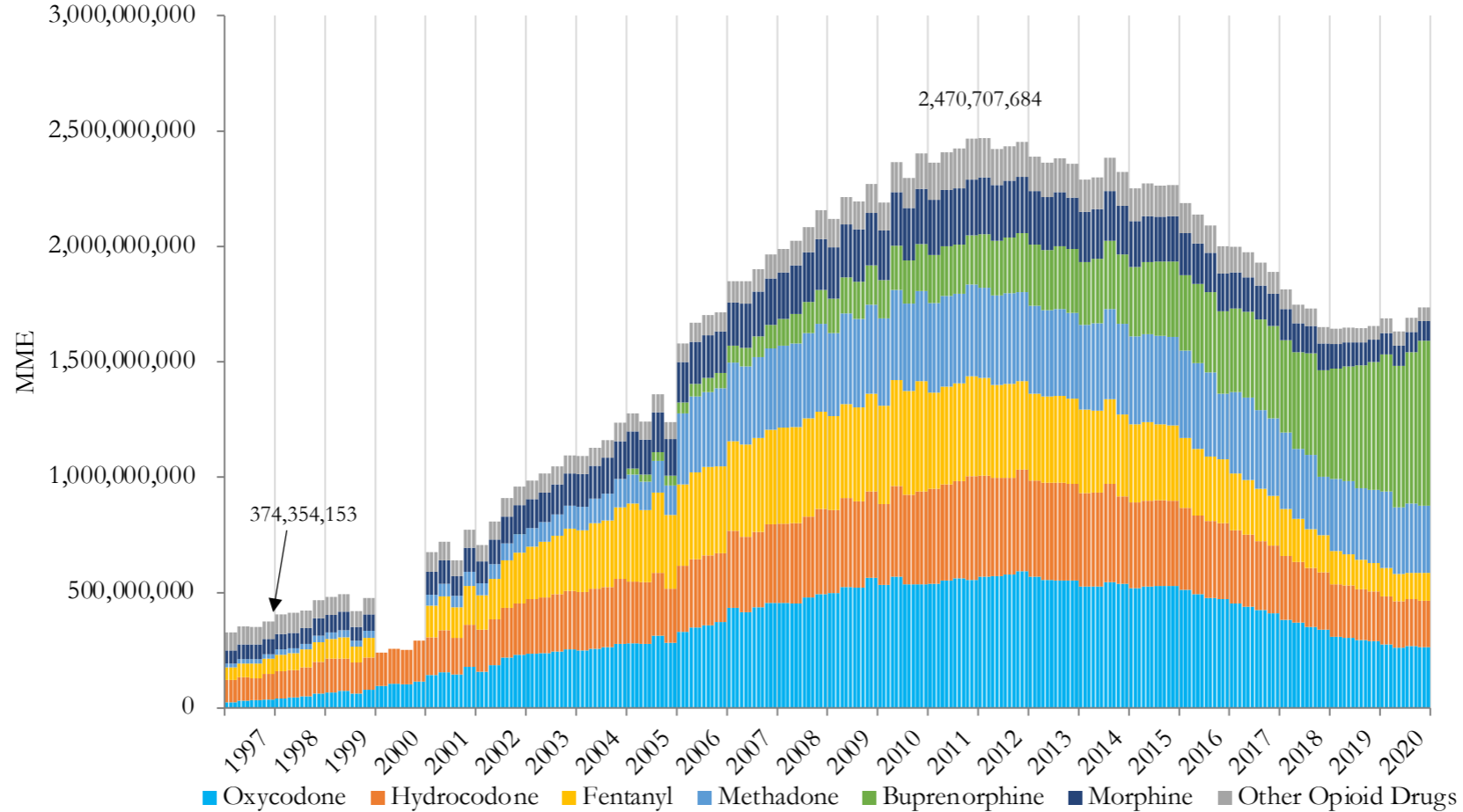


### Distribution of Opioids in California



Source: ARCOS Retail Drug Summary Reports (“RDSR”) ([https://www.deadiversion.usdoj.gov/arcos/retail\\_drug\\_summary/index.html](https://www.deadiversion.usdoj.gov/arcos/retail_drug_summary/index.html)).  
Other Opioid Drugs include: Codeine, Dihydrocodeine, Hydromorphone, Levorphanol, Meperidine, Opium (Powdered), Oxymorphone, Tapentadol.  
For 2000, RDSRs are limited to only Oxycodone and Hydrocodone. For 2018 to 2020, RDSRs are limited to Oxycodone, Hydrocodone, Codeine, Fentanyl, Morphine, Hydromorphone, Oxymorphone, Meperidine, and Tapentadol.

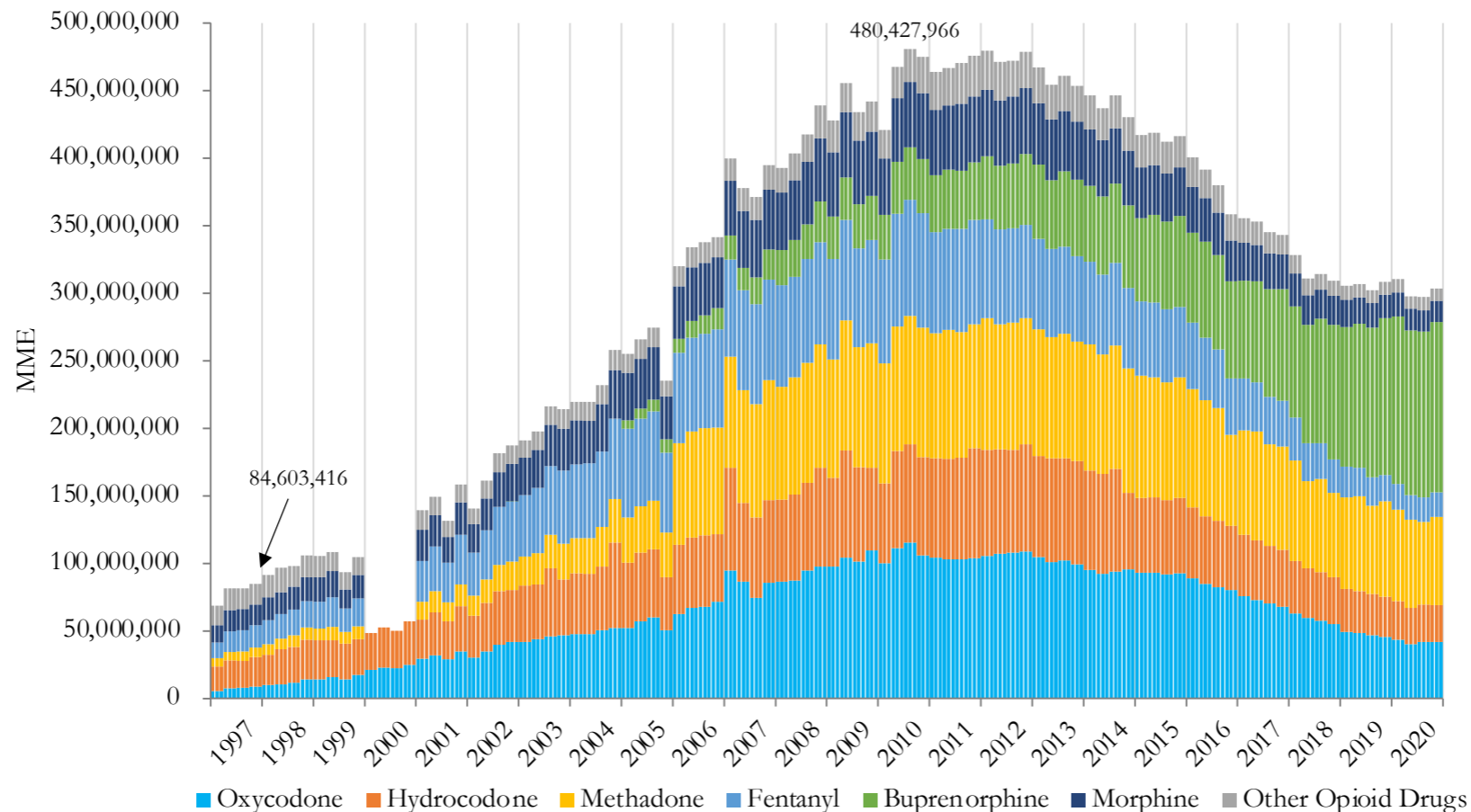
MME Conversion Factors used in this analysis: Buprenorphine: 30, Codeine: 0.15, Dihydrocodeine: 0.25, Fentanyl: 100, Hydrocodone: 1, Hydromorphone: 4, Levorphanol: 11, Meperidine: 0.1, Methadone: 3, Morphine: 1, Opium (Powdered): 1, Oxycodone: 1.5, Oxymorphone: 3, Tapentadol: 0.4.

PLAINTIFFS TRIAL  
EXHIBIT  
**P-29830\_00001**

## Distribution of Opioids in California

Year	Total	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
1997	4,218,875,514	979,683,386	1,060,018,010	1,056,111,659	1,123,062,460
1998	5,113,991,715	1,213,842,586	1,239,498,407	1,262,289,564	1,398,361,159
1999	5,610,801,028	1,445,047,011	1,478,430,281	1,258,212,365	1,429,111,372
2000	3,119,413,795	722,054,400	769,718,020	754,485,520	873,155,855
2001	8,427,637,969	2,026,119,365	2,160,159,342	1,922,637,561	2,318,721,701
2002	10,151,553,390	2,115,318,237	2,424,471,797	2,731,508,832	2,880,254,524
2003	12,432,820,210	2,959,402,062	3,048,147,547	3,141,003,753	3,284,266,850
2004	13,849,694,927	3,275,208,571	3,381,475,472	3,484,917,863	3,708,093,022
2005	15,341,698,717	3,830,049,209	3,721,220,885	4,077,825,466	3,712,603,158
2006	19,997,176,015	4,736,479,023	5,009,678,400	5,104,703,894	5,146,314,698
2007	22,688,660,171	5,546,598,658	5,545,923,434	5,703,119,694	5,893,018,386
2008	24,772,178,787	5,970,441,072	6,076,565,727	6,254,371,843	6,470,800,146
2009	26,398,294,185	6,358,791,773	6,642,666,923	6,584,617,199	6,812,218,290
2010	27,768,501,696	6,569,223,756	7,098,870,184	6,889,517,453	7,210,890,304
2011	28,994,309,297	7,087,858,879	7,224,375,883	7,277,396,687	7,404,677,849
2012	29,348,369,996	7,412,123,053	7,268,240,428	7,305,586,607	7,362,419,908
2013	28,482,442,120	7,164,888,037	7,090,593,092	7,148,785,047	7,078,175,944
2014	27,882,423,361	6,866,035,575	6,900,992,626	7,149,965,933	6,965,429,228
2015	27,165,480,670	6,755,083,504	6,818,042,963	6,792,978,023	6,799,376,180
2016	25,259,126,492	6,561,918,043	6,415,133,189	6,276,104,516	6,005,970,745
2017	23,380,245,524	5,996,830,535	5,926,509,250	5,789,645,183	5,667,260,557
2018	20,835,766,017	5,444,062,033	5,244,632,057	5,194,705,977	4,952,365,950
2019	19,785,046,091	4,930,728,121	4,944,416,564	4,940,481,567	4,969,419,840
2020	20,241,849,499	5,066,573,024	4,894,618,962	5,070,125,781	5,210,531,733
<b>Total</b>	<b>451,266,357,181</b>	<b>111,034,359,906</b>	<b>112,384,399,438</b>	<b>113,171,097,984</b>	<b>114,676,499,853</b>

### Distribution of Opioids in Bay Area

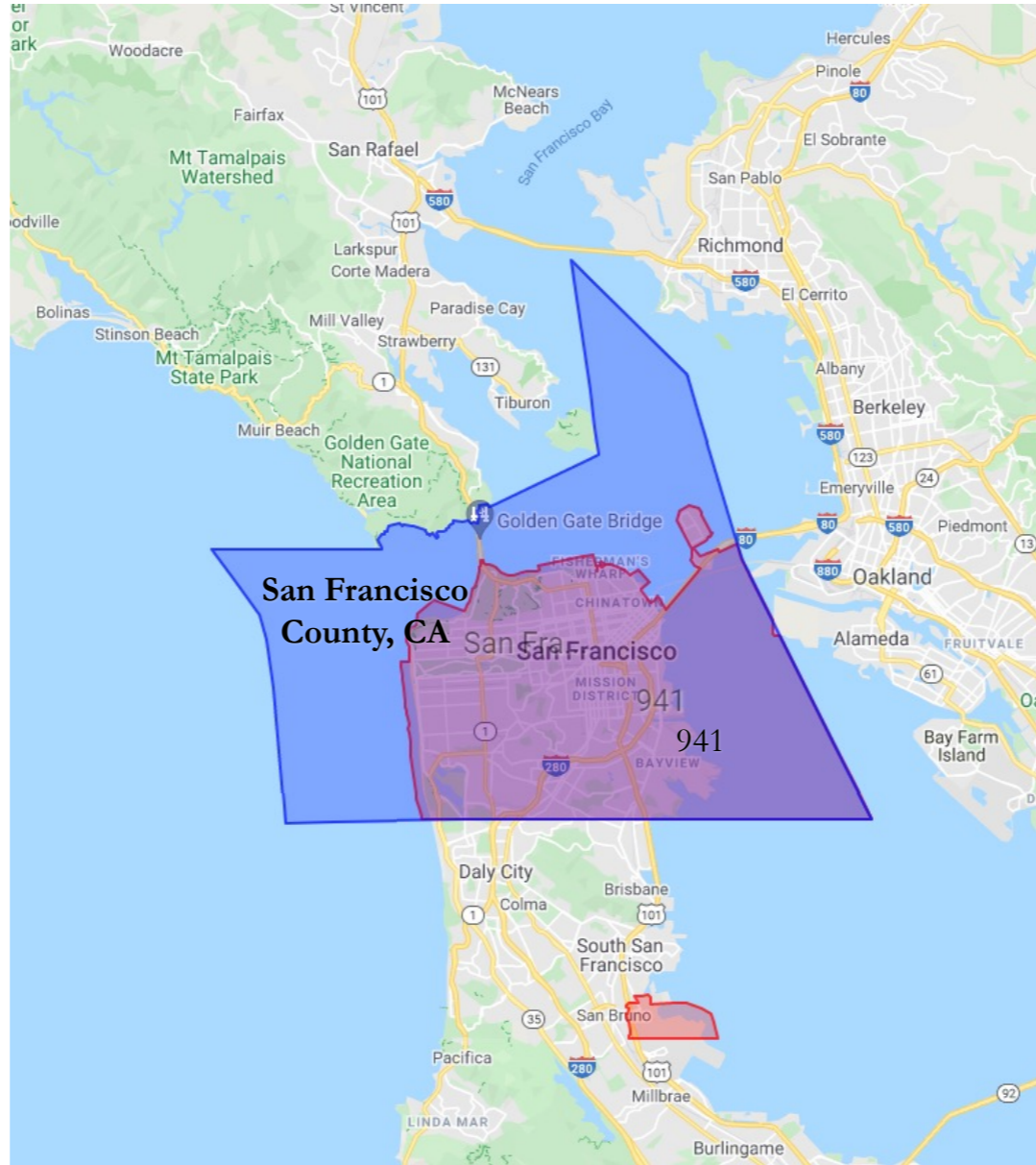


Source: ARCOS Retail Drug Summary Reports (“RDSR”) ([https://www.deadiversion.usdoj.gov/arcos/retail\\_drug\\_summary/index.html](https://www.deadiversion.usdoj.gov/arcos/retail_drug_summary/index.html)).  
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For 2000, RDSRs are limited to only Oxycodone and Hydrocodone. For 2018 to 2020, RDSRs are limited to Oxycodone, Hydrocodone, Codeine, Fentanyl, Morphine, Hydromorphone, Oxymorphone, Meperidine, and Tapentadol.

## Distribution of Opioids in Bay Area

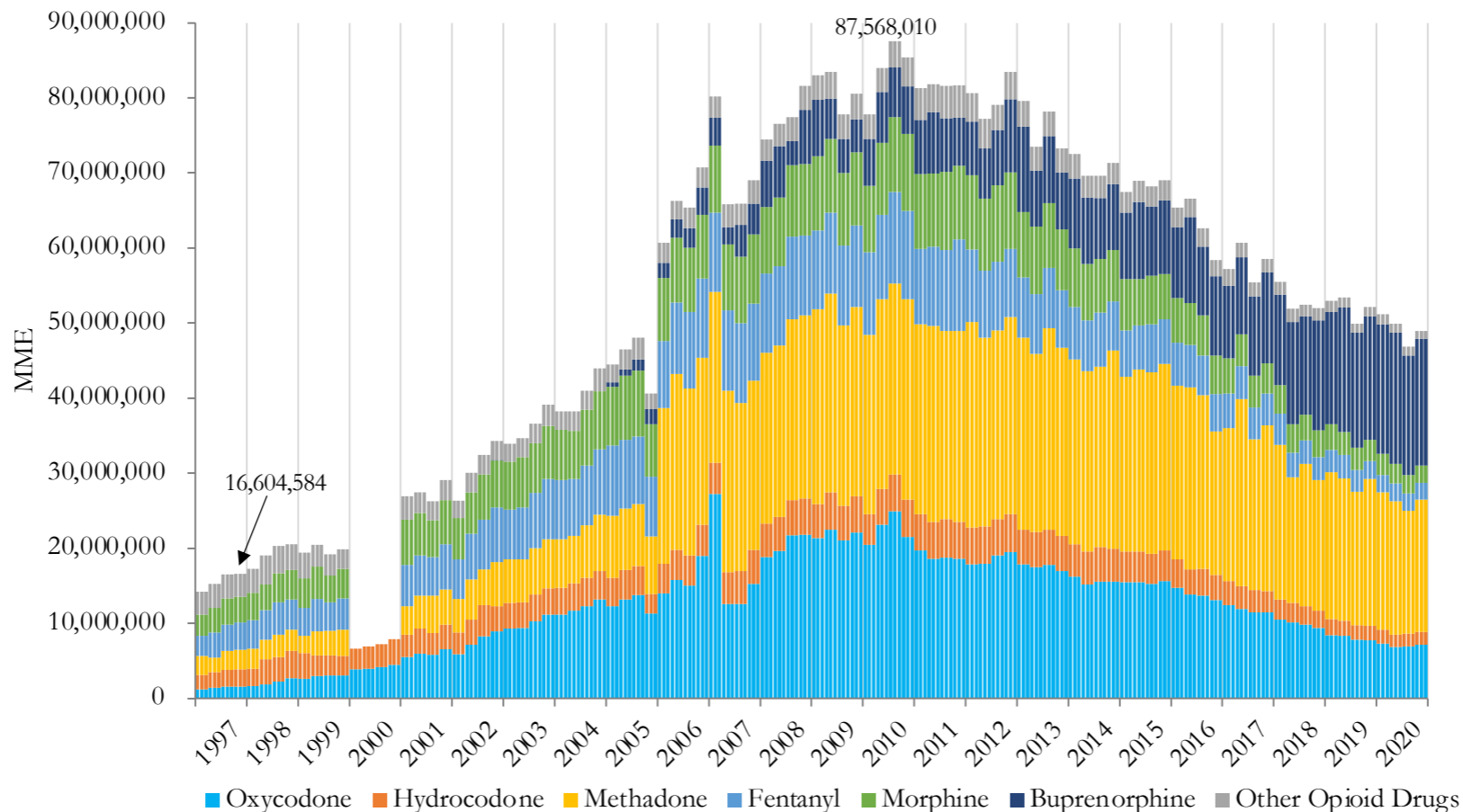
Year	Total	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
1997	947,762,897	206,367,671	243,711,752	243,873,228	253,810,247
1998	1,175,404,205	273,672,951	290,014,864	293,917,858	317,798,532
1999	1,233,953,095	315,954,296	324,253,582	280,192,166	313,553,051
2000	623,093,345	144,764,540	157,053,055	150,340,070	170,935,680
2001	1,735,115,362	418,001,352	447,559,331	394,597,305	474,957,375
2002	2,011,726,787	421,437,597	484,112,486	544,377,073	561,799,632
2003	2,456,587,343	573,398,682	592,868,388	648,507,187	641,813,087
2004	2,785,963,691	658,520,673	658,322,070	694,999,827	774,121,122
2005	3,091,097,831	764,857,737	797,025,104	823,484,957	705,730,033
2006	3,996,839,821	959,041,663	1,001,182,667	1,012,518,935	1,024,096,557
2007	4,627,686,249	1,198,326,349	1,132,741,503	1,113,027,171	1,183,591,226
2008	4,955,057,119	1,177,239,327	1,209,408,959	1,252,134,687	1,316,274,148
2009	5,275,269,158	1,282,739,694	1,366,305,928	1,301,202,476	1,325,021,060
2010	5,529,509,942	1,261,630,686	1,401,818,537	1,441,283,897	1,424,776,822
2011	5,627,421,006	1,390,523,121	1,399,352,589	1,410,652,208	1,426,893,089
2012	5,702,398,467	1,437,867,739	1,413,607,504	1,415,788,652	1,435,134,572
2013	5,506,346,183	1,401,012,841	1,362,798,350	1,382,847,240	1,359,687,753
2014	5,277,998,962	1,338,473,687	1,310,145,027	1,338,856,648	1,290,523,601
2015	4,991,124,720	1,250,994,581	1,256,085,889	1,236,090,675	1,247,953,575
2016	4,590,062,874	1,201,271,597	1,174,346,696	1,139,134,266	1,075,310,315
2017	4,189,516,000	1,066,598,286	1,058,901,156	1,035,133,585	1,028,882,974
2018	3,785,793,720	983,963,208	932,262,814	942,439,696	927,128,003
2019	3,666,359,833	915,825,942	919,337,587	906,179,422	925,016,883
2020	3,625,127,094	930,879,846	892,980,770	891,108,336	910,158,142
<b>Total</b>	<b>87,407,215,696</b>	<b>21,573,364,062</b>	<b>21,826,196,602</b>	<b>21,892,687,560</b>	<b>22,114,967,473</b>

### 3 Digit Zip Code Map of San Francisco, CA



Source: [www.zemaps.com](http://www.zemaps.com)

### Distribution of Opioids to Zip Code 941



Source: ARCOS Retail Drug Summary Reports (“RDSR”) ([https://www.deadiversion.usdoj.gov/arcos/retail\\_drug\\_summary/index.html](https://www.deadiversion.usdoj.gov/arcos/retail_drug_summary/index.html)).

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## Distribution of Opioids to Zip Code 941

Year	Total	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
1997	187,661,419	42,636,351	45,667,221	49,544,095	49,813,753
1998	231,660,947	51,875,806	57,138,991	61,014,953	61,631,198
1999	236,887,653	58,157,829	61,408,449	57,657,414	59,663,963
2000	85,809,930	19,894,155	20,701,260	21,653,990	23,560,525
2001	329,092,448	80,782,651	82,296,927	78,777,044	87,235,827
2002	369,366,521	78,967,913	90,176,580	97,317,516	102,904,513
2003	433,029,451	101,846,404	103,990,951	109,863,491	117,328,606
2004	484,435,455	114,781,795	114,742,526	122,964,087	131,947,048
2005	538,831,959	133,500,130	139,391,655	144,156,688	121,783,487
2006	789,464,640	182,197,422	198,830,475	196,127,671	212,309,072
2007	842,830,437	240,551,544	197,562,660	197,699,135	207,017,099
2008	930,041,872	223,317,072	229,667,205	232,312,798	244,744,797
2009	974,290,849	248,934,890	250,270,296	233,355,979	241,729,685
2010	1,004,258,356	233,313,196	252,053,987	262,704,030	256,187,144
2011	979,305,273	243,824,668	245,491,237	244,885,985	245,103,385
2012	961,124,766	241,987,614	231,552,020	237,192,544	250,392,589
2013	913,568,841	238,666,089	220,546,963	234,509,685	219,846,106
2014	849,389,959	217,583,341	208,809,092	208,908,116	214,089,411
2015	820,974,591	202,440,391	206,817,456	204,722,374	206,994,371
2016	759,001,320	196,229,187	199,742,813	187,846,185	175,183,136
2017	695,694,850	171,635,608	182,054,561	166,359,400	175,645,281
2018	635,423,676	166,493,246	155,680,538	157,344,903	155,904,990
2019	625,202,283	158,800,495	160,131,281	149,833,119	156,437,388
2020	590,540,792	153,431,623	149,639,812	140,533,664	146,935,694
<b>Total</b>	<b>15,267,888,284</b>	<b>3,801,849,413</b>	<b>3,804,364,950</b>	<b>3,797,284,861</b>	<b>3,864,389,061</b>

MME conversion factors: Buprenorphine:30, Codeine:0.15, Dihydrocodeine:0.25, Fentanyl:100, Hydrocodone:1, Hydromorphone:4, Levorphanol:11, Meperidine:0.1, Methadone:3, Morphine:1, Opium (Powdered):1, Oxycodone:1.5, Oxymorphone:3, Tapentadol:0.4.  
 Source: ARCOS Retail Drug Summary Reports ("RDSR") ([https://www.deadiversion.usdoj.gov/arcos/retail\\_drug\\_summary/index.html](https://www.deadiversion.usdoj.gov/arcos/retail_drug_summary/index.html)).