

Population and Community Need Data

Please utilize the resources below to help describe community need for Adolescent Family Life Program (AFLP) services and identify potential AFLP program service areas. Information on AFLP county eligibility is provided on page 1 and in Table 1. Information to support development of program reach is provided throughout the document. Methods to calculate estimates are provided in **Technical Notes** on pages 21 – 24.

- [CDPH Adolescent Births in California 2000-2018](#) includes statewide and county data about births to females ages 15 – 19.
- [CDPH Adolescent Sexual Health County Profiles 2016](#) provide population, youth behavioral, and adolescent birth data at the county level.
- [CDPH Adolescent Birth Data Dashboards](#) provide state- and county-level data for 2000-2019. Here you can see data at a glance, obtain more details for indicator subcategories, as well as download data for your own analyses.

Eligibility

To be eligible for this Request for Application (RFA), counties must have a minimum countywide 2018 California Adolescent Sexual Health Needs Index (CASHNI) score of 250 or above and have a county minimum of 200 or more projected Expectant and Parenting Birthing Persons (EPP) under age 22 in 2023. Applications where a single or lead entity proposes to serve two or more counties will be considered if at least one county CASHNI score is 250 or above and the combined EPP is 300 or greater. The counties proposed must be proximal to each other geographically and the applicant must demonstrate the ability to adequately provide services across county lines.

The combined eligibility requirements (CASHNI \geq 250 and EPP \geq 200) captures 94.4 percent of 2020 CA statewide adolescent births to individuals aged 15 – 19 and 94.2 percent of 2020 CA statewide adolescent births to individuals aged 15 – 21. See Table 1 for a list of eligible counties.

CASHNI scores are based on a formula that includes each county's annual number of live births to youth under age 19 and additional community characteristics (e.g., percentage of youth living in concentrated areas of poverty, rural community status). For more information about the CASHNI, see the [CA Adolescent Sexual Health Needs Index](#). Methods for projecting EPP under 22 in 2023 are provided in **Technical Notes** on pages 21 – 24.

Program Reach

Each applicant must identify a program service area and develop a reasonable and well-justified expected program reach in response to this RFA. California Department of Public Health (CDPH) Maternal, Child, and Adolescent Health (MCAH) has provided the required *Program Reach Worksheet*, [Attachment 9](#), the data in Tables 1 - 3, and the information outlined below to assist with this task.

Estimated Number of Eligible Female Youth

Table 1 and Table 3 provide projected estimates of the number of EPP under age 22 in calendar year 2023, by county and Medical Service Study Area (MSSA), respectively. In using these numbers, keep in mind the following:

1. Estimates reflect the number of expectant and parenting birthing persons across the entire calendar year. At any given point in time, the number of eligible persons will be less.
2. These estimates do not account for migration in and out of California, its counties, or sub-county geographies. This may result in higher or lower estimates depending on local migration patterns.
3. These estimates do not address whether the young parent retained custody of the child or if the child was placed elsewhere (e.g., foster care, adoption, non-mandated kin care). This will result in higher estimates than if these individuals were able to be identified and removed from the eligible population.

Average Decline in Estimated Population of Adolescent Mothers and Birthing Persons

Table 2 provides the average decline in the estimated population of parenting mothers and birthing persons under age 22 by county. In estimating their annual reach over the three-year period, agencies need to consider the probable decline in the eligible population over time. For example, if the projected population in the proposed service area was 500 in 2023 and there was an annual decline of around 15%, it is reasonable to estimate that there will be a total population of about 425 in 2024 (500×0.85) and about 361 (425×0.85) in 2025.

Scope of Cal-Learn Program

Table 2 provides data on the number of adolescent parents served by the Cal-Learn program in June 2022 by county for counties eligible for this RFA. In using these numbers, keep in mind the following:

- This data reflects a single month's caseloads. Each month, some portion of the youth will exit, some portion will enter, and some portion will continue. From available data

(representing approximately 60% of the statewide Cal-Learn caseload), CDPH/MCAH estimated that, on average across FY 15-16, monthly Cal-Learn totals represented approximately 48.4% of the annual Cal-Learn reach.

- Although youth cannot be enrolled concurrently in AFLP and Cal-Learn, youth who become ineligible for Cal-Learn may be eligible for AFLP. From available MIS data, CDPH/MCAH estimated that 6.6% of youth enrolled in Cal-Learn during FY 15-16 were also enrolled in AFLP during the same time period.
- Expectant and parenting male-identified youth can enroll in Cal-Learn. From available MIS data, CDPH/MCAH estimated that 8.4% of the annual FY 15-16 Cal-Learn case load was male.

Table 1: County AFLP RFA Eligibility Status¹

County	2018 CASHNI Score	Projected EPP, 2023	AFLP RFA Eligibility Status²
Alameda	873	1168	Eligible
Alpine	5	4	Ineligible
Amador	40	29	Ineligible
Butte	488	319	Eligible
Calaveras	56	42	Ineligible
Colusa	79	46	Ineligible
Contra Costa	770	929	Eligible
Del Norte	164	47	Ineligible
El Dorado	115	117	Ineligible
Fresno	5332	2187	Eligible
Glenn	119	49	Ineligible
Humboldt	206	153	Ineligible
Imperial	1896	480	Eligible
Inyo	37	26	Ineligible
Kern	5059	2361	Eligible
Kings	807	429	Eligible
Lake	387	137	Ineligible
Lassen	107	43	Ineligible
Los Angeles	14193	10944	Eligible
Madera	1766	395	Eligible
Marin	65	129	Ineligible
Mariposa	39	20	Ineligible
Mendocino	289	135	Ineligible

County	2018 CASHNI Score	Projected EPP, 2023	AFLP RFA Eligibility Status²
Merced	1876	686	Eligible
Modoc	8	11	Ineligible
Mono	11	21	Ineligible
Monterey	2270	955	Eligible
Napa	49	109	Ineligible
Nevada	42	59	Ineligible
Orange	2315	2630	Eligible
Placer	105	217	Ineligible
Plumas	42	27	Ineligible
Riverside	3549	3787	Eligible
Sacramento	1797	1871	Eligible
San Benito	155	79	Ineligible
San Bernardino	5765	4259	Eligible
San Diego	2501	3935	Eligible
San Francisco	174	344	Ineligible
San Joaquin	1506	1352	Eligible
San Luis Obispo	333	254	Eligible
San Mateo	268	456	Eligible
Santa Barbara	1370	850	Eligible
Santa Clara	853	1228	Eligible
Santa Cruz	273	273	Eligible
Shasta	391	287	Eligible
Sierra	3	6	Ineligible
Siskiyou	106	55	Ineligible
Solano	367	539	Eligible
Sonoma	189	383	Ineligible
Stanislaus	1472	1080	Eligible
Sutter	344	154	Ineligible
Tehama	401	134	Ineligible
Trinity	26	12	Ineligible
Tulare	4109	1346	Eligible
Tuolumne	39	54	Ineligible
Ventura	1064	971	Eligible
Yolo	156	256	Ineligible
Yuba	378	165	Ineligible

Table 2: Average Annual Percentage Decline in Number of First-time Mothers and Birthing Persons Under Age 22, 2017 – 2020 and Total Youth with Cal-Learn Status during month of June 2022, in AFLP RFA Eligible California Counties³

Average Annual Percentage		
County	Decline	Youth with Cal-Learn Status
Alameda	-3.1%	10
Butte	-10.5%	10
Contra Costa	-5.0%	17
Fresno	-4.3%	115
Imperial	-15.9%	12
Kern	-8.0%	62
Kings	-6.7%	22
Los Angeles	-11.7%	408
Madera	-8.8%	17
Merced	-5.9%	36
Monterey	-4.2%	10
Orange	-10.5%	38
Riverside	-6.8%	57
Sacramento	-5.9%	68
San Bernardino	-8.8%	94
San Diego	-6.4%	56
San Joaquin	-4.7%	41
San Luis Obispo	-11.4%	10
San Mateo	-7.6%	0
Santa Barbara	-0.3%	10
Santa Clara	-4.6%	18
Santa Cruz	-11.3%	10
Shasta	-10.9%	10
Solano	-4.7%	10
Stanislaus	-4.8%	19
Tulare	-7.3%	56
Ventura	-7.4%	18
Statewide	-8.8%	1296

Table 3: Projected Number of Expectant and Parenting Birthing Persons (EPP) Under Age 22 in 2023 by Medical Service Study Area (MSSA)

County	MSSA ID	Projected EPP, 2023
Alameda	1.1	26
Alameda	1.2	10
Alameda	2a	28
Alameda	2b	10
Alameda	2c	82
Alameda	2d	316
Alameda	2e	30
Alameda	2f	46
Alameda	2g	81
Alameda	2h	178
Alameda	2i	25
Alameda	2j	70
Alameda	2k	20
Alameda	2l	34
Alameda	2m	49
Alameda	2n	151
Alpine	3	4
Amador	4	24
Amador	5	5
Amador	6	2
Butte	7.1	132
Butte	7.2	6
Butte	7.3	95
Butte	7.4	5
Butte	8	1
Butte	9	3
Butte	10	42
Butte	11	29
Calaveras	12	42
Colusa	15	19
Colusa	16.1	15
Colusa	16.2	4
Colusa	16.3	9
Contra Costa	17	61
Contra Costa	18a	45
Contra Costa	18b	86

County	MSSA ID	Projected EPP, 2023
Contra Costa	18c	54
Contra Costa	18d	226
Contra Costa	18e	146
Contra Costa	18f	220
Contra Costa	18g	59
Contra Costa	18h	12
Contra Costa	18i	4
Contra Costa	18j	8
Del Norte	19	45
El Dorado	22	11
El Dorado	23.1	18
El Dorado	23.2	20
El Dorado	23.3	34
El Dorado	24	32
Fresno	25	90
Fresno	26	17
Fresno	27	40
Fresno	28	16
Fresno	29	82
Fresno	30	258
Fresno	31	134
Fresno	32	164
Fresno	35a	97
Fresno	35b	168
Fresno	35c	284
Fresno	35d	357
Fresno	35e	306
Fresno	35f	147
Glenn	36.1	31
Glenn	36.2	5
Glenn	37	13
Humboldt	38	2
Humboldt	39	79
Humboldt	40	24
Humboldt	42	43
Humboldt	44	6
Imperial	46	1
Imperial	47	26
Imperial	48	198

County	MSSA ID	Projected EPP, 2023
Imperial	49	157
Imperial	50	93
Inyo	53	20
Inyo	54	3
Inyo	55	4
Kern	57.1	4
Kern	57.2	78
Kern	58.1	63
Kern	58.2	113
Kern	59	13
Kern	60	202
Kern	61	173
Kern	62	35
Kern	63	24
Kern	64	65
Kern	65	119
Kern	66a	339
Kern	66b	612
Kern	66c	353
Kern	66d	128
Kings	67	44
Kings	68	67
Kings	69	309
Lake	70.1	36
Lake	70.2	17
Lake	71.1	63
Lake	71.2	12
Lake	71.3	7
Lassen	72	31
Lassen	73	2
Lassen	74	5
Lassen	75	3
Los Angeles	76.2	29
Los Angeles	77.2	93
Los Angeles	77.3	11
Los Angeles	77.4	224
Los Angeles	77.5	149
Los Angeles	78.1	326
Los Angeles	76.1a	47

County	MSSA ID	Projected EPP, 2023
Los Angeles	76.1b	32
Los Angeles	77.1a	5
Los Angeles	77.1b	23
Los Angeles	77.1c	2
Los Angeles	78.2a	19
Los Angeles	78.2aa	2
Los Angeles	78.2aaaa	82
Los Angeles	78.2b	224
Los Angeles	78.2bb	106
Los Angeles	78.2bbb	267
Los Angeles	78.2bbbb	101
Los Angeles	78.2c	223
Los Angeles	78.2cc	140
Los Angeles	78.2ccc	198
Los Angeles	78.2cccc	58
Los Angeles	78.2d	179
Los Angeles	78.2dd	33
Los Angeles	78.2ddd	153
Los Angeles	78.2dddd	38
Los Angeles	78.2e	136
Los Angeles	78.2ee	25
Los Angeles	78.2eee	71
Los Angeles	78.2eeee	46
Los Angeles	78.2f	6
Los Angeles	78.2ff	58
Los Angeles	78.2fff	438
Los Angeles	78.2ffff	116
Los Angeles	78.2g	94
Los Angeles	78.2gg	145
Los Angeles	78.2ggg	376
Los Angeles	78.2gggg	26
Los Angeles	78.2h	222
Los Angeles	78.2hh	26
Los Angeles	78.2hhh	88
Los Angeles	78.2hhhh	143
Los Angeles	78.2i	144
Los Angeles	78.2ii	48
Los Angeles	78.2iii	179
Los Angeles	78.2iiii	67

County	MSSA ID	Projected EPP, 2023
Los Angeles	78.2j	20
Los Angeles	78.2jj	16
Los Angeles	78.2jjj	225
Los Angeles	78.2jjjj	127
Los Angeles	78.2k	109
Los Angeles	78.2kk	131
Los Angeles	78.2kkk	45
Los Angeles	78.2kkkk	11
Los Angeles	78.2l	178
Los Angeles	78.2ll	230
Los Angeles	78.2lll	83
Los Angeles	78.2m	154
Los Angeles	78.2mm	13
Los Angeles	78.2mmm	265
Los Angeles	78.2n	91
Los Angeles	78.2nn	35
Los Angeles	78.2nnn	155
Los Angeles	78.2o	29
Los Angeles	78.2oo	187
Los Angeles	78.2ooo	355
Los Angeles	78.2p	208
Los Angeles	78.2pp	60
Los Angeles	78.2ppp	162
Los Angeles	78.2q	83
Los Angeles	78.2qq	129
Los Angeles	78.2qqq	81
Los Angeles	78.2r	121
Los Angeles	78.2rr	26
Los Angeles	78.2rrr	44
Los Angeles	78.2s	277
Los Angeles	78.2ss	284
Los Angeles	78.2sss	147
Los Angeles	78.2t	17
Los Angeles	78.2tt	60
Los Angeles	78.2ttt	25
Los Angeles	78.2u	11
Los Angeles	78.2uu	80
Los Angeles	78.2uuu	189
Los Angeles	78.2v	106

County	MSSA ID	Projected EPP, 2023
Los Angeles	78.2vv	103
Los Angeles	78.2vvv	38
Los Angeles	78.2w	5
Los Angeles	78.2ww	115
Los Angeles	78.2www	129
Los Angeles	78.2x	42
Los Angeles	78.2xx	17
Los Angeles	78.2xxx	44
Los Angeles	78.2y	13
Los Angeles	78.2yy	11
Los Angeles	78.2yyy	187
Los Angeles	78.2z	37
Los Angeles	78.2zz	118
Los Angeles	78.2zzz	147
Madera	79.1	28
Madera	79.2	45
Madera	80	315
Marin	81	3
Marin	82	7
Marin	83a	15
Marin	83b	102
Mariposa	85	19
Mariposa	86	2
Mendocino	87.1	2
Mendocino	87.2	3
Mendocino	88	13
Mendocino	89	4
Mendocino	90	25
Mendocino	91	12
Mendocino	92	56
Mendocino	93.1	7
Mendocino	93.2	1
Mendocino	93.3	3
Mendocino	93.4	2
Mendocino	93.5	167
Merced	94	82
Merced	95	136
Merced	96	174
Merced	97.1	103

County	MSSA ID	Projected EPP, 2023
Merced	97.2	14
Merced	97.3	1
Modoc	98	10
Modoc	99	8
Modoc	100	13
Mono	102	0
Mono	103	58
Monterey	105	2
Monterey	106	182
Monterey	107	71
Monterey	108	94
Monterey	109.1	478
Monterey	109.2	53
Monterey	110	2
Napa	111.1	4
Napa	111.2	1
Napa	111.3	60
Napa	112.1	24
Napa	112.2	17
Napa	112.3	43
Nevada	113	16
Nevada	114	70
Orange	115.1	47
Orange	115.2a	24
Orange	115.2b	38
Orange	115.2c	37
Orange	115.2d	87
Orange	116a	315
Orange	116b	196
Orange	116c	9
Orange	116d	49
Orange	116e	115
Orange	116f	263
Orange	116g	135
Orange	116h	145
Orange	116i	25
Orange	116j	92
Orange	116k	201
Orange	116l	45

County	MSSA ID	Projected EPP, 2023
Orange	116m	68
Orange	116n	22
Orange	116o	89
Orange	116p	175
Orange	116q	161
Orange	116r	113
Orange	116s	14
Orange	116t	25
Orange	116u	29
Orange	116v	11
Placer	117	16
Placer	118	65
Placer	119	5
Placer	120	76
Placer	121.1	42
Placer	121.2	5
Plumas	122	10
Plumas	123.1	0
Plumas	123.2	7
Plumas	124	4
Plumas	125	42
Riverside	126	4
Riverside	127	318
Riverside	128	74
Riverside	129.1	110
Riverside	129.2	19
Riverside	129.3	251
Riverside	129.4	13
Riverside	130	215
Riverside	132	123
Riverside	133.1	55
Riverside	133.2	355
Riverside	133.3	363
Riverside	134	67
Riverside	131a	81
Riverside	131b	262
Riverside	131c	258
Riverside	135a	253
Riverside	135b	174

County	MSSA ID	Projected EPP, 2023
Riverside	135c	252
Riverside	135d	184
Riverside	135e	102
Riverside	135f	166
Riverside	135g	43
Sacramento	136	8
Sacramento	137	8
Sacramento	138	227
Sacramento	139a	76
Sacramento	139b	177
Sacramento	139c	99
Sacramento	139d	36
Sacramento	139e	270
Sacramento	139f	159
Sacramento	139g	87
Sacramento	139h	49
Sacramento	139i	310
Sacramento	139j	193
Sacramento	139k	61
Sacramento	139l	47
Sacramento	139m	79
San Benito	140	5
San Bernardino	142	1
San Bernardino	143	38
San Bernardino	144.1	71
San Bernardino	144.2	119
San Bernardino	144.3	491
San Bernardino	145.2	254
San Bernardino	145.3	186
San Bernardino	146	10
San Bernardino	147	26
San Bernardino	148	27
San Bernardino	149	3
San Bernardino	150	158
San Bernardino	145.1a	59
San Bernardino	145.1b	99
San Bernardino	151a	141
San Bernardino	151b	268
San Bernardino	151c	52

County	MSSA ID	Projected EPP, 2023
San Bernardino	151d	175
San Bernardino	151e	395
San Bernardino	151f	479
San Bernardino	151g	349
San Bernardino	151h	130
San Bernardino	151i	93
San Bernardino	151j	398
San Bernardino	151k	196
San Bernardino	151l	5
San Diego	152	8
San Diego	153.1	19
San Diego	153.2	3
San Diego	154	29
San Diego	155	158
San Diego	157	86
San Diego	158.1	42
San Diego	158.2	268
San Diego	159	282
San Diego	160	77
San Diego	156a	10
San Diego	156b	40
San Diego	156c	7
San Diego	156d	21
San Diego	156e	257
San Diego	156f	62
San Diego	161a	80
San Diego	161b	185
San Diego	161c	191
San Diego	161d	73
San Diego	161e	109
San Diego	161f	247
San Diego	161g	177
San Diego	161h	113
San Diego	161i	349
San Diego	161j	217
San Diego	161k	134
San Diego	161l	51
San Diego	161m	33
San Diego	161n	72

County	MSSA ID	Projected EPP, 2023
San Diego	161o	32
San Diego	161p	20
San Diego	161q	7
San Diego	161r	203
San Diego	161s	96
San Diego	161t	91
San Diego	161u	53
San Diego	161v	51
San Francisco	162a	5
San Francisco	162b	66
San Francisco	162c	59
San Francisco	162d	4
San Francisco	162e	129
San Francisco	162f	15
San Francisco	162g	8
San Francisco	162h	115
San Joaquin	163	121
San Joaquin	164.1	49
San Joaquin	164.2	2
San Joaquin	165	138
San Joaquin	166	55
San Joaquin	167	21
San Joaquin	168	241
San Joaquin	169a	450
San Joaquin	169b	145
San Joaquin	169c	31
San Luis Obispo	170	84
San Luis Obispo	171	22
San Luis Obispo	172	96
San Luis Obispo	173	20
San Luis Obispo	174	18
San Mateo	175.1	2
San Mateo	175.2	6
San Mateo	175.3	58
San Mateo	176a	180
San Mateo	176b	22
San Mateo	176c	67
San Mateo	176d	15
San Mateo	176e	70

County	MSSA ID	Projected EPP, 2023
San Mateo	176f	9
San Mateo	176g	11
Santa Barbara	177	6
Santa Barbara	178.1	6
Santa Barbara	178.2	124
Santa Barbara	179	547
Santa Barbara	180.1	25
Santa Barbara	180.2	77
Santa Barbara	181a	33
Santa Barbara	181b	126
Santa Clara	182	10
Santa Clara	183a	97
Santa Clara	183b	31
Santa Clara	183c	90
Santa Clara	183d	225
Santa Clara	183e	7
Santa Clara	183f	63
Santa Clara	183g	167
Santa Clara	183h	40
Santa Clara	183i	97
Santa Clara	183j	42
Santa Clara	183k	70
Santa Clara	183l	24
Santa Clara	183m	68
Santa Clara	183n	54
Santa Clara	183o	166
Santa Cruz	184	49
Santa Cruz	185.1	1
Santa Cruz	185.3	13
Santa Cruz	185.4	2
Santa Cruz	185.5	41
Shasta	186	56
Shasta	187	2
Shasta	188.1	3
Shasta	188.2	6
Shasta	189.1	5
Shasta	189.2	159
Shasta	189.3	33
Shasta	190	20

County	MSSA ID	Projected EPP, 2023
Sierra	191	6
Siskiyou	193	4
Siskiyou	194	7
Siskiyou	195	23
Siskiyou	197	18
Siskiyou	198	4
Siskiyou	199	0
Solano	201	25
Solano	203.1	91
Solano	203.2	195
Solano	204	23
Solano	202a	8
Solano	202b	190
Sonoma	205.1	14
Sonoma	205.2	20
Sonoma	206	12
Sonoma	207	6
Sonoma	208	21
Sonoma	209.1	103
Sonoma	209.2	7
Sonoma	210.1	192
Sonoma	210.2	6
Stanislaus	211	84
Stanislaus	212.1	133
Stanislaus	212.2	35
Stanislaus	212.3	37
Stanislaus	213	87
Stanislaus	214	89
Stanislaus	215a	134
Stanislaus	215b	132
Stanislaus	215c	336
Sutter	216	134
Sutter	217	0
Sutter	218	17
Tehama	219	9
Tehama	220	7
Tehama	221	68
Tehama	222	50
Trinity	223	1

County	MSSA ID	Projected EPP, 2023
Trinity	224	6
Trinity	225	2
Tulare	227.1	102
Tulare	227.2	71
Tulare	228.1	48
Tulare	228.2	131
Tulare	229	4
Tulare	230	233
Tulare	231	374
Tulare	232	7
Tulare	233	346
Tuolumne	234.1	1
Tuolumne	234.2	26
Tuolumne	235	3
Tuolumne	236	23
Ventura	237	116
Ventura	238	20
Ventura	239	59
Ventura	240a	35
Ventura	240b	42
Ventura	240c	38
Ventura	241a	185
Ventura	241b	380
Ventura	241c	64
Yolo	242	11
Yolo	243	10
Yolo	244	17
Yolo	245	92
Yolo	246.1	111
Yolo	246.2	11
Yuba	247	4
Yuba	248	6
Yuba	249	154

Projections calculated by CDPH/MCAH/ESFR, March 2022. See **Technical Notes** for more information.

Technical Notes

Average Decline in Estimated Population of Adolescent Mothers and Birthing Persons

The estimated number of adolescent mothers and birthing persons (birthing persons under age 22 who have at least one live birth) in California at any given time is the cumulative sum of all first-time birthing persons over the previous 11 years, who at the time of the estimate are under age 22. For example, to estimate the number of parenting youth in California in 2023, add all first-time birthing persons under age 12 in 2013, those under age 13 in 2014, under age 14 in 2015, etc., through those who gave birth under age 22 in 2023. To determine the average decline in this population, CDPH/MCAH calculated the estimated number of adolescent mothers and birthing persons under age 22 in 2017, 2018, 2019, 2020 using the California Birth Statistical Master Files from 2010 – 2017 and the California Comprehensive Master Birth File from 2018-2020 and calculated the decline per year from 2017 to 2018, 2018 to 2019 and 2019 to 2020, by county of residence. The average percentage decline from these four years is presented in Table 2.

Projected Number of Expectant and Parenting Birthing Persons under age 22 in 2023

CDPH/MCAH extended the method to calculate the estimated number of adolescent mothers and birthing persons (see paragraph above) to develop the projected number of eligible parenting and pregnant birthing persons under age 22 for calendar year 2023.

A. Projecting the Number of Adolescent Mothers and Birthing Persons

Projecting numbers of adolescent mothers and birthing persons started with calculating the adolescent birth rates (ABR) from 2010 to 2020. To adjust for plurality (single birth events producing two or more live births) the ABR was calculated with single births only. This is conducted for two age groups, aged 15-18 and aged 19-21. Due to the small number of births occurring in adolescents under age 15, births to individuals aged 12 to 14 were added to the numerator in the calculation of ABR for those aged 15-19. To increase data stability of county projections, three years of data were aggregated. Moving averages to “smooth” the data were applied where time periods are not combined mutually exclusively but rather in overlapping sequences: Years 2010-2012, Years 2011-2013, etc.

1. ABR is calculated as follows for age groups 15-18 and 19-21:

$$\text{ABR} = \frac{\text{Number of births (specific group)}}{\text{Female population (specific group)}} \times 1,000$$

*Note: These are projections and may not capture all people capable of giving birth.

2. Examination of the historical ABR data showed a declining trend from 2010 to 2020. Upon determination that there is a linear relationship between time (year, x) and ABR (y), a linear regression was assessed. Linear regression is a statistical approach

that approximates the best straight line to quantify the relationship between the two variables, time represented in year (x) and the calculated historical ABR (y). This method develops a line equation $y = a + b(x)$ that best fits a set of historical data points (x, y). Once the regression line is developed, x values are plugged in to predict ABR (y) up to year 2023.

Modeling the historical rate:

$$ABR_i = \text{Intercept} + (\text{Slope} \times \text{Year}_i)$$

where $i=1$ to the number of years being analyzed

For county level predictions, a Poisson distribution was applied after assessing it to be the best fit for the data.

3. To estimate the number of births in a given age at a given year, the projected ABR for that year along with the female population from the Department of Finance population projections for the same age and year were utilized. The equation is as follows:

Projected number of births, by age and year =

$$\frac{\text{Projected ABR (age, year)} \times \text{Female population (age, year)}}{1,000}$$

To this sum of these estimates, CDPH/MCAH added the actual number of first-time births to individuals aged 12 in 2014, aged 12 and 13 in 2015, aged 12, 13, and 14 in 2016, aged 12 through 15 in 2017, aged 12 through 16 in 2018, aged 12 through 17 in 2019, and aged 12 through 18 in 2020.

B. Estimating the Number of Pregnant Adolescents

To estimate the number of expectant adolescents who would be eligible for AFLP in 2023, CDPH/MCAH used a [methodology](#) proposed by the Centers for Disease Control and Prevention, Division of Reproductive Health.

The equation is as follows:

$$\text{Estimated number of pregnant adolescents} = \text{Female population (specific age)} \div 1,000 \times \{ (B \times Pb) + (A \times Pa) + (D \times Pd) \}$$

Where:

B = projected birth rate, 2023 (specific age)

A = abortion rate (specific age)

D = fetal loss (death) rate (most recent national rate per 1,000 women)
P = proportion of the year a woman is pregnant for each pregnancy outcome by month
Pb: 9 months = 0.75
Pa: 2 months = 0.167
Pd: 3 months = 0.25

California does not collect abortion data and fetal losses are reported only of those that occurred 20 weeks of gestation. Thus, CDPH/MCAH relied on the most recent [data](#) published by the Guttmacher Institute in 2021 and projected to year 2023.

Finally, in order to approximate the number of pregnant adolescents who were not already counted in the projected number of adolescent mothers and birthing persons, a factor to adjust for first time pregnancy was applied (estimated proportion of first-time births in 2018-2020).

C. Calculating MSSA-Level Estimates

To obtain projections at the MSSA level, CDPH/MCAH calculated the percentage of total adolescent births within a given county by MSSA, aggregated over all adolescent births 2017-2019. This percentage was then multiplied by the total projected number of adolescent expectant and parenting birthing persons in each county to obtain the projected number of births by MSSA in 2023.

Recruitment Adjustment (see *Program Reach Worksheet*, [Attachment 9](#))

The recruitment adjustment for the RFA reflects the average monthly estimated percentage of adolescent mothers and birthing persons in California from January 2009 through July 2013 who are not enrolled in either Cal-Learn or AFLP. Methods to calculate the estimates of adolescent mothers and birthing persons followed the methods outlined in the section titled Average Decline in Estimated Population of Adolescent Mothers and Birthing Persons. Reach numbers for Cal-Learn and AFLP were obtained from the Department of Social Services, and the AFLP Management Information System (MIS) LodeStar application software, respectively. Over these five years, the percentage of youth not reached was relatively stable and the average percent across the period (56.5%) closely reflected the percent not reached in July 2013 (56.7%). In using this number CDPH/MCAH makes the following assumptions:

- Although the *Program Reach Worksheet*, [Attachment 9](#), removes the Cal-Learn population from the eligible population in a separate step, it is likely that some percentage of the youth who were not reached by either program may be eligible for

Cal-Learn and not AFLP. To the extent that Cal-Learn accurately captures every eligible youth from the total shared eligible population, the percentage of the total AFLP eligible population not reached by AFLP will be underestimated.

- As the nature of services available to expectant and parenting youth expands, the recruitment adjustment may vary. These data do not account for expansions of the AFLP-eligible age population (increased to 21 after the last data estimated in 2013), the expansions of state funded home visiting services, or the expansion of Black Infant Health services to include expectant youth aged 16-18.

¹ Table 1 Note: AFLP RFA eligibility status is based on the 2018 (CASHNI) and the projected number of EPP under age 22 in 2023.

² The AFLP RFA Eligibility Status column in Table 1 indicates counties that meet the single county eligibility requirement of a minimum county 2018 CASHNI of 250 and a minimum county EPP of 200. Additional counties are eligible to be served if they meet the multiple county requirements outlined on page 1 of this document and in the RFA, Part I. I, Eligibility Criteria.

³ Table 2 Note: Statewide totals include data from 31 California counties not eligible for the 2023 AFLP RFA. Data calculated by CDPH/MCAH/ESFR, March 9, 2022. See **Technical Notes** on pages 20 – 23 for more information. Cal-Learn data provided by California Department of Social Services, August 18, 2022. Counties with suppressed data were assigned a value of 10. For more information see: [STAT 45 - Cal-Learn Program Teen Parent Monthly Status Report](#).