Mateo	92,898	430,461	54,415	165,667	52,980	158,904	21.6%	32.8%	33.3%
Santa Barbara	37,867	234,782	23,268	93,369	22,549	88,255	16.1%	24.9%	25.5%
Santa Clara	195,651	1,004,558	107,469	356,896	104,394	341,164	19.5%	30.1%	30.6%
Santa Cruz	32,706	166,320	22,786	78,458	22,074	74,255	19.7%	29.0%	29.7%
Shasta	15,225	111,287	10,125	52,007	9,411	47,161	13.7%	19.5%	20.0%
Sierra	268	2,235	195	1,214	195	1,211	12.0%	16.1%	16.1%
Siskiyou	3,569	28,851	2,241	12,693	2,114	11,334	12.4%	17.7%	18.7%
Solano	49,849	260,657	26,444	77,747	25,030	69,998	19.1%	34.0%	35.8%
Sonoma	72,384	301,644	48,498	138,407	47,620	134,458	24.0%	35.0%	35.4%
Stanislaus	44,889	280,770	23,119	81,441	22,248	78,193	16.0%	28.4%	28.5%
Sutter	7,590	52,324	4,269	19,160	4,159	18,584	14.5%	22.3%	22.4%
Tehama	4,499	37,000	2,763	14,185	2,550	12,542	12.2%	19.5%	20.3%
Trinity	906	7,352	628	3,665	611	3,550	12.3%	17.1%	17.2%
Tulare	26,903	206,586	12,290	50,976	11,554	46,351	13.0%	24.1%	24.9%
Tuolumne	5,815	35,263	4,047	16,982	3,984	16,580	16.5%	23.8%	24.0%
Ventura	107,991	506,253	67,798	203,601	63,912	187,601	21.3%	33.3%	34.1%
Yolo	27,084	117,952	17,970	49,729	17,453	47,579	23.0%	36.1%	36.7%
Yuba	5,636	40,801	3,024	12,584	2,863	11,338	13.8%	24.0%	25.3%
California	3,938,054	21,909,404	2,193,343	7,256,056	2,075,945	6,636,245	18.0%	30.2%	31.3%

Data Source: California voter files, BallotTrax

BallotTrax Use Rates All Voters 2022 General Election									
	BallotTrax Users Registered Voters	Registered Voters	BallotTrax Users Actual Voters	Actual Voters	BallotTrax Users Vote-by-Mail Voters	Vote-by-Mail Voters	BallotTrax Use Rate Registered Voters	BallotTrax Use Rate Actual Voters	BallotTrax Use Rate Vote-by-Mail Voters
Alameda	196,325	929,397	153,866	493,198	147,268	455,352	21.1%	31.2%	32.3%
Alpine	134	895	118	607	118	607	15.0%	19.4%	19.4%
Amador	4,548	25,657	4,000	18,802	3,811	17,612	17.7%	21.3%	21.6%
Butte	20,016	123,655	16,653	72,704	16,553	71,731	16.2%	22.9%	23.1%
Calaveras	5,469	32,192	4,695	21,422	4,334	19,230	17.0%	21.9%	22.5%
Colusa	1,061	10,244	813	5,579	769	5,042	10.4%	14.6%	15.3%
Contra Costa	145,135	700,410	115,995	392,133	109,686	356,577	20.7%	29.6%	30.8%
Del Norte	1,635	15,092	1,336	8,310	1,242	7,208	10.8%	16.1%	17.2%
El Dorado	26,383	131,264	22,427	89,200	21,332	82,861	20.1%	25.1%	25.7%
Fresno	74,219	502,518	54,006	219,595	49,111	191,497	14.8%	24.6%	25.6%
Glenn	1,808	14,388	1,430	7,925	1,371	7,487	12.6%	18.0%	18.3%
Humboldt	13,237	84,894	10,646	48,380	9,970	42,533	15.6%	22.0%	23.4%
Imperial	6,606	86,334	4,155	30,136	3,963	28,119	7.7%	13.8%	14.1%
Inyo	1,813	10,839	1,562	7,486	1,461	6,546	16.7%	20.9%	22.3%
Kern	58,804	434,456	42,889	188,770	39,790	166,262	13.5%	22.7%	23.9%
Kings	8,222	61,377	5,935	26,833	5,542	24,337	13.4%	22.1%	22.8%
Lake	5,197	36,854	4,131	20,155	3,906	17,749	14.1%	20.5%	22.0%
Lassen	1,881	14,637	1,557	9,146	1,520	8,855	12.9%	17.0%	17.2%
Los Angeles	940,205	5,639,389	674,309	2,433,734	597,448	1,955,167	16.7%	27.7%	30.6%
Madera	10,681	73,223	8,435	37,138	7,930	33,843	14.6%	22.7%	23.4%
Marin	46,558	170,584	40,362	120,661	38,758	111,876	27.3%	33.5%	34.6%
Mariposa	2,233	11,676	1,926	7,874	1,925	7,835	19.1%	24.5%	24.6%
Mendocino	7,081	52,678	5,912	30,669	5,788	29,507	13.4%	19.3%	19.6%
Merced	16,882	126,080	12,063	55,415	11,065	50,367	13.4%	21.8%	22.0%
Modoc	473	5,124	398	3,363	381	3,091	9.2%	11.8%	12.3%
Mono	1,478	7,645	1,224	4,627	1,145	3,996	19.3%	26.5%	28.7%
Monterey	32,074	210,462	24,381	102,476	23,528	96,009	15.2%	23.8%	24.5%
Napa	14,335	83,289	11,689	50,470	11,389	48,705	17.2%	23.2%	23.4%
Nevada	14,233	74,644	12,267	50,747	11,659	46,972	19.1%	24.2%	24.8%
Orange	282,359	1,813,186	209,368	987,459	185,585	824,447	15.6%	21.2%	22.5%
Placer	71,945	281,404	61,278	183,484	56,836	165,865	25.6%	33.4%	34.3%
Plumas	1,702	13,764	1,385	8,655	1,383	8,642	12.4%	16.0%	16.0%
Riverside	228,901	1,311,694	163,893	597,799	152,663	538,262	17.5%	27.4%	28.4%
Sacramento	170,788	870,100	134,785	481,407	129,376	452,828	19.6%	28.0%	28.6%
San Benito	5,001	37,881	3,835	19,778	3,566	18,156	13.2%	19.4%	19.6%
San Bernardino	185,849	1,152,516	123,687	453,992	112,511	389,336	16.1%	27.2%	28.9%
San Diego	378,876	1,924,972	298,746	1,030,004	281,493	929,051	19.7%	29.0%	30.3%
San Francisco	91,000	502,024	72,830	307,398	68,591	272,588	18.1%	23.7%	25.2%
San Joaquin	57,557	392,137	41,344	178,741	38,243	160,354	14.7%	23.1%	23.8%
San Luis Obispo	39,662	181,654	34,010	120,168	32,276	112,121	21.8%	28.3%	28.8%
San Mateo	91,708	431,684	73,218	250,388	70,029	232,476	21.2%	29.2%	30.1%
Santa Barbara	37,748	237,230	30,044	135,517	28,532	123,382	15.9%	22.2%	23.1%
Santa Clara	194,326	1,015,521	147,879	546,640	141,228	506,270	19.1%	27.1%	27.9%
Santa Cruz	32,729	167,359	27,487	105,175	26,165	95,857	19.6%	26.1%	27.3%
Shasta	15,164	111,717	12,232	68,459	11,061	60,057	13.6%	17.9%	18.4%
Sierra	286	2,215	248	1,573	248	1,571	12.9%	15.8%	15.8%
Siskiyou	3,556	28,923	2,890	17,684	2,691	15,404	12.3%	16.3%	17.5%
Solano	49,051	262,278	37,233	131,375	34,337	111,757	18.7%	28.3%	30.7%
Sonoma	71,399	304,099	61,136	200,016	59,358	189,793	23.5%	30.6%	31.3%
Stanislaus	44,406	282,782	32,638	131,061	30,569	120,856	15.7%	24.9%	25.3%
Sutter	7,573	52,734	5,816	28,306	5,584	26,765	14.4%	20.5%	20.9%
Tehama	4,579	37,147	3,673	20,711	3,338	17,673	12.3%	17.7%	18.9%
Trinity	907	7,272	782	4,488	745	4,224	12.5%	17.4%	17.6%
Tulare	26,880	209,495	19,064	91,553	17,308	79,199	12.8%	20.8%	21.9%
Tuolumne	6,040	35,000	5,138	23,312	5,013	22,342	17.3%	22.0%	22.4%
Ventura	107,768	507,316	85,658	282,736	79,367	252,712	21.2%	30.3%	31.4%
Yolo	26,501	117,655	21,809	67,941	20,816	62,531	22.5%	32.1%	33.3%
Yuba	5,602	41,366	4,133	19,756	3,843	17,220	13.5%	20.9%	22.3%
California	3,898,589	22,003,022	2,955,419	11,053,131	2,735,518	9,708,712	17.7%	26.7%	28.2%

Data Source: California voter files, BallotTrax

**BallotTrax Use Rates - Registered Voters
Race and Ethnicity
2022 Primary Election**

	Asian American	Black	Latino	White, non-Latino
Alameda	18.2%	19.4%	16.0%	26.3%
Alpine	0.0%	NA	8.3%	15.6%
Amador	15.5%	16.9%	12.9%	17.1%
Butte	9.5%	16.5%	13.1%	17.2%
Calaveras	16.8%	16.0%	14.3%	17.2%
Colusa	6.9%	12.4%	8.0%	12.5%
Contra Costa	19.2%	17.7%	14.9%	23.9%
Del Norte	5.8%	10.9%	8.7%	11.4%
El Dorado	18.5%	20.5%	15.0%	19.7%
Fresno	10.1%	14.8%	10.9%	19.9%
Glenn	6.8%	13.8%	8.8%	13.7%
Humboldt	11.0%	15.5%	13.3%	16.0%
Imperial	8.9%	13.0%	6.6%	13.1%
Inyo	19.0%	17.1%	10.6%	17.5%
Kern	10.9%	13.6%	8.7%	17.1%
Kings	12.7%	15.1%	9.9%	17.0%
Lake	10.0%	12.9%	9.1%	14.4%
Lassen	9.6%	12.5%	12.2%	12.8%
Los Angeles	15.5%	15.1%	12.1%	22.8%
Madera	9.2%	14.5%	9.0%	19.5%
Marin	23.2%	26.4%	19.8%	28.3%
Mariposa	17.6%	19.3%	15.2%	19.4%
Mendocino	10.4%	13.4%	9.3%	14.3%
Merced	8.7%	16.8%	10.7%	18.6%
Modoc	10.0%	9.7%	6.8%	9.0%
Mono	21.2%	18.9%	13.5%	20.3%
Monterey	14.4%	18.5%	9.3%	21.5%
Napa	14.0%	16.4%	12.0%	19.4%
Nevada	19.9%	19.2%	15.5%	19.2%
Orange	13.1%	16.6%	12.3%	17.9%
Placer	21.6%	26.5%	21.7%	26.8%
Plumas	7.1%	9.7%	9.3%	12.3%
Riverside	16.2%	18.3%	12.6%	22.0%
Sacramento	14.5%	19.0%	15.9%	22.4%
San Benito	11.2%	15.4%	9.9%	16.2%
San Bernardino	16.9%	16.4%	12.9%	20.2%
San Diego	17.7%	18.9%	12.7%	23.1%
San Francisco	13.8%	15.6%	14.7%	22.6%
San Joaquin	11.8%	14.5%	11.6%	18.6%
San Luis Obispo	17.7%	22.0%	15.0%	22.8%
San Mateo	18.8%	20.1%	15.1%	24.9%
Santa Barbara	15.4%	17.0%	10.4%	19.0%
Santa Clara	16.8%	20.5%	13.6%	23.9%
Santa Cruz	18.6%	20.9%	11.5%	21.9%
Shasta	9.4%	13.3%	10.8%	13.9%
Sierra	0.0%	20.0%	13.5%	11.9%
Siskiyou	5.8%	13.4%	10.4%	12.7%
Solano	16.5%	17.8%	14.7%	21.8%
Sonoma	19.1%	23.1%	15.0%	25.9%
Stanislaus	12.3%	17.4%	11.7%	19.1%
Sutter	8.5%	16.7%	11.4%	16.8%
Tehama	9.0%	12.3%	7.8%	12.8%
Trinity	1.2%	10.8%	11.4%	12.7%
Tulare	10.9%	15.8%	9.9%	16.7%
Tuolumne	17.5%	15.3%	14.7%	16.6%
Ventura	20.0%	22.7%	13.5%	25.2%
Yolo	20.6%	23.4%	15.0%	26.3%
Yuba	7.7%	14.0%	10.5%	15.1%
California	15.7%	16.8%	12.4%	21.8%

Data Source: California voter files, BallotTrax

**BallotTrax Use Rates - Registered Voters
Race and Ethnicity
2022 General Election**

	Asian American	Black	Latino	White, non-Latino
Alameda	17.6%	19.0%	15.4%	25.8%
Alpine	0.0%	0.0%	7.4%	15.9%
Amador	15.4%	17.8%	13.7%	18.0%
Butte	9.0%	16.1%	12.0%	16.9%
Calaveras	15.8%	16.0%	13.8%	17.3%
Colusa	7.0%	12.2%	7.6%	12.4%
Contra Costa	18.7%	17.5%	14.4%	23.7%
Del Norte	5.2%	10.7%	8.3%	11.3%
El Dorado	18.6%	21.2%	15.8%	20.4%
Fresno	9.7%	14.7%	10.6%	19.7%
Glenn	7.5%	14.4%	8.6%	14.0%
Humboldt	10.4%	15.2%	12.8%	16.0%
Imperial	8.4%	13.3%	6.5%	13.1%
Inyo	18.0%	17.3%	10.3%	17.7%
Kern	10.9%	14.2%	8.8%	17.8%
Kings	12.2%	14.9%	9.7%	17.0%
Lake	10.6%	13.2%	9.2%	14.8%
Lassen	10.4%	12.5%	12.2%	13.0%
Los Angeles	15.1%	14.8%	11.8%	22.4%
Madera	9.1%	14.5%	8.8%	19.6%
Marin	22.8%	26.2%	19.3%	28.1%
Mariposa	16.4%	19.1%	14.9%	19.4%
Mendocino	9.7%	13.3%	9.0%	14.2%
Merced	8.3%	16.4%	10.1%	18.3%
Modoc	8.3%	9.7%	6.8%	9.4%
Mono	19.6%	18.4%	12.9%	20.3%
Monterey	14.1%	18.4%	9.0%	21.3%
Napa	13.5%	16.1%	11.7%	19.2%
Nevada	19.9%	19.0%	15.3%	19.2%
Orange	12.8%	16.5%	12.0%	17.9%
Placer	20.6%	26.0%	21.0%	26.3%
Plumas	7.4%	10.1%	9.2%	12.5%
Riverside	15.6%	18.0%	12.1%	21.8%
Sacramento	14.0%	18.8%	15.5%	22.2%
San Benito	11.6%	15.5%	9.9%	16.6%
San Bernardino	16.2%	16.1%	12.5%	20.0%
San Diego	17.3%	18.8%	12.5%	23.1%
San Francisco	13.2%	15.2%	14.2%	22.0%
San Joaquin	11.2%	14.2%	11.2%	18.3%
San Luis Obispo	17.5%	22.0%	14.9%	23.0%
San Mateo	18.3%	19.9%	14.7%	24.6%
Santa Barbara	14.9%	17.0%	10.1%	19.0%
Santa Clara	16.3%	20.2%	13.3%	23.6%
Santa Cruz	18.1%	20.8%	11.2%	21.9%
Shasta	8.7%	13.3%	10.5%	13.8%
Sierra	0.0%	20.0%	15.0%	12.8%
Siskiyou	6.0%	13.5%	10.0%	12.6%
Solano	15.9%	17.4%	14.3%	21.5%
Sonoma	18.4%	22.7%	14.4%	25.4%
Stanislaus	11.9%	17.3%	11.3%	19.0%
Sutter	8.4%	16.6%	10.9%	16.9%
Tehama	8.2%	12.7%	7.7%	13.1%
Trinity	1.2%	13.5%	12.7%	12.8%
Tulare	10.4%	15.8%	9.6%	16.7%
Tuolumne	17.5%	16.0%	15.4%	17.4%
Ventura	19.7%	22.8%	13.2%	25.3%
Yolo	19.6%	23.1%	14.5%	26.0%
Yuba	7.4%	13.7%	10.0%	14.9%
California	15.3%	16.6%	12.0%	21.6%

Data Source: California voter files, BallotTrax

**BallotTrax Use Rates - Actual Voters
Race and Ethnicity
2022 Primary Election**

	Asian American	Black	Latino	White, non-Latino
Alameda	30.4%	35.6%	30.0%	40.4%
Alpine	0.0%	NA	11.1%	19.2%
Amador	21.3%	23.0%	19.8%	22.5%
Butte	23.1%	25.3%	25.6%	25.5%
Calaveras	26.1%	22.8%	24.6%	24.3%
Colusa	15.0%	15.3%	14.2%	16.8%
Contra Costa	31.7%	31.8%	27.8%	35.6%
Del Norte	12.8%	17.2%	19.0%	17.8%
El Dorado	29.8%	30.1%	26.9%	28.4%
Fresno	20.8%	28.2%	22.9%	31.5%
Glenn	10.8%	19.7%	15.8%	19.2%
Humboldt	22.9%	24.3%	24.2%	24.4%
Imperial	16.6%	19.9%	12.5%	20.9%
Inyo	36.4%	21.7%	17.8%	22.6%
Kern	20.4%	25.7%	19.9%	27.6%
Kings	23.5%	26.8%	20.5%	27.1%
Lake	18.8%	23.0%	20.6%	23.5%
Lassen	14.3%	18.0%	19.1%	17.8%
Los Angeles	26.8%	29.5%	24.5%	36.2%
Madera	18.8%	22.7%	17.7%	28.8%
Marin	34.8%	37.7%	32.9%	37.9%
Mariposa	26.1%	26.3%	23.5%	26.7%
Mendocino	16.1%	21.6%	18.4%	22.1%
Merced	16.3%	27.9%	21.2%	28.3%
Modoc	20.0%	12.9%	10.0%	12.2%
Mono	30.4%	29.4%	26.6%	30.6%
Monterey	24.5%	29.4%	19.2%	31.2%
Napa	22.4%	24.5%	20.7%	26.6%
Nevada	31.3%	26.4%	26.1%	26.4%
Orange	18.5%	24.6%	21.1%	24.9%
Placer	35.8%	38.9%	35.9%	37.9%
Plumas	10.0%	13.4%	13.3%	16.6%
Riverside	28.3%	31.6%	25.6%	34.2%
Sacramento	24.1%	30.9%	27.5%	32.9%
San Benito	19.1%	23.6%	16.8%	23.8%
San Bernardino	30.3%	31.6%	27.3%	33.9%
San Diego	29.2%	32.3%	25.3%	35.1%
San Francisco	17.9%	24.9%	22.2%	29.3%
San Joaquin	20.8%	26.5%	22.8%	29.0%
San Luis Obispo	28.0%	31.1%	26.6%	31.3%
San Mateo	28.2%	32.0%	25.7%	35.6%
Santa Barbara	24.9%	24.8%	19.1%	26.3%
Santa Clara	24.8%	32.5%	23.6%	34.3%
Santa Cruz	29.2%	29.2%	21.5%	30.1%
Shasta	18.2%	19.4%	18.5%	19.5%
Sierra	0.0%	33.3%	18.6%	15.9%
Siskiyou	7.2%	20.0%	21.0%	17.9%
Solano	30.3%	32.4%	29.9%	35.9%
Sonoma	30.5%	34.5%	27.5%	35.9%
Stanislaus	23.7%	29.3%	24.3%	29.9%
Sutter	11.3%	24.8%	23.7%	24.0%
Tehama	21.1%	19.2%	17.1%	19.6%
Trinity	7.1%	15.8%	16.4%	17.3%
Tulare	21.2%	25.2%	20.6%	26.0%
Tuolumne	30.4%	22.7%	24.9%	23.8%
Ventura	31.8%	33.9%	25.2%	35.4%
Yolo	33.0%	37.2%	28.1%	38.0%
Yuba	17.5%	24.1%	20.8%	24.6%
California	25.1%	30.4%	24.3%	32.5%

Data Source: California voter files, BallotTrax

**BallotTrax Use Rates - Actual Voters
Race and Ethnicity
2022 General Election**

	Asian American	Black	Latino	White, non-Latino
Alameda	26.9%	30.1%	25.4%	34.7%
Alpine	0.0%	NA	15.4%	20.1%
Amador	20.6%	21.9%	18.9%	21.4%
Butte	18.6%	23.1%	21.0%	23.1%
Calaveras	24.5%	20.8%	20.3%	22.1%
Colusa	10.5%	15.9%	12.2%	15.6%
Contra Costa	27.5%	27.3%	23.6%	31.4%
Del Norte	11.3%	15.9%	16.2%	16.2%
El Dorado	25.8%	26.6%	22.6%	25.2%
Fresno	18.9%	25.0%	19.5%	28.0%
Glenn	15.1%	19.8%	15.7%	18.5%
Humboldt	20.4%	21.9%	21.1%	22.1%
Imperial	13.0%	19.7%	11.9%	19.7%
Inyo	25.0%	21.1%	15.3%	21.5%
Kern	16.6%	23.7%	17.2%	25.6%
Kings	20.5%	23.6%	17.9%	24.6%
Lake	15.2%	20.0%	17.0%	20.9%
Lassen	11.1%	16.9%	16.9%	17.1%
Los Angeles	24.2%	26.2%	21.5%	32.2%
Madera	14.8%	20.8%	15.4%	26.3%
Marin	30.5%	33.1%	28.2%	33.8%
Mariposa	23.3%	23.3%	21.6%	24.6%
Mendocino	15.9%	19.1%	16.0%	19.6%
Merced	14.0%	24.5%	18.0%	25.4%
Modoc	0.0%	12.2%	9.6%	11.9%
Mono	24.2%	26.1%	22.9%	26.8%
Monterey	21.4%	26.0%	15.9%	27.7%
Napa	19.4%	22.2%	18.5%	24.2%
Nevada	26.8%	24.3%	22.8%	24.2%
Orange	17.5%	22.2%	18.7%	22.7%
Placer	30.6%	34.5%	30.7%	33.7%
Plumas	8.3%	13.0%	12.1%	16.2%
Riverside	24.8%	27.5%	21.6%	30.1%
Sacramento	21.7%	27.9%	24.4%	29.7%
San Benito	17.8%	21.7%	15.5%	22.2%
San Bernardino	26.4%	27.6%	23.4%	29.8%
San Diego	26.0%	28.6%	22.2%	31.0%
San Francisco	17.7%	22.4%	20.0%	27.0%
San Joaquin	18.4%	23.3%	19.4%	25.7%
San Luis Obispo	24.8%	28.3%	24.0%	28.8%
San Mateo	26.0%	28.2%	22.8%	31.7%
Santa Barbara	21.5%	22.3%	16.9%	23.8%
Santa Clara	23.0%	28.9%	21.0%	31.0%
Santa Cruz	24.9%	26.5%	18.5%	27.4%
Shasta	16.3%	17.9%	16.4%	17.9%
Sierra	0.0%	25.0%	21.5%	15.5%
Siskiyou	11.4%	17.9%	17.3%	16.4%
Solano	25.4%	27.2%	24.1%	30.2%
Sonoma	26.3%	30.1%	23.4%	31.5%
Stanislaus	20.1%	26.5%	20.3%	26.9%
Sutter	11.1%	22.9%	19.6%	22.5%
Tehama	17.2%	17.4%	14.6%	18.0%
Trinity	6.3%	17.4%	20.0%	17.5%
Tulare	17.4%	22.7%	17.4%	23.2%
Tuolumne	27.7%	21.3%	22.5%	22.0%
Ventura	28.4%	31.1%	22.7%	32.5%
Yolo	29.6%	32.7%	24.5%	34.2%
Yuba	14.5%	21.3%	18.5%	21.5%
California	22.9%	26.9%	21.1%	29.1%

Data Source: California voter files, BallotTrax

**BallotTrax Use Rates - Vote-by-Mail Voters
Race and Ethnicity
2022 Primary Election**

	Asian American	Black	Latino	White, non-Latino
Alameda	30.6%	36.2%	30.5%	41.0%
Alpine	0.0%	NA	11.1%	19.2%
Amador	21.7%	23.4%	19.7%	22.7%
Butte	22.9%	25.4%	25.7%	25.5%
Calaveras	27.3%	23.0%	25.2%	24.8%
Colusa	11.1%	16.4%	14.6%	17.2%
Contra Costa	32.1%	32.5%	28.3%	36.5%
Del Norte	13.3%	18.5%	21.2%	19.1%
El Dorado	29.9%	30.5%	27.1%	28.7%
Fresno	20.9%	28.8%	23.5%	32.2%
Glenn	11.1%	20.6%	15.9%	19.6%
Humboldt	23.9%	25.4%	26.1%	25.4%
Imperial	17.3%	20.7%	12.7%	21.4%
Inyo	38.1%	23.3%	19.1%	23.9%
Kern	20.7%	26.8%	20.5%	28.7%
Kings	23.8%	27.4%	20.9%	27.6%
Lake	20.0%	24.3%	22.0%	24.7%
Lassen	15.0%	18.2%	19.3%	17.9%
Los Angeles	27.8%	31.9%	26.7%	38.9%
Madera	19.4%	23.0%	18.0%	29.3%
Marin	35.2%	38.4%	33.7%	38.5%
Mariposa	26.1%	26.3%	23.5%	26.7%
Mendocino	16.4%	22.2%	18.8%	22.5%
Merced	16.2%	28.0%	21.3%	28.3%
Modoc	20.0%	13.8%	8.6%	12.6%
Mono	31.8%	31.3%	29.9%	32.6%
Monterey	24.8%	29.9%	19.5%	31.8%
Napa	22.4%	24.6%	20.8%	26.6%
Nevada	31.4%	26.9%	26.8%	26.7%
Orange	18.7%	25.8%	22.0%	26.1%
Placer	36.2%	39.4%	36.6%	38.5%
Plumas	11.1%	13.4%	13.3%	16.7%
Riverside	28.5%	32.2%	26.1%	34.9%
Sacramento	24.0%	31.2%	27.7%	33.2%
San Benito	19.3%	23.9%	16.8%	23.9%
San Bernardino	30.7%	33.0%	28.5%	35.6%
San Diego	29.6%	33.2%	25.9%	36.0%
San Francisco	18.3%	26.4%	23.6%	31.0%
San Joaquin	20.9%	27.1%	23.1%	29.5%
San Luis Obispo	28.4%	31.3%	26.8%	31.6%
San Mateo	28.4%	32.7%	26.1%	36.2%
Santa Barbara	25.4%	25.5%	19.5%	27.0%
Santa Clara	25.0%	33.2%	24.0%	34.9%
Santa Cruz	29.7%	29.8%	21.9%	30.8%
Shasta	18.7%	19.9%	19.0%	20.0%
Sierra	0.0%	33.3%	18.6%	16.0%
Siskiyou	7.6%	20.5%	22.4%	18.9%
Solano	31.3%	34.3%	31.0%	37.9%
Sonoma	30.7%	34.9%	27.8%	36.3%
Stanislaus	23.8%	29.4%	24.5%	29.9%
Sutter	11.3%	25.0%	23.9%	24.2%
Tehama	20.6%	20.5%	17.8%	20.5%
Trinity	7.1%	16.7%	15.9%	17.4%
Tulare	21.9%	26.1%	21.3%	26.8%
Tuolumne	30.4%	22.9%	25.0%	24.0%
Ventura	32.3%	34.7%	25.7%	36.2%
Yolo	33.4%	37.8%	28.5%	38.6%
Yuba	18.0%	25.3%	21.5%	25.9%
California	25.5%	31.8%	25.4%	33.6%

Data Source: California voter files, BallotTrax

**BallotTrax Use Rates - Vote-by-Mail Voters
Race and Ethnicity
2022 General Election**

	Asian American	Black	Latino	White, non-Latino
Alameda	27.6%	31.4%	26.5%	35.9%
Alpine	0.0%	NA	15.4%	20.1%
Amador	21.7%	22.4%	18.2%	21.8%
Butte	18.7%	23.3%	21.4%	23.3%
Calaveras	25.5%	21.4%	21.3%	22.7%
Colusa	11.1%	17.1%	12.9%	16.2%
Contra Costa	28.2%	28.5%	24.7%	32.7%
Del Norte	12.1%	16.6%	18.2%	17.3%
El Dorado	26.5%	27.2%	23.2%	25.8%
Fresno	19.3%	25.9%	20.5%	29.2%
Glenn	12.2%	19.5%	15.9%	18.8%
Humboldt	21.4%	23.4%	22.7%	23.5%
Imperial	13.3%	20.2%	12.1%	20.1%
Inyo	27.3%	21.6%	17.0%	22.8%
Kern	17.2%	25.0%	18.0%	27.1%
Kings	20.8%	24.4%	18.3%	25.4%
Lake	15.7%	21.6%	18.6%	22.4%
Lassen	11.4%	17.1%	16.7%	17.3%
Los Angeles	25.6%	29.0%	23.9%	35.6%
Madera	14.8%	21.4%	15.8%	27.1%
Marin	31.2%	34.5%	29.6%	35.0%
Mariposa	23.3%	23.6%	21.8%	24.7%
Mendocino	15.6%	19.4%	16.0%	20.0%
Merced	14.1%	24.6%	18.3%	25.5%
Modoc	0.0%	13.2%	8.3%	12.5%
Mono	25.8%	26.3%	25.7%	29.0%
Monterey	21.9%	26.8%	16.4%	28.4%
Napa	19.8%	22.5%	18.6%	24.5%
Nevada	27.8%	24.7%	23.8%	24.9%
Orange	18.0%	23.9%	20.0%	24.3%
Placer	31.1%	35.4%	31.7%	34.6%
Plumas	9.1%	13.1%	12.1%	16.2%
Riverside	25.4%	28.4%	22.4%	31.1%
Sacramento	22.0%	28.6%	24.9%	30.4%
San Benito	17.5%	21.7%	15.7%	22.6%
San Bernardino	27.4%	29.2%	24.8%	31.7%
San Diego	26.7%	30.0%	23.3%	32.4%
San Francisco	18.3%	24.2%	21.6%	29.0%
San Joaquin	18.6%	24.1%	20.1%	26.5%
San Luis Obispo	25.3%	28.9%	24.5%	29.3%
San Mateo	26.5%	29.3%	23.5%	32.7%
Santa Barbara	22.7%	23.4%	17.4%	24.8%
Santa Clara	23.5%	30.1%	21.7%	32.0%
Santa Cruz	25.9%	27.7%	19.4%	28.6%
Shasta	16.7%	18.3%	16.9%	18.5%
Sierra	0.0%	25.0%	21.5%	15.5%
Siskiyou	12.7%	18.8%	18.8%	17.5%
Solano	26.9%	29.6%	26.3%	32.8%
Sonoma	26.6%	30.7%	24.1%	32.2%
Stanislaus	20.1%	27.0%	20.8%	27.3%
Sutter	11.1%	23.4%	20.3%	22.8%
Tehama	18.0%	18.8%	15.8%	19.2%
Trinity	7.1%	18.2%	19.8%	17.7%
Tulare	18.5%	23.6%	18.3%	24.3%
Tuolumne	28.6%	21.8%	23.1%	22.4%
Ventura	29.2%	32.2%	23.5%	33.7%
Yolo	30.9%	33.9%	25.6%	35.3%
Yuba	14.9%	22.6%	19.9%	23.0%
California	23.7%	28.6%	22.5%	30.6%

Data Source: California voter files, BallotTrax

BallotTrax Use Rates - Registered Voters
Age Groups
2022 Primary Election

	18-24	25-34	35-44	45-54	55-64	65+
Alameda	14.1%	19.0%	22.9%	24.7%	23.5%	22.6%
Alpine	2.0%	12.0%	14.0%	14.8%	20.0%	15.0%
Amador	6.8%	11.5%	16.8%	18.4%	18.6%	18.6%
Butte	10.1%	13.9%	18.2%	19.4%	18.7%	17.1%
Calaveras	8.5%	10.3%	15.1%	18.0%	18.4%	19.8%
Colusa	8.4%	10.5%	12.6%	11.5%	11.9%	9.2%
Contra Costa	13.1%	15.2%	20.6%	23.8%	24.1%	24.0%
Del Norte	4.6%	7.9%	11.7%	12.2%	12.3%	12.1%
El Dorado	10.5%	13.0%	18.7%	21.7%	22.8%	21.3%
Fresno	9.3%	12.0%	16.0%	17.9%	17.6%	16.8%
Glenn	7.6%	11.4%	15.1%	17.3%	12.8%	10.6%
Humboldt	9.8%	13.0%	15.2%	16.3%	17.1%	18.0%
Imperial	6.8%	8.1%	9.5%	9.0%	7.8%	5.6%
Inyo	8.0%	14.2%	19.2%	18.4%	18.9%	16.1%
Kern	7.8%	10.0%	14.2%	15.3%	16.0%	15.3%
Kings	9.1%	10.6%	15.5%	17.5%	16.0%	13.2%
Lake	6.9%	8.7%	13.1%	14.8%	15.9%	15.7%
Lassen	5.7%	10.0%	15.4%	18.3%	13.8%	10.9%
Los Angeles	11.9%	16.9%	19.5%	19.3%	17.3%	15.4%
Madera	7.8%	10.1%	13.8%	17.0%	18.2%	18.7%
Marin	16.2%	19.8%	24.9%	29.5%	31.3%	30.6%
Mariposa	8.5%	14.1%	19.0%	20.3%	22.6%	20.0%
Mendocino	7.6%	9.3%	11.6%	13.0%	15.0%	16.8%
Merced	9.3%	11.8%	15.9%	16.9%	15.6%	14.4%
Modoc	5.7%	7.3%	11.1%	10.0%	10.6%	7.9%
Mono	13.3%	15.0%	18.6%	19.7%	20.9%	23.3%
Monterey	10.1%	12.1%	14.7%	16.2%	17.6%	19.4%
Napa	12.8%	14.2%	18.3%	20.0%	18.9%	18.1%
Nevada	10.5%	12.2%	17.3%	20.6%	22.1%	21.3%
Orange	11.7%	15.2%	18.0%	17.6%	16.5%	14.8%
Placer	13.7%	16.8%	25.3%	29.4%	30.5%	30.4%
Plumas	4.9%	10.0%	12.2%	12.4%	14.5%	12.7%
Riverside	10.3%	13.1%	18.4%	20.3%	21.1%	21.3%
Sacramento	11.2%	16.3%	21.6%	23.2%	22.8%	21.2%
San Benito	9.2%	11.3%	13.4%	13.6%	15.9%	13.5%
San Bernardino	10.4%	13.0%	17.8%	19.6%	19.2%	18.2%
San Diego	11.6%	15.2%	20.3%	22.3%	22.8%	22.9%
San Francisco	11.7%	20.4%	22.5%	21.5%	18.5%	14.1%
San Joaquin	9.6%	11.9%	15.8%	17.9%	17.8%	16.4%
San Luis Obispo	12.8%	16.2%	21.9%	23.8%	24.1%	24.4%
San Mateo	15.2%	18.1%	22.8%	25.1%	24.1%	21.5%
Santa Barbara	10.7%	14.2%	17.3%	17.6%	17.6%	17.5%
Santa Clara	14.4%	18.0%	21.0%	21.7%	21.0%	19.2%
Santa Cruz	12.5%	14.5%	18.6%	21.3%	23.3%	22.7%
Shasta	7.0%	10.5%	15.3%	16.5%	15.5%	13.7%
Sierra	9.9%	9.6%	12.2%	13.7%	13.6%	11.4%
Siskiyou	7.6%	10.5%	13.4%	13.1%	14.4%	12.1%
Solano	10.3%	12.6%	17.1%	20.0%	22.0%	25.3%
Sonoma	12.8%	16.9%	22.3%	25.4%	26.7%	28.9%
Stanislaus	10.1%	12.6%	17.8%	19.4%	18.6%	16.7%
Sutter	10.1%	11.9%	15.8%	17.6%	16.8%	14.0%
Tehama	5.5%	9.5%	13.0%	15.4%	14.4%	12.2%
Trinity	4.4%	9.1%	11.5%	12.0%	13.0%	14.3%
Tulare	8.3%	10.6%	15.1%	16.1%	15.4%	13.3%
Tuolumne	7.8%	12.1%	17.0%	19.2%	18.6%	17.2%
Ventura	13.2%	16.1%	21.6%	23.9%	25.0%	24.0%
Yolo	15.7%	18.5%	24.4%	25.9%	26.1%	25.4%
Yuba	7.8%	10.2%	15.8%	16.1%	16.1%	14.7%
California	11.5%	15.4%	19.3%	20.5%	19.9%	18.9%

Data Source: California voter files, BallotTrax

BallotTrax Use Rates - Registered Voters
Age Groups
2022 General Election

	18-24	25-34	35-44	45-54	55-64	65+
Alameda	12.9%	18.0%	22.3%	24.3%	23.4%	22.8%
Alpine	NA	10.0%	13.2%	12.0%	22.1%	16.3%
Amador	6.8%	12.0%	18.1%	19.4%	19.8%	19.4%
Butte	7.8%	12.8%	17.6%	19.2%	18.9%	17.9%
Calaveras	7.3%	9.9%	14.8%	17.6%	19.0%	20.4%
Colusa	7.5%	10.3%	12.2%	11.8%	12.0%	9.2%
Contra Costa	12.1%	14.6%	20.1%	23.6%	24.1%	24.4%
Del Norte	3.7%	7.7%	11.1%	11.9%	12.7%	12.2%
El Dorado	10.0%	13.9%	19.3%	22.4%	23.6%	22.3%
Fresno	8.5%	11.6%	15.7%	17.7%	17.5%	17.2%
Glenn	7.1%	11.2%	15.1%	17.5%	13.7%	11.1%
Humboldt	8.6%	12.6%	15.1%	16.4%	17.3%	18.6%
Imperial	6.2%	8.0%	9.4%	9.1%	7.9%	5.8%
Inyo	7.2%	13.3%	19.3%	19.0%	19.2%	16.9%
Kern	7.5%	10.0%	14.5%	15.9%	16.9%	16.5%
Kings	8.1%	10.4%	15.3%	17.5%	16.0%	13.6%
Lake	6.7%	8.8%	13.5%	15.3%	16.2%	16.4%
Lassen	5.3%	9.9%	14.9%	18.6%	14.3%	11.5%
Los Angeles	11.0%	16.4%	19.3%	19.2%	17.3%	15.7%
Madera	7.1%	9.8%	13.6%	17.0%	18.4%	19.4%
Marin	14.9%	18.6%	24.2%	29.2%	31.5%	31.4%
Mariposa	7.7%	13.2%	18.5%	19.0%	23.8%	20.7%
Mendocino	7.1%	8.8%	11.2%	12.8%	15.2%	17.0%
Merced	8.4%	11.2%	15.5%	16.4%	15.2%	14.6%
Modoc	5.2%	7.4%	11.0%	9.6%	11.2%	8.7%
Mono	10.9%	14.5%	19.1%	20.5%	21.0%	23.5%
Monterey	9.2%	11.7%	14.3%	16.1%	17.6%	19.7%
Napa	11.5%	13.7%	17.9%	19.7%	18.9%	18.4%
Nevada	9.8%	12.0%	16.9%	20.6%	22.4%	21.7%
Orange	10.8%	14.7%	17.8%	17.5%	16.6%	15.2%
Placer	12.5%	15.8%	24.6%	29.1%	30.2%	30.6%
Plumas	4.5%	9.4%	12.1%	12.3%	14.9%	13.5%
Riverside	9.3%	12.6%	17.9%	19.9%	21.0%	21.6%
Sacramento	10.3%	15.6%	21.2%	23.0%	22.8%	21.7%
San Benito	8.4%	11.2%	13.9%	14.1%	16.4%	14.2%
San Bernardino	9.6%	12.6%	17.6%	19.3%	19.0%	18.4%
San Diego	10.7%	14.8%	20.1%	22.3%	23.1%	23.6%
San Francisco	10.5%	18.9%	22.1%	21.2%	18.5%	14.2%
San Joaquin	8.8%	11.5%	15.4%	17.5%	17.7%	16.5%
San Luis Obispo	11.1%	15.6%	21.8%	23.9%	24.7%	25.4%
San Mateo	14.0%	17.3%	22.3%	24.9%	24.2%	21.8%
Santa Barbara	9.3%	13.7%	17.2%	17.5%	17.8%	18.2%
Santa Clara	13.3%	17.2%	20.6%	21.5%	21.0%	19.6%
Santa Cruz	11.3%	14.0%	18.4%	21.4%	23.6%	23.3%
Shasta	6.3%	10.1%	15.1%	16.2%	15.6%	14.2%
Sierra	8.8%	10.3%	13.3%	15.6%	14.2%	12.4%
Siskiyou	6.4%	10.1%	13.1%	13.0%	14.3%	12.5%
Solano	9.5%	11.9%	16.7%	19.6%	21.8%	25.4%
Sonoma	11.7%	16.0%	21.7%	25.0%	26.4%	29.1%
Stanislaus	9.2%	12.1%	17.5%	19.1%	18.5%	17.1%
Sutter	9.1%	11.6%	15.4%	17.5%	17.2%	14.3%
Tehama	5.2%	9.1%	13.0%	15.6%	14.9%	12.9%
Trinity	4.6%	9.2%	11.5%	12.4%	12.9%	14.7%
Tulare	7.6%	10.3%	15.0%	16.1%	15.5%	13.7%
Tuolumne	7.6%	12.6%	18.0%	20.3%	19.5%	18.1%
Ventura	12.3%	15.6%	21.4%	23.9%	25.2%	24.7%
Yolo	13.5%	17.6%	24.3%	25.7%	26.1%	26.1%
Yuba	7.1%	9.5%	15.4%	16.1%	16.2%	15.1%
California	10.6%	14.9%	19.1%	20.4%	20.0%	19.4%

Data Source: California voter files, BallotTrax

BallotTrax Use Rates - Actual Voters
Age Groups
2022 Primary Election

	18-24	25-34	35-44	45-54	55-64	65+
Alameda	23.9%	36.3%	40.7%	41.7%	38.0%	33.2%
Alpine	NA	12.0%	14.9%	18.2%	25.0%	17.6%
Amador	10.6%	18.8%	23.8%	26.0%	24.8%	21.5%
Butte	19.1%	28.2%	31.9%	32.2%	27.6%	21.7%
Calaveras	12.6%	20.4%	26.9%	27.2%	25.0%	23.9%
Colusa	14.8%	22.7%	24.9%	18.2%	18.2%	12.2%
Contra Costa	22.4%	30.6%	37.1%	38.8%	36.4%	32.3%
Del Norte	9.0%	17.4%	22.4%	21.9%	18.4%	16.2%
El Dorado	17.1%	23.7%	32.0%	33.3%	31.5%	26.2%
Fresno	20.8%	29.1%	34.9%	34.8%	30.2%	24.7%
Glenn	13.9%	21.9%	26.7%	28.9%	18.0%	14.2%
Humboldt	16.8%	25.5%	27.6%	26.0%	25.4%	22.9%
Imperial	12.5%	20.6%	22.2%	18.6%	15.1%	10.2%
Inyo	12.1%	23.9%	25.8%	26.7%	25.0%	19.3%
Kern	17.7%	25.6%	31.9%	30.1%	27.4%	22.4%
Kings	20.0%	26.1%	32.7%	31.8%	27.8%	19.3%
Lake	15.9%	21.5%	25.7%	27.2%	26.1%	21.6%
Lassen	12.4%	20.0%	23.6%	25.3%	19.5%	13.5%
Los Angeles	23.3%	37.5%	40.4%	36.5%	31.1%	25.3%
Madera	17.1%	24.9%	26.5%	29.5%	27.9%	24.7%
Marin	25.2%	31.6%	36.3%	41.3%	41.2%	36.8%
Mariposa	13.5%	26.2%	30.1%	31.2%	31.3%	23.8%
Mendocino	15.1%	19.3%	20.3%	22.1%	23.9%	21.8%
Merced	18.6%	27.4%	33.9%	31.1%	27.4%	21.0%
Modoc	21.2%	14.0%	18.6%	14.3%	14.7%	9.4%
Mono	30.0%	28.9%	32.4%	32.1%	31.2%	29.3%
Monterey	19.5%	27.1%	30.9%	30.3%	29.3%	27.1%
Napa	21.2%	26.7%	31.1%	30.5%	26.8%	22.9%
Nevada	16.1%	22.0%	27.5%	29.9%	30.0%	25.1%
Orange	19.0%	28.0%	30.4%	27.6%	24.2%	19.5%
Placer	23.8%	31.3%	39.9%	42.8%	40.5%	36.5%
Plumas	7.4%	20.2%	19.2%	15.8%	18.8%	15.4%
Riverside	20.5%	29.6%	36.5%	36.3%	34.4%	29.8%
Sacramento	20.3%	31.5%	37.2%	37.0%	33.3%	27.2%
San Benito	18.8%	21.2%	24.5%	24.0%	23.5%	17.9%
San Bernardino	23.9%	31.6%	38.2%	37.9%	33.6%	27.6%
San Diego	21.6%	32.3%	37.5%	37.7%	35.0%	30.7%
San Francisco	16.8%	29.8%	31.3%	29.1%	25.0%	18.8%
San Joaquin	20.0%	26.9%	32.5%	32.7%	29.0%	23.1%
San Luis Obispo	21.3%	31.3%	35.2%	35.9%	32.5%	29.1%
San Mateo	24.9%	32.2%	37.3%	38.3%	35.6%	29.4%
Santa Barbara	20.1%	29.8%	30.1%	29.4%	26.1%	22.1%
Santa Clara	23.4%	33.5%	35.5%	33.9%	31.4%	26.5%
Santa Cruz	20.7%	27.1%	30.5%	31.9%	31.5%	28.0%
Shasta	13.0%	19.3%	24.7%	24.2%	21.1%	16.9%
Sierra	23.8%	21.9%	25.0%	19.5%	16.3%	13.4%
Siskiyou	12.8%	19.0%	22.4%	20.7%	20.7%	15.5%
Solano	21.5%	27.4%	33.2%	35.6%	35.2%	34.9%
Sonoma	22.8%	30.7%	36.4%	38.4%	36.6%	34.8%
Stanislaus	21.0%	29.4%	36.8%	35.9%	30.8%	23.7%
Sutter	19.0%	22.1%	26.9%	27.6%	25.0%	18.6%
Tehama	11.9%	22.7%	24.7%	26.1%	22.1%	16.1%
Trinity	6.0%	13.3%	18.3%	18.6%	17.8%	17.1%
Tulare	18.6%	26.9%	33.6%	31.2%	26.3%	19.3%
Tuolumne	14.9%	25.4%	31.2%	30.3%	25.9%	21.2%
Ventura	23.4%	30.2%	36.4%	37.7%	36.5%	31.3%
Yolo	26.3%	35.5%	41.8%	40.9%	38.2%	33.0%
Yuba	17.8%	21.2%	30.4%	28.9%	26.0%	20.7%
California	21.6%	32.4%	36.3%	35.1%	31.6%	26.7%

Data Source: California voter files, BallotTrax

BallotTrax Use Rates - Actual Voters
Age Groups
2022 General Election

	18-24	25-34	35-44	45-54	55-64	65+
Alameda	20.2%	29.2%	33.8%	34.9%	32.3%	29.9%
Alpine	NA	26.5%	14.8%	13.0%	26.1%	18.5%
Amador	9.5%	17.1%	23.3%	23.9%	22.9%	20.9%
Butte	15.5%	22.6%	26.9%	27.2%	24.0%	20.7%
Calaveras	8.8%	16.4%	22.2%	23.3%	22.8%	22.7%
Colusa	15.1%	18.8%	18.5%	16.6%	15.5%	10.8%
Contra Costa	19.3%	25.2%	30.5%	32.7%	31.2%	29.6%
Del Norte	6.8%	14.1%	19.0%	18.3%	17.5%	14.9%
El Dorado	14.6%	19.8%	26.0%	27.9%	27.6%	24.6%
Fresno	16.6%	24.3%	29.3%	28.4%	25.3%	22.3%
Glenn	13.8%	19.2%	24.9%	25.6%	18.2%	13.5%
Humboldt	14.2%	21.0%	24.1%	23.4%	22.6%	21.7%
Imperial	13.3%	19.4%	19.6%	16.3%	13.0%	9.1%
Inyo	11.0%	20.3%	24.6%	23.9%	22.8%	18.7%
Kern	15.0%	21.0%	26.4%	25.5%	24.0%	21.2%
Kings	16.7%	21.3%	28.5%	27.7%	22.9%	17.5%
Lake	12.5%	17.9%	22.7%	22.4%	22.0%	19.7%
Lassen	9.2%	15.4%	21.4%	24.3%	17.6%	13.4%
Los Angeles	19.5%	31.2%	34.5%	31.2%	26.8%	23.0%
Madera	14.8%	19.7%	22.7%	25.2%	24.3%	23.1%
Marin	21.7%	25.5%	30.8%	35.4%	36.5%	34.6%
Mariposa	10.9%	22.9%	25.9%	26.1%	27.9%	23.2%
Mendocino	13.5%	15.8%	17.9%	19.2%	21.0%	19.8%
Merced	16.1%	22.5%	27.4%	25.6%	21.7%	18.8%
Modoc	11.2%	13.5%	15.9%	13.5%	13.8%	9.7%
Mono	20.4%	23.3%	28.0%	28.4%	26.2%	27.1%
Monterey	15.7%	22.2%	24.9%	24.9%	24.3%	24.4%
Napa	18.0%	22.6%	26.3%	26.3%	23.7%	21.6%
Nevada	14.6%	19.1%	23.4%	26.5%	26.7%	24.1%
Orange	16.4%	23.8%	25.8%	23.7%	21.2%	18.3%
Placer	19.1%	25.4%	33.6%	36.9%	35.7%	34.3%
Plumas	8.7%	17.9%	16.6%	15.6%	17.7%	15.4%
Riverside	17.1%	24.0%	30.2%	30.1%	29.2%	26.9%
Sacramento	17.2%	26.4%	31.9%	32.0%	29.6%	25.8%
San Benito	15.2%	19.6%	22.0%	20.7%	21.1%	16.9%
San Bernardino	19.5%	26.3%	31.7%	31.3%	28.1%	24.7%
San Diego	18.1%	26.3%	31.3%	31.9%	30.5%	28.7%
San Francisco	14.1%	25.2%	29.0%	27.4%	23.8%	18.1%
San Joaquin	16.9%	22.1%	26.4%	26.8%	24.4%	20.8%
San Luis Obispo	17.5%	25.0%	29.9%	31.1%	29.7%	28.3%
San Mateo	21.7%	26.6%	31.9%	33.2%	31.2%	27.1%
Santa Barbara	15.1%	24.1%	25.5%	24.3%	22.5%	20.9%
Santa Clara	20.7%	28.0%	30.7%	29.6%	27.6%	24.6%
Santa Cruz	16.4%	22.0%	26.9%	28.4%	28.8%	26.6%
Shasta	10.7%	16.1%	21.6%	21.3%	19.1%	16.1%
Sierra	16.2%	21.1%	18.5%	18.1%	16.5%	13.7%
Siskiyou	9.4%	17.0%	20.6%	19.0%	18.2%	14.5%
Solano	15.7%	21.9%	27.5%	29.0%	29.2%	31.1%
Sonoma	18.7%	25.0%	29.7%	32.1%	31.8%	32.3%
Stanislaus	17.3%	24.2%	30.0%	29.6%	26.0%	21.8%
Sutter	15.9%	18.8%	24.7%	24.2%	22.4%	17.6%
Tehama	9.3%	18.1%	21.2%	22.4%	19.5%	15.2%
Trinity	11.2%	16.5%	19.7%	19.4%	17.8%	16.7%
Tulare	15.3%	21.7%	26.7%	24.4%	21.6%	17.1%
Tuolumne	11.5%	20.9%	26.0%	27.0%	23.8%	20.2%
Ventura	20.3%	26.5%	32.4%	33.4%	32.7%	29.6%
Yolo	21.0%	29.3%	35.9%	35.5%	34.1%	31.5%
Yuba	13.1%	18.1%	25.8%	23.8%	22.1%	18.7%
California	18.1%	26.7%	30.7%	30.0%	27.5%	24.6%

Data Source: California voter files, BallotTrax

BallotTrax Use Rates - Vote-by-Mail Voters
Age Groups
2022 Primary Election

	18-24	25-34	35-44	45-54	55-64	65+
Alameda	24.2%	36.7%	41.2%	42.2%	38.7%	33.7%
Alpine	NA	12.0%	14.9%	18.2%	25.0%	17.6%
Amador	10.7%	18.9%	24.7%	25.9%	25.0%	21.7%
Butte	19.2%	28.3%	32.0%	32.3%	27.7%	21.8%
Calaveras	12.3%	20.6%	27.2%	28.0%	25.5%	24.5%
Colusa	16.0%	23.5%	25.6%	19.3%	18.6%	12.3%
Contra Costa	22.8%	30.9%	37.8%	39.8%	37.6%	33.0%
Del Norte	9.3%	18.5%	23.7%	24.1%	20.6%	17.2%
El Dorado	17.6%	24.0%	32.2%	33.7%	31.8%	26.5%
Fresno	21.2%	29.9%	35.9%	35.7%	31.3%	25.2%
Glenn	14.1%	22.3%	27.4%	29.6%	18.2%	14.4%
Humboldt	17.4%	26.7%	28.6%	27.8%	27.1%	23.7%
Imperial	13.2%	20.9%	22.3%	18.8%	15.6%	10.4%
Inyo	14.2%	24.4%	27.7%	29.3%	26.8%	20.4%
Kern	18.1%	26.1%	32.7%	31.0%	28.7%	23.3%
Kings	20.4%	26.6%	33.7%	32.4%	28.4%	19.6%
Lake	16.5%	22.9%	26.5%	28.6%	27.8%	22.7%
Lassen	12.8%	20.3%	23.6%	25.1%	19.9%	13.5%
Los Angeles	24.7%	39.8%	43.5%	39.9%	34.3%	27.1%
Madera	17.6%	25.3%	26.6%	30.0%	28.7%	25.2%
Marin	25.7%	32.1%	36.7%	42.0%	42.0%	37.3%
Mariposa	13.5%	26.6%	30.2%	31.2%	31.4%	23.8%
Mendocino	15.2%	19.5%	20.7%	22.3%	24.3%	22.2%
Merced	18.7%	27.5%	33.8%	31.2%	27.7%	21.0%
Modoc	22.4%	14.7%	18.8%	15.2%	15.5%	9.6%
Mono	28.6%	32.0%	34.5%	34.2%	33.2%	31.4%
Monterey	20.0%	27.5%	31.4%	30.8%	29.9%	27.7%
Napa	21.3%	26.7%	31.4%	30.6%	26.8%	23.0%
Nevada	16.8%	22.1%	28.2%	30.8%	30.4%	25.3%
Orange	19.8%	29.0%	31.8%	29.0%	25.5%	20.2%
Placer	24.5%	31.6%	40.3%	43.5%	41.5%	37.1%
Plumas	7.4%	20.3%	19.2%	15.8%	18.9%	15.4%
Riverside	20.7%	30.0%	37.2%	37.2%	35.2%	30.4%
Sacramento	20.3%	31.7%	37.7%	37.4%	33.7%	27.5%
San Benito	19.3%	21.4%	24.4%	24.0%	23.5%	18.1%
San Bernardino	24.8%	32.6%	39.8%	39.8%	35.7%	29.0%
San Diego	22.1%	32.9%	38.3%	38.8%	36.1%	31.5%
San Francisco	17.3%	31.0%	32.5%	30.7%	26.6%	19.7%
San Joaquin	20.5%	27.1%	32.6%	33.2%	29.6%	23.7%
San Luis Obispo	21.3%	31.5%	35.4%	36.2%	32.8%	29.4%
San Mateo	25.2%	32.5%	37.7%	39.1%	36.3%	29.8%
Santa Barbara	20.5%	30.3%	30.5%	30.0%	26.9%	22.7%
Santa Clara	23.8%	34.0%	36.1%	34.5%	31.9%	26.9%
Santa Cruz	21.0%	27.7%	31.1%	32.9%	32.3%	28.6%
Shasta	13.8%	20.1%	25.3%	24.8%	21.6%	17.4%
Sierra	23.8%	21.9%	25.2%	19.5%	16.3%	13.4%
Siskiyou	13.7%	20.8%	23.5%	21.8%	22.0%	16.5%
Solano	22.4%	28.2%	34.9%	37.5%	37.5%	36.6%
Sonoma	22.9%	31.1%	36.7%	38.8%	37.0%	35.1%
Stanislaus	21.1%	29.6%	36.8%	35.9%	31.1%	23.8%
Sutter	19.4%	22.1%	27.1%	27.8%	25.0%	18.7%
Tehama	12.6%	23.1%	25.3%	27.3%	23.6%	16.9%
Trinity	4.2%	13.4%	18.9%	18.8%	18.3%	16.9%
Tulare	19.3%	27.6%	34.9%	32.5%	27.4%	19.9%
Tuolumne	15.2%	26.1%	31.3%	30.7%	26.2%	21.3%
Ventura	23.9%	30.7%	37.2%	38.7%	37.6%	32.0%
Yolo	26.8%	36.0%	42.4%	41.5%	38.8%	33.5%
Yuba	19.4%	21.9%	31.7%	29.8%	27.5%	22.0%
California	22.2%	33.4%	37.6%	36.6%	33.1%	27.6%

Data Source: California voter files, BallotTrax

BallotTrax Use Rates - Vote-by-Mail Voters
Age Groups
2022 General Election

	18-24	25-34	35-44	45-54	55-64	65+
Alameda	21.4%	30.5%	35.1%	36.3%	33.6%	30.6%
Alpine	NA	26.5%	14.8%	13.0%	26.1%	18.5%
Amador	10.0%	17.4%	24.0%	24.3%	23.3%	21.2%
Butte	16.1%	22.9%	27.1%	27.4%	24.1%	20.7%
Calaveras	8.8%	16.6%	22.8%	24.3%	23.4%	23.3%
Colusa	14.9%	20.4%	20.1%	17.7%	16.3%	11.0%
Contra Costa	20.0%	26.3%	31.7%	34.3%	32.8%	30.5%
Del Norte	7.1%	15.2%	21.2%	20.1%	19.1%	15.6%
El Dorado	14.9%	20.7%	26.8%	28.8%	28.3%	25.0%
Fresno	17.2%	25.7%	31.0%	29.8%	26.6%	23.0%
Glenn	14.3%	19.5%	25.8%	26.2%	18.2%	13.7%
Humboldt	15.5%	22.9%	25.5%	25.4%	24.6%	22.6%
Imperial	13.6%	19.4%	20.4%	16.7%	13.3%	9.4%
Inyo	11.4%	22.2%	26.5%	26.6%	24.3%	19.8%
Kern	15.7%	22.0%	27.9%	26.8%	25.7%	22.3%
Kings	17.1%	21.9%	30.0%	28.7%	23.7%	17.9%
Lake	13.7%	19.5%	24.6%	23.8%	23.9%	21.0%
Lassen	9.6%	15.5%	21.7%	24.3%	18.0%	13.4%
Los Angeles	21.5%	34.5%	38.5%	35.2%	30.2%	24.8%
Madera	15.8%	20.3%	23.4%	25.9%	25.4%	23.6%
Marin	22.4%	26.5%	32.1%	36.8%	38.0%	35.5%
Mariposa	11.2%	23.3%	26.1%	26.3%	28.0%	23.2%
Mendocino	13.7%	16.1%	18.3%	19.6%	21.3%	20.2%
Merced	16.2%	23.3%	27.7%	25.7%	22.1%	18.8%
Modoc	12.6%	14.6%	15.8%	14.3%	14.5%	10.1%
Mono	23.8%	25.0%	30.8%	31.6%	28.0%	29.0%
Monterey	16.3%	22.8%	25.9%	25.8%	25.1%	25.0%
Napa	18.3%	23.0%	26.9%	26.4%	23.8%	21.8%
Nevada	15.5%	20.2%	24.4%	27.3%	27.4%	24.5%
Orange	17.5%	25.5%	28.0%	25.6%	22.8%	19.1%
Placer	20.2%	26.4%	34.5%	37.8%	36.8%	35.0%
Plumas	8.8%	17.7%	16.6%	15.5%	17.7%	15.4%
Riverside	17.7%	25.0%	31.4%	31.2%	30.4%	27.7%
Sacramento	17.7%	27.3%	32.7%	32.7%	30.2%	26.1%
San Benito	15.6%	19.6%	22.3%	20.9%	21.5%	17.2%
San Bernardino	20.7%	28.0%	34.0%	33.4%	30.1%	26.1%
San Diego	19.1%	27.8%	32.8%	33.4%	32.0%	29.6%
San Francisco	16.1%	27.1%	30.5%	29.2%	25.4%	19.0%
San Joaquin	17.6%	22.8%	27.3%	27.8%	25.4%	21.4%
San Luis Obispo	17.9%	25.8%	30.4%	31.7%	30.1%	28.6%
San Mateo	22.3%	27.6%	32.9%	34.4%	32.3%	27.6%
Santa Barbara	16.3%	25.0%	26.5%	25.2%	23.6%	21.7%
Santa Clara	21.5%	29.1%	31.9%	30.6%	28.4%	25.2%
Santa Cruz	17.9%	22.8%	28.1%	29.8%	30.0%	27.4%
Shasta	11.7%	16.9%	22.3%	21.9%	19.8%	16.6%
Sierra	16.2%	21.1%	18.5%	18.1%	16.5%	13.7%
Siskiyou	10.3%	18.8%	21.8%	20.5%	19.7%	15.4%
Solano	17.4%	23.5%	29.9%	31.9%	31.8%	33.2%
Sonoma	19.4%	25.7%	30.4%	32.9%	32.6%	32.8%
Stanislaus	18.0%	24.9%	30.6%	30.2%	26.4%	22.0%
Sutter	16.1%	19.1%	25.1%	24.6%	22.8%	17.8%
Tehama	10.7%	19.0%	21.9%	24.6%	21.1%	16.3%
Trinity	10.7%	17.2%	20.5%	19.3%	18.4%	16.8%
Tulare	16.3%	23.0%	28.4%	25.7%	22.8%	17.9%
Tuolumne	12.0%	22.0%	26.5%	27.7%	24.3%	20.4%
Ventura	21.5%	27.7%	33.6%	34.8%	34.1%	30.5%
Yolo	23.3%	30.7%	36.8%	36.8%	35.2%	32.1%
Yuba	14.6%	19.1%	27.1%	25.8%	24.0%	19.8%
California	19.3%	28.3%	32.6%	31.9%	29.2%	25.7%

Data Source: California voter files, BallotTrax

BallotTrax Use Rates - Registered Voters
Party Affiliation
2022 Primary Election

	Democrat	Republican	No Party Preference	Other Party
Alameda	25.7%	15.8%	15.8%	14.0%
Alpine	20.4%	11.7%	9.4%	11.6%
Amador	23.4%	15.6%	12.6%	11.8%
Butte	22.0%	15.3%	11.7%	11.2%
Calaveras	24.3%	15.0%	13.5%	12.3%
Colusa	10.4%	12.9%	7.1%	8.3%
Contra Costa	25.3%	16.9%	16.0%	14.2%
Del Norte	15.5%	9.9%	8.3%	7.5%
El Dorado	26.8%	16.8%	15.6%	14.1%
Fresno	16.4%	17.4%	10.0%	11.4%
Glenn	12.2%	14.8%	8.2%	9.9%
Humboldt	20.8%	11.8%	11.6%	8.6%
Imperial	7.5%	11.1%	5.7%	6.4%
Inyo	22.4%	13.8%	15.0%	9.6%
Kern	13.4%	16.1%	9.0%	9.7%
Kings	13.1%	16.6%	10.0%	9.7%
Lake	17.5%	13.6%	9.5%	8.9%
Lassen	14.3%	13.9%	8.5%	10.1%
Los Angeles	21.0%	12.4%	12.5%	11.2%
Madera	15.2%	17.8%	9.4%	10.8%
Marin	32.2%	17.0%	22.4%	16.9%
Mariposa	28.9%	16.1%	15.1%	11.9%
Mendocino	17.2%	11.4%	9.9%	7.9%
Merced	14.0%	17.8%	9.2%	11.3%
Modoc	12.8%	8.9%	5.3%	6.5%
Mono	27.0%	14.2%	15.2%	12.3%
Monterey	18.0%	14.4%	12.0%	11.1%
Napa	21.1%	14.9%	13.0%	12.3%
Nevada	26.1%	14.4%	15.3%	13.7%
Orange	20.4%	12.9%	13.1%	12.4%
Placer	32.6%	24.9%	21.5%	18.6%
Plumas	16.4%	11.7%	8.4%	9.0%
Riverside	20.3%	18.9%	12.9%	13.9%
Sacramento	24.0%	18.5%	15.2%	13.8%
San Benito	13.7%	14.4%	9.7%	12.0%
San Bernardino	18.3%	18.3%	12.0%	12.5%
San Diego	24.7%	17.6%	15.8%	13.5%
San Francisco	22.6%	10.6%	12.9%	10.3%
San Joaquin	16.3%	17.4%	10.9%	11.0%
San Luis Obispo	27.7%	19.0%	17.4%	15.4%
San Mateo	25.8%	15.1%	17.2%	14.0%
Santa Barbara	20.3%	13.0%	12.3%	10.6%
Santa Clara	23.8%	14.0%	15.8%	13.6%
Santa Cruz	23.6%	13.6%	14.6%	11.8%
Shasta	18.1%	13.6%	10.4%	9.5%
Sierra	19.4%	9.9%	7.5%	10.2%
Siskiyou	18.1%	10.7%	9.4%	8.1%
Solano	22.0%	20.1%	13.3%	14.3%
Sonoma	29.0%	17.7%	18.0%	15.0%
Stanislaus	17.0%	18.4%	11.1%	12.1%
Sutter	15.9%	16.4%	9.1%	11.3%
Tehama	14.2%	13.5%	7.7%	9.7%
Trinity	17.3%	11.5%	8.5%	8.1%
Tulare	14.0%	15.6%	8.4%	9.1%
Tuolumne	22.3%	15.0%	12.8%	12.0%
Ventura	25.1%	20.2%	17.1%	15.5%
Yolo	27.8%	19.2%	17.3%	15.6%
Yuba	16.6%	14.9%	10.0%	9.7%
California	21.9%	15.9%	13.6%	12.5%

Data Source: California voter files, BallotTrax

BallotTrax Use Rates - Registered Voters
Party Affiliation
2022 General Election

	Democrat	Republican	No Party Preference	Other Party
Alameda	25.0%	15.6%	15.2%	13.7%
Alpine	20.9%	11.4%	9.9%	10.6%
Amador	24.6%	16.3%	13.6%	12.1%
Butte	21.3%	15.3%	11.2%	11.0%
Calaveras	24.1%	15.3%	13.6%	11.9%
Colusa	10.5%	12.6%	6.7%	8.1%
Contra Costa	24.9%	16.9%	15.5%	14.1%
Del Norte	15.4%	9.9%	7.6%	7.4%
El Dorado	27.6%	17.1%	16.7%	14.8%
Fresno	16.2%	17.3%	9.5%	11.1%
Glenn	12.2%	15.2%	8.1%	10.3%
Humboldt	20.8%	12.0%	11.3%	8.4%
Imperial	7.5%	11.0%	5.4%	6.6%
Inyo	23.2%	13.6%	14.5%	9.7%
Kern	13.7%	16.6%	9.1%	10.2%
Kings	12.9%	16.5%	9.6%	9.4%
Lake	17.8%	14.1%	9.7%	9.3%
Lassen	14.5%	14.2%	8.3%	10.5%
Los Angeles	20.7%	12.3%	12.1%	11.1%
Madera	15.3%	17.7%	9.1%	10.8%
Marin	32.0%	17.1%	21.8%	17.0%
Mariposa	28.2%	16.5%	14.9%	12.6%
Mendocino	17.0%	11.3%	9.6%	8.0%
Merced	13.5%	17.5%	8.6%	10.9%
Modoc	14.0%	9.1%	5.1%	6.6%
Mono	27.1%	14.1%	14.9%	12.2%
Monterey	17.7%	14.2%	11.5%	11.2%
Napa	20.9%	14.9%	12.6%	11.8%
Nevada	25.8%	14.8%	14.9%	13.6%
Orange	20.2%	13.0%	12.7%	12.5%
Placer	31.9%	24.6%	20.7%	18.2%
Plumas	16.4%	12.1%	8.5%	9.4%
Riverside	19.9%	18.6%	12.3%	13.6%
Sacramento	23.6%	18.4%	14.7%	13.8%
San Benito	13.9%	14.9%	9.7%	12.3%
San Bernardino	17.9%	18.0%	11.5%	12.4%
San Diego	24.4%	17.9%	15.5%	13.4%
San Francisco	21.9%	10.3%	12.4%	10.0%
San Joaquin	15.9%	17.1%	10.3%	10.9%
San Luis Obispo	27.9%	19.3%	17.0%	15.2%
San Mateo	25.4%	15.1%	16.8%	13.8%
Santa Barbara	19.9%	13.3%	11.8%	10.6%
Santa Clara	23.3%	14.1%	15.4%	13.2%
Santa Cruz	23.4%	13.6%	14.4%	11.7%
Shasta	18.0%	13.6%	10.3%	9.3%
Sierra	20.4%	11.4%	8.0%	9.5%
Siskiyou	18.0%	10.7%	9.2%	8.3%
Solano	21.6%	19.8%	12.8%	14.0%
Sonoma	28.4%	17.6%	17.4%	14.6%
Stanislaus	16.7%	18.2%	10.7%	12.0%
Sutter	15.5%	16.5%	9.0%	11.0%
Tehama	14.5%	13.6%	7.9%	9.7%
Trinity	17.6%	11.5%	8.4%	9.1%
Tulare	13.7%	15.5%	8.1%	9.2%
Tuolumne	23.0%	15.9%	13.6%	12.6%
Ventura	24.9%	20.4%	16.8%	15.6%
Yolo	27.2%	19.3%	16.8%	14.8%
Yuba	16.2%	14.7%	9.9%	9.7%
California	21.6%	15.9%	13.2%	12.4%

Data Source: California voter files, BallotTrax

BallotTrax Use Rates - Actual Voters
Party Affiliation
2022 Primary Election

	Democrat	Republican	No Party Preference	Other Party
Alameda	40.0%	25.0%	30.7%	28.3%
Alpine	23.6%	13.3%	14.5%	13.9%
Amador	30.0%	19.1%	20.1%	17.6%
Butte	32.5%	20.3%	24.0%	19.6%
Calaveras	32.7%	19.7%	23.6%	19.7%
Colusa	18.6%	15.8%	13.6%	12.0%
Contra Costa	39.1%	24.3%	30.5%	26.6%
Del Norte	24.3%	13.1%	19.1%	14.7%
El Dorado	37.6%	22.3%	28.3%	23.0%
Fresno	30.3%	27.3%	26.0%	25.9%
Glenn	19.3%	18.8%	17.2%	18.9%
Humboldt	30.0%	15.9%	22.4%	15.6%
Imperial	12.7%	19.0%	12.8%	15.2%
Inyo	29.6%	17.0%	22.9%	13.6%
Kern	27.8%	24.3%	25.2%	22.5%
Kings	25.2%	25.5%	24.0%	20.7%
Lake	27.9%	19.3%	21.3%	18.2%
Lassen	20.1%	17.8%	15.9%	16.2%
Los Angeles	36.7%	20.2%	27.8%	24.2%
Madera	27.5%	25.5%	23.1%	23.6%
Marin	41.8%	22.6%	34.1%	26.5%
Mariposa	36.8%	20.7%	27.0%	18.4%
Mendocino	25.6%	15.6%	19.5%	14.7%
Merced	25.6%	26.1%	22.3%	23.3%
Modoc	18.6%	10.8%	10.7%	7.5%
Mono	39.4%	18.1%	31.7%	23.5%
Monterey	31.8%	21.2%	27.2%	22.1%
Napa	29.9%	19.5%	22.4%	19.8%
Nevada	34.1%	18.1%	25.7%	22.7%
Orange	30.7%	17.1%	22.8%	20.8%
Placer	45.2%	33.1%	37.2%	31.0%
Plumas	21.1%	14.5%	14.3%	13.2%
Riverside	36.7%	28.1%	28.9%	28.3%
Sacramento	35.9%	25.2%	29.1%	25.1%
San Benito	21.7%	20.3%	20.9%	20.8%
San Bernardino	34.5%	29.0%	30.2%	28.9%
San Diego	39.4%	26.0%	32.0%	26.0%
San Francisco	29.2%	13.8%	18.5%	17.0%
San Joaquin	28.8%	25.2%	24.7%	23.5%
San Luis Obispo	37.6%	24.6%	29.7%	25.0%
San Mateo	37.2%	21.5%	29.4%	24.8%
Santa Barbara	30.5%	17.5%	23.4%	18.7%
Santa Clara	35.0%	19.9%	27.3%	24.6%
Santa Cruz	32.7%	18.4%	25.6%	20.8%
Shasta	25.2%	17.3%	19.5%	16.1%
Sierra	23.1%	11.7%	14.8%	15.1%
Siskiyou	25.5%	12.9%	17.1%	12.8%
Solano	37.5%	30.3%	29.2%	29.8%
Sonoma	39.9%	23.5%	31.5%	25.8%
Stanislaus	30.5%	27.3%	26.4%	25.6%
Sutter	24.8%	21.9%	17.0%	21.6%
Tehama	23.9%	18.0%	18.6%	17.8%
Trinity	22.6%	13.7%	16.4%	11.3%
Tulare	25.9%	23.8%	21.5%	20.8%
Tuolumne	30.3%	19.8%	23.7%	19.7%
Ventura	39.0%	27.6%	31.8%	26.9%
Yolo	41.1%	26.9%	33.4%	26.9%
Yuba	29.2%	21.3%	24.3%	21.8%
California	35.7%	23.2%	27.7%	24.4%

Data Source: California voter files, BallotTrax

BallotTrax Use Rates - Actual Voters
Party Affiliation
2022 General Election

	Democrat	Republican	No Party Preference	Other Party
Alameda	34.8%	21.9%	26.0%	23.3%
Alpine	24.6%	14.2%	16.4%	13.6%
Amador	28.7%	18.6%	18.6%	16.2%
Butte	29.2%	19.2%	20.3%	17.5%
Calaveras	29.8%	18.6%	20.9%	16.8%
Colusa	16.2%	14.5%	11.9%	13.8%
Contra Costa	34.2%	21.7%	26.0%	22.5%
Del Norte	21.8%	12.4%	15.9%	13.9%
El Dorado	33.8%	20.2%	23.9%	19.9%
Fresno	26.5%	24.3%	21.4%	21.4%
Glenn	18.1%	18.6%	15.9%	17.3%
Humboldt	27.3%	15.5%	19.4%	13.5%
Imperial	12.2%	17.4%	11.9%	14.5%
Inyo	28.5%	16.0%	20.0%	13.1%
Kern	24.2%	22.8%	20.3%	19.7%
Kings	21.4%	23.6%	20.2%	17.4%
Lake	24.5%	17.8%	18.1%	16.2%
Lassen	18.9%	17.4%	14.0%	14.9%
Los Angeles	32.7%	18.2%	24.0%	21.2%
Madera	24.2%	23.0%	19.4%	20.3%
Marin	37.7%	20.6%	29.3%	23.2%
Mariposa	34.1%	19.9%	22.8%	17.5%
Mendocino	22.8%	14.6%	17.0%	12.7%
Merced	21.5%	23.6%	18.2%	20.3%
Modoc	19.3%	10.2%	9.5%	8.8%
Mono	35.0%	17.4%	25.0%	17.8%
Monterey	26.8%	19.0%	22.4%	19.1%
Napa	27.1%	18.2%	19.9%	17.4%
Nevada	31.0%	17.6%	22.2%	20.0%
Orange	27.7%	16.0%	19.9%	18.7%
Placer	40.5%	29.9%	31.5%	26.3%
Plumas	20.3%	14.3%	13.4%	14.0%
Riverside	31.5%	25.0%	24.0%	24.0%
Sacramento	32.5%	23.3%	25.1%	22.4%
San Benito	19.7%	19.3%	18.4%	19.9%
San Bernardino	29.9%	25.7%	25.0%	24.5%
San Diego	34.7%	23.6%	27.0%	22.6%
San Francisco	26.9%	13.3%	17.8%	15.5%
San Joaquin	25.0%	22.6%	20.1%	20.2%
San Luis Obispo	34.8%	23.2%	25.8%	22.4%
San Mateo	33.4%	19.6%	25.9%	21.6%
Santa Barbara	26.9%	16.5%	20.0%	16.6%
Santa Clara	31.6%	18.5%	24.2%	21.3%
Santa Cruz	29.7%	16.9%	22.6%	18.2%
Shasta	23.2%	16.2%	17.1%	14.2%
Sierra	22.2%	13.3%	12.3%	14.5%
Siskiyou	23.1%	12.7%	16.3%	11.7%
Solano	31.5%	26.0%	23.5%	23.6%
Sonoma	35.2%	21.5%	26.3%	21.7%
Stanislaus	26.4%	24.9%	21.6%	21.7%
Sutter	22.4%	20.6%	15.8%	19.3%
Tehama	21.8%	16.8%	15.9%	15.5%
Trinity	22.7%	14.4%	15.1%	14.5%
Tulare	21.7%	21.4%	17.8%	17.9%
Tuolumne	28.0%	19.1%	20.7%	17.8%
Ventura	35.2%	25.9%	28.1%	24.6%
Yolo	36.7%	25.1%	28.4%	23.9%
Yuba	25.5%	19.0%	20.0%	18.0%
California	31.6%	21.1%	23.8%	21.3%

Data Source: California voter files, BallotTrax

BallotTrax Use Rates - Vote-by-Mail Voters
Party Affiliation
2022 Primary Election

	Democrat	Republican	No Party Preference	Other Party
Alameda	40.4%	25.5%	31.1%	28.9%
Alpine	23.6%	13.3%	14.5%	13.9%
Amador	30.1%	19.1%	20.4%	17.3%
Butte	32.5%	20.3%	24.1%	19.7%
Calaveras	33.1%	19.9%	24.0%	20.1%
Colusa	18.9%	16.0%	14.6%	12.2%
Contra Costa	39.6%	24.9%	31.2%	27.3%
Del Norte	25.8%	13.9%	20.6%	16.0%
El Dorado	37.8%	22.3%	28.6%	23.3%
Fresno	30.9%	28.0%	26.7%	26.2%
Glenn	19.4%	19.1%	17.4%	19.4%
Humboldt	30.9%	16.6%	23.4%	16.5%
Imperial	12.9%	19.5%	13.1%	15.4%
Inyo	31.1%	17.9%	25.1%	14.1%
Kern	28.4%	25.3%	26.0%	23.6%
Kings	25.5%	26.0%	24.6%	21.5%
Lake	28.9%	20.7%	22.2%	18.9%
Lassen	20.3%	17.8%	16.2%	16.5%
Los Angeles	38.7%	22.2%	29.7%	26.5%
Madera	27.9%	25.9%	23.9%	23.7%
Marin	42.3%	23.2%	34.7%	27.1%
Mariposa	36.9%	20.7%	27.0%	18.4%
Mendocino	25.9%	15.9%	20.0%	14.9%
Merced	25.8%	26.0%	22.5%	23.3%
Modoc	18.7%	11.2%	11.0%	7.9%
Mono	41.0%	20.0%	32.8%	24.8%
Monterey	32.2%	21.6%	27.7%	22.6%
Napa	29.9%	19.5%	22.5%	19.9%
Nevada	34.3%	18.1%	26.3%	23.3%
Orange	31.3%	17.6%	23.5%	21.5%
Placer	45.7%	33.6%	37.7%	31.6%
Plumas	21.2%	14.5%	14.4%	13.2%
Riverside	37.2%	28.6%	29.6%	28.8%
Sacramento	36.1%	25.2%	29.3%	25.3%
San Benito	21.8%	20.4%	21.1%	20.0%
San Bernardino	35.8%	30.7%	31.3%	30.3%
San Diego	40.0%	26.7%	32.7%	26.6%
San Francisco	30.5%	14.7%	19.4%	18.3%
San Joaquin	29.2%	25.6%	25.0%	23.8%
San Luis Obispo	37.9%	24.7%	30.1%	25.3%
San Mateo	37.5%	21.9%	29.9%	25.5%
Santa Barbara	30.9%	17.9%	23.9%	19.3%
Santa Clara	35.4%	20.1%	27.7%	25.0%
Santa Cruz	33.4%	18.8%	26.3%	21.5%
Shasta	25.8%	17.5%	20.1%	16.3%
Sierra	23.2%	11.7%	15.0%	15.1%
Siskiyou	26.4%	13.6%	18.5%	12.7%
Solano	38.9%	32.3%	30.9%	31.4%
Sonoma	40.2%	23.7%	31.9%	26.1%
Stanislaus	30.7%	27.2%	26.5%	25.6%
Sutter	24.9%	21.9%	17.4%	21.4%
Tehama	24.7%	18.7%	19.7%	18.5%
Trinity	23.0%	13.5%	16.2%	11.0%
Tulare	26.7%	24.6%	22.2%	21.5%
Tuolumne	30.5%	19.9%	24.0%	19.9%
Ventura	39.5%	28.1%	32.6%	27.7%
Yolo	41.7%	27.3%	33.8%	27.3%
Yuba	29.9%	22.6%	25.2%	23.1%
California	36.5%	24.0%	28.6%	25.3%

Data Source: California voter files, BallotTrax

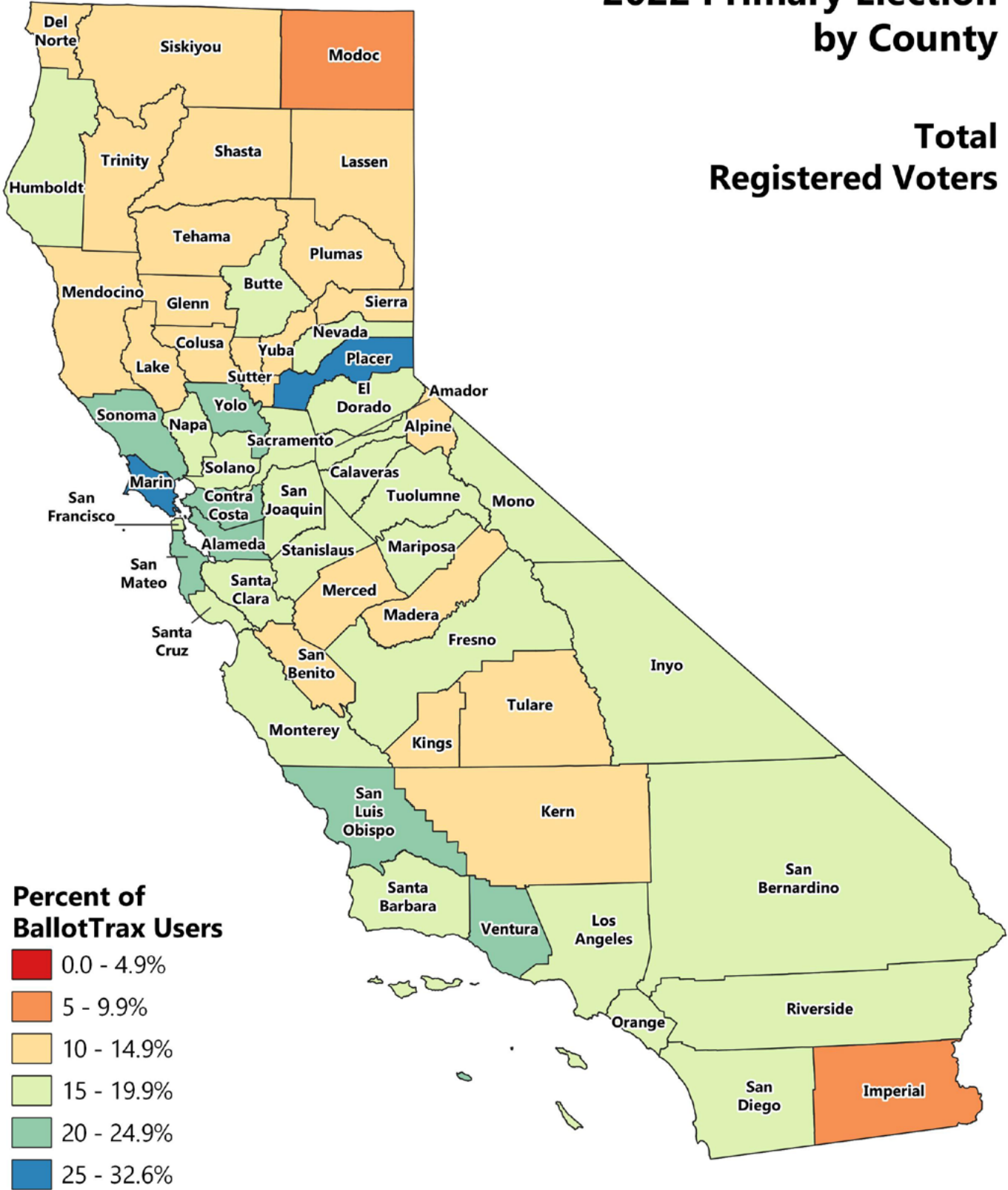
BallotTrax Use Rates - Vote-by-Mail Voters
Party Affiliation
2022 General Election

	Democrat	Republican	No Party Preference	Other Party
Alameda	35.8%	22.7%	27.1%	24.3%
Alpine	24.6%	14.2%	16.4%	13.6%
Amador	29.1%	18.7%	19.0%	16.1%
Butte	29.4%	19.3%	20.5%	18.1%
Calaveras	30.3%	18.8%	21.6%	17.3%
Colusa	16.8%	15.2%	12.8%	14.3%
Contra Costa	35.2%	22.5%	27.1%	23.8%
Del Norte	23.2%	13.2%	17.1%	14.9%
El Dorado	34.4%	20.4%	24.6%	20.5%
Fresno	27.5%	25.3%	22.4%	22.4%
Glenn	18.2%	18.9%	16.1%	17.5%
Humboldt	28.6%	16.2%	20.8%	14.7%
Imperial	12.5%	18.0%	11.9%	15.1%
Inyo	30.2%	16.6%	21.9%	14.0%
Kern	25.1%	24.1%	21.4%	21.3%
Kings	22.1%	24.3%	20.9%	17.9%
Lake	25.9%	19.3%	19.4%	17.3%
Lassen	18.9%	17.6%	14.0%	15.1%
Los Angeles	35.2%	20.3%	26.5%	24.0%
Madera	24.9%	23.6%	20.3%	20.9%
Marin	38.7%	21.5%	30.6%	24.4%
Mariposa	34.2%	20.0%	23.0%	17.6%
Mendocino	23.1%	14.7%	17.5%	13.2%
Merced	21.9%	23.4%	18.7%	20.4%
Modoc	19.8%	10.7%	9.6%	9.4%
Mono	36.5%	19.3%	27.1%	19.3%
Monterey	27.5%	19.4%	23.2%	20.0%
Napa	27.2%	18.2%	20.4%	17.6%
Nevada	31.6%	17.7%	23.2%	20.7%
Orange	28.8%	16.7%	21.1%	19.7%
Placer	41.3%	30.4%	32.5%	27.0%
Plumas	20.3%	14.3%	13.4%	13.8%
Riverside	32.3%	25.7%	25.2%	24.9%
Sacramento	33.0%	23.6%	25.7%	23.1%
San Benito	20.0%	19.3%	19.0%	20.0%
San Bernardino	31.4%	27.4%	26.6%	26.2%
San Diego	35.9%	24.6%	28.2%	23.8%
San Francisco	28.5%	14.2%	18.9%	17.1%
San Joaquin	25.7%	23.2%	20.8%	20.9%
San Luis Obispo	35.4%	23.0%	26.5%	23.0%
San Mateo	34.1%	20.2%	26.7%	22.8%
Santa Barbara	27.8%	17.1%	20.9%	17.3%
Santa Clara	32.3%	18.9%	25.0%	22.2%
Santa Cruz	30.8%	17.5%	23.9%	19.2%
Shasta	24.0%	16.4%	18.0%	14.7%
Sierra	22.2%	13.3%	12.3%	14.5%
Siskiyou	24.2%	13.4%	17.6%	12.7%
Solano	33.6%	28.5%	26.0%	25.8%
Sonoma	35.8%	21.9%	27.1%	22.4%
Stanislaus	27.0%	25.1%	22.1%	22.2%
Sutter	22.7%	21.0%	16.1%	19.4%
Tehama	23.0%	17.9%	17.0%	15.9%
Trinity	23.0%	14.7%	15.0%	14.1%
Tulare	22.7%	22.4%	18.7%	18.9%
Tuolumne	28.4%	19.4%	21.2%	18.4%
Ventura	36.2%	26.4%	29.4%	25.6%
Yolo	38.0%	25.6%	29.9%	24.6%
Yuba	26.5%	20.5%	21.2%	19.2%
California	32.9%	22.2%	25.2%	22.6%

Data Source: California voter files, BallotTrax

BallotTrax Use in the 2022 Primary Election by County

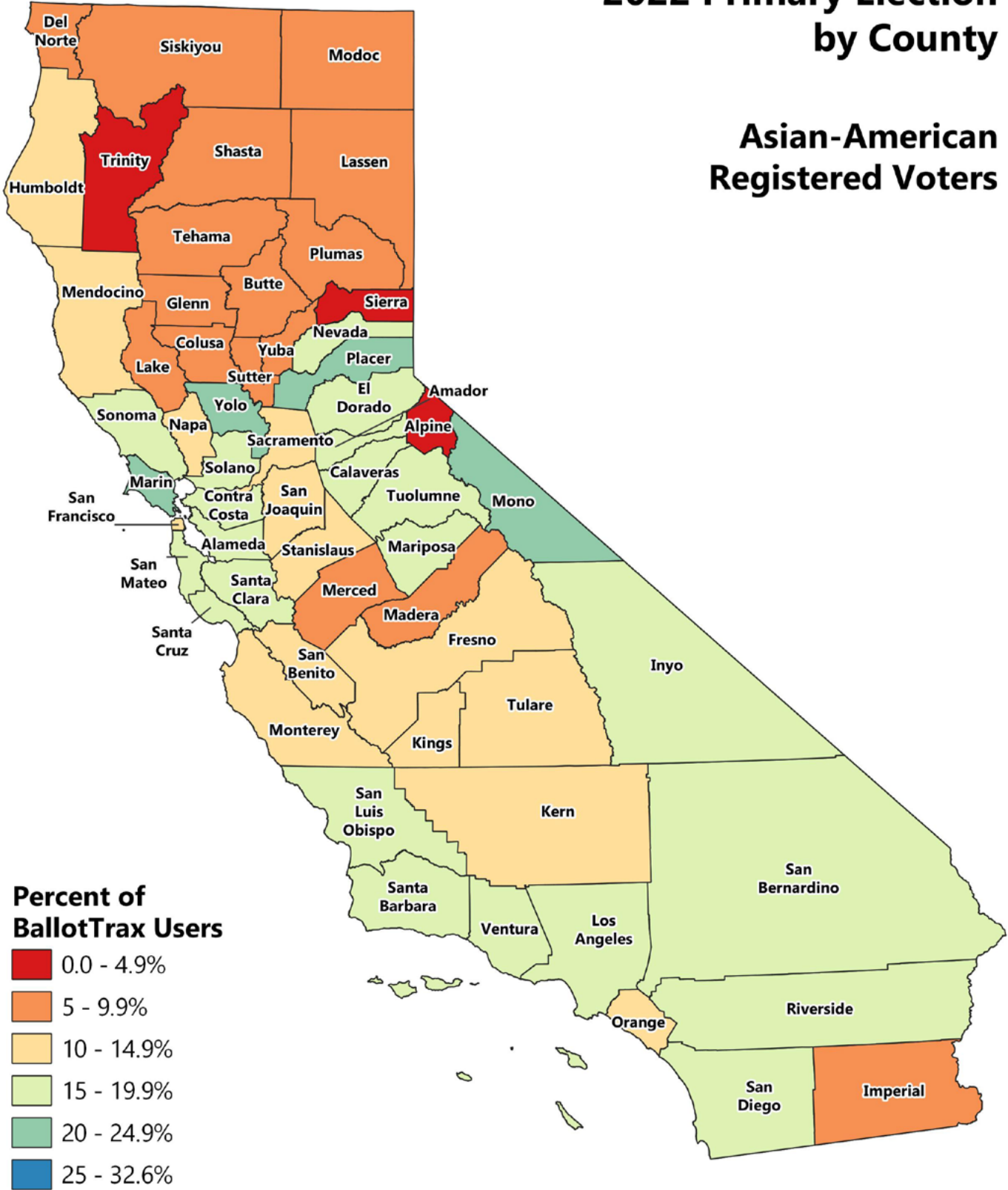
Total Registered Voters



Data Sources: California voter files, BallotTrax

BallotTrax Use in the 2022 Primary Election by County

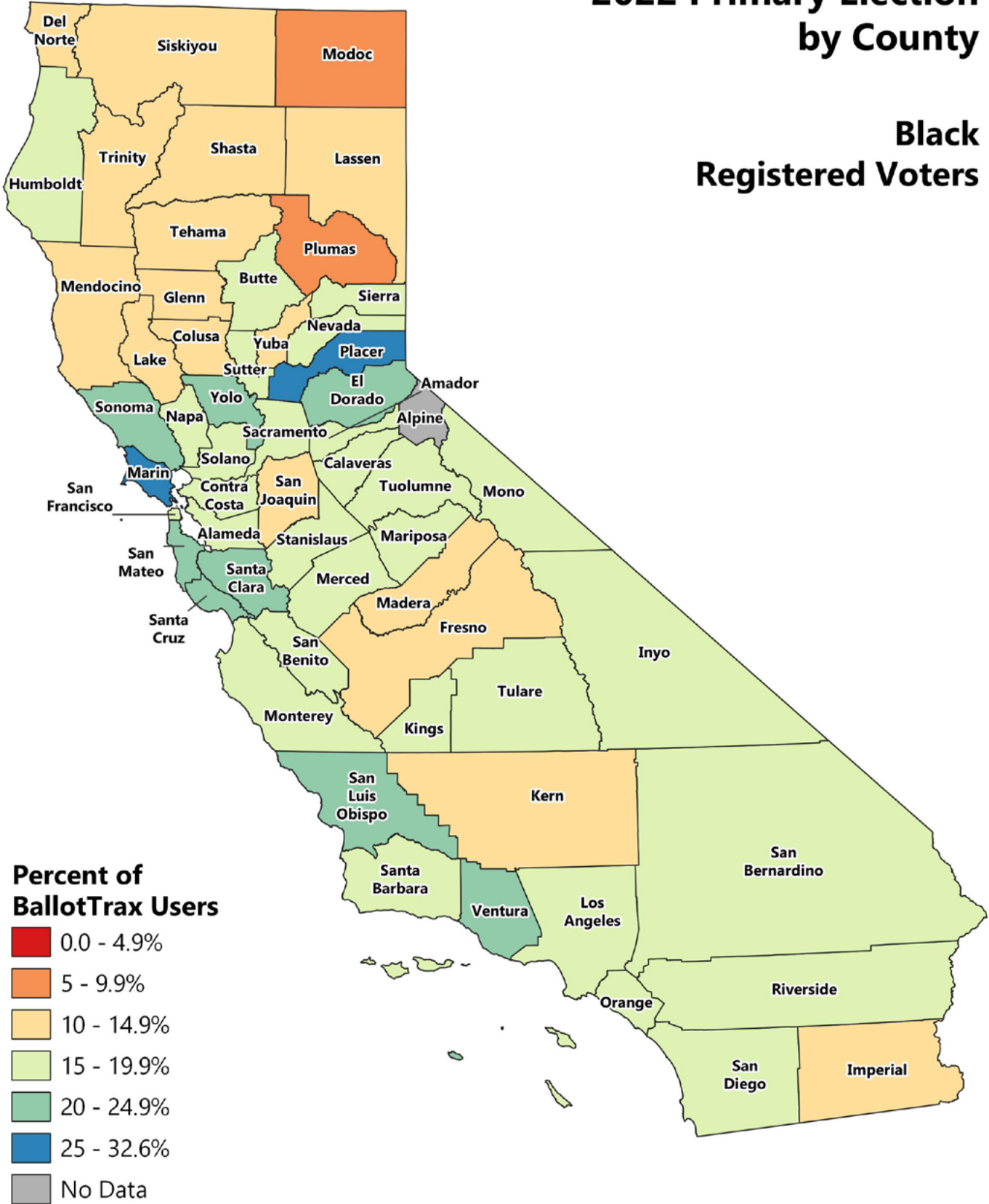
Asian-American Registered Voters



Data Sources: California voter files, BallotTrax

BallotTrax Use in the 2022 Primary Election by County

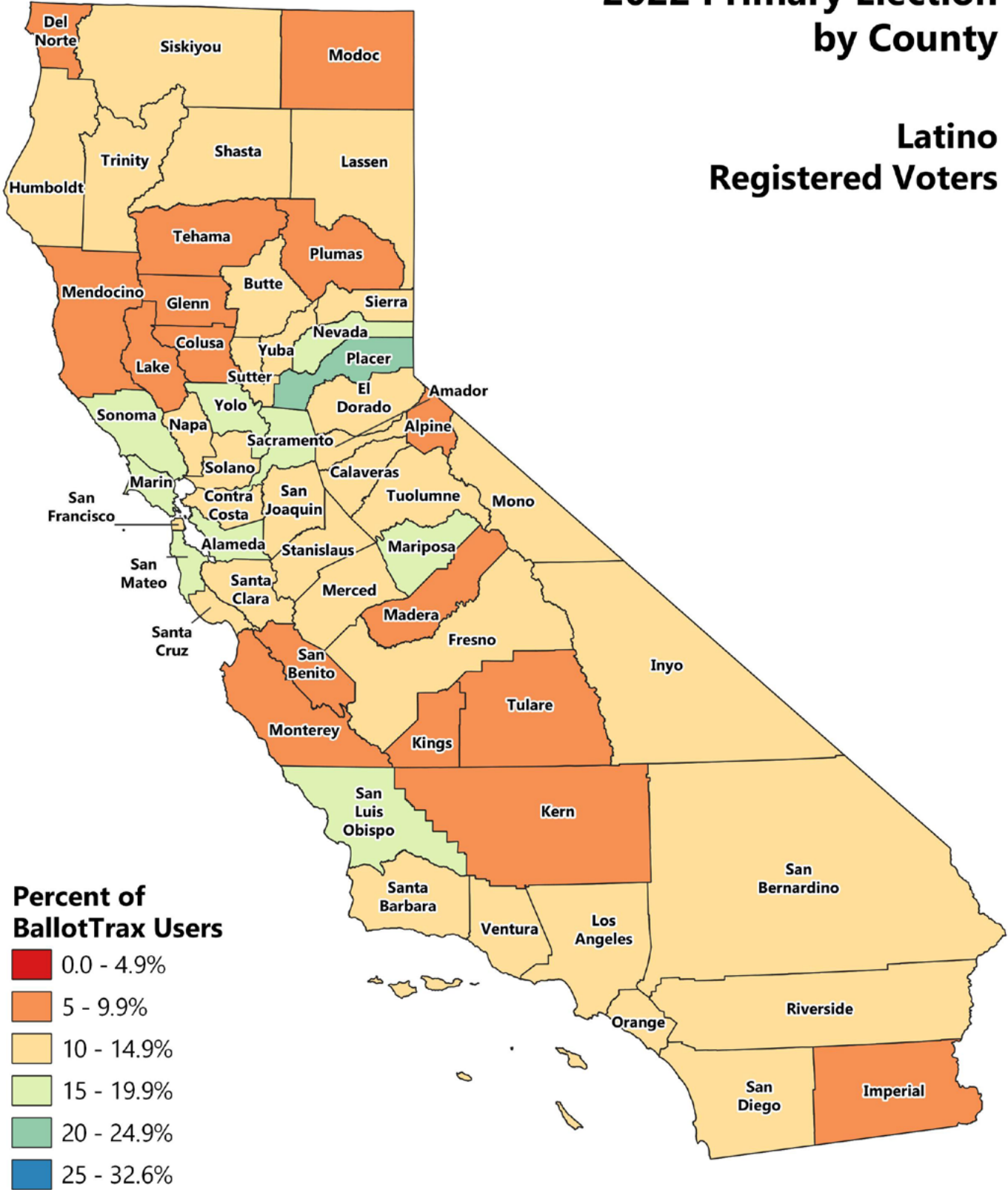
Black Registered Voters



Data Sources: California voter files, BallotTrax

BallotTrax Use in the 2022 Primary Election by County

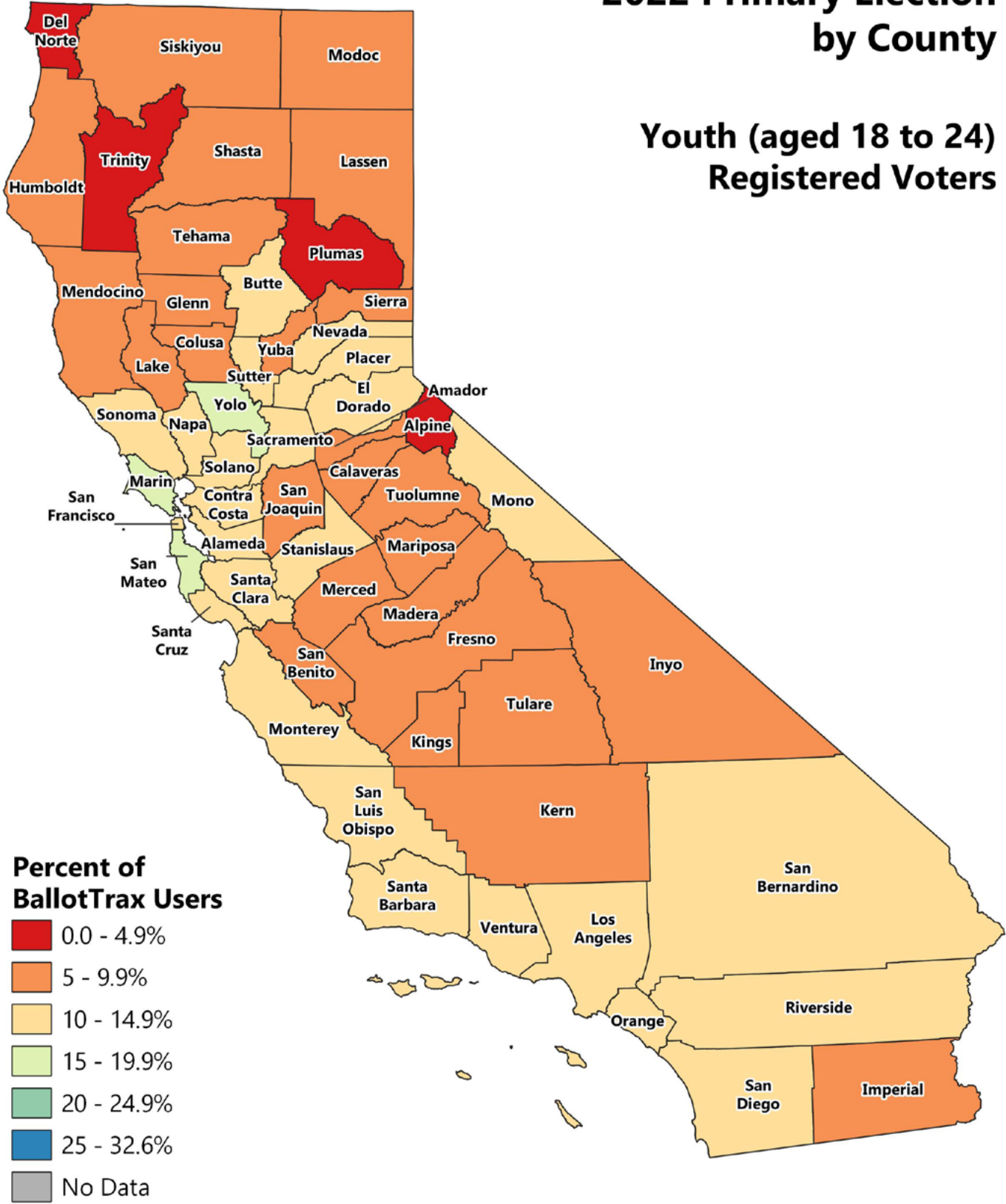
Latino Registered Voters



Data Sources: California voter files, BallotTrax

BallotTrax Use in the 2022 Primary Election by County

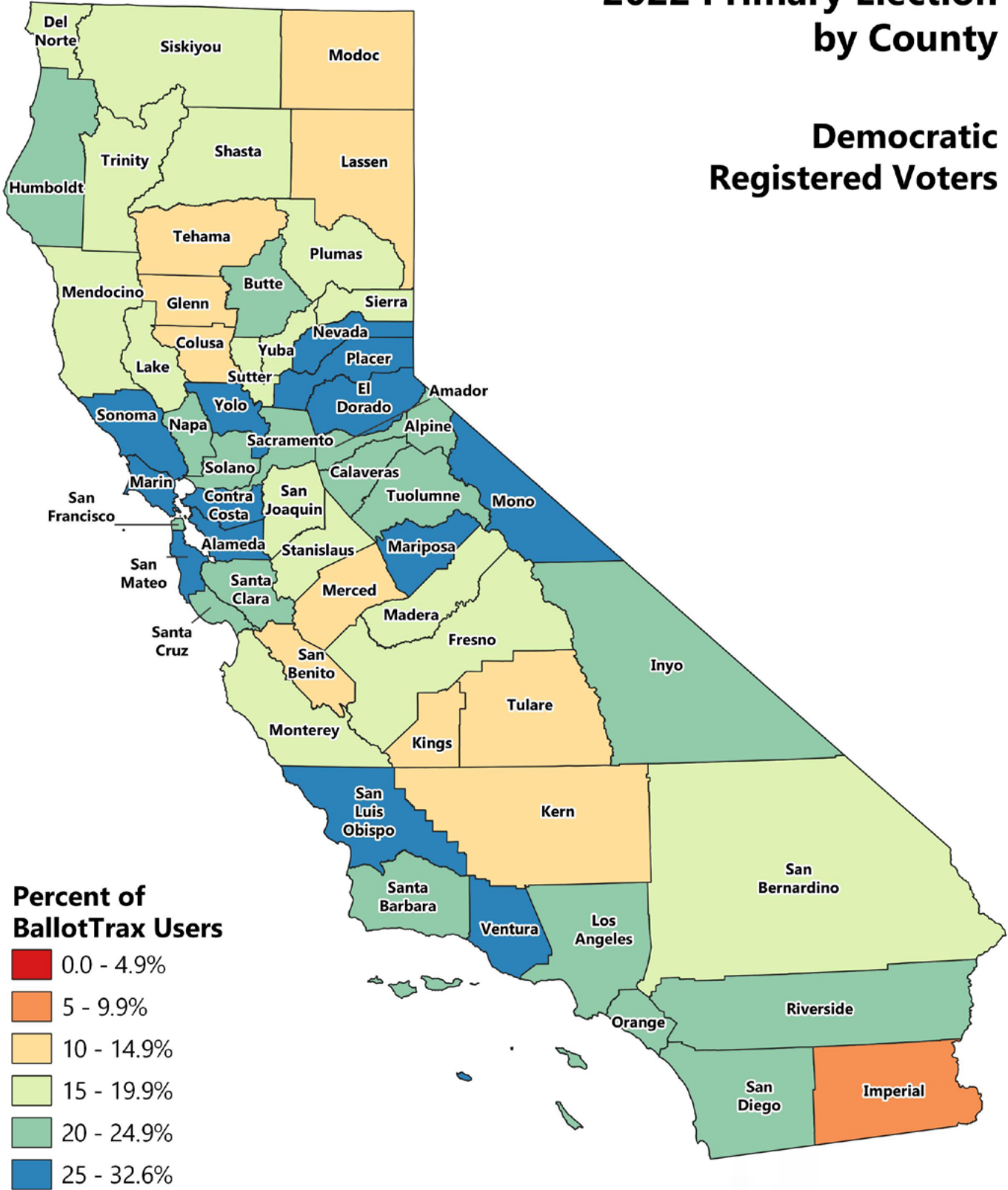
Youth (aged 18 to 24) Registered Voters



Data Sources: California voter files, BallotTrax

BallotTrax Use in the 2022 Primary Election by County

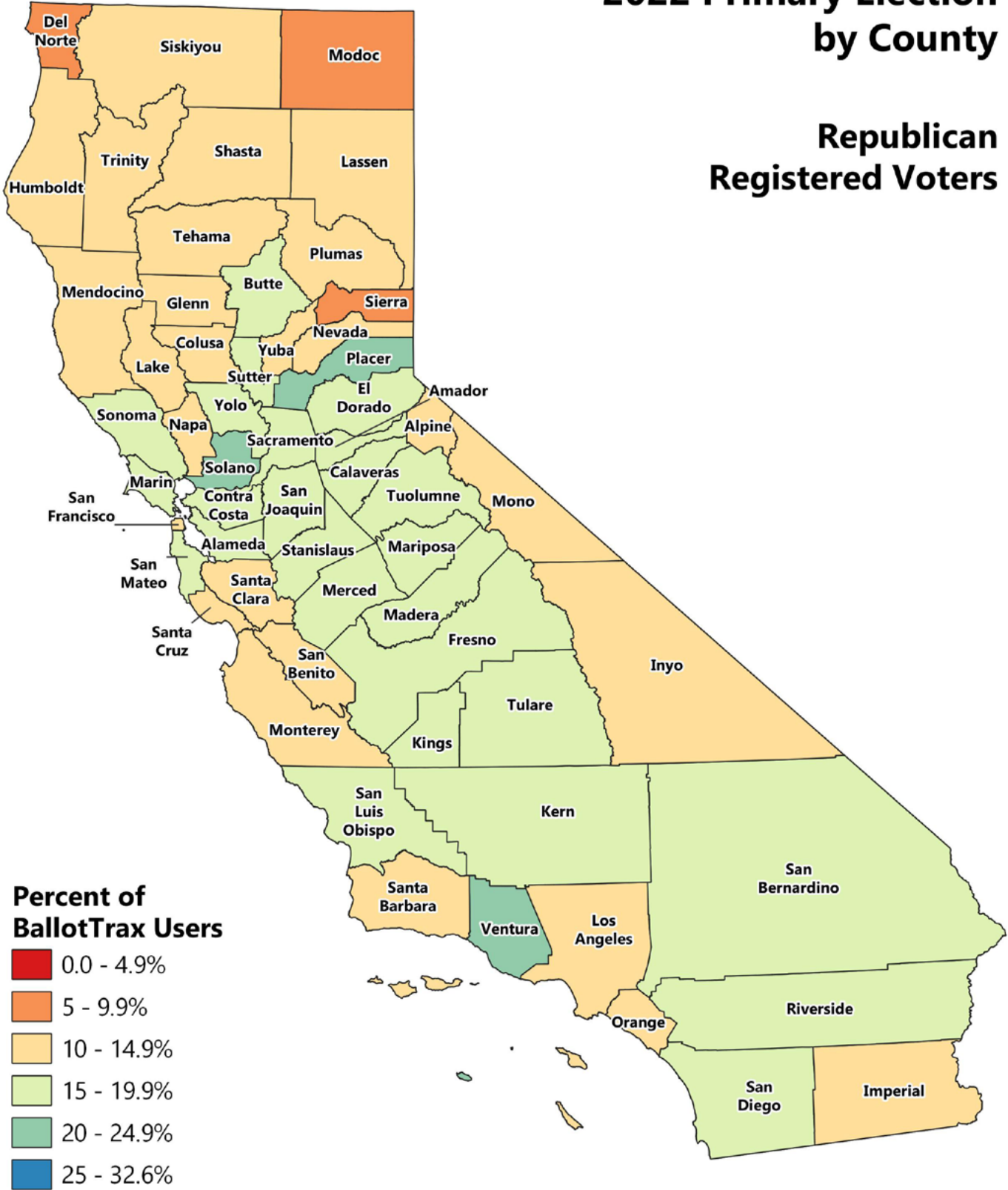
Democratic Registered Voters



Data Sources: California voter files, BallotTrax

BallotTrax Use in the 2022 Primary Election by County

Republican Registered Voters



Data Sources: California voter files, BallotTrax

Appendix B: Registered Voter Turnout by BallotTrax Use

Registered Voter Turnout by BallotTrax Use All Voters 2022 Primary Election		
	BallotTrax User	Not BallotTrax User
Alameda	55.5%	27.0%
Alpine	75.2%	57.7%
Amador	75.1%	52.6%
Butte	60.5%	35.2%
Calaveras	69.4%	44.3%
Colusa	54.4%	33.4%
Contra Costa	57.1%	29.5%
Del Norte	64.4%	37.0%
El Dorado	66.2%	40.2%
Fresno	51.0%	22.9%
Glenn	63.3%	38.9%
Humboldt	63.9%	36.9%
Imperial	43.7%	21.0%
Inyo	71.2%	49.6%
Kern	49.7%	22.1%
Kings	53.4%	25.1%
Lake	61.2%	32.2%
Lassen	63.0%	42.1%
Los Angeles	53.1%	23.6%
Madera	60.5%	30.1%
Marin	67.6%	42.7%
Mariposa	74.8%	48.9%
Mendocino	67.5%	38.3%
Merced	46.7%	22.1%
Modoc	66.3%	46.9%
Mono	67.1%	37.2%
Monterey	55.7%	26.5%
Napa	63.9%	39.2%
Nevada	70.7%	46.5%
Orange	52.1%	31.9%
Placer	66.7%	39.0%
Plumas	70.5%	49.6%
Riverside	51.4%	24.0%
Sacramento	60.7%	33.4%
San Benito	54.7%	30.6%
San Bernardino	43.0%	18.4%
San Diego	58.2%	29.2%
San Francisco	62.4%	42.3%
San Joaquin	49.3%	24.1%
San Luis Obispo	69.2%	43.0%
San Mateo	58.6%	33.0%
Santa Barbara	61.4%	35.6%
Santa Clara	54.9%	30.8%
Santa Cruz	69.7%	41.7%
Shasta	66.5%	43.6%
Sierra	72.8%	51.8%
Siskiyou	62.8%	41.3%
Solano	53.0%	24.3%
Sonoma	67.0%	39.2%
Stanislaus	51.5%	24.7%
Sutter	56.2%	33.3%
Tehama	61.4%	35.1%
Trinity	69.3%	47.1%
Tulare	45.7%	21.5%
Tuolumne	69.6%	43.9%
Ventura	62.8%	34.1%
Yolo	66.3%	35.0%
Yuba	53.7%	27.2%
California	55.7%	28.2%

Data Source: California voter files, BallotTrax

**Registered Voter Turnout by BallotTrax Use
All Voters
2022 General Election**

	BallotTrax User	Not BallotTrax User
Alameda	78.4%	46.3%
Alpine	88.1%	64.3%
Amador	88.0%	70.1%
Butte	83.2%	54.1%
Calaveras	85.8%	62.6%
Colusa	76.6%	51.9%
Contra Costa	79.9%	49.7%
Del Norte	81.7%	51.8%
El Dorado	85.0%	63.7%
Fresno	72.8%	38.7%
Glenn	79.1%	51.6%
Humboldt	80.4%	52.7%
Imperial	62.9%	32.6%
Inyo	86.2%	65.6%
Kern	72.9%	38.8%
Kings	72.2%	39.3%
Lake	79.5%	50.6%
Lassen	82.8%	59.5%
Los Angeles	71.7%	37.4%
Madera	79.0%	45.9%
Marin	86.7%	64.7%
Mariposa	86.3%	63.0%
Mendocino	83.5%	54.3%
Merced	71.5%	39.7%
Modoc	84.1%	63.7%
Mono	82.8%	55.2%
Monterey	76.0%	43.8%
Napa	81.5%	56.2%
Nevada	86.2%	63.7%
Orange	74.1%	50.8%
Placer	85.2%	58.3%
Plumas	81.4%	60.3%
Riverside	71.6%	40.1%
Sacramento	78.9%	49.6%
San Benito	76.7%	48.5%
San Bernardino	66.6%	34.2%
San Diego	78.9%	47.3%
San Francisco	80.0%	57.1%
San Joaquin	71.8%	41.1%
San Luis Obispo	85.7%	60.7%
San Mateo	79.8%	52.1%
Santa Barbara	79.6%	52.9%
Santa Clara	76.1%	48.6%
Santa Cruz	84.0%	57.7%
Shasta	80.7%	58.2%
Sierra	86.7%	68.7%
Siskiyou	81.3%	58.3%
Solano	75.9%	44.2%
Sonoma	85.6%	59.7%
Stanislaus	73.5%	41.3%
Sutter	76.8%	49.8%
Tehama	80.2%	52.3%
Trinity	86.2%	58.2%
Tulare	70.9%	39.7%
Tuolumne	85.1%	62.8%
Ventura	79.5%	49.3%
Yolo	82.3%	50.6%
Yuba	73.8%	43.7%
California	75.8%	44.7%

Data Source: California voter files, BallotTrax

**Registered Voter Turnout by BallotTrax Use
Race and Ethnicity
2022 Primary Election**

	BallotTrax Users				Not BallotTrax Users			
	Asian American	Black	Latino	White, non-Latino	Asian American	Black	Latino	White, non-Latino
Alameda	42.8%	55.7%	40.8%	60.8%	21.9%	24.3%	18.1%	32.1%
Alpine	NA	NA	50.0%	75.6%	100.0%	NA	36.4%	58.7%
Amador	62.5%	66.9%	67.3%	75.8%	42.5%	45.5%	40.5%	53.8%
Butte	46.6%	60.7%	42.8%	62.3%	16.4%	35.3%	18.8%	37.9%
Calaveras	60.0%	66.7%	59.1%	70.0%	34.2%	43.1%	30.4%	45.3%
Colusa	50.0%	56.3%	34.7%	63.7%	22.2%	44.2%	18.2%	45.0%
Contra Costa	45.8%	56.0%	41.1%	62.2%	23.5%	25.8%	18.6%	35.2%
Del Norte	50.0%	62.5%	53.1%	65.4%	21.1%	36.5%	21.3%	39.0%
El Dorado	51.1%	66.3%	55.8%	67.2%	27.3%	39.7%	26.7%	41.5%
Fresno	39.7%	53.3%	37.4%	59.0%	17.0%	23.5%	15.4%	31.9%
Glenn	36.4%	70.0%	40.0%	68.9%	22.0%	44.8%	20.6%	45.9%
Humboldt	49.5%	62.2%	45.6%	65.1%	20.6%	35.6%	22.0%	38.5%
Imperial	46.0%	54.5%	36.0%	60.5%	22.6%	32.6%	17.7%	34.3%
Inyo	72.7%	71.4%	55.0%	72.6%	29.8%	52.9%	30.1%	52.6%
Kern	40.3%	52.5%	34.1%	56.7%	19.1%	23.8%	13.1%	30.6%
Kings	48.2%	59.3%	40.0%	60.5%	22.7%	28.9%	17.0%	33.4%
Lake	50.0%	58.1%	45.4%	62.6%	24.1%	29.1%	17.5%	34.3%
Lassen	42.9%	60.1%	50.4%	64.5%	27.3%	38.9%	29.7%	43.8%
Los Angeles	45.4%	56.4%	38.6%	62.0%	22.6%	23.9%	16.4%	32.1%
Madera	47.6%	60.5%	38.8%	68.8%	20.8%	35.0%	18.0%	41.1%
Marin	59.5%	66.8%	57.0%	68.5%	33.8%	39.6%	28.7%	44.3%
Mariposa	66.7%	71.4%	57.4%	75.7%	40.5%	47.7%	33.5%	50.0%
Mendocino	42.2%	68.3%	44.8%	69.8%	25.5%	38.3%	20.4%	41.1%
Merced	35.5%	54.4%	33.9%	56.4%	17.3%	28.4%	15.0%	32.6%
Modoc	100.0%	66.7%	40.9%	67.6%	55.6%	48.2%	26.8%	48.5%
Mono	63.6%	71.4%	45.5%	69.0%	36.6%	40.0%	19.7%	39.7%
Monterey	48.8%	58.6%	34.0%	65.2%	25.2%	31.8%	14.7%	39.3%
Napa	44.8%	56.1%	45.8%	68.5%	25.3%	33.9%	23.9%	45.4%
Nevada	68.7%	71.2%	60.6%	70.9%	37.4%	47.3%	31.4%	47.2%
Orange	42.0%	54.2%	37.0%	58.6%	27.8%	33.2%	19.4%	38.5%
Placer	51.7%	66.8%	55.9%	68.2%	25.6%	37.9%	27.6%	40.9%
Plumas	50.0%	68.8%	50.0%	71.3%	30.8%	48.3%	33.5%	50.4%
Riverside	40.9%	52.0%	35.5%	59.1%	20.1%	25.2%	14.8%	32.0%
Sacramento	49.0%	60.6%	48.5%	64.7%	26.1%	31.9%	24.3%	38.2%
San Benito	50.6%	61.1%	43.8%	61.5%	27.2%	36.0%	23.7%	38.3%
San Bernardino	34.9%	45.3%	31.2%	50.7%	16.3%	19.2%	12.3%	25.1%
San Diego	47.1%	57.5%	42.5%	63.0%	24.6%	28.2%	18.3%	35.1%
San Francisco	56.3%	61.3%	53.1%	65.7%	41.1%	34.2%	32.2%	46.3%
San Joaquin	36.7%	49.7%	36.8%	57.0%	18.6%	23.4%	16.4%	31.9%
San Luis Obispo	60.0%	66.7%	54.1%	70.9%	33.2%	41.7%	26.4%	45.9%
San Mateo	47.5%	59.9%	45.4%	64.5%	27.9%	32.2%	23.2%	38.7%
Santa Barbara	52.6%	63.3%	41.9%	67.0%	28.7%	39.5%	20.6%	44.0%
Santa Clara	45.4%	58.4%	43.7%	62.4%	27.7%	31.4%	22.4%	37.4%
Santa Cruz	64.9%	71.6%	49.9%	72.6%	36.1%	45.9%	23.7%	47.3%
Shasta	50.0%	66.9%	54.1%	67.2%	23.4%	42.8%	28.8%	44.8%
Sierra	NA	100.0%	57.1%	73.8%	50.0%	50.0%	38.9%	52.5%
Siskiyou	46.2%	63.6%	54.0%	63.2%	36.3%	39.3%	23.5%	42.2%
Solano	42.5%	53.5%	40.5%	57.7%	19.4%	24.1%	16.3%	28.8%
Sonoma	54.7%	65.9%	47.1%	69.5%	29.4%	37.5%	22.0%	43.3%
Stanislaus	41.5%	55.6%	37.1%	57.7%	18.7%	28.3%	15.3%	31.8%
Sutter	43.7%	59.8%	41.7%	60.9%	32.0%	36.2%	17.2%	38.9%
Tehama	53.3%	64.1%	40.4%	63.4%	19.9%	37.9%	16.6%	38.2%
Trinity	100.0%	75.0%	61.1%	69.6%	16.0%	48.5%	40.0%	48.2%
Tulare	36.6%	51.5%	32.0%	55.4%	16.6%	28.7%	13.6%	31.7%
Tuolumne	66.7%	68.1%	64.2%	70.1%	32.3%	41.7%	33.4%	44.7%
Ventura	53.6%	64.8%	45.3%	67.8%	28.6%	37.1%	21.1%	41.8%
Yolo	58.8%	67.3%	48.5%	71.0%	31.0%	34.7%	21.9%	41.3%
Yuba	35.7%	54.0%	35.1%	57.5%	14.0%	27.7%	15.6%	31.2%
California	45.4%	55.8%	39.1%	62.5%	25.3%	25.8%	17.1%	36.1%

Data Source: California voter files, BallotTrax

**Registered Voter Turnout by BallotTrax Use
Race and Ethnicity
2022 General Election**

	BallotTrax Users				Not BallotTrax Users			
	Asian American	Black	Latino	White, non-Latino	Asian American	Black	Latino	White, non-Latino
Alameda	67.9%	79.2%	66.0%	83.6%	39.4%	43.1%	35.3%	54.8%
Alpine	NA	NA	100.0%	87.6%	100.0%	NA	44.0%	65.8%
Amador	81.3%	84.8%	84.6%	88.2%	56.8%	65.9%	57.6%	71.2%
Butte	67.9%	83.4%	70.4%	84.5%	29.5%	53.2%	36.3%	57.2%
Calaveras	89.7%	85.2%	79.9%	86.2%	52.6%	61.8%	50.3%	63.7%
Colusa	66.7%	87.5%	60.1%	84.0%	42.5%	64.9%	35.7%	64.5%
Contra Costa	71.8%	78.0%	66.1%	84.1%	43.3%	44.0%	36.0%	57.1%
Del Norte	72.7%	82.3%	72.5%	82.5%	31.2%	51.9%	33.8%	54.3%
El Dorado	75.8%	85.3%	75.9%	85.7%	49.6%	63.3%	48.5%	65.1%
Fresno	61.4%	74.4%	60.8%	79.9%	28.3%	38.3%	29.8%	50.5%
Glenn	66.7%	85.7%	61.9%	82.8%	30.4%	59.7%	31.4%	59.6%
Humboldt	72.8%	79.6%	68.0%	81.2%	32.8%	51.0%	37.4%	54.4%
Imperial	62.3%	73.6%	56.4%	76.9%	38.1%	45.7%	29.1%	47.2%
Inyo	81.8%	85.7%	73.7%	87.1%	54.0%	67.2%	46.8%	68.5%
Kern	67.0%	75.6%	59.3%	78.8%	41.1%	40.3%	27.6%	49.4%
Kings	68.6%	77.6%	61.5%	77.7%	37.0%	43.9%	30.2%	48.6%
Lake	63.2%	76.9%	64.5%	80.9%	41.6%	46.8%	31.9%	53.3%
Lassen	57.1%	81.5%	68.5%	84.3%	51.7%	57.4%	46.7%	61.0%
Los Angeles	64.4%	73.9%	57.2%	80.1%	36.0%	35.9%	28.1%	48.6%
Madera	70.8%	78.8%	61.2%	85.6%	40.7%	50.7%	32.3%	58.4%
Marin	81.1%	85.9%	78.0%	87.3%	54.6%	61.8%	47.5%	66.7%
Mariposa	77.8%	81.0%	72.6%	86.9%	50.0%	61.1%	45.8%	64.2%
Mendocino	72.1%	85.5%	65.2%	85.2%	41.1%	55.3%	33.7%	57.6%
Merced	64.5%	77.5%	60.4%	79.6%	35.9%	46.8%	31.1%	52.4%
Modoc	0.0%	83.3%	59.1%	85.3%	45.5%	64.3%	40.7%	65.6%
Mono	80.0%	85.7%	67.8%	84.1%	61.0%	56.7%	33.8%	58.4%
Monterey	70.3%	78.5%	57.0%	84.2%	42.2%	50.2%	29.7%	59.6%
Napa	65.9%	77.3%	66.1%	85.3%	42.6%	51.8%	38.7%	63.2%
Nevada	81.4%	86.6%	77.8%	86.5%	55.7%	63.9%	47.6%	64.4%
Orange	65.1%	76.0%	59.4%	80.2%	44.8%	52.7%	34.9%	59.7%
Placer	75.1%	85.2%	77.5%	86.2%	44.1%	56.7%	46.3%	60.5%
Plumas	50.0%	76.5%	56.8%	82.2%	40.0%	57.2%	41.7%	61.2%
Riverside	62.4%	72.5%	56.8%	78.6%	34.8%	42.0%	28.3%	50.7%
Sacramento	67.5%	78.3%	69.3%	82.5%	39.6%	46.7%	39.5%	55.8%
San Benito	75.0%	83.9%	67.2%	82.5%	45.4%	55.7%	40.4%	57.6%
San Bernardino	59.5%	69.0%	54.9%	74.3%	32.0%	34.8%	25.8%	43.8%
San Diego	69.7%	77.5%	64.2%	83.1%	41.6%	44.7%	32.0%	55.6%
San Francisco	72.2%	79.5%	73.0%	83.6%	51.2%	49.4%	48.2%	63.7%
San Joaquin	62.4%	72.1%	60.3%	78.6%	35.1%	39.3%	31.7%	50.7%
San Luis Obispo	79.5%	84.7%	74.7%	86.9%	51.0%	60.3%	41.4%	64.1%
San Mateo	70.7%	80.8%	69.1%	84.7%	44.9%	51.0%	40.3%	59.7%
Santa Barbara	73.2%	81.7%	62.6%	84.3%	46.6%	58.1%	34.5%	63.4%
Santa Clara	68.0%	78.7%	65.8%	82.6%	44.5%	48.9%	37.9%	57.1%
Santa Cruz	81.7%	85.7%	68.1%	86.3%	54.6%	62.6%	37.8%	63.9%
Shasta	69.2%	80.8%	71.6%	81.1%	33.8%	56.7%	42.9%	59.5%
Sierra	NA	100.0%	87.5%	86.7%	50.0%	75.0%	56.0%	69.4%
Siskiyou	64.3%	80.3%	74.2%	81.6%	31.7%	57.1%	39.4%	60.2%
Solano	67.3%	75.3%	64.8%	80.2%	37.2%	42.6%	33.9%	50.5%
Sonoma	76.1%	84.4%	70.6%	87.5%	48.3%	57.4%	38.9%	64.8%
Stanislaus	63.2%	77.5%	60.4%	79.0%	33.8%	45.1%	30.0%	50.1%
Sutter	62.9%	79.9%	65.8%	80.7%	46.1%	53.5%	33.0%	56.6%
Tehama	71.4%	80.0%	61.1%	82.0%	31.0%	54.9%	29.7%	56.1%
Trinity	100.0%	80.0%	90.0%	86.2%	18.8%	57.6%	52.9%	59.6%
Tulare	61.0%	77.0%	58.7%	79.6%	33.8%	49.3%	29.7%	52.8%
Tuolumne	85.7%	85.6%	81.1%	85.4%	47.5%	60.1%	51.1%	63.6%
Ventura	71.6%	81.0%	63.7%	84.0%	44.3%	53.0%	33.1%	58.9%
Yolo	76.1%	84.1%	68.5%	85.9%	44.2%	51.9%	36.0%	58.1%
Yuba	59.6%	73.9%	59.6%	76.7%	28.1%	43.4%	29.2%	48.9%
California	67.1%	75.6%	60.4%	82.0%	40.7%	40.9%	30.8%	55.1%

Data Source: California voter files, BallotTrax

**Registered Voter Turnout by BallotTrax Use
Age Groups
2022 Primary Election**

	BallotTrax Users						Not BallotTrax Users					
	18-24	25-34	35-44	45-54	55-64	65+	18-24	25-34	35-44	45-54	55-64	65+
Alameda	26.7%	37.5%	45.4%	50.7%	63.5%	81.2%	13.9%	15.4%	19.6%	23.3%	31.9%	47.5%
Alpine	NA	25.0%	43.8%	66.7%	89.7%	90.2%	32.0%	25.0%	40.8%	51.9%	67.3%	74.7%
Amador	39.4%	40.6%	53.2%	69.4%	79.9%	88.9%	24.1%	22.8%	34.4%	44.6%	55.4%	74.1%
Butte	24.2%	32.9%	45.2%	55.7%	71.2%	86.5%	11.5%	13.6%	21.5%	28.3%	42.7%	64.1%
Calaveras	26.5%	37.4%	46.2%	53.5%	72.0%	86.7%	17.1%	16.8%	22.4%	31.3%	48.9%	68.1%
Colusa	21.9%	31.9%	42.9%	48.0%	72.3%	84.3%	11.5%	12.8%	18.6%	28.1%	43.9%	61.7%
Contra Costa	26.8%	32.1%	41.6%	48.4%	64.2%	82.5%	14.0%	13.1%	18.3%	23.8%	35.5%	54.6%
Del Norte	25.0%	30.1%	45.6%	58.0%	70.4%	84.1%	12.1%	12.3%	21.0%	28.6%	43.8%	59.9%
El Dorado	32.2%	33.8%	47.7%	56.4%	73.0%	86.2%	18.3%	16.2%	23.3%	31.3%	46.8%	65.4%
Fresno	21.8%	25.7%	36.4%	46.2%	63.4%	82.3%	8.5%	8.5%	12.9%	18.8%	31.3%	50.8%
Glenn	35.5%	36.4%	51.6%	66.9%	70.5%	88.3%	18.0%	16.7%	25.3%	34.4%	47.0%	63.5%
Humboldt	26.1%	35.4%	51.2%	58.9%	72.2%	86.0%	14.1%	15.5%	24.1%	32.6%	43.6%	63.6%
Imperial	19.5%	24.9%	35.9%	46.3%	61.6%	77.5%	10.0%	8.5%	13.1%	19.9%	29.3%	40.4%
Inyo	29.3%	46.6%	56.7%	72.4%	73.8%	88.4%	18.5%	24.5%	38.7%	44.6%	51.7%	70.7%
Kern	21.8%	24.9%	34.9%	45.0%	62.4%	81.1%	8.6%	8.0%	12.3%	18.9%	31.5%	50.7%
Kings	26.3%	29.5%	41.4%	52.5%	69.8%	83.0%	10.5%	9.9%	15.6%	24.0%	34.4%	53.0%
Lake	23.8%	28.0%	34.8%	49.2%	65.4%	82.2%	9.3%	9.8%	15.2%	22.8%	35.0%	55.5%
Lassen	41.1%	41.7%	48.0%	57.5%	74.9%	81.7%	17.4%	18.6%	28.4%	38.1%	49.2%	64.2%
Los Angeles	26.2%	36.7%	46.6%	52.4%	63.6%	78.7%	11.7%	12.5%	16.7%	21.7%	29.5%	42.2%
Madera	26.0%	32.2%	43.0%	52.1%	68.7%	85.4%	10.7%	11.0%	19.1%	25.6%	39.3%	59.5%
Marin	34.8%	36.4%	50.3%	58.6%	70.4%	86.4%	20.0%	19.4%	29.3%	34.9%	45.7%	65.6%
Mariposa	36.4%	44.4%	58.6%	65.0%	79.8%	89.2%	21.6%	20.5%	31.8%	36.5%	51.3%	71.4%
Mendocino	27.1%	34.5%	44.5%	56.7%	69.9%	86.5%	12.5%	14.8%	22.8%	29.8%	39.4%	62.8%
Merced	18.9%	23.9%	34.7%	44.3%	63.1%	79.3%	8.5%	8.5%	12.8%	19.9%	30.9%	49.9%
Modoc	73.3%	37.2%	56.3%	56.5%	65.4%	82.1%	16.6%	18.0%	30.9%	37.3%	44.8%	68.1%
Mono	35.8%	36.4%	50.8%	61.7%	78.1%	87.6%	12.8%	15.7%	24.3%	32.0%	45.5%	64.1%
Monterey	19.5%	26.5%	38.7%	48.8%	65.1%	82.6%	9.1%	9.8%	14.9%	21.7%	33.7%	53.3%
Napa	29.9%	36.5%	50.3%	59.4%	71.6%	86.1%	16.3%	16.7%	24.9%	34.0%	45.6%	63.7%
Nevada	33.8%	35.7%	48.4%	59.8%	75.2%	88.6%	20.7%	17.7%	26.7%	36.3%	49.9%	71.5%
Orange	26.1%	30.9%	40.7%	48.6%	62.8%	80.1%	14.7%	14.2%	20.4%	27.3%	39.0%	57.5%
Placer	35.2%	39.0%	49.4%	58.4%	72.0%	87.7%	17.9%	17.4%	25.2%	32.5%	46.4%	66.5%
Plumas	24.4%	40.8%	50.5%	54.9%	75.6%	86.6%	15.8%	17.9%	29.7%	41.4%	55.3%	69.4%
Riverside	21.0%	24.9%	35.7%	44.5%	60.9%	78.9%	9.4%	9.0%	14.0%	19.8%	31.1%	50.3%
Sacramento	30.1%	38.0%	47.8%	57.3%	71.1%	85.7%	14.9%	16.1%	22.1%	29.4%	42.0%	61.7%
San Benito	28.5%	30.1%	42.5%	54.1%	65.9%	82.6%	12.5%	14.2%	20.2%	27.1%	40.5%	59.0%
San Bernardino	18.9%	21.0%	29.7%	38.4%	54.1%	73.0%	7.0%	6.8%	10.5%	15.3%	25.4%	42.6%
San Diego	27.6%	33.3%	43.8%	53.2%	67.6%	83.9%	13.1%	12.6%	18.6%	25.3%	37.2%	56.3%
San Francisco	34.6%	47.5%	58.3%	65.3%	73.8%	84.0%	22.8%	28.5%	37.2%	43.5%	50.1%	59.5%
San Joaquin	22.2%	25.1%	33.5%	43.7%	60.9%	79.4%	9.4%	9.2%	13.0%	19.5%	32.3%	51.9%
San Luis Obispo	32.3%	42.1%	51.8%	60.2%	74.7%	89.4%	17.5%	17.9%	26.7%	33.6%	49.1%	70.2%
San Mateo	31.3%	35.8%	46.1%	54.9%	66.4%	82.3%	16.8%	16.7%	22.9%	29.6%	38.2%	54.2%
Santa Barbara	26.6%	36.9%	46.8%	58.7%	71.3%	85.9%	12.7%	14.5%	22.8%	30.1%	43.2%	64.5%
Santa Clara	29.0%	35.9%	43.1%	50.3%	64.8%	81.4%	15.9%	15.6%	20.8%	27.2%	37.6%	53.7%
Santa Cruz	37.3%	46.1%	56.0%	65.6%	76.4%	88.2%	20.4%	21.0%	29.3%	37.8%	50.5%	66.7%
Shasta	35.7%	37.4%	52.1%	62.3%	72.6%	86.2%	18.0%	18.3%	28.7%	38.4%	49.9%	67.6%
Sierra	45.5%	38.9%	73.0%	61.9%	70.0%	88.0%	16.0%	14.7%	30.3%	40.4%	56.7%	73.1%
Siskiyou	23.4%	29.4%	42.6%	53.7%	68.2%	82.8%	13.2%	14.7%	22.8%	31.0%	43.9%	62.0%
Solano	21.9%	24.1%	31.7%	41.3%	59.4%	77.4%	9.2%	9.2%	13.2%	18.7%	30.7%	49.0%
Sonoma	31.2%	36.6%	48.9%	57.2%	71.2%	87.3%	15.4%	16.9%	24.6%	31.2%	44.9%	66.6%
Stanislaus	24.1%	26.8%	37.3%	47.5%	63.4%	81.6%	10.2%	9.3%	13.8%	20.4%	32.4%	52.6%
Sutter	31.7%	30.4%	42.4%	51.3%	67.1%	84.1%	15.1%	14.5%	21.6%	28.7%	40.7%	59.8%
Tehama	27.1%	32.4%	44.3%	53.9%	69.8%	83.2%	11.6%	11.6%	20.1%	27.6%	41.6%	60.1%
Trinity	20.0%	30.6%	51.6%	59.1%	71.3%	85.3%	14.4%	19.8%	29.9%	35.3%	49.3%	69.3%
Tulare	17.9%	22.0%	32.4%	42.9%	60.9%	80.2%	7.0%	7.1%	11.4%	18.2%	31.2%	51.5%
Tuolumne	36.8%	42.3%	55.2%	61.1%	70.9%	84.8%	17.9%	17.1%	24.9%	33.4%	46.3%	65.5%
Ventura	33.5%	36.8%	48.2%	57.1%	71.2%	85.4%	16.6%	16.3%	23.2%	29.7%	41.3%	59.2%
Yolo	32.4%	45.1%	56.9%	65.5%	76.4%	89.6%	16.8%	18.6%	25.5%	33.2%	43.7%	61.9%
Yuba	23.0%	25.3%	38.5%	49.0%	66.8%	83.1%	8.9%	10.6%	16.5%	23.1%	36.4%	54.7%
California	26.4%	34.0%	43.8%	51.5%	65.4%	81.9%	12.5%	12.9%	18.4%	24.5%	35.2%	52.5%

Data Source: California voter files, BallotTrax

Registered Voter Turnout by BallotTrax Use												
Age Groups												
2022 General Election												
	BallotTrax Users						Not BallotTrax Users					
	18-24	25-34	35-44	45-54	55-64	65+	18-24	25-34	35-44	45-54	55-64	65+
Alameda	47.7%	63.6%	74.2%	79.4%	85.9%	92.6%	28.0%	33.7%	41.7%	47.5%	54.9%	63.9%
Alpine	NA	90.0%	60.0%	64.3%	93.0%	98.1%	30.6%	27.8%	52.5%	58.3%	74.3%	83.9%
Amador	57.4%	62.9%	77.2%	86.7%	91.8%	95.6%	39.7%	41.5%	56.3%	66.4%	76.2%	87.1%
Butte	58.7%	62.9%	77.2%	83.4%	89.5%	95.6%	27.0%	31.5%	44.9%	53.2%	65.8%	79.8%
Calaveras	39.2%	59.2%	75.0%	81.7%	89.4%	95.1%	32.0%	33.3%	45.6%	57.6%	70.8%	83.1%
Colusa	45.2%	60.3%	71.9%	81.6%	87.7%	94.6%	20.8%	29.9%	43.8%	54.9%	65.2%	79.3%
Contra Costa	49.1%	58.4%	72.2%	79.3%	87.0%	94.0%	28.1%	29.7%	41.5%	50.3%	60.8%	72.2%
Del Norte	40.5%	52.6%	72.6%	81.0%	87.6%	93.1%	21.1%	26.7%	38.5%	48.7%	60.2%	74.2%
El Dorado	54.7%	60.4%	75.9%	82.9%	90.9%	95.1%	35.6%	39.4%	51.6%	61.6%	73.7%	83.4%
Fresno	43.2%	51.2%	64.7%	73.9%	84.2%	92.9%	20.2%	20.9%	29.2%	40.0%	52.9%	66.9%
Glenn	52.3%	54.1%	75.8%	81.1%	86.9%	96.4%	25.0%	28.8%	40.8%	50.2%	61.7%	77.4%
Humboldt	50.8%	58.3%	73.1%	80.6%	87.4%	93.7%	29.0%	31.7%	40.8%	51.7%	62.5%	77.4%
Imperial	39.4%	45.6%	57.3%	69.2%	78.6%	87.8%	17.1%	16.4%	24.3%	35.4%	45.1%	54.3%
Inyo	45.5%	70.7%	76.8%	87.9%	90.5%	96.0%	28.7%	42.5%	56.0%	65.6%	72.8%	84.5%
Kern	42.5%	50.7%	65.4%	74.6%	84.7%	92.4%	19.5%	21.2%	31.0%	41.1%	54.4%	67.9%
Kings	45.7%	48.6%	67.3%	75.4%	85.5%	92.1%	20.0%	20.8%	30.5%	41.7%	55.1%	68.6%
Lake	39.2%	53.8%	64.8%	73.5%	84.2%	92.9%	19.9%	23.8%	34.6%	45.8%	58.0%	74.1%
Lassen	56.1%	59.9%	77.9%	84.7%	88.9%	93.1%	31.2%	36.3%	49.8%	60.4%	69.4%	78.1%
Los Angeles	43.5%	56.9%	68.4%	74.7%	82.0%	89.4%	22.1%	24.7%	31.2%	39.0%	46.8%	55.8%
Madera	48.5%	55.4%	68.5%	77.9%	87.4%	94.1%	21.3%	24.5%	36.8%	47.4%	61.4%	75.3%
Marin	54.8%	64.2%	80.0%	85.0%	90.9%	95.5%	34.7%	42.9%	57.3%	64.1%	72.9%	82.6%
Mariposa	47.3%	66.1%	79.7%	84.2%	86.9%	95.2%	32.4%	33.9%	51.6%	56.0%	70.0%	82.2%
Mendocino	46.7%	57.3%	70.3%	80.9%	88.3%	94.3%	22.8%	29.4%	40.6%	49.7%	59.6%	78.1%
Merced	43.7%	51.1%	65.6%	74.6%	85.2%	92.9%	21.0%	22.2%	31.8%	42.6%	55.2%	69.0%
Modoc	73.3%	74.4%	73.2%	85.0%	83.6%	92.0%	32.0%	37.9%	47.9%	58.4%	66.1%	81.9%
Mono	49.2%	60.1%	78.9%	81.9%	90.6%	93.9%	23.5%	33.6%	48.1%	53.4%	67.6%	77.4%
Monterey	37.5%	51.8%	67.3%	76.2%	85.8%	93.8%	20.3%	24.0%	33.9%	44.2%	56.9%	71.2%
Napa	49.6%	60.9%	73.9%	82.0%	89.3%	94.5%	29.2%	33.3%	45.0%	56.2%	66.8%	77.7%
Nevada	51.6%	62.3%	75.9%	83.4%	90.3%	95.5%	32.7%	35.9%	50.4%	59.9%	71.8%	83.6%
Orange	46.2%	55.7%	68.3%	76.4%	84.6%	91.8%	28.7%	30.7%	42.4%	52.3%	62.8%	73.7%
Placer	54.5%	64.3%	77.1%	84.3%	90.4%	95.7%	32.7%	35.4%	49.8%	59.2%	70.3%	80.8%
Plumas	42.9%	59.7%	65.3%	73.7%	84.7%	92.3%	21.0%	28.4%	45.1%	55.8%	69.1%	79.2%
Riverside	39.8%	45.9%	61.7%	70.3%	81.9%	91.0%	20.0%	20.8%	31.2%	40.6%	52.8%	67.9%
Sacramento	49.2%	61.5%	72.1%	79.3%	87.6%	93.9%	27.1%	31.7%	41.4%	50.1%	61.6%	75.0%
San Benito	45.8%	55.6%	72.8%	80.5%	87.0%	93.4%	23.6%	28.7%	41.6%	50.7%	63.6%	75.5%
San Bernardino	39.9%	44.9%	58.4%	67.0%	78.1%	88.4%	17.5%	18.1%	26.8%	35.2%	47.1%	60.8%
San Diego	48.8%	59.4%	71.6%	79.3%	87.3%	93.8%	26.5%	28.9%	39.6%	48.8%	59.6%	72.0%
San Francisco	53.1%	71.6%	78.8%	83.1%	86.6%	91.7%	38.1%	49.4%	54.6%	59.4%	63.1%	68.7%
San Joaquin	43.1%	48.2%	63.3%	73.5%	83.2%	91.4%	20.5%	22.1%	32.0%	42.5%	55.4%	68.6%
San Luis Obispo	54.2%	65.9%	76.5%	84.0%	90.9%	96.5%	31.8%	36.5%	50.1%	58.4%	70.7%	83.2%
San Mateo	50.9%	62.1%	73.7%	81.3%	87.3%	93.0%	29.9%	35.7%	45.0%	54.2%	61.4%	70.1%
Santa Barbara	46.8%	61.2%	73.1%	81.5%	88.3%	94.1%	26.9%	30.6%	44.4%	53.6%	65.6%	79.0%
Santa Clara	48.1%	59.5%	70.1%	77.7%	85.2%	92.3%	28.3%	31.8%	41.1%	50.5%	59.5%	68.8%
Santa Cruz	56.4%	64.5%	78.0%	84.5%	89.9%	94.7%	36.9%	37.2%	47.9%	58.2%	68.6%	79.5%
Shasta	50.9%	56.0%	71.6%	78.2%	87.3%	94.1%	28.5%	32.5%	46.1%	55.9%	68.4%	80.9%
Sierra	60.0%	80.0%	80.0%	77.1%	90.2%	95.3%	30.1%	34.5%	54.2%	64.5%	75.6%	85.2%
Siskiyou	41.2%	52.7%	71.0%	80.9%	86.0%	93.1%	27.3%	29.0%	41.3%	51.8%	64.3%	78.4%
Solano	40.8%	51.0%	64.0%	72.6%	83.4%	90.7%	22.8%	24.5%	33.9%	43.4%	56.4%	68.6%
Sonoma	53.1%	64.4%	78.0%	83.4%	90.6%	95.9%	30.4%	36.9%	51.1%	58.7%	69.8%	82.5%
Stanislaus	44.8%	51.4%	65.5%	75.2%	84.4%	93.0%	21.6%	22.2%	32.3%	42.3%	54.6%	69.1%
Sutter	51.5%	52.6%	72.7%	76.0%	86.0%	94.2%	27.4%	29.8%	40.3%	50.7%	61.8%	73.8%
Tehama	43.4%	57.2%	69.8%	77.7%	87.6%	93.9%	23.2%	25.9%	38.6%	49.5%	63.4%	77.0%
Trinity	58.8%	56.2%	75.0%	83.3%	91.9%	94.6%	22.4%	28.6%	39.8%	48.9%	63.1%	81.0%
Tulare	41.1%	49.3%	65.1%	73.3%	85.2%	93.3%	18.7%	20.4%	31.6%	43.5%	56.8%	71.6%
Tuolumne	48.6%	62.5%	75.1%	83.6%	89.2%	94.4%	30.9%	34.2%	46.9%	57.4%	69.0%	82.7%
Ventura	49.9%	57.6%	71.0%	79.4%	87.6%	93.8%	27.4%	29.6%	40.3%	49.7%	60.9%	73.2%
Yolo	54.9%	67.4%	77.8%	83.6%	90.0%	95.3%	32.3%	34.8%	44.7%	52.4%	61.5%	73.4%
Yuba	41.4%	49.7%	66.0%	73.3%	84.7%	92.6%	20.8%	23.5%	34.6%	45.1%	57.4%	71.7%
California	45.9%	57.1%	69.5%	76.9%	85.1%	92.4%	24.5%	27.4%	36.9%	45.9%	56.1%	67.8%

Data Source: California voter files, BallotTrax

**Registered Voter Turnout by BallotTrax Use
Party Affiliation
2022 Primary Election**

	BallotTrax Users				Not BallotTrax Users			
	Democrat	Republican	No Party Preference	Other Party	Democrat	Republican	No Party Preference	Other Party
Alameda	58.3%	56.6%	45.2%	47.7%	30.2%	31.9%	19.1%	19.7%
Alpine	77.8%	72.0%	81.0%	50.0%	64.4%	61.9%	49.5%	40.8%
Amador	80.3%	74.7%	66.3%	63.2%	57.0%	58.4%	37.8%	39.8%
Butte	64.1%	62.5%	50.4%	46.1%	37.6%	44.3%	21.2%	23.9%
Calaveras	77.0%	67.5%	60.7%	55.6%	51.1%	48.7%	30.7%	31.9%
Colusa	53.0%	63.4%	33.5%	35.3%	26.8%	50.1%	16.5%	23.6%
Contra Costa	59.6%	61.3%	46.5%	45.9%	31.4%	39.0%	20.1%	21.0%
Del Norte	70.6%	63.4%	55.1%	51.0%	40.4%	46.1%	21.0%	24.0%
El Dorado	69.6%	69.2%	55.8%	53.2%	42.2%	48.5%	26.1%	29.3%
Fresno	50.2%	58.9%	36.5%	40.8%	22.7%	33.1%	11.5%	15.0%
Glenn	54.6%	71.2%	51.5%	58.8%	31.6%	53.5%	22.2%	27.9%
Humboldt	67.8%	63.2%	54.3%	46.5%	41.5%	44.8%	24.7%	23.8%
Imperial	39.6%	58.7%	30.9%	38.6%	22.0%	31.1%	12.7%	14.8%
Inyo	74.8%	74.9%	60.1%	51.7%	51.3%	58.2%	35.7%	34.8%
Kern	47.9%	56.9%	37.2%	37.6%	19.2%	33.9%	11.0%	13.9%
Kings	49.7%	62.0%	38.3%	40.7%	22.2%	35.9%	13.5%	16.7%
Lake	65.9%	61.1%	50.8%	50.3%	36.3%	40.3%	19.7%	22.1%
Lassen	64.0%	66.1%	52.9%	50.4%	42.3%	49.6%	26.1%	29.3%
Los Angeles	56.0%	55.7%	43.0%	41.7%	25.6%	31.0%	16.0%	16.4%
Madera	58.7%	67.0%	46.3%	51.0%	27.9%	42.4%	16.0%	20.1%
Marin	70.0%	67.5%	59.9%	54.2%	46.2%	47.2%	33.6%	30.6%
Mariposa	78.9%	74.3%	69.1%	61.2%	55.0%	54.4%	33.1%	36.5%
Mendocino	72.7%	62.3%	56.9%	55.4%	43.9%	43.3%	25.8%	27.8%
Merced	45.4%	56.2%	31.1%	35.6%	21.5%	34.5%	11.0%	14.9%
Modoc	67.9%	68.9%	63.6%	39.3%	43.7%	55.4%	29.7%	33.6%
Mono	70.9%	63.0%	63.9%	52.2%	40.2%	46.9%	24.6%	23.9%
Monterey	57.7%	60.4%	47.1%	42.6%	27.1%	37.6%	17.2%	18.8%
Napa	66.7%	67.0%	53.6%	51.1%	42.0%	48.2%	27.8%	28.9%
Nevada	74.2%	71.2%	57.9%	64.9%	50.6%	54.2%	30.3%	35.1%
Orange	53.9%	58.2%	41.9%	39.7%	31.3%	41.7%	21.3%	21.4%
Placer	69.8%	70.2%	56.0%	52.9%	40.8%	47.0%	25.8%	26.9%
Plumas	74.8%	72.1%	60.2%	55.3%	54.9%	56.5%	32.8%	36.1%
Riverside	53.6%	56.1%	38.4%	40.4%	23.6%	33.3%	13.9%	16.5%
Sacramento	64.2%	62.9%	50.3%	48.1%	36.2%	42.3%	21.9%	23.0%
San Benito	54.7%	62.7%	45.1%	39.9%	31.5%	41.5%	18.4%	20.6%
San Bernardino	43.3%	49.8%	31.4%	33.6%	18.3%	27.3%	10.0%	11.8%
San Diego	60.1%	64.5%	48.7%	44.7%	30.3%	39.2%	19.4%	19.8%
San Francisco	63.7%	65.0%	57.3%	54.3%	45.0%	48.0%	37.3%	30.3%
San Joaquin	49.3%	57.3%	36.1%	38.5%	23.7%	35.9%	13.4%	15.6%
San Luis Obispo	73.9%	69.3%	59.5%	55.3%	47.0%	49.8%	29.5%	30.1%
San Mateo	61.4%	61.1%	49.2%	49.3%	36.2%	39.7%	24.4%	24.4%
Santa Barbara	63.8%	65.7%	51.7%	47.2%	37.1%	46.5%	23.7%	24.3%
Santa Clara	57.3%	58.6%	47.7%	46.2%	33.2%	38.4%	23.8%	22.3%
Santa Cruz	72.0%	68.8%	61.9%	57.4%	45.6%	48.0%	30.7%	29.1%
Shasta	72.0%	67.6%	56.2%	54.9%	47.3%	51.1%	27.0%	29.9%
Sierra	78.4%	68.0%	75.0%	60.9%	62.7%	56.3%	35.0%	38.9%
Siskiyou	70.2%	60.1%	54.3%	47.9%	45.2%	48.8%	27.5%	28.6%
Solano	56.2%	56.5%	39.9%	42.8%	26.5%	32.7%	14.8%	16.8%
Sonoma	70.1%	65.3%	57.6%	53.6%	43.1%	45.7%	27.6%	27.2%
Stanislaus	52.8%	56.4%	37.5%	40.4%	24.7%	33.9%	13.0%	16.1%
Sutter	53.8%	63.4%	46.0%	43.5%	30.8%	44.4%	22.7%	20.1%
Tehama	64.9%	64.7%	47.8%	48.1%	34.2%	46.0%	17.6%	23.7%
Trinity	75.1%	67.6%	64.9%	50.8%	53.7%	55.4%	30.7%	35.4%
Tulare	43.6%	54.1%	28.8%	33.8%	20.3%	32.0%	9.7%	12.9%
Tuolumne	75.7%	69.6%	58.8%	55.4%	50.1%	49.7%	27.9%	30.9%
Ventura	64.4%	68.3%	53.2%	50.1%	33.7%	45.2%	23.5%	25.0%
Yolo	69.6%	65.4%	58.5%	53.4%	38.3%	42.3%	24.5%	26.7%
Yuba	55.9%	57.6%	41.8%	45.4%	26.9%	37.4%	14.5%	17.6%
California	58.2%	59.7%	45.5%	44.0%	29.5%	37.4%	18.8%	19.5%

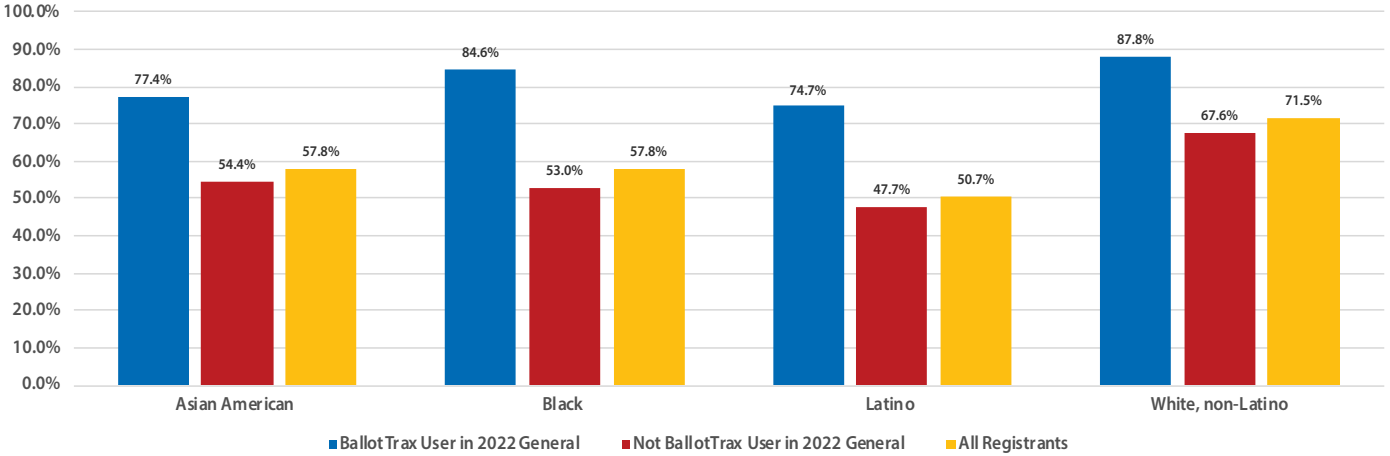
Data Source: California voter files, BallotTrax

**Registered Voter Turnout by BallotTrax Use
Party Affiliation
2022 General Election**

	BallotTrax Users				Not BallotTrax Users			
	Democrat	Republican	No Party Preference	Other Party	Democrat	Republican	No Party Preference	Other Party
Alameda	80.4%	80.3%	70.4%	71.3%	50.3%	53.0%	36.0%	37.3%
Alpine	88.6%	95.8%	86.4%	66.7%	71.9%	74.7%	48.5%	50.0%
Amador	90.3%	88.3%	82.7%	81.8%	73.0%	75.5%	57.2%	58.5%
Butte	84.7%	85.6%	75.8%	75.5%	55.6%	65.1%	37.6%	44.1%
Calaveras	89.1%	86.5%	79.3%	77.5%	66.7%	68.7%	47.5%	51.8%
Colusa	72.4%	84.3%	59.9%	76.9%	44.0%	71.9%	31.8%	42.0%
Contra Costa	81.4%	83.4%	72.7%	72.6%	52.0%	61.2%	37.9%	41.0%
Del Norte	84.7%	82.0%	74.3%	77.5%	55.2%	63.2%	32.6%	38.2%
El Dorado	86.7%	87.6%	78.0%	77.0%	64.7%	71.7%	49.7%	54.1%
Fresno	70.7%	81.2%	59.6%	64.6%	38.0%	53.0%	23.1%	29.5%
Glenn	69.6%	86.9%	68.3%	74.5%	43.7%	68.3%	31.7%	40.9%
Humboldt	83.1%	82.7%	71.4%	66.6%	58.0%	61.8%	37.9%	39.3%
Imperial	58.7%	76.3%	51.3%	60.2%	34.1%	44.7%	22.0%	24.8%
Inyo	89.1%	88.9%	76.5%	72.5%	67.4%	73.9%	52.1%	52.0%
Kern	70.7%	79.8%	61.2%	62.7%	35.2%	53.9%	24.1%	29.1%
Kings	69.1%	79.7%	57.7%	61.4%	37.8%	51.0%	24.1%	30.4%
Lake	81.4%	81.9%	70.8%	74.1%	54.3%	61.9%	34.6%	39.3%
Lassen	79.3%	86.7%	75.4%	70.9%	57.8%	68.0%	41.7%	47.7%
Los Angeles	73.7%	75.8%	63.1%	63.0%	39.5%	48.1%	27.5%	29.2%
Madera	76.6%	84.5%	67.3%	74.2%	43.3%	60.9%	28.2%	35.2%
Marin	88.1%	87.4%	81.6%	78.3%	68.5%	69.5%	55.0%	52.8%
Mariposa	89.0%	86.4%	81.8%	76.2%	67.6%	68.5%	48.5%	51.9%
Mendocino	86.4%	83.2%	75.8%	72.5%	60.1%	61.8%	39.3%	43.6%
Merced	68.7%	80.8%	58.4%	63.9%	39.3%	55.5%	24.8%	30.8%
Modoc	88.2%	82.9%	88.1%	69.0%	59.8%	73.1%	44.7%	50.5%
Mono	84.8%	83.6%	79.5%	67.6%	58.5%	64.9%	41.6%	43.1%
Monterey	76.7%	81.9%	69.5%	66.5%	45.0%	57.5%	31.3%	35.5%
Napa	82.8%	85.0%	74.7%	74.6%	58.8%	66.8%	43.3%	47.2%
Nevada	88.2%	86.8%	77.6%	83.6%	68.5%	70.7%	47.7%	52.8%
Orange	74.4%	80.5%	66.4%	66.4%	49.0%	63.0%	38.8%	41.2%
Placer	86.3%	88.1%	78.5%	76.8%	59.3%	67.3%	44.4%	47.8%
Plumas	85.6%	81.4%	72.9%	74.8%	65.7%	66.9%	43.7%	48.1%
Riverside	71.7%	77.6%	60.8%	63.6%	38.8%	53.1%	27.0%	31.8%
Sacramento	80.5%	82.5%	71.1%	71.0%	51.8%	61.1%	36.6%	39.3%
San Benito	75.1%	84.4%	70.3%	68.4%	49.2%	62.0%	33.6%	38.6%
San Bernardino	65.1%	75.0%	55.7%	59.5%	33.2%	47.8%	21.7%	25.9%
San Diego	79.7%	84.1%	72.1%	70.0%	48.4%	59.3%	35.7%	37.2%
San Francisco	81.9%	76.6%	74.0%	70.5%	62.2%	57.6%	48.4%	42.6%
San Joaquin	70.6%	80.1%	60.0%	65.5%	40.2%	56.4%	27.4%	31.5%
San Luis Obispo	88.1%	86.8%	78.8%	78.3%	63.8%	68.9%	46.4%	48.5%
San Mateo	81.5%	82.5%	73.8%	74.3%	55.4%	60.3%	42.6%	43.2%
Santa Barbara	80.6%	84.8%	72.2%	69.2%	54.6%	65.5%	38.9%	41.4%
Santa Clara	77.5%	80.0%	71.0%	69.2%	51.1%	57.6%	40.5%	38.7%
Santa Cruz	85.4%	84.4%	78.6%	76.3%	61.8%	65.2%	45.4%	45.3%
Shasta	82.7%	83.1%	71.7%	72.1%	60.0%	67.3%	40.0%	44.4%
Sierra	84.0%	89.3%	91.2%	81.0%	75.4%	74.7%	56.9%	49.8%
Siskiyou	84.9%	82.9%	73.6%	66.8%	61.9%	68.8%	38.5%	45.7%
Solano	77.3%	80.8%	65.6%	69.2%	46.1%	56.6%	31.2%	36.5%
Sonoma	87.3%	86.2%	79.3%	77.5%	63.7%	67.5%	46.6%	47.7%
Stanislaus	72.5%	80.0%	60.7%	64.8%	40.5%	53.7%	26.3%	31.8%
Sutter	73.0%	83.8%	69.0%	65.8%	46.5%	63.9%	36.1%	34.0%
Tehama	80.7%	84.0%	69.1%	70.8%	48.9%	65.6%	31.3%	41.6%
Trinity	89.2%	87.5%	79.1%	76.7%	65.0%	67.4%	40.7%	45.3%
Tulare	66.8%	79.8%	55.7%	62.3%	38.5%	54.0%	22.5%	28.9%
Tuolumne	87.3%	86.8%	77.5%	77.0%	67.2%	69.1%	46.8%	50.9%
Ventura	80.2%	84.7%	71.5%	71.7%	48.8%	62.1%	36.9%	40.7%
Yolo	84.3%	83.6%	75.5%	74.1%	54.2%	59.8%	38.5%	41.0%
Yuba	74.3%	78.8%	62.1%	67.2%	41.8%	57.8%	27.2%	32.6%
California	77.0%	80.7%	67.7%	67.6%	45.9%	56.8%	33.1%	35.3%

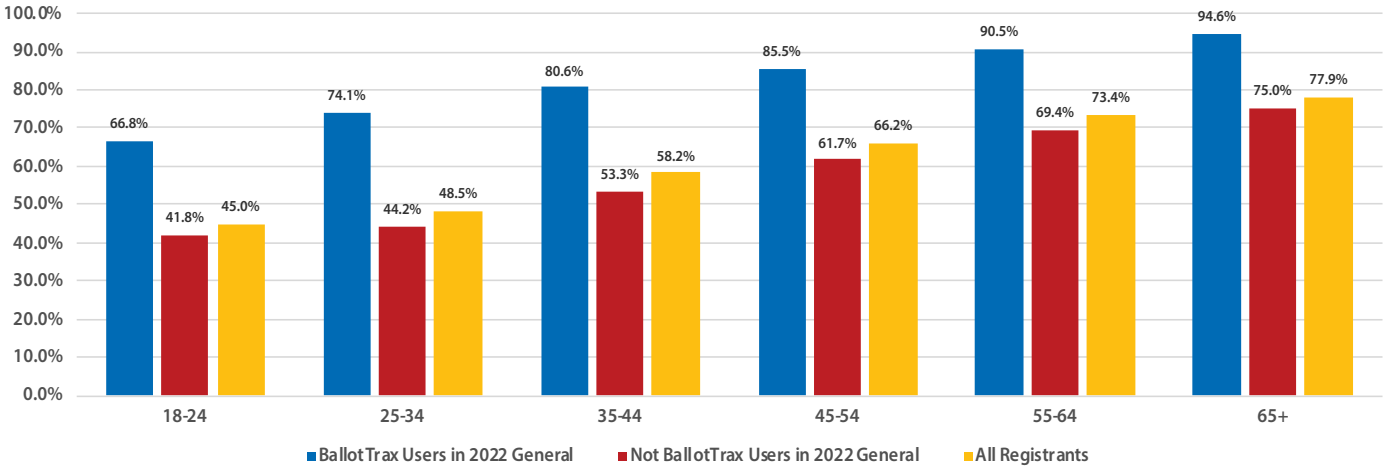
Data Source: California voter files, BallotTrax

Registered Voter Turnout - Race and Ethnicity California 2018 General Election



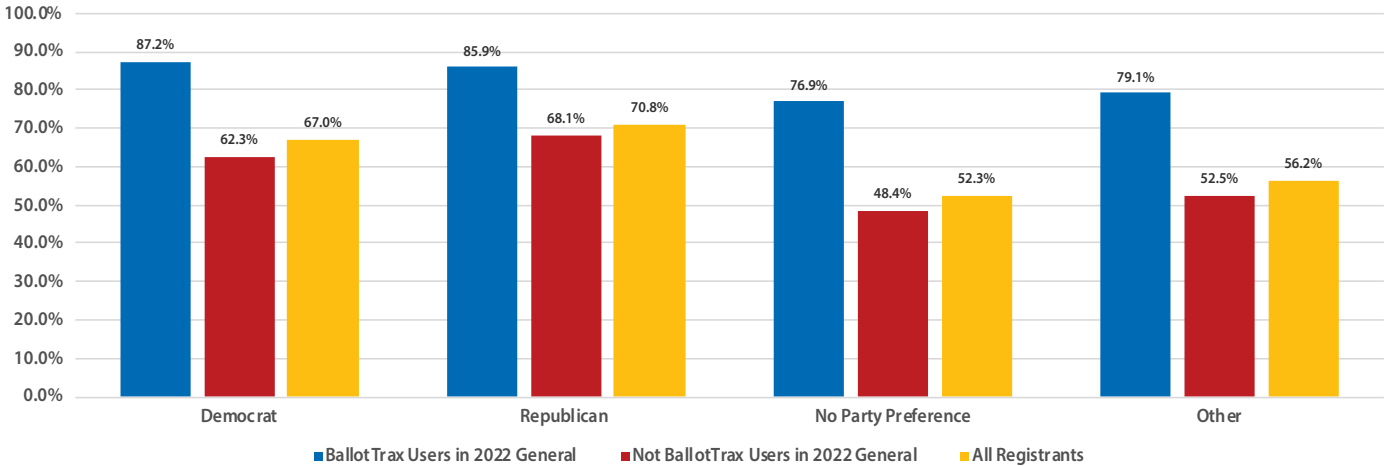
Data Source: California voter files, BallotTrax

Registered Voter Turnout - Age Groups California 2018 General Election



Data Source: California voter files, BallotTrax

Registered Voter Turnout - Party Affiliation California 2018 General Election



Data Source: California voter files, BallotTrax

Appendix C: Voting Methods by BallotTrax Use

Method of Voting by BallotTrax Use 2022 Primary Election																
	BallotTrax Users								Not BallotTrax Users							
	Vote-by-Mail Ballots				In-Person Ballots				Vote-by-Mail Ballots				In-Person Ballots			
	Drop Box	Drop Off at Voting Location	Fax	Mail	CVR	Non-provisional CVR	Provisional	Regular Ballot	Drop Box	Drop Off at Voting Location	Fax	Mail	CVR	Non-provisional CVR	Provisional	Regular Ballot
Alameda	48.3%	15.4%	0.1%	33.9%	0.0%	NA	0.0%	2.2%	36.2%	18.0%	0.0%	41.5%	0.3%	0.0%	0.0%	4.0%
Alpine	22.3%	NA	NA	77.7%	NA	NA	NA	NA	40.6%	NA	NA	59.4%	NA	NA	NA	NA
Amador	60.1%	0.6%	0.1%	36.1%	NA	0.1%	NA	3.1%	54.8%	0.4%	0.0%	40.6%	0.0%	0.3%	NA	3.7%
Butte	38.0%	11.9%	0.3%	49.6%	0.0%	NA	0.1%	0.0%	33.8%	11.4%	0.1%	54.3%	0.1%	NA	0.3%	0.1%
Calaveras	30.7%	17.0%	0.1%	47.6%	NA	0.1%	NA	4.5%	26.9%	19.4%	0.0%	46.5%	0.0%	0.4%	NA	6.8%
Colusa	34.1%	18.4%	NA	41.4%	NA	NA	0.2%	5.9%	30.6%	19.6%	NA	41.1%	0.1%	NA	0.3%	8.3%
Contra Costa	35.5%	11.2%	0.1%	49.5%	0.0%	NA	0.0%	3.7%	24.8%	12.7%	0.0%	55.7%	0.1%	NA	0.0%	6.7%
Del Norte	0.3%	46.8%	NA	47.9%	NA	NA	NA	5.0%	NA	46.2%	NA	40.6%	0.1%	NA	0.1%	12.9%
El Dorado	51.1%	10.3%	0.0%	34.9%	0.0%	0.1%	NA	3.5%	45.3%	11.1%	0.0%	38.7%	0.1%	0.1%	0.0%	4.7%
Fresno	39.4%	12.8%	0.1%	42.2%	0.0%	0.1%	NA	5.3%	30.7%	13.1%	0.0%	47.6%	0.1%	0.2%	NA	8.1%
Glenn	60.6%	2.2%	NA	35.2%	NA	NA	NA	2.0%	53.1%	2.0%	NA	41.0%	0.1%	NA	NA	3.8%
Humboldt	25.2%	17.7%	0.3%	52.2%	0.0%	NA	0.5%	4.1%	19.7%	16.7%	0.0%	53.5%	0.1%	NA	1.4%	8.6%
Imperial	16.2%	32.4%	NA	47.7%	NA	NA	2.0%	1.7%	13.6%	32.0%	NA	48.9%	0.2%	NA	3.9%	1.5%
Inyo	35.9%	14.8%	0.1%	45.0%	NA	NA	0.1%	4.1%	22.6%	19.0%	0.0%	47.0%	NA	NA	0.7%	10.6%
Kern	0.0%	32.5%	NA	62.6%	0.0%	NA	2.0%	2.8%	0.0%	32.3%	NA	58.4%	0.2%	0.0%	4.2%	4.8%
Kings	46.4%	18.4%	0.0%	30.7%	0.0%	NA	0.1%	4.3%	38.5%	16.2%	0.0%	38.6%	0.2%	NA	0.0%	6.5%
Lake	16.2%	17.6%	NA	60.8%	0.1%	NA	3.0%	2.3%	10.3%	19.8%	0.0%	58.4%	0.2%	NA	7.3%	4.1%
Lassen	26.0%	30.0%	NA	42.2%	NA	NA	0.8%	1.0%	20.5%	33.8%	NA	43.3%	0.2%	NA	1.1%	1.0%
Los Angeles	44.5%	10.6%	0.1%	35.9%	0.1%	NA	0.0%	8.8%	30.9%	12.0%	0.0%	39.0%	0.4%	NA	0.0%	17.6%
Madera	41.3%	13.4%	0.1%	41.6%	0.1%	NA	0.0%	3.5%	38.9%	13.2%	0.0%	42.0%	0.2%	0.1%	0.0%	5.7%
Marin	24.4%	14.9%	0.3%	57.8%	0.0%	NA	0.0%	2.5%	19.3%	16.1%	0.1%	59.6%	0.2%	NA	0.0%	4.8%
Mariposa	53.7%	11.1%	NA	35.0%	NA	NA	NA	0.1%	51.0%	13.5%	0.1%	35.2%	0.0%	NA	0.1%	0.1%
Mendocino	38.6%	12.5%	0.2%	47.0%	NA	NA	0.9%	0.8%	33.2%	14.5%	0.1%	48.5%	0.0%	NA	1.6%	2.0%
Merced	32.6%	16.5%	0.1%	46.0%	0.0%	NA	0.0%	4.8%	27.3%	15.6%	0.0%	52.1%	0.1%	NA	0.0%	4.9%
Modoc	29.0%	14.5%	NA	53.1%	NA	NA	NA	3.3%	25.7%	17.6%	NA	50.2%	0.3%	NA	0.1%	6.0%
Mono	42.1%	5.7%	0.3%	47.8%	0.2%	NA	0.1%	3.7%	34.9%	6.8%	0.0%	45.6%	0.3%	NA	0.8%	11.6%
Monterey	2.8%	13.3%	0.3%	81.3%	0.0%	NA	1.4%	0.9%	2.2%	17.1%	0.0%	75.8%	0.2%	NA	3.0%	1.6%
Napa	32.3%	21.1%	0.2%	45.2%	0.0%	0.0%	NA	1.2%	26.5%	20.8%	0.1%	51.0%	0.1%	0.1%	0.0%	1.4%
Nevada	23.6%	35.5%	0.2%	37.1%	0.1%	NA	NA	3.4%	18.6%	35.1%	0.0%	41.0%	0.2%	NA	NA	5.0%
Orange	36.3%	15.2%	0.1%	40.6%	0.1%	NA	NA	7.8%	26.7%	16.4%	0.0%	44.2%	0.2%	0.0%	NA	12.4%
Placer	42.8%	12.5%	0.0%	39.4%	0.0%	NA	0.1%	5.0%	37.6%	13.1%	0.0%	41.7%	0.2%	NA	0.3%	7.1%
Plumas	22.6%	2.9%	0.1%	74.4%	NA	NA	NA	NA	25.4%	2.9%	NA	71.6%	0.1%	NA	NA	NA
Riverside	0.9%	29.1%	0.1%	65.4%	0.1%	NA	NA	4.4%	0.7%	27.0%	0.0%	65.1%	0.4%	NA	NA	6.8%
Sacramento	43.7%	15.8%	0.1%	37.8%	0.1%	0.0%	NA	2.5%	39.5%	15.7%	0.0%	41.0%	0.3%	NA	0.0%	3.4%
San Benito	48.7%	15.5%	0.0%	31.0%	0.0%	0.0%	NA	4.7%	41.2%	17.9%	0.0%	35.5%	0.1%	0.2%	NA	5.1%
San Bernardi-no	18.0%	22.1%	0.1%	52.8%	0.0%	NA	0.0%	7.0%	10.3%	23.8%	0.0%	52.7%	0.2%	NA	0.0%	12.9%
San Diego	33.2%	9.8%	0.1%	52.6%	0.0%	NA	0.0%	4.2%	28.7%	10.9%	0.0%	52.5%	0.2%	NA	0.0%	7.6%
San Francisco	17.3%	18.1%	0.3%	58.9%	0.0%	NA	0.7%	4.6%	14.4%	20.2%	0.1%	54.3%	0.0%	NA	1.6%	9.3%
San Joaquin	31.3%	14.3%	0.0%	49.2%	0.1%	NA	0.3%	4.7%	26.2%	13.8%	0.0%	52.7%	0.2%	NA	0.5%	6.5%
San Luis Obispo	22.1%	22.1%	0.2%	53.5%	0.1%	NA	0.1%	2.0%	16.0%	24.1%	0.0%	56.5%	0.1%	NA	0.2%	3.0%
San Mateo	37.8%	8.4%	0.2%	51.1%	0.0%	NA	NA	2.6%	30.0%	8.3%	0.0%	56.8%	0.2%	NA	0.0%	4.6%
Santa Barbara	44.4%	8.1%	0.2%	44.2%	0.1%	NA	0.1%	2.8%	34.3%	9.9%	0.1%	49.5%	0.2%	NA	0.2%	5.9%
Santa Clara	40.6%	11.7%	0.1%	44.8%	0.0%	NA	0.0%	2.8%	33.5%	12.9%	0.0%	48.5%	0.2%	NA	0.0%	4.9%
Santa Cruz	45.2%	10.5%	0.3%	40.9%	0.1%	0.1%	0.0%	2.9%	36.8%	13.1%	0.1%	43.7%	0.3%	0.2%	0.0%	5.8%
Shasta	33.9%	26.4%	0.1%	32.6%	0.1%	NA	0.1%	6.9%	28.7%	28.0%	0.0%	33.5%	0.3%	NA	0.2%	9.4%
Sierra	8.7%	3.6%	NA	87.7%	NA	NA	NA	NA	6.0%	6.7%	NA	87.0%	0.3%	NA	NA	NA
Siskiyou	15.2%	16.5%	0.0%	62.7%	0.1%	NA	0.0%	5.4%	13.1%	21.1%	0.0%	54.1%	0.9%	NA	0.2%	10.5%
Solano	0.9%	35.7%	0.1%	57.9%	0.0%	NA	0.2%	5.1%	0.9%	36.4%	0.0%	50.4%	0.1%	NA	0.6%	11.6%
Sonoma	37.4%	11.1%	0.1%	49.6%	0.0%	0.0%	0.0%	1.7%	28.4%	12.5%	0.0%	55.6%	0.1%	0.0%	0.1%	3.2%
Stanislaus	27.7%	16.6%	0.0%	51.9%	0.0%	0.0%	0.0%	3.7%	23.2%	15.5%	0.0%	57.2%	0.1%	0.0%	0.0%	3.9%
Sutter	35.6%	17.7%	0.1%	44.0%	0.0%	NA	0.0%	2.5%	29.6%	18.3%	0.0%	49.0%	0.2%	NA	0.1%	2.8%
Tehama	38.7%	18.0%	0.1%	35.5%	0.1%	NA	0.7%	6.9%	33.0%	18.6%	0.0%	35.9%	0.2%	NA	0.7%	11.6%
Trinity	46.5%	9.6%	0.3%	40.9%	NA	NA	0.8%	1.9%	39.7%	9.3%	0.0%	47.8%	0.1%	NA	1.8%	1.3%
Tulare	24.8%	15.7%	0.1%	53.4%	0.0%	0.1%	0.2%	5.7%	18.4%	17.0%	0.0%	54.5%	0.1%	0.2%	0.3%	9.5%
Tuolumne	12.1%	43.1%	0.0%	43.2%	0.1%	NA	NA	1.5%	12.2%	37.3%	0.0%	47.8%	0.2%	NA	NA	2.5%
Ventura	53.4%	8.9%	0.1%	31.8%	0.0%	0.1%	NA	5.6%	44.9%	10.1%	0.0%	36.1%	0.1%	0.3%	0.0%	8.5%
Yolo	52.5%	0.1%	0.2%	44.5%	0.1%	NA	NA	2.8%	47.0%	0.1%	0.0%	47.8%	0.4%	NA	NA	4.7%
Yuba	33.5%	28.2%	0.0%	32.9%	NA	NA	0.2%	5.1%	26.2%	29.7%	0.0%	32.7%	0.1%	NA	0.4%	10.8%
California	35.2%	14.3%	0.1%	45.0%	0.1%	0.0%	0.1%	5.2%	26.9%	15.6%	0.0%	47.6%	0.2%	0.0%	0.2%	9.4%

Data Source: California voter files, BallotTrax

**Method of Voting by BallotTrax Use
2022 General Election**

	BallotTrax Users								Not BallotTrax Users							
	Vote-by-Mail Ballots				In-Person Ballots				Vote-by-Mail Ballots				In-Person Ballots			
	Drop Box	Drop Off at Voting Location	Fax	Mail	CVR	Non-provisional CVR	Provisional	Regular Ballot	Drop Box	Drop Off at Voting Location	Fax	Mail	CVR	Non-provisional CVR	Provisional	Regular Ballot
Alameda	51.5%	14.4%	0.3%	29.6%	0.1%	NA	0.1%	4.1%	39.1%	17.3%	0.1%	34.4%	1.2%	NA	0.2%	7.8%
Alpine	18.6%	0.8%	NA	80.5%	NA	NA	NA	NA	38.2%	1.0%	NA	60.8%	NA	NA	NA	NA
Amador	51.5%	10.6%	0.1%	33.0%	NA	0.2%	NA	4.5%	44.9%	11.8%	0.0%	36.5%	0.0%	0.7%	NA	6.1%
Butte	37.3%	18.0%	0.3%	43.8%	0.1%	NA	0.5%	0.0%	31.1%	20.6%	0.1%	46.6%	0.7%	NA	0.8%	0.1%
Calaveras	41.3%	9.1%	0.1%	41.8%	0.0%	0.1%	NA	7.5%	39.9%	10.3%	0.0%	38.8%	0.0%	0.7%	0.0%	10.2%
Colusa	28.7%	25.6%	0.1%	40.2%	NA	NA	0.2%	5.2%	23.5%	24.9%	0.0%	41.3%	0.5%	0.0%	0.8%	9.1%
Contra Costa	41.0%	11.0%	0.1%	42.5%	0.0%	NA	0.0%	5.4%	29.0%	13.9%	0.0%	46.5%	0.4%	NA	0.2%	10.0%
Del Norte	0.1%	49.9%	0.1%	42.7%	0.1%	NA	NA	6.9%	0.1%	46.0%	NA	39.4%	0.4%	NA	0.1%	13.9%
El Dorado	43.5%	15.0%	0.1%	36.6%	0.1%	0.1%	NA	4.7%	39.3%	15.2%	0.0%	37.6%	0.4%	0.3%	0.0%	7.2%
Fresno	43.6%	12.2%	0.2%	34.9%	0.1%	0.2%	0.0%	8.8%	35.0%	12.6%	0.0%	38.4%	0.4%	0.8%	0.0%	12.8%
Glenn	51.2%	2.9%	NA	41.7%	0.1%	NA	0.1%	3.9%	45.5%	2.3%	NA	46.3%	0.6%	NA	0.0%	5.2%
Humboldt	32.8%	14.7%	0.3%	45.9%	0.1%	NA	0.5%	5.7%	26.1%	15.1%	0.1%	45.0%	0.4%	NA	1.9%	11.5%
Imperial	32.3%	24.8%	NA	38.2%	0.0%	NA	2.9%	1.7%	27.9%	25.5%	NA	39.6%	0.3%	NA	5.1%	1.7%
Inyo	34.1%	12.4%	0.1%	46.9%	0.2%	NA	0.1%	6.2%	24.0%	15.6%	0.1%	46.1%	0.7%	NA	0.3%	13.1%
Kern	16.4%	23.1%	0.0%	53.2%	0.1%	NA	0.4%	6.8%	15.0%	24.4%	0.0%	47.4%	0.4%	NA	0.9%	11.9%
Kings	52.1%	11.3%	0.1%	30.0%	0.1%	NA	NA	6.6%	42.7%	11.3%	0.0%	35.9%	0.5%	0.0%	0.0%	9.6%
Lake	17.3%	21.6%	NA	55.7%	0.0%	NA	1.9%	3.5%	10.8%	23.0%	0.0%	52.5%	0.6%	NA	5.7%	7.3%
Lassen	23.1%	33.8%	NA	40.8%	NA	NA	1.0%	1.4%	19.4%	36.6%	NA	40.6%	0.0%	NA	1.5%	1.8%
Los Angeles	46.1%	11.4%	0.2%	31.0%	0.1%	NA	0.0%	11.2%	32.7%	13.0%	0.0%	31.4%	1.0%	0.0%	0.0%	21.9%
Madera	37.2%	12.4%	0.2%	44.2%	0.1%	0.0%	NA	5.9%	35.2%	12.2%	0.1%	42.8%	0.6%	0.2%	0.0%	8.8%
Marin	38.8%	4.2%	0.5%	52.5%	0.1%	NA	0.0%	3.9%	33.0%	5.8%	0.1%	52.2%	0.9%	NA	0.0%	8.0%
Mariposa	55.0%	11.3%	0.2%	33.5%	0.1%	NA	NA	NA	52.8%	13.8%	0.1%	32.6%	0.3%	0.0%	0.2%	0.1%
Mendocino	53.5%	2.1%	0.4%	41.8%	0.2%	NA	0.7%	1.2%	51.5%	1.1%	0.2%	43.1%	0.3%	0.0%	1.7%	2.2%
Merced	34.2%	18.4%	0.1%	39.0%	0.2%	NA	0.1%	8.0%	27.1%	18.4%	0.1%	45.1%	0.5%	NA	0.1%	8.7%
Modoc	28.9%	19.1%	NA	47.7%	NA	NA	NA	4.3%	25.4%	21.1%	0.0%	44.8%	0.4%	NA	0.2%	8.0%
Mono	39.1%	8.3%	0.2%	46.0%	0.3%	NA	0.3%	5.8%	29.9%	11.1%	0.1%	42.8%	1.4%	NA	0.7%	14.0%
Monterey	16.4%	8.7%	0.7%	70.7%	0.1%	NA	2.0%	1.4%	14.5%	12.3%	0.1%	65.9%	0.5%	0.0%	4.6%	2.1%
Napa	37.5%	20.3%	0.3%	39.3%	0.2%	0.1%	0.0%	2.3%	30.4%	22.0%	0.1%	43.7%	0.5%	0.1%	0.0%	3.1%
Nevada	25.7%	35.1%	0.3%	34.0%	0.1%	NA	NA	4.8%	20.3%	33.3%	0.1%	38.1%	0.8%	NA	0.0%	7.4%
Orange	38.0%	15.1%	0.2%	35.4%	0.2%	NA	NA	11.2%	28.6%	16.7%	0.0%	36.8%	0.7%	0.0%	0.0%	17.2%
Placer	42.1%	12.3%	0.1%	38.2%	0.0%	NA	0.2%	7.0%	37.2%	13.5%	0.0%	38.5%	0.4%	NA	0.6%	9.8%
Plumas	23.6%	4.2%	0.1%	72.0%	0.1%	NA	0.1%	NA	25.7%	3.6%	NA	70.6%	0.1%	NA	NA	NA
Riverside	2.3%	37.4%	0.1%	53.3%	0.2%	NA	NA	6.6%	1.7%	35.7%	0.0%	51.5%	1.2%	0.0%	0.0%	9.9%
Sacramento	29.4%	24.1%	0.1%	42.4%	0.2%	NA	0.0%	3.8%	24.9%	24.4%	0.0%	44.0%	1.0%	0.0%	0.0%	5.6%
San Benito	55.2%	13.0%	0.2%	24.7%	NA	0.3%	NA	6.7%	48.0%	16.4%	0.0%	27.0%	0.0%	0.6%	0.0%	7.9%
San Bernardi-no	22.7%	23.1%	0.1%	45.1%	0.1%	NA	0.0%	8.9%	14.9%	26.0%	0.0%	42.8%	0.6%	0.0%	0.0%	15.6%
San Diego	33.7%	13.2%	0.2%	47.1%	0.1%	NA	0.0%	5.6%	29.1%	15.6%	0.1%	43.8%	0.7%	0.0%	0.0%	10.7%
San Francisco	19.9%	21.3%	0.7%	52.3%	0.1%	NA	0.9%	4.8%	17.4%	23.2%	0.2%	46.3%	0.2%	0.0%	3.3%	9.5%
San Joaquin	32.4%	13.3%	0.0%	46.6%	0.1%	NA	0.4%	7.2%	27.4%	13.7%	0.0%	47.5%	0.6%	NA	0.8%	9.9%
San Luis Obispo	20.8%	23.2%	0.2%	50.7%	0.2%	NA	0.2%	4.8%	15.2%	25.9%	0.1%	51.5%	0.6%	0.0%	0.6%	6.1%
San Mateo	40.5%	9.5%	0.3%	45.3%	0.1%	0.0%	0.0%	4.2%	32.6%	10.3%	0.1%	48.7%	0.6%	NA	0.0%	7.6%
Santa Barbara	44.3%	8.5%	0.5%	41.7%	0.3%	NA	0.1%	4.6%	34.4%	10.6%	0.1%	44.8%	0.9%	0.0%	0.4%	8.8%
Santa Clara	42.8%	11.5%	0.2%	41.0%	0.1%	NA	NA	4.4%	35.8%	13.3%	0.0%	42.4%	0.7%	0.0%	0.0%	7.7%
Santa Cruz	46.1%	11.8%	0.5%	36.9%	0.5%	0.1%	0.0%	4.3%	37.3%	14.4%	0.2%	37.8%	1.5%	0.3%	0.1%	8.4%
Shasta	34.1%	26.6%	0.1%	29.7%	0.1%	NA	0.3%	9.2%	28.0%	28.7%	0.0%	30.4%	0.4%	NA	0.6%	11.9%
Sierra	9.3%	2.0%	NA	88.7%	NA	NA	NA	NA	5.5%	6.4%	NA	87.9%	0.1%	NA	NA	0.1%
Siskiyou	16.4%	17.0%	0.1%	59.7%	0.2%	NA	0.1%	6.5%	13.4%	19.3%	0.0%	53.1%	0.7%	NA	0.3%	13.1%
Solano	0.7%	41.9%	0.1%	49.5%	0.0%	NA	0.3%	7.4%	0.5%	41.8%	0.0%	39.9%	0.4%	NA	1.2%	16.2%
Sonoma	42.7%	11.0%	0.3%	43.1%	0.1%	0.0%	0.1%	2.7%	34.1%	13.0%	0.1%	46.7%	0.5%	0.1%	0.3%	5.2%
Stanislaus	32.4%	17.1%	0.0%	44.2%	0.0%	NA	0.0%	6.3%	27.2%	18.0%	0.0%	46.5%	0.4%	NA	0.0%	7.8%
Sutter	40.6%	16.8%	0.1%	38.6%	0.2%	NA	0.1%	3.7%	32.4%	19.7%	0.0%	42.1%	0.4%	NA	0.3%	5.1%
Tehama	38.7%	17.8%	0.1%	34.3%	0.0%	NA	0.4%	8.7%	31.3%	19.2%	0.0%	33.5%	0.4%	NA	0.6%	14.9%
Trinity	44.5%	9.8%	0.3%	40.7%	NA	NA	1.0%	3.7%	37.7%	9.1%	0.1%	47.0%	0.7%	NA	0.9%	4.5%
Tulare	30.1%	15.2%	0.1%	45.3%	0.0%	0.2%	0.0%	9.0%	22.0%	17.6%	0.0%	45.8%	0.2%	0.7%	0.1%	13.6%
Tuolumne	33.7%	23.6%	0.0%	40.2%	0.0%	NA	NA	2.4%	28.7%	23.1%	0.0%	43.6%	0.4%	NA	NA	4.2%
Ventura	54.4%	9.2%	0.2%	28.9%	0.0%	0.1%	0.0%	7.2%	45.6%	10.7%	0.1%	31.6%	0.2%	0.7%	0.0%	11.1%
Yolo	57.2%	0.3%	0.3%	37.6%	0.4%	NA	NA	4.1%	54.2%	0.4%	0.1%	35.8%	1.8%	NA	0.0%	7.8%
Yuba	32.3%	17.9%	0.0%	42.8%	0.1%	NA	0.2%	6.7%	22.9%	21.9%	0.0%	40.7%	0.7%	NA	0.6%	13.0%
California	36.7%	15.6%	0.2%	40.0%	0.1%	0.0%	0.1%	7.2%	28.3%	17.3%	0.0%	40.4%	0.7%	0.1%	0.3%	12.8%

Data Source: California voter files, BallotTrax