



California In-Hospital Breastfeeding as Indicated on the Newborn Screening Test Form
Statewide and Maternal County of Residence by Race/Ethnicity: 2018

Geography and Race/Ethnicity	TOTAL	ANY BREASTFEEDING			EXCLUSIVE BREASTFEEDING		
		Number	Percent	95% CI	Number	Percent	95% CI
				Lower-Upper			Lower-Upper
CALIFORNIA	394,951	370,661	93.8	(93.8 - 93.9)	278,019	70.4	(70.3 - 70.5)
African American	18,185	15,731	86.5	(86.0 - 87.0)	11,188	61.5	(60.8 - 62.2)
American Indian	650	588	90.5	(88.0 - 92.5)	459	70.6	(67.0 - 74.0)
Asian	54,423	51,618	94.8	(94.7 - 95.0)	35,831	65.8	(65.4 - 66.2)
Multiple Race	15,770	14,719	93.3	(92.9 - 93.7)	12,014	76.2	(75.5 - 76.8)
Pacific Islander	568	509	89.6	(86.8 - 91.9)	380	66.9	(62.9 - 70.6)
Other	6,177	5,544	89.8	(89.0 - 90.5)	4,023	65.1	(63.9 - 66.3)
White	101,774	97,161	95.5	(95.3 - 95.6)	82,680	81.2	(81.0 - 81.5)
Hispanic	186,898	174,880	93.6	(93.5 - 93.7)	123,838	66.3	(66.0 - 66.5)
Missing	10,506	.	.	.	.	.	.
ALAMEDA	15,970	15,455	96.8	(96.5 - 97.0)	12,754	79.9	(79.2 - 80.5)
African American	1,139	1,056	92.7	(91.1 - 94.1)	835	73.3	(70.7 - 75.8)
American Indian	17	15	88.2	(65.7 - 96.7)	13	76.5	(52.7 - 90.4)
Asian	5,041	4,926	97.7	(97.3 - 98.1)	3,988	79.1	(78.0 - 80.2)
Multiple Race	811	781	96.3	(94.8 - 97.4)	666	82.1	(79.3 - 84.6)
Pacific Islander	30	26	86.7	(70.3 - 94.7)	14	46.7	(30.2 - 63.9)
Other	497	477	96.0	(93.9 - 97.4)	373	75.1	(71.1 - 78.7)
White	3,632	3,541	97.5	(96.9 - 98.0)	3,171	87.3	(86.2 - 88.4)
Hispanic	4,135	3,980	96.3	(95.6 - 96.8)	3,144	76.0	(74.7 - 77.3)
Missing	668	.	.	.	.	.	.
ALPINE	10	.	.	.	.	.	.
African American	.	.	.	.	.	.	.
American Indian	4	.	.	.	.	.	.
Asian	.	.	.	.	.	.	.
Multiple Race	.	.	.	.	.	.	.
Pacific Islander	.	.	.	.	.	.	.
Other	.	.	.	.	.	.	.
White	4	.	.	.	.	.	.
Hispanic	.	.	.	.	.	.	.
Missing	2	.	.	.	.	.	.
AMADOR	266	251	94.4	(90.9 - 96.6)	220	82.7	(77.7 - 86.8)
African American	1	.	.	.	.	.	.
American Indian	2	.	.	.	.	.	.
Asian	4	.	.	.	.	.	.
Multiple Race	13	11	84.6	(57.8 - 95.7)	11	84.6	(57.8 - 95.7)
Pacific Islander	.	.	.	.	.	.	.
Other	.	.	.	.	.	.	.
White	176	168	95.5	(91.3 - 97.7)	152	86.4	(80.5 - 90.7)
Hispanic	62	57	91.9	(82.5 - 96.5)	46	74.2	(62.1 - 83.4)
Missing	8	.	.	.	.	.	.
BUTTE	2,077	1,908	91.9	(90.6 - 93.0)	1,577	75.9	(74.0 - 77.7)
African American	23	23	100.0	(85.7 - 100.0)	17	73.9	(53.5 - 87.5)
American Indian	15	13	86.7	(62.1 - 96.3)	10	66.7	(41.7 - 84.8)
Asian	73	45	61.6	(50.2 - 71.9)	28	38.4	(28.1 - 49.8)
Multiple Race	134	115	85.8	(78.9 - 90.7)	90	67.2	(58.8 - 74.5)
Pacific Islander	3	.	.	.	.	.	.
Other	64	41	64.1	(51.8 - 74.7)	15	23.4	(14.7 - 35.1)
White	1,300	1,233	94.8	(93.5 - 95.9)	1,068	82.2	(80.0 - 84.1)
Hispanic	405	378	93.3	(90.5 - 95.4)	302	74.6	(70.1 - 78.6)
Missing	60	.	.	.	.	.	.
CALAVERAS	328	314	95.7	(93.0 - 97.4)	253	77.1	(72.3 - 81.3)
African American	.	.	.	.	.	.	.
American Indian	2	.	.	.	.	.	.
Asian	.	.	.	.	.	.	.
Multiple Race	26	25	96.2	(81.1 - 99.3)	23	88.5	(71.0 - 96.0)
Pacific Islander	.	.	.	.	.	.	.
Other	1	.	.	.	.	.	.
White	235	225	95.7	(92.3 - 97.7)	188	80.0	(74.4 - 84.6)
Hispanic	55	53	96.4	(87.7 - 99.0)	35	63.6	(50.4 - 75.1)
Missing	9	.	.	.	.	.	.
COLUSA	236	227	96.2	(92.9 - 98.0)	172	72.9	(66.9 - 78.2)
African American	3	.	.	.	.	.	.
American Indian	1	.	.	.	.	.	.
Asian	3	.	.	.	.	.	.
Multiple Race	7	.	.	.	.	.	.
Pacific Islander	.	.	.	.	.	.	.
Other	.	.	.	.	.	.	.
White	53	50	94.3	(84.6 - 98.1)	45	84.9	(72.9 - 92.1)
Hispanic	165	159	96.4	(92.3 - 98.3)	112	67.9	(60.4 - 74.5)
Missing	4



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		Number	Percent	95% CI	Number	Percent	95% CI
				Lower-Upper			Lower-Upper
CONTRA COSTA	10,475	10,080	96.2	(95.8 - 96.6)	8,534	81.5	(80.7 - 82.2)
African American	795	733	92.2	(90.1 - 93.9)	594	74.7	(71.6 - 77.6)
American Indian	7	.	.	.	.	.	.
Asian	1,600	1,563	97.7	(96.8 - 98.3)	1,278	79.9	(77.8 - 81.8)
Multiple Race	586	561	95.7	(93.8 - 97.1)	480	81.9	(78.6 - 84.8)
Pacific Islander	36	32	88.9	(74.7 - 95.6)	24	66.7	(50.3 - 79.8)
Other	294	282	95.9	(93.0 - 97.6)	238	81.0	(76.1 - 85.0)
White	3,298	3,175	96.3	(95.6 - 96.9)	2,758	83.6	(82.3 - 84.9)
Hispanic	3,496	3,378	96.6	(96.0 - 97.2)	2,858	81.8	(80.4 - 83.0)
Missing	363	.	.	.	.	.	.
DEL NORTE	234	213	91.0	(86.7 - 94.1)	175	74.8	(68.9 - 79.9)
African American	1	.	.	.	.	.	.
American Indian	20	18	90.0	(69.9 - 97.2)	16	80.0	(58.4 - 91.9)
Asian	3	.	.	.	.	.	.
Multiple Race	48	45	93.8	(83.2 - 97.9)	39	81.3	(68.1 - 89.8)
Pacific Islander	1	.	.	.	.	.	.
Other	3	.	.	.	.	.	.
White	113	101	89.4	(82.4 - 93.8)	81	71.7	(62.8 - 79.2)
Hispanic	43	42	97.7	(87.9 - 99.6)	35	81.4	(67.4 - 90.3)
Missing	2	.	.	.	.	.	.
EL DORADO	1,393	1,347	96.7	(95.6 - 97.5)	1,138	81.7	(79.6 - 83.6)
African American	5	.	.	.	.	.	.
American Indian	2	.	.	.	.	.	.
Asian	68	64	94.1	(85.8 - 97.7)	45	66.2	(54.3 - 76.3)
Multiple Race	82	80	97.6	(91.5 - 99.3)	70	85.4	(76.1 - 91.4)
Pacific Islander	1	.	.	.	.	.	.
Other	8	.	.	.	.	.	.
White	939	912	97.1	(95.8 - 98.0)	791	84.2	(81.8 - 86.4)
Hispanic	254	245	96.5	(93.4 - 98.1)	196	77.2	(71.6 - 81.9)
Missing	34	.	.	.	.	.	.
FRESNO	12,623	11,042	87.5	(86.9 - 88.0)	8,756	69.4	(68.6 - 70.2)
African American	529	425	80.3	(76.7 - 83.5)	347	65.6	(61.4 - 69.5)
American Indian	32	30	93.8	(79.9 - 98.3)	22	68.8	(51.4 - 82.0)
Asian	994	769	77.4	(74.7 - 79.9)	543	54.6	(51.5 - 57.7)
Multiple Race	482	358	74.3	(70.2 - 78.0)	284	58.9	(54.5 - 63.2)
Pacific Islander	2	.	.	.	.	.	.
Other	307	213	69.4	(64.0 - 74.3)	129	42.0	(36.6 - 47.6)
White	2,283	2,111	92.5	(91.3 - 93.5)	1,822	79.8	(78.1 - 81.4)
Hispanic	7,702	6,882	89.4	(88.6 - 90.0)	5,396	70.1	(69.0 - 71.1)
Missing	292	.	.	.	.	.	.
GLENN	309	297	96.1	(93.3 - 97.8)	228	73.8	(68.6 - 78.4)
African American	1	.	.	.	.	.	.
American Indian	1	.	.	.	.	.	.
Asian	4	.	.	.	.	.	.
Multiple Race	9	.	.	.	.	.	.
Pacific Islander	.	.	.	.	.	.	.
Other	2	.	.	.	.	.	.
White	113	107	94.7	(88.9 - 97.5)	93	82.3	(74.2 - 88.2)
Hispanic	174	168	96.6	(92.7 - 98.4)	119	68.4	(61.1 - 74.8)
Missing	5	.	.	.	.	.	.
HUMBOLDT	1,133	1,077	95.1	(93.6 - 96.2)	923	81.5	(79.1 - 83.6)
African American	7	.	.	.	.	.	.
American Indian	74	69	93.2	(85.1 - 97.1)	56	75.7	(64.8 - 84.0)
Asian	17	15	88.2	(65.7 - 96.7)	13	76.5	(52.7 - 90.4)
Multiple Race	119	112	94.1	(88.4 - 97.1)	94	79.0	(70.8 - 85.3)
Pacific Islander	1	.	.	.	.	.	.
Other	29	16	55.2	(37.5 - 71.6)	.	.	.
White	635	615	96.9	(95.2 - 98.0)	553	87.1	(84.3 - 89.5)
Hispanic	212	205	96.7	(93.3 - 98.4)	161	75.9	(69.8 - 81.2)
Missing	39	.	.	.	.	.	.
IMPERIAL	2,190	2,044	93.3	(92.2 - 94.3)	1,052	48.0	(45.9 - 50.1)
African American	10	10	100.0	(72.2 - 100.0)	.	.	.
American Indian	.	.	.	.	.	.	.
Asian	14	10	71.4	(45.4 - 88.3)	.	.	.
Multiple Race	3	.	.	.	.	.	.
Pacific Islander	.	.	.	.	.	.	.
Other	.	.	.	.	.	.	.
White	107	94	87.9	(80.3 - 92.8)	63	58.9	(49.4 - 67.7)
Hispanic	2,002	1,876	93.7	(92.6 - 94.7)	947	47.3	(45.1 - 49.5)
Missing	54

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		Number	Percent	95% CI	Number	Percent	95% CI
				Lower-Upper			Lower-Upper
INYO	148	145	98.0	(94.2 - 99.3)	130	87.8	(81.6 - 92.2)
African American	.	.	.	.	.	.	.
American Indian	14	14	100.0	(78.5 - 100.0)	12	85.7	(60.1 - 96.0)
Asian	.	.	.	.	.	.	.
Multiple Race	13	13	100.0	(77.2 - 100.0)	11	84.6	(57.8 - 95.7)
Pacific Islander	.	.	.	.	.	.	.
Other	.	.	.	.	.	.	.
White	65	64	98.5	(91.8 - 99.7)	59	90.8	(81.3 - 95.7)
Hispanic	52	50	96.2	(87.0 - 98.9)	45	86.5	(74.7 - 93.3)
Missing	4	.	.	.	.	.	.
KERN	11,171	9,964	89.2	(88.6 - 89.8)	7,183	64.3	(63.4 - 65.2)
African American	575	419	72.9	(69.1 - 76.3)	257	44.7	(40.7 - 48.8)
American Indian	11	.	.	.	.	.	.
Asian	344	318	92.4	(89.2 - 94.8)	220	64.0	(58.8 - 68.8)
Multiple Race	255	222	87.1	(82.4 - 90.6)	176	69.0	(63.1 - 74.4)
Pacific Islander	11	11	100.0	(74.1 - 100.0)	10	90.9	(62.3 - 98.4)
Other	80	68	85.0	(75.6 - 91.2)	49	61.3	(50.3 - 71.2)
White	2,700	2,421	89.7	(88.5 - 90.8)	2,007	74.3	(72.7 - 75.9)
Hispanic	6,959	6,286	90.3	(89.6 - 91.0)	4,314	62.0	(60.8 - 63.1)
Missing	236	.	.	.	.	.	.
KINGS	1,971	1,763	89.4	(88.0 - 90.7)	1,118	56.7	(54.5 - 58.9)
African American	72	65	90.3	(81.3 - 95.2)	44	61.1	(49.6 - 71.5)
American Indian	10	.	.	.	.	.	.
Asian	33	30	90.9	(76.4 - 96.9)	24	72.7	(55.8 - 84.9)
Multiple Race	78	67	85.9	(76.5 - 91.9)	44	56.4	(45.4 - 66.9)
Pacific Islander	2	.	.	.	.	.	.
Other	13	13	100.0	(77.2 - 100.0)	.	.	.
White	446	421	94.4	(91.9 - 96.2)	333	74.7	(70.4 - 78.5)
Hispanic	1,248	1,099	88.1	(86.1 - 89.7)	626	50.2	(47.4 - 52.9)
Missing	69	.	.	.	.	.	.
LAKE	591	548	92.7	(90.3 - 94.6)	388	65.7	(61.7 - 69.4)
African American	3	.	.	.	.	.	.
American Indian	15	11	73.3	(48.0 - 89.1)	.	.	.
Asian	6	.	.	.	.	.	.
Multiple Race	38	34	89.5	(75.9 - 95.8)	25	65.8	(49.9 - 78.8)
Pacific Islander	1	.	.	.	.	.	.
Other	4	.	.	.	.	.	.
White	301	284	94.4	(91.1 - 96.4)	225	74.8	(69.6 - 79.3)
Hispanic	206	189	91.7	(87.2 - 94.8)	112	54.4	(47.5 - 61.0)
Missing	17	.	.	.	.	.	.
LASSEN	217	204	94.0	(90.0 - 96.5)	168	77.4	(71.4 - 82.5)
African American	1	.	.	.	.	.	.
American Indian	2	.	.	.	.	.	.
Asian	1	.	.	.	.	.	.
Multiple Race	22	21	95.5	(78.2 - 99.2)	15	68.2	(47.3 - 83.6)
Pacific Islander	1	.	.	.	.	.	.
Other	2	.	.	.	.	.	.
White	144	134	93.1	(87.7 - 96.2)	111	77.1	(69.6 - 83.2)
Hispanic	39	38	97.4	(86.8 - 99.5)	31	79.5	(64.5 - 89.2)
Missing	5	.	.	.	.	.	.
LOS ANGELES	96,457	90,406	93.7	(93.6 - 93.9)	61,737	64.0	(63.7 - 64.3)
African American	6,394	5,457	85.3	(84.5 - 86.2)	3,659	57.2	(56.0 - 58.4)
American Indian	41	37	90.2	(77.5 - 96.1)	29	70.7	(55.5 - 82.4)
Asian	13,449	12,802	95.2	(94.8 - 95.5)	7,926	58.9	(58.1 - 59.8)
Multiple Race	2,892	2,732	94.5	(93.6 - 95.2)	2,196	75.9	(74.3 - 77.5)
Pacific Islander	132	116	87.9	(81.2 - 92.4)	80	60.6	(52.1 - 68.5)
Other	1,229	1,154	93.9	(92.4 - 95.1)	827	67.3	(64.6 - 69.9)
White	17,566	16,781	95.5	(95.2 - 95.8)	13,789	78.5	(77.9 - 79.1)
Hispanic	52,712	49,415	93.7	(93.5 - 93.9)	31,879	60.5	(60.1 - 60.9)
Missing	2,042	.	.	.	.	.	.
MADERA	1,767	1,582	89.5	(88.0 - 90.9)	1,168	66.1	(63.9 - 68.3)
African American	30	21	70.0	(52.1 - 83.3)	14	46.7	(30.2 - 63.9)
American Indian	5	.	.	.	.	.	.
Asian	25	22	88.0	(70.0 - 95.8)	18	72.0	(52.4 - 85.7)
Multiple Race	18	17	94.4	(74.2 - 99.0)	15	83.3	(60.8 - 94.2)
Pacific Islander	.	.	.	.	.	.	.
Other	13	10	76.9	(49.7 - 91.8)	.	.	.
White	349	323	92.6	(89.3 - 94.9)	279	79.9	(75.4 - 83.8)
Hispanic	1,269	1,135	89.4	(87.6 - 91.0)	798	62.9	(60.2 - 65.5)
Missing	58

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Geography and Race/Ethnicity	TOTAL	ANY BREASTFEEDING			EXCLUSIVE BREASTFEEDING		
		Number	Percent	95% CI	Number	Percent	95% CI
				Lower-Upper			Lower-Upper
MARIN	1,838	1,802	98.0	(97.3 - 98.6)	1,630	88.7	(87.2 - 90.1)
African American	32	29	90.6	(75.8 - 96.8)	22	68.8	(51.4 - 82.0)
American Indian	1	.	.	.	.	.	.
Asian	105	104	99.0	(94.8 - 99.8)	94	89.5	(82.2 - 94.0)
Multiple Race	77	75	97.4	(91.0 - 99.3)	73	94.8	(87.4 - 98.0)
Pacific Islander	.	.	.	.	.	.	.
Other	22	22	100.0	(85.1 - 100.0)	17	77.3	(56.6 - 89.9)
White	964	947	98.2	(97.2 - 98.9)	863	89.5	(87.4 - 91.3)
Hispanic	565	554	98.1	(96.5 - 98.9)	494	87.4	(84.4 - 89.9)
Missing	72	.	.	.	.	.	.
MARIPOSA	142	135	95.1	(90.2 - 97.6)	107	75.4	(67.7 - 81.7)
African American	.	.	.	.	.	.	.
American Indian	1	.	.	.	.	.	.
Asian	2	.	.	.	.	.	.
Multiple Race	6	.	.	.	.	.	.
Pacific Islander	.	.	.	.	.	.	.
Other	.	.	.	.	.	.	.
White	102	97	95.1	(89.0 - 97.9)	79	77.5	(68.4 - 84.5)
Hispanic	27	26	96.3	(81.7 - 99.3)	20	74.1	(55.3 - 86.8)
Missing	4	.	.	.	.	.	.
MENDOCINO	765	739	96.6	(95.1 - 97.7)	547	71.5	(68.2 - 74.6)
African American	2	.	.	.	.	.	.
American Indian	23	20	87.0	(67.9 - 95.5)	17	73.9	(53.5 - 87.5)
Asian	6	.	.	.	.	.	.
Multiple Race	39	37	94.9	(83.1 - 98.6)	29	74.4	(58.9 - 85.4)
Pacific Islander	.	.	.	.	.	.	.
Other	10	10	100.0	(72.2 - 100.0)	.	.	.
White	360	347	96.4	(93.9 - 97.9)	284	78.9	(74.4 - 82.8)
Hispanic	312	304	97.4	(95.0 - 98.7)	191	61.2	(55.7 - 66.5)
Missing	13	.	.	.	.	.	.
MERCED	3,345	3,097	92.6	(91.6 - 93.4)	2,021	60.4	(58.8 - 62.1)
African American	74	66	89.2	(80.1 - 94.4)	46	62.2	(50.8 - 72.4)
American Indian	2	.	.	.	.	.	.
Asian	128	110	85.9	(78.9 - 90.9)	60	46.9	(38.4 - 55.5)
Multiple Race	74	62	83.8	(73.8 - 90.5)	41	55.4	(44.1 - 66.2)
Pacific Islander	3	.	.	.	.	.	.
Other	63	52	82.5	(71.4 - 90.0)	22	34.9	(24.3 - 47.2)
White	592	542	91.6	(89.0 - 93.5)	418	70.6	(66.8 - 74.1)
Hispanic	2,291	2,149	93.8	(92.7 - 94.7)	1,351	59.0	(56.9 - 61.0)
Missing	118	.	.	.	.	.	.
MODOC	31	29	93.5	(79.3 - 98.2)	14	45.2	(29.2 - 62.2)
African American	.	.	.	.	.	.	.
American Indian	3	.	.	.	.	.	.
Asian	.	.	.	.	.	.	.
Multiple Race	3	.	.	.	.	.	.
Pacific Islander	.	.	.	.	.	.	.
Other	1	.	.	.	.	.	.
White	17	16	94.1	(73.0 - 99.0)	.	.	.
Hispanic	6	.	.	.	.	.	.
Missing	1	.	.	.	.	.	.
MONO	97	96	99.0	(94.4 - 99.8)	72	74.2	(64.7 - 81.9)
African American	.	.	.	.	.	.	.
American Indian	.	.	.	.	.	.	.
Asian	1	.	.	.	.	.	.
Multiple Race	2	.	.	.	.	.	.
Pacific Islander	.	.	.	.	.	.	.
Other	1	.	.	.	.	.	.
White	44	44	100.0	(92.0 - 100.0)	39	88.6	(76.0 - 95.0)
Hispanic	41	40	97.6	(87.4 - 99.6)	24	58.5	(43.4 - 72.2)
Missing	8	.	.	.	.	.	.
MONTEREY	4,948	4,748	96.0	(95.4 - 96.5)	3,491	70.6	(69.3 - 71.8)
African American	48	46	95.8	(86.0 - 98.8)	34	70.8	(56.8 - 81.8)
American Indian	5	.	.	.	.	.	.
Asian	118	116	98.3	(94.0 - 99.5)	76	64.4	(55.4 - 72.5)
Multiple Race	103	99	96.1	(90.4 - 98.5)	87	84.5	(76.2 - 90.2)
Pacific Islander	3	.	.	.	.	.	.
Other	38	36	94.7	(82.7 - 98.5)	29	76.3	(60.8 - 87.0)
White	771	747	96.9	(95.4 - 97.9)	676	87.7	(85.2 - 89.8)
Hispanic	3,701	3,540	95.6	(94.9 - 96.3)	2,457	66.4	(64.8 - 67.9)
Missing	161

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				Lower-Upper			Lower-Upper
NAPA	1,046	1,028	98.3	(97.3 - 98.9)	914	87.4	(85.2 - 89.3)
African American	7	
American Indian	1	.	.		.	.
Asian	58	56	96.6	(88.3 - 99.0)	49	84.5	(73.1 - 91.6)
Multiple Race	37	36	97.3	(86.2 - 99.5)	31	83.8	(68.9 - 92.3)
Pacific Islander	1	.	.		.	.
Other	5	.	.		.	.
White	399	389	97.5	(95.4 - 98.6)	361	90.5	(87.2 - 93.0)
Hispanic	504	499	99.0	(97.7 - 99.6)	435	86.3	(83.0 - 89.0)
Missing	34	.	.		.	.
NEVADA	618	606	98.1	(96.6 - 98.9)	565	91.4	(89.0 - 93.4)
African American	3	.	.		.	.
American Indian	2	.	.		.	.
Asian	5	.	.		.	.
Multiple Race	43	43	100.0	(91.8 - 100.0)	41	95.3	(84.5 - 98.7)
Pacific Islander	.	.	.		.	.
Other	1	.	.		.	.
White	461	451	97.8	(96.1 - 98.8)	426	92.4	(89.6 - 94.5)
Hispanic	84	83	98.8	(93.6 - 99.8)	72	85.7	(76.7 - 91.6)
Missing	19	.	.		.	.
ORANGE	32,269	30,445	94.3	(94.1 - 94.6)	21,609	67.0	(66.5 - 67.5)
African American	314	297	94.6	(91.5 - 96.6)	222	70.7	(65.4 - 75.5)
American Indian	10	.	.		.	.
Asian	8,553	7,926	92.7	(92.1 - 93.2)	4,520	52.8	(51.8 - 53.9)
Multiple Race	1,128	1,079	95.7	(94.3 - 96.7)	900	79.8	(77.3 - 82.0)
Pacific Islander	37	34	91.9	(78.7 - 97.2)	29	78.4	(62.8 - 88.6)
Other	320	306	95.6	(92.8 - 97.4)	225	70.3	(65.1 - 75.1)
White	8,519	8,195	96.2	(95.8 - 96.6)	7,071	83.0	(82.2 - 83.8)
Hispanic	12,726	11,966	94.0	(93.6 - 94.4)	8,151	64.0	(63.2 - 64.9)
Missing	662	.	.		.	.
PLACER	3,219	3,096	96.2	(95.5 - 96.8)	2,514	78.1	(76.6 - 79.5)
African American	35	31	88.6	(74.0 - 95.5)	24	68.6	(52.0 - 81.4)
American Indian	7	.	.		.	.
Asian	226	221	97.8	(94.9 - 99.1)	166	73.5	(67.3 - 78.8)
Multiple Race	229	222	96.9	(93.8 - 98.5)	188	82.1	(76.6 - 86.5)
Pacific Islander	2	.	.		.	.
Other	39	35	89.7	(76.4 - 95.9)	27	69.2	(53.6 - 81.4)
White	2,015	1,942	96.4	(95.5 - 97.1)	1,621	80.4	(78.7 - 82.1)
Hispanic	591	562	95.1	(93.0 - 96.6)	423	71.6	(67.8 - 75.1)
Missing	75	.	.		.	.
PLUMAS	119	116	97.5	(92.8 - 99.1)	96	80.7	(72.7 - 86.8)
African American	.	.	.		.	.
American Indian	1	.	.		.	.
Asian	1	.	.		.	.
Multiple Race	3	.	.		.	.
Pacific Islander	.	.	.		.	.
Other	3	.	.		.	.
White	82	80	97.6	(91.5 - 99.3)	66	80.5	(70.6 - 87.6)
Hispanic	24	24	100.0	(86.2 - 100.0)	19	79.2	(59.5 - 90.8)
Missing	5	.	.		.	.
RIVERSIDE	24,591	22,745	92.5	(92.2 - 92.8)	16,762	68.2	(67.6 - 68.7)
African American	1,227	1,069	87.1	(85.1 - 88.9)	786	64.1	(61.3 - 66.7)
American Indian	45	37	82.2	(68.7 - 90.7)	31	68.9	(54.3 - 80.5)
Asian	1,509	1,403	93.0	(91.6 - 94.2)	808	53.5	(51.0 - 56.0)
Multiple Race	806	738	91.6	(89.4 - 93.3)	606	75.2	(72.1 - 78.0)
Pacific Islander	25	21	84.0	(65.3 - 93.6)	18	72.0	(52.4 - 85.7)
Other	172	157	91.3	(86.1 - 94.6)	115	66.9	(59.5 - 73.5)
White	5,501	5,072	92.2	(91.5 - 92.9)	4,255	77.3	(76.2 - 78.4)
Hispanic	14,716	13,705	93.1	(92.7 - 93.5)	9,757	66.3	(65.5 - 67.1)
Missing	590	.	.		.	.
SACRAMENTO	16,562	15,377	92.8	(92.4 - 93.2)	12,039	72.7	(72.0 - 73.4)
African American	1,546	1,385	89.6	(88.0 - 91.0)	998	64.6	(62.1 - 66.9)
American Indian	27	25	92.6	(76.6 - 97.9)	21	77.8	(59.2 - 89.4)
Asian	2,013	1,836	91.2	(89.9 - 92.4)	1,323	65.7	(63.6 - 67.8)
Multiple Race	1,445	1,326	91.8	(90.2 - 93.1)	1,022	70.7	(68.3 - 73.0)
Pacific Islander	36	30	83.3	(68.1 - 92.1)	24	66.7	(50.3 - 79.8)
Other	949	768	80.9	(78.3 - 83.3)	527	55.5	(52.4 - 58.7)
White	5,476	5,262	96.1	(95.5 - 96.6)	4,461	81.5	(80.4 - 82.5)
Hispanic	4,582	4,304	93.9	(93.2 - 94.6)	3,328	72.6	(71.3 - 73.9)
Missing	488	

California Department of Public Health
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Data not shown for missing race/ethnicity



California In-Hospital Breastfeeding as Indicated on the Newborn Screening Test Form
Statewide and Maternal County of Residence by Race/Ethnicity: 2018

Geography and Race/Ethnicity	TOTAL	ANY BREASTFEEDING			EXCLUSIVE BREASTFEEDING		
		Number	Percent	95% CI	Number	Percent	95% CI
				Lower-Upper			Lower-Upper
SAN BENITO	673	635	94.4	(92.3 - 95.9)	460	68.4	(64.7 - 71.8)
African American	.	.	.	.	.	.	.
American Indian	.	.	.	.	.	.	.
Asian	9	.	.	.	.	.	.
Multiple Race	9	.	.	.	.	.	.
Pacific Islander	.	.	.	.	.	.	.
Other	4	.	.	.	.	.	.
White	156	151	96.8	(92.7 - 98.6)	134	85.9	(79.6 - 90.5)
Hispanic	462	437	94.6	(92.1 - 96.3)	294	63.6	(59.2 - 67.9)
Missing	33	.	.	.	.	.	.
SAN BERNARDINO	24,906	22,487	90.3	(89.9 - 90.6)	15,989	64.2	(63.6 - 64.8)
African American	1,880	1,523	81.0	(79.2 - 82.7)	996	53.0	(50.7 - 55.2)
American Indian	27	26	96.3	(81.7 - 99.3)	22	81.5	(63.3 - 91.8)
Asian	2,148	1,987	92.5	(91.3 - 93.5)	1,069	49.8	(47.7 - 51.9)
Multiple Race	742	673	90.7	(88.4 - 92.6)	513	69.1	(65.7 - 72.4)
Pacific Islander	37	32	86.5	(72.0 - 94.1)	24	64.9	(48.8 - 78.2)
Other	156	145	92.9	(87.8 - 96.0)	102	65.4	(57.6 - 72.4)
White	4,504	4,100	91.0	(90.2 - 91.8)	3,323	73.8	(72.5 - 75.0)
Hispanic	14,961	13,584	90.8	(90.3 - 91.2)	9,640	64.4	(63.7 - 65.2)
Missing	451	.	.	.	.	.	.
SAN DIEGO	33,824	32,454	95.9	(95.7 - 96.2)	26,832	79.3	(78.9 - 79.8)
African American	1,271	1,164	91.6	(89.9 - 93.0)	854	67.2	(64.6 - 69.7)
American Indian	66	61	92.4	(83.5 - 96.7)	52	78.8	(67.5 - 86.9)
Asian	3,200	3,058	95.6	(94.8 - 96.2)	2,423	75.7	(74.2 - 77.2)
Multiple Race	1,597	1,516	94.9	(93.7 - 95.9)	1,270	79.5	(77.5 - 81.4)
Pacific Islander	74	69	93.2	(85.1 - 97.1)	49	66.2	(54.9 - 76.0)
Other	556	525	94.4	(92.2 - 96.0)	424	76.3	(72.5 - 79.6)
White	11,523	11,168	96.9	(96.6 - 97.2)	9,890	85.8	(85.2 - 86.5)
Hispanic	14,562	13,956	95.8	(95.5 - 96.2)	11,156	76.6	(75.9 - 77.3)
Missing	975	.	.	.	.	.	.
SAN FRANCISCO	7,416	7,207	97.2	(96.8 - 97.5)	6,151	82.9	(82.1 - 83.8)
African American	262	238	90.8	(86.7 - 93.8)	187	71.4	(65.6 - 76.5)
American Indian	2	.	.	.	.	.	.
Asian	2,152	2,073	96.3	(95.4 - 97.0)	1,540	71.6	(69.6 - 73.4)
Multiple Race	384	368	95.8	(93.3 - 97.4)	328	85.4	(81.5 - 88.6)
Pacific Islander	26	23	88.5	(71.0 - 96.0)	17	65.4	(46.2 - 80.6)
Other	123	122	99.2	(95.5 - 99.9)	109	88.6	(81.8 - 93.1)
White	2,934	2,883	98.3	(97.7 - 98.7)	2,654	90.5	(89.3 - 91.5)
Hispanic	1,227	1,198	97.6	(96.6 - 98.3)	1,057	86.1	(84.1 - 88.0)
Missing	306	.	.	.	.	.	.
SAN JOAQUIN	8,336	7,519	90.2	(89.5 - 90.8)	5,602	67.2	(66.2 - 68.2)
African American	557	414	74.3	(70.5 - 77.8)	257	46.1	(42.0 - 50.3)
American Indian	15	14	93.3	(70.2 - 98.8)	.	.	.
Asian	939	832	88.6	(86.4 - 90.5)	554	59.0	(55.8 - 62.1)
Multiple Race	422	369	87.4	(83.9 - 90.3)	275	65.2	(60.5 - 69.6)
Pacific Islander	14	.	.	.	.	.	.
Other	219	171	78.1	(72.1 - 83.1)	110	50.2	(43.7 - 56.8)
White	1,847	1,694	91.7	(90.4 - 92.9)	1,382	74.8	(72.8 - 76.8)
Hispanic	4,082	3,796	93.0	(92.2 - 93.7)	2,850	69.8	(68.4 - 71.2)
Missing	241	.	.	.	.	.	.
SAN LUIS OBISPO	2,080	2,030	97.6	(96.8 - 98.2)	1,770	85.1	(83.5 - 86.6)
African American	7	.	.	.	.	.	.
American Indian	1	.	.	.	.	.	.
Asian	45	44	97.8	(88.4 - 99.6)	38	84.4	(71.2 - 92.3)
Multiple Race	77	76	98.7	(93.0 - 99.8)	68	88.3	(79.3 - 93.7)
Pacific Islander	1	.	.	.	.	.	.
Other	8	.	.	.	.	.	.
White	1,172	1,144	97.6	(96.6 - 98.3)	1,050	89.6	(87.7 - 91.2)
Hispanic	710	691	97.3	(95.9 - 98.3)	550	77.5	(74.2 - 80.4)
Missing	59	.	.	.	.	.	.
SAN MATEO	7,278	7,110	97.7	(97.3 - 98.0)	5,884	80.8	(79.9 - 81.7)
African American	102	97	95.1	(89.0 - 97.9)	75	73.5	(64.2 - 81.1)
American Indian	5	.	.	.	.	.	.
Asian	2,003	1,971	98.4	(97.8 - 98.9)	1,612	80.5	(78.7 - 82.2)
Multiple Race	396	380	96.0	(93.5 - 97.5)	318	80.3	(76.1 - 83.9)
Pacific Islander	23	22	95.7	(79.0 - 99.2)	14	60.9	(40.8 - 77.8)
Other	179	168	93.9	(89.3 - 96.5)	123	68.7	(61.6 - 75.1)
White	2,129	2,089	98.1	(97.5 - 98.6)	1,874	88.0	(86.6 - 89.3)
Hispanic	2,153	2,097	97.4	(96.6 - 98.0)	1,618	75.2	(73.3 - 76.9)
Missing	288

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Geography and Race/Ethnicity	TOTAL	ANY BREASTFEEDING			EXCLUSIVE BREASTFEEDING		
		Number	Percent	95% CI	Number	Percent	95% CI
				Lower-Upper			Lower-Upper
SANTA BARBARA	4,697	4,536	96.6	(96.0 - 97.1)	3,120	66.4	(65.1 - 67.8)
African American	48	43	89.6	(77.8 - 95.5)	28	58.3	(44.3 - 71.2)
American Indian	5	.	.	.	.	.	.
Asian	102	98	96.1	(90.3 - 98.5)	72	70.6	(61.1 - 78.6)
Multiple Race	147	142	96.6	(92.3 - 98.5)	119	81.0	(73.8 - 86.5)
Pacific Islander	4	.	.	.	.	.	.
Other	20	20	100.0	(83.9 - 100.0)	15	75.0	(53.1 - 88.8)
White	1,209	1,183	97.8	(96.9 - 98.5)	1,001	82.8	(80.6 - 84.8)
Hispanic	3,078	2,962	96.2	(95.5 - 96.8)	1,823	59.2	(57.5 - 61.0)
Missing	84	.	.	.	.	.	.
SANTA CLARA	18,957	18,405	97.1	(96.8 - 97.3)	15,338	80.9	(80.3 - 81.5)
African American	291	275	94.5	(91.3 - 96.6)	228	78.4	(73.3 - 82.7)
American Indian	10	10	100.0	(72.2 - 100.0)	.	.	.
Asian	7,493	7,339	97.9	(97.6 - 98.2)	5,918	79.0	(78.0 - 79.9)
Multiple Race	804	775	96.4	(94.9 - 97.5)	672	83.6	(80.9 - 86.0)
Pacific Islander	30	28	93.3	(78.7 - 98.2)	25	83.3	(66.4 - 92.7)
Other	251	247	98.4	(96.0 - 99.4)	214	85.3	(80.3 - 89.1)
White	3,839	3,754	97.8	(97.3 - 98.2)	3,392	88.4	(87.3 - 89.3)
Hispanic	5,457	5,223	95.7	(95.1 - 96.2)	4,259	78.0	(76.9 - 79.1)
Missing	782	.	.	.	.	.	.
SANTA CRUZ	2,191	2,150	98.1	(97.5 - 98.6)	1,920	87.6	(86.2 - 88.9)
African American	6	.	.	.	.	.	.
American Indian	2	.	.	.	.	.	.
Asian	84	84	100.0	(95.6 - 100.0)	75	89.3	(80.9 - 94.3)
Multiple Race	67	66	98.5	(92.0 - 99.7)	63	94.0	(85.6 - 97.7)
Pacific Islander	1	.	.	.	.	.	.
Other	12	12	100.0	(75.8 - 100.0)	12	100.0	(75.8 - 100.0)
White	751	739	98.4	(97.2 - 99.1)	689	91.7	(89.6 - 93.5)
Hispanic	1,186	1,159	97.7	(96.7 - 98.4)	999	84.2	(82.0 - 86.2)
Missing	82	.	.	.	.	.	.
SHASTA	1,676	1,653	98.6	(97.9 - 99.1)	618	36.9	(34.6 - 39.2)
African American	15	14	93.3	(70.2 - 98.8)	.	.	.
American Indian	15	13	86.7	(62.1 - 96.3)	.	.	.
Asian	18	17	94.4	(74.2 - 99.0)	.	.	.
Multiple Race	97	96	99.0	(94.4 - 99.8)	41	42.3	(32.9 - 52.2)
Pacific Islander	3	.	.	.	.	.	.
Other	102	100	98.0	(93.1 - 99.5)	18	17.6	(11.5 - 26.2)
White	1,205	1,195	99.2	(98.5 - 99.5)	445	36.9	(34.3 - 39.7)
Hispanic	148	142	95.9	(91.4 - 98.1)	60	40.5	(33.0 - 48.6)
Missing	73	.	.	.	.	.	.
SIERRA	15	14	93.3	(70.2 - 98.8)	12	80.0	(54.8 - 93.0)
African American	.	.	.	.	.	.	.
American Indian	.	.	.	.	.	.	.
Asian	.	.	.	.	.	.	.
Multiple Race	1	.	.	.	.	.	.
Pacific Islander	.	.	.	.	.	.	.
Other	.	.	.	.	.	.	.
White	10	.	.	.	.	.	.
Hispanic	4	.	.	.	.	.	.
Missing	.	.	.	.	.	.	.
SISKIYOU	308	288	93.5	(90.2 - 95.8)	234	76.0	(70.9 - 80.4)
African American	3	.	.	.	.	.	.
American Indian	12	11	91.7	(64.6 - 98.5)	.	.	.
Asian	6	.	.	.	.	.	.
Multiple Race	37	35	94.6	(82.3 - 98.5)	28	75.7	(59.9 - 86.6)
Pacific Islander	.	.	.	.	.	.	.
Other	4	.	.	.	.	.	.
White	184	174	94.6	(90.3 - 97.0)	148	80.4	(74.1 - 85.5)
Hispanic	55	52	94.5	(85.1 - 98.1)	42	76.4	(63.7 - 85.6)
Missing	7	.	.	.	.	.	.
SOLANO	4,065	3,869	95.2	(94.5 - 95.8)	3,292	81.0	(79.7 - 82.2)
African American	459	427	93.0	(90.3 - 95.0)	341	74.3	(70.1 - 78.1)
American Indian	8	.	.	.	.	.	.
Asian	471	458	97.2	(95.3 - 98.4)	395	83.9	(80.3 - 86.9)
Multiple Race	311	294	94.5	(91.4 - 96.6)	254	81.7	(77.0 - 85.6)
Pacific Islander	9	.	.	.	.	.	.
Other	54	48	88.9	(77.8 - 94.8)	36	66.7	(53.4 - 77.8)
White	1,115	1,054	94.5	(93.0 - 95.7)	938	84.1	(81.9 - 86.2)
Hispanic	1,515	1,456	96.1	(95.0 - 97.0)	1,214	80.1	(78.0 - 82.1)
Missing	123

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Geography and Race/Ethnicity	TOTAL	ANY BREASTFEEDING			EXCLUSIVE BREASTFEEDING		
		Number	Percent	95% CI	Number	Percent	95% CI
				Lower-Upper			Lower-Upper
SONOMA	3,942	3,816	96.8	(96.2 - 97.3)	3,248	82.4	(81.2 - 83.6)
African American	44	43	97.7	(88.2 - 99.6)	35	79.5	(65.5 - 88.8)
American Indian	21	21	100.0	(84.5 - 100.0)	18	85.7	(65.4 - 95.0)
Asian	152	148	97.4	(93.4 - 99.0)	121	79.6	(72.5 - 85.2)
Multiple Race	178	170	95.5	(91.4 - 97.7)	143	80.3	(73.9 - 85.5)
Pacific Islander	3	.	.	.	.	.	.
Other	21	21	100.0	(84.5 - 100.0)	18	85.7	(65.4 - 95.0)
White	1,814	1,767	97.4	(96.6 - 98.0)	1,597	88.0	(86.5 - 89.5)
Hispanic	1,555	1,491	95.9	(94.8 - 96.8)	1,183	76.1	(73.9 - 78.1)
Missing	154	.	.	.	.	.	.
STANISLAUS	6,528	5,791	88.7	(87.9 - 89.5)	4,242	65.0	(63.8 - 66.1)
African American	153	122	79.7	(72.7 - 85.3)	87	56.9	(48.9 - 64.4)
American Indian	8	.	.	.	.	.	.
Asian	273	246	90.1	(86.0 - 93.1)	168	61.5	(55.6 - 67.1)
Multiple Race	231	210	90.9	(86.5 - 94.0)	161	69.7	(63.5 - 75.3)
Pacific Islander	7	.	.	.	.	.	.
Other	110	99	90.0	(83.0 - 94.3)	69	62.7	(53.4 - 71.2)
White	1,927	1,723	89.4	(88.0 - 90.7)	1,360	70.6	(68.5 - 72.6)
Hispanic	3,690	3,271	88.6	(87.6 - 89.6)	2,301	62.4	(60.8 - 63.9)
Missing	129	.	.	.	.	.	.
SUTTER	1,085	1,051	96.9	(95.7 - 97.7)	747	68.8	(66.0 - 71.5)
African American	18	17	94.4	(74.2 - 99.0)	13	72.2	(49.1 - 87.5)
American Indian	1	.	.	.	.	.	.
Asian	161	159	98.8	(95.6 - 99.7)	90	55.9	(48.2 - 63.3)
Multiple Race	50	50	100.0	(92.9 - 100.0)	36	72.0	(58.3 - 82.5)
Pacific Islander	1	.	.	.	.	.	.
Other	22	21	95.5	(78.2 - 99.2)	10	45.5	(26.9 - 65.3)
White	383	368	96.1	(93.6 - 97.6)	311	81.2	(77.0 - 84.8)
Hispanic	420	407	96.9	(94.8 - 98.2)	262	62.4	(57.7 - 66.9)
Missing	29	.	.	.	.	.	.
TEHAMA	603	569	94.4	(92.2 - 95.9)	435	72.1	(68.4 - 75.6)
African American	.	.	.	.	.	.	.
American Indian	2	.	.	.	.	.	.
Asian	4	.	.	.	.	.	.
Multiple Race	23	22	95.7	(79.0 - 99.2)	16	69.6	(49.1 - 84.4)
Pacific Islander	.	.	.	.	.	.	.
Other	2	.	.	.	.	.	.
White	287	271	94.4	(91.1 - 96.5)	225	78.4	(73.3 - 82.8)
Hispanic	265	249	94.0	(90.4 - 96.2)	174	65.7	(59.8 - 71.1)
Missing	20	.	.	.	.	.	.
TRINITY	89	85	95.5	(89.0 - 98.2)	46	51.7	(41.5 - 61.8)
African American	.	.	.	.	.	.	.
American Indian	5	.	.	.	.	.	.
Asian	1	.	.	.	.	.	.
Multiple Race	11	11	100.0	(74.1 - 100.0)	.	.	.
Pacific Islander	.	.	.	.	.	.	.
Other	4	.	.	.	.	.	.
White	63	60	95.2	(86.9 - 98.4)	34	54.0	(41.8 - 65.7)
Hispanic	3	.	.	.	.	.	.
Missing	2	.	.	.	.	.	.
TULARE	5,888	5,283	89.7	(88.9 - 90.5)	3,151	53.5	(52.2 - 54.8)
African American	40	36	90.0	(76.9 - 96.0)	23	57.5	(42.2 - 71.5)
American Indian	21	19	90.5	(71.1 - 97.3)	14	66.7	(45.4 - 82.8)
Asian	104	86	82.7	(74.3 - 88.8)	40	38.5	(29.7 - 48.1)
Multiple Race	106	93	87.7	(80.1 - 92.7)	61	57.5	(48.0 - 66.5)
Pacific Islander	.	.	.	.	.	.	.
Other	47	36	76.6	(62.8 - 86.4)	25	53.2	(39.2 - 66.7)
White	1,027	941	91.6	(89.8 - 93.2)	702	68.4	(65.4 - 71.1)
Hispanic	4,383	3,930	89.7	(88.7 - 90.5)	2,208	50.4	(48.9 - 51.9)
Missing	160	.	.	.	.	.	.
TUOLUMNE	385	372	96.6	(94.3 - 98.0)	277	71.9	(67.3 - 76.2)
African American	1	.	.	.	.	.	.
American Indian	2	.	.	.	.	.	.
Asian	6	.	.	.	.	.	.
Multiple Race	15	15	100.0	(79.6 - 100.0)	12	80.0	(54.8 - 93.0)
Pacific Islander	.	.	.	.	.	.	.
Other	2	.	.	.	.	.	.
White	287	279	97.2	(94.6 - 98.6)	208	72.5	(67.0 - 77.3)
Hispanic	42	41	97.6	(87.7 - 99.6)	30	71.4	(56.4 - 82.8)
Missing	30

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Geography and Race/Ethnicity	TOTAL	ANY BREASTFEEDING			EXCLUSIVE BREASTFEEDING		
		Number	Percent	95% CI	Number	Percent	95% CI
				Lower-Upper			Lower-Upper
VENTURA	7,999	7,695	96.2	(95.8 - 96.6)	6,296	78.7	(77.8 - 79.6)
African American	85	80	94.1	(87.0 - 97.5)	63	74.1	(63.9 - 82.2)
American Indian	6	.	.	.	.	.	.
Asian	426	414	97.2	(95.1 - 98.4)	317	74.4	(70.1 - 78.3)
Multiple Race	294	280	95.2	(92.2 - 97.1)	242	82.3	(77.5 - 86.2)
Pacific Islander	3	.	.	.	.	.	.
Other	49	48	98.0	(89.3 - 99.6)	38	77.6	(64.1 - 87.0)
White	2,487	2,411	96.9	(96.2 - 97.6)	2,133	85.8	(84.3 - 87.1)
Hispanic	4,462	4,269	95.7	(95.0 - 96.2)	3,344	74.9	(73.7 - 76.2)
Missing	187	.	.	.	.	.	.
YOLO	1,903	1,834	96.4	(95.4 - 97.1)	1,618	85.0	(83.3 - 86.6)
African American	44	41	93.2	(81.8 - 97.7)	35	79.5	(65.5 - 88.8)
American Indian	6	.	.	.	.	.	.
Asian	186	183	98.4	(95.4 - 99.4)	156	83.9	(77.9 - 88.5)
Multiple Race	81	78	96.3	(89.7 - 98.7)	68	84.0	(74.5 - 90.4)
Pacific Islander	1	.	.	.	.	.	.
Other	37	35	94.6	(82.3 - 98.5)	32	86.5	(72.0 - 94.1)
White	702	683	97.3	(95.8 - 98.3)	615	87.6	(85.0 - 89.8)
Hispanic	795	758	95.3	(93.7 - 96.6)	661	83.1	(80.4 - 85.6)
Missing	51	.	.	.	.	.	.
YUBA	951	873	91.8	(89.9 - 93.4)	675	71.0	(68.0 - 73.8)
African American	22	18	81.8	(61.5 - 92.7)	14	63.6	(43.0 - 80.3)
American Indian	7	.	.	.	.	.	.
Asian	36	29	80.6	(65.0 - 90.2)	21	58.3	(42.2 - 72.9)
Multiple Race	59	49	83.1	(71.5 - 90.5)	36	61.0	(48.3 - 72.4)
Pacific Islander	3	.	.	.	.	.	.
Other	25	18	72.0	(52.4 - 85.7)	10	40.0	(23.4 - 59.3)
White	457	426	93.2	(90.5 - 95.2)	348	76.1	(72.0 - 79.8)
Hispanic	323	307	95.0	(92.1 - 96.9)	226	70.0	(64.8 - 74.7)
Missing	19	.	.	.	.	.	.



California In-Hospital Breastfeeding as Indicated on the Newborn Screening Test Form Statewide and Maternal County of Residence by Race/Ethnicity: 2018

Data Source: California Department of Public Health, Center for Family Health, Genetic Disease Screening Program, Newborn Screening Data, 2018

Prepared by: California Department of Public Health, Center for Family Health, Maternal, Child and Adolescent Health Program

All nonmilitary hospitals providing maternity services are required to complete the Newborn Screening Test Form.

Note 1: Infant feeding data presented in this report include all feedings since birth to time of specimen collection, usually 24 to 48 hours since birth.

Upon completing the form, staff must select from the following three categories to describe 'all feeding since birth':

(1) Only Human Milk; (2) Only Formula; (3) Human Milk & Formula; (4) NPO.

The numerator for "Exclusive Breastfeeding" includes records marked 'Only Human Milk'.

The numerator for "Any Breastfeeding" includes records marked 'Only Human Milk' or 'Human Milk & Formula'.

The denominator excludes cases with unknown method of feeding, cases marked NPO indicating "nothing by mouth" and those receiving TPN at time of specimen collection.

Note 2: Excludes data for infants that were in an Neonatal Intensive Care Unit (NICU) nursery at the time of specimen collection.

Note 3: Infant race/ethnicity is based upon mother and father race/ethnicity as reported on the birth certificate and recorded on the Newborn Screening Test Form.

Data for individual race groups exclude persons of Hispanic ethnicity.

Data for cases with unknown race/ethnicity are not shown, but are included in the totals.

Note 4: 95% confidence intervals are shown in parentheses. Confidence intervals were computed using the Wilson Score formula.

Newcombe, R.G. (1998). Two-sided confidence intervals for the single proportion: comparison of seven methods. *Statistics in Medicine*, 17: 857-872.