Water Use in the California Residential Home

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Executive Summary:

A new three bedroom single family home with four occupants is modeled to use 174,000 gallons of water per year. The majority of this water use is due to landscaping. The largest indoor water use is by showers. These estimates are based on assumptions provided in the California Green Building Standards Code (CGBSC) and the California Department of Water Resources' Model Water Efficient Landscape Ordinance.



The CGBSC will come into effect in 2011, combined with the Model Ordinance; homes built to these standards will save approximately 38,000 gallons of water per year. One of the largest sources of these savings is the use of Weather Based Irrigation Controllers, which have been shown to reduce the amount of landscape over-watering by 85%, and total household water use by 7%

While there is still significant savings potential in new California homes, older California homes represent an even greater opportunity. Changes in code requirements in 1980 and 1992 have served to reduce the indoor water use of a three bedroom home

by 35% over the last 30 years. Old toilets and showerheads can use up to three times more water than current available models.

Addressing existing housing, particularly old showerheads, can be a very cost effective way of reducing water use. Additionally, in order to achieve deep reductions in the amount of water used in homes, strategies must be developed to reach the 7,500,000 existing single family homes and the 13,000,000 total housing units in the state.







Lastly, the single largest use of water in the United States is by electric power plants. By continuing to improve the energy efficiency of homes, California home builders are indirectly helping to reduce nationwide water consumption.

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Water Use in the United States

Water is becoming an increasingly important resource throughout California and the United States. The largest single use of water use is in the cooling towers of power plants, followed by water used to irrigate for agriculture. Combined, these two uses account for over 80% of all domestic water use. The largest remaining segment of water use is that of Public Water Supplies. As of the year 2000, 85% of the national and 89% of California's population received their drinking water from public supplies; the remainder relies on self supplied water sources, generally ground water wells. Figure 1 below shows the national breakdown of water uses.



Figure 1: Total United States Water Use¹

Public water supplies are often measured in gallons per capita per day (GPCD.) This is nothing more than the average daily supply divided by the service population. The national average for public water supplies is 179 GPCD, the California statewide average is 203 GPCD. California has the 15th highest per capita public water consumption in the country. Generally, the states with the highest water consumption are in the south and west, where there is a year round growing season and larger average home sites.

¹ <u>http://pubs.usgs.gov/circ/2004/circ1268/htdocs/text-total.html</u>

Water Use in the Home



Figure 2: Average US Residential Water Use²

In the United States, residential water use is typically dominated by landscape water use and California is no exception. Figure 2 above shows the relative importance of various water uses throughout the home. There is a wide amount of variability in the above percentages. How much water an individual home will use is largely dependent on four factors: the number of residents; the types of fixtures (toilets, showerheads, faucets); the size of the home lot, and the type of landscaping (turf and pools using the most water.)

Indoor Water Use

The 2008 California Green Building Standards Code (CGBSC)³ sets new standards for the flow rate of fixtures in new construction. The standards come into effect in 2011 and will call for a 20% reduction in indoor water use. The code also includes guidance on how to calculate the "baseline" indoor water use for a current new single family home. Table 1 lists the fixture flow rates and usage amounts assumed in the code for present day construction. The current fixture flow rates were set by the Federal Energy Policy Act of 1992, which became effective in 1994. Before that time, flow rates for these fixtures were much higher. In California, the 1980 plumbing code set showerhead flow rates at 2.5 gallons per minute (gpm) and toilet flow rates at 3.6 gallons per flush (gpf.) Before 1980, those values were typically 3.5 gpm and 5.0 gpf respectively. Table 2 shows the historical flow rates of showers, faucets, and toilets, as well as the flow rates which will become effective in 2011. Low flow faucets and showerheads should not add to the cost of the home. Currently, there is an approximately \$50 premium on low-flow toilets, but that price has dropped dramatically over the past two years.

² <u>http://www.aquacraft.com/Publications/resident.htm</u>

³ http://www.documents.dgs.ca.gov/bsc/2009/part11_2008_calgreen_code.pdf

FIXTURE TYPE	FLOW RATE ²	DURATION	DAILY USES	OCCUPANTS ^{3, 4}
Showerheads	2.5 gpm @ 80 psi	8 min.	1	Х
Showerheads residential	2.5 gpm @ 80 psi	8 min.	1	Х
Lavatory faucets residential	2.2 gpm @ 60 psi	.25 min.	3	Х
Kitchen faucets	2.2 gpm @ 60 psi	4 min.	1	Х
Replacement aerators	2.2 gpm @ 60 psi			Х
Wash fountains	2.2 [rim space (in.) / 20 gpm @ 60 psi]			Х
Metering faucets	0.25 gallons/cycle	.25 min.	3	Х
Metering faucets for wash fountains	.25 [rim space (in.) / 20 gpm @ 60 psi]	.25 min.		Х
Gravity tank type water closets	1.6 gallons/flush	1 flush	1 male ¹ 3 female	х
Flushometer tank water closets	1.6 gallons/flush	1 flush	1 male ¹ 3 female	Х
Flushometer valve water closets	1.6 gallons/flush	1 flush	1 male ¹ 3 female	Х
Electromechanical hydraulic water closets	1.6 gallons/flush	1 flush	1 male ¹ 3 female	Х
Urinals	1.0 gallons/flush	1 flush	2 male	Х

Fixture "water use" = flow rate × duration × occupants × daily uses

1. Except for low-rise residential occupancies, the daily use number shall be increased to three if urinals are not installed in the room.

The flow rate is from the CEC Appliance Efficiency Standards, Title 20, *California Code of Regulations*; where a conflict occurs, the CEC standards shall apply.
 For low rise residential occupancies, the number of occupants shall be based on two persons for the first bedroom, plus one additional person for each additional

b. For now rise residential occupancies, the number of occupants shall be based on two persons for the first bedroom, plus one additional persons for the first bedroom.

4. For nonresidential occupancies, refer to Table A, Chapter 4, 2007 California Plumbing Code, for occupant load factors.

5. Use worksheet WS-1 to calculate base line water use.

Fixture and Appliance Standards Over Time										
<u>1975</u> <u>1980</u> <u>1992</u> <u>2009</u> <u>201</u>										
Shower (gpm)	3.5	2.5	2.5	2.5	2.0					
Toilets (gpf)	5.0	3.6	1.6	1.6	1.28					
Faucets (gpm)	2.5	2.5	2.5	2.2	1.8					
Clothes Washers (gal/cu. Ft.) 15 15 15 8.5										

Table 2: Flow	Rates of Fixtures	Over Time
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The CGBSC, however, only covers showers, faucets, and toilets. The code does not provide baseline guidance for outdoor water use, nor does it provide guidance for clothes washer water use, which, as shown in Figure 2, is significant.

An average top loading clothes washer uses between 40 and 45 gallons per wash⁴. A horizontal axis washer can use between 15 and 30 gallons. Appliance standards currently effective in California limit the amount of water to 8.5 gallons per cubic foot of capacity. In 2010 this number will drop to 6 gallons per cubic foot. The average clothes washer capacity is 3 cubic feet, meaning a new clothes washer will average 18 gallons per wash. Studies have shown, the average household does between 300 and 400 loads of laundry per year⁵. Table 3 combines the fixture assumptions provided by the CGBSC with the assumptions on clothes washer usage to determine the estimated indoor water use for a new three bedroom home. Table 4 compares the water use of homes built prior to 1980, prior to 1994, the present day, and after 2011.

⁴ <u>http://www.allianceforwaterefficiency.org/Residential_Clothes_Washer_Introduction.aspx</u>

⁵ http://www.consumerenergycenter.org/home/appliances/washers.html,

	Total Indoor Water Use, New Three Bedroom Home								
Fixture Type	Flow Rate (gpm or gpf)	Duration (mins.)	Daily Uses	# of Occupants	Gallons/Year				
Showerheads	2.5	8	1	4	29,200				
Lavatory Faucets	2.2	0.25	3	4	2,409				
Kitchen Faucets	2.2	4	1	4	12,848				
Toilets	1.6		3	4	7,008				
Fixture Water Use					51,465				
Loads per Year Gallons per Load									
Clothes Washers	30	0	2	7,650					
Total Indoor Water	59,115								

 Table 3: Indoor Water Use for a New Three Bedroom Home

Annual Water Use (gallons) for Family of Four								
<u>1975 1990 2009 2</u>								
Shower (gpm)	40,880	29,200	29,200	23,360				
Toilets (gpf)	21,900	15,768	7,008	5,606				
Kitchen and Lavatory Faucets	17,338	17,338	15,257	12,483				
Clothes Washer	12,000	12,000	7,650	5,400				
Total Water Use	92,118	74,306	59,115	46,849				
Reduction		19%	20%	21%				

 Table 4: Indoor Water Use Over Time



Figure 3: Indoor Water Use Over Time

Outdoor Water Use

The methods detailed in the California Department of Water Resources' recently published Model Landscape Ordinance⁶ will be used to estimate outdoor water usage. The ordinance provides the formula listed in Equation 1 in order to determine the water needed by a given landscape.

LandscapeWater = (ETo)x(0.62)x(Area)x(ETAF) Equation 1: Outdoor Water Use

In Equation 1, ET_o is the reference evapotranspiration. This is the amount of water, in inches, a specific species of grass requires in a specific climate. This number varies from city to city throughout the state, and the numbers are published in the Model Ordinance. The ET_o for Sacramento is 52 inches; for Monterey, which is much wetter and cooler, the ET_o is 36 inches. Needles, on the Arizona border, has the highest ET_o in the state at 92 inches. The median ET_o for the state is 50 inches. The complete list of the ET_o for all cities in California is available in Appendix A.

The number .62 is a conversion factor needed for the equation to output the water needed in gallons. The "Area" is the square footage of landscaping. For the purposes of this report, the average landscaped are of a single family home will be assumed to be 4000 square feet⁷.

ETAF stands for evapotranspiration adjustment factor. This is a number that incorporates the specific plant type as well as the irrigation efficiency of the system⁸. The Model Ordinance uses a default value of 0.8 for the average existing California landscape. Given the assumptions made above, the landscape of an average single family home in California will require just shy of 100,000 gallons per year. Landscapes designed under the ordinance must have an ETAF of 0.7 or lower. This is accomplished through the greater use of plants that require less water. These landscapes will need 87,000 gallons of water per year, on average, a savings of 13,000 gallons. Meeting the requirements of the Model Ordinance should not add much cost to the installation of landscaping. However, there may be additional costs due to the time needed to calculate the water use of the landscaping in order to determine compliance.

It is rarely the case, however, that a landscape gets exactly as much water as it "needs"; more often than not, homeowners over water their lawn. One of the most detailed studies on the watering habits of homeowners was conducted by the Irvine Ranch Water District⁹ (the ET_o for Irvine is conveniently right at the state average, making it well suited to evaluating landscaping water use).

The study concluded there was a savings potential in excess of 43 gallons per household per day, or roughly 16,000 gallons per year, if residents would not over water their lawn. The study examined two methods of changing homeowner behavior: mailing homeowners periodic postcards that carried suggested watering schedules; and installing weather based irrigation controllers (WBIC) that automatically adjust the irrigation system depending on current weather conditions (turning the sprinklers off after it has just rained). Mailing out the watering schedules captured 30% of the potential

⁶ <u>http://www.water.ca.gov/wateruseefficiency/landscapeordinance/</u>

⁷ http://www.epa.gov/WaterSense/docs/app_b508.pdf

⁸ ETAF is the Plant Factor (PF) divided by the Irrigation Efficiency (IE.) Most turf grass has a PF of 0.8 or higher, while drought tolerant shrubs have a PF of 0.3 or lower. The PF numbers for specific plants can be looked up in the Water Use Classification of Landscape Species (WUCOLS) database, published by the University of California Cooperative Extension, the Department of Water Resources and the Bureau of Reclamation, 2000. Irrigation Efficiency is the percentage of water that leaves the sprinkler or irrigation device and actually lands on plants that need watering. Poorly designed spray head irrigation can have an IE of less than 0.6.

⁹ <u>http://www.irwd.com/Conservation/FinalETRpt[1].pdf</u>

savings, 4,800 gallons per year. The WBICs captured 85% of the savings, 13,600 gallons per year. Because of their efficacy, WBICs are included in the Model Landscape Ordinance, and are likely to be added to the CGBSC. WBICs range on price from \$150 to \$350 dollars compared to a standard irrigation controller which is generally less than \$50. Many water districts, however, provide rebates or incentives for the installation on WBICs.

When factoring in over watering, an "average" California landscape will consume approximately 115,000 gallons per year, a home which meets the requirements of the Model Landscape Ordinance will use approximately 89,000 gallons per year. This represents a savings of 26,000 gallons per year.

Combining the outdoor water savings with indoor water savings, a home built in 2011 will use 38,000 gallons of water less per year.



Figure 4: Water Use for New Three Bedroom Home

Wasted Water

Every morning, millions of gallons of water are wasted as homeowners wait for hot water to reach their showers. Studies have shown the average home with a conventional plumbing system uses an extra 10,000 gallons per year waiting for hot water¹⁰. Two systems which greatly reduce this waste are recirculation systems and parallel piping systems. A recirculation system is a pump that moves hot water through the pipe system so that it is ready when the fixture is tuned on. Recirculation systems come in three main varieties: always on; timer controlled, where the pump is set to run every day at specified times (at 6:15 am if you normally shower at 6:30;) and on demand, where the homeowner manually activates the pump. Recirculation systems eliminate nearly all the water loss while waiting for hot water. They cost approximately \$500 to install, and do use additional energy, especially recirculation systems that are always on.

Parallel piping is a plumbing system that uses smaller diameter plastic pipes to run directly from the hot water fixtures to the water heater. Because these pipes have a smaller diameter, they hold a smaller volume of water that needs to be cleared before hot water arrives. These systems save on average, 7,000 gallons of water per year. There is an additional materials cost to installing a parallel piping system, but this is often negated by lower labor costs as the installation is generally easier than a traditional structured plumbing system.

Savings Potential

California currently has over 7,500,000 single family homes, more than half of these homes were built before 1980, when the first plumbing standards came into effect. While many of these homes have likely had their fixtures updated at some point, others have not. These older homes represent a large source of potential water savings.

Year Built	Number of Units	Avg. Indoor Water Use	Avg. Outdoor Water Use
pre 60s	2,392,460	92,118	115,088
60s	1,143,459	92,118	115,088
70s	1,162,924	92,118	115,088
80s	1,135,153	74,306	115,088
90s	826,346	59,115	115,088
00s	889,181	59,115	115,088
Total	7,549,523		

Table 5: Homes Built by Year

Table 6 Provides the savings potential of various retrofit measures discussed above. Water numbers are in gallons per year.

Year Built	Number of Units	Avg. Indoor Water Use	Avg. Outdoor Water Use	Fixture Replacemet	Toilet Replacement	WBIC	Water Schedules	Recirculation System
pre 60s	2,392,460	92,118	115,088	22,375	16,294	13,491	4,762	10,000
60s	1,143,459	92,118	115,088	22,375	16,294	13,491	4,762	10,000
70s	1,162,924	92,118	115,088	22,375	16,294	13,491	4,762	10,000
80s	1,135,153	74,306	115,088	10,695	10,162	13,491	4,762	10,000
90s	826,346	59,115	115,088	8,614	1,402	13,491	4,762	10,000
00s	889,181	59,115	115,088	8,614	1,402	13,491	4,762	10,000
Total	7 549 523							

Table 6: Savings Potential of Retrofit Measures

¹⁰ http://www.toolbase.org/PDF/CaseStudies/hot_water_distribution_TN_California_2004_paper.pdf

The costs of retrofitting existing home could vary widely. The following assumptions (Table 7) are made to determine the cost of retrofit packages.

	Cost/unit		Units/Home	Tot	al Cost
Fixture Replacemet	\$	50	3	\$	150
Toilet Replacement	\$ 250		3	\$	750
WBIC	\$	250	1	\$	250
Recirculation System	\$ 500		1	\$	500

Table 7: Retrofit Package Costs

Replacing old showerheads is by far the most cost effective water conservation measure available. The new code requirements are also fairly cost effective. The cost increase for a new home to meet the 2011 standards is estimated to be \$350: \$50 for three toilets, and \$250 for additional landscape design. However, the total savings potential for the new code is only applicable to new construction, which accounts for less than 2% of the total housing stock.

Upgrade Measure	Annual Savings per Dollar (Gal.)
Replacing 5 gpm Showerheads	224
Replacing 3.5 gpm Showerheads	107
New Code Requirements	95
Replacing 2.5 gpm showerheads	86
Installing WBIC	54
Replacing 5 gpf Toilet	22
Install Recirc. System	20
Replacing 3.6 gpf Toilet	14
Replacing 1.6 gpf toilet	2

 Table 8: Water Savings Cost Effectiveness

<u>Appendix A – Reference Evapotranspiration for California Cities</u>

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San Francisco35.1Cargenterina44.9Raymond30.5Gerber Dyaland35.5Sold Springa35.4Fairfield45.2Auburn30.6Springa35.8Table City35.8San Joce45.3Linclove30.6Warrer Springa35.8Horna35.8Prateire45.4Contag50.6Warrer Springa35.8Horna35.8Solvang45.6Contag50.7Metrada LC56.8Monterey36.3Gonzales45.7Creatine50.8Bilackwells Corner56.6Mostant36.2Caracos45.8Coalinga50.9Tenceuclica Liat H56.7Trackee36.2Aligo rift Monte46.1Thousand Oaks31Carovann57.1Salmas North36.9Caracrina46.1Thousand Oaks31Carovann57.1Salmas North30.9Webh46.2Prenno51.1Panche57.2Salmas North30.9Webh46.2Prenno51.1Panche57.2Salmas North30.9Karbur46.7Karrann51.2Balesricid/Romaza57.9Salmas North30.9Karbur46.7Karrann51.2Balesricid/Romaza57.9Salmas North30.9Karbur47.7Tarta51.2Balesricid/Romaza57.9Salmas North30.9Karbur47.8Matec51.2Balesricid/Romaza57.9Salmas Nor	Weed	34.9	Ravendale	44.9	Otay Lake	50.4	Firebaugh	55.4
Happy Camp 53.1 Indiverse 45.1 Fair Oaks 50.5 San Bermardian 55.6 Solds Spring 35.5 San Jose 43.3 Lindcove 50.6 Warner Springs 56 Son Rafeet 35.8 Lower Lake 45.4 Visial 50.7 Reverside UC 56.6 Son Rafeet 36.2 Carners 45.8 Visial 50.8	San Francisco	35.1	Carpenteria	44.9	Raymond	50.5	Gerber Dryland	55.5
Sold. Spring 35.4 Pairfield 45.2 Aubram 96.6 Experto 55.8 Hoopa 35.6 Pitsburg 45.4 Corning 50.7 Reveraide UC 56.8 More Iak 35.8 Jower Iake 45.4 Visitai 50.7 McFandM Kern 56.5 Mortery 36 Solvang 45.6 Williams 50.8 Blackvelle Correr 56.6 Mistara 36 Gorzales 45.7 Creatilize 51.8 Blackvelle Correr 56.6 Salines 51.2 Carneros 45.8 Conting 50.7 Terrescult Iast II to S7.7 Salines 51.1 Panchester 51.2 Salines 51.1 Panchester 57.7 Salines 39.1 Wahnt Coreck 46.2 Parson 51.1 Panchester 57.7 Salines 39.2 Il Dorado 46.3 Santee 51.1 Panchester 57.7 Serraville 39.6 McAthar 46.8 Matharea	Happy Camp	35.1	Hollister	45.1	Fair Oaks	50.5	San Bernardino	55.6
Shata Springs 3.3.2 raining 4.2.2 raining 3.0.1 reginal 3.0.1 r	Sada Sasiana	25.4	Fairfald	45.0	A sub-sum	50.5	San Demardino	55.0
Jabe Cuy 3.5. San Jase 4.5. Lunderve 3.0. Watter Sprange 3.6. San Rahel 3.5. Lover Lake 4.5. Corning 5.0. McFrahan Kernan 5.6. San Rahel 3.6. Correlate 4.5. Corellate 5.0. McFrahan Kernan 5.6. Mishata 3.6. Carnerso 4.5. Corellate 5.0. McFrahan Kernan 5.6. Castroville 3.6. Valley of the Moon 4.6.1 Winters 5.1 Lost Hills 5.7. Salinas North 3.6. Valley of the Moon 4.6.1 Winters 5.1 Hastings Tract 5.7. Salinas 3.0. Wehn 4.6.2 Bryte 5.1 Hastings Tract 5.7. Salinas 3.0. Wehn 4.6.2 Frean 5.1. Panche 5.7. Salinas 3.0. Wathor 4.6.5 Kertal 5.1. Panche 5.7. Salinas 3.0. Wathor 4.5.	Soda Springs	35.4	Fairfield	45.2	Auburn	50.6	Esparto	55.8
Ioopa 35.6 Pittsburg 45.4 Corning 50.7 Reverside UC 56.5 Montercy 36 Solvang 45.6 Williams 50.9 Blackweiß Corning 56.5 Montercy 36 Solvang 45.6 Williams 50.9 Blackweiß Corning 56.5 Tracke 36.2 Pajaro 46.1 Palah Creack 51.9 Winchester 57.7 Saina Cruz 36.0 Cornardio 46.1 Palah Creack 51.9 Winchester 57.1 Saina Snorth 36.9 Carnardio 46.1 Housen 51.1 Hasings Tract 57.1 Sainas Walsonville 30.4 Walsonville 31.8 Blackrefield Groanza 57.9 Yieta 30.2 El Dando 46.3 Sante Cruz 51.1 Hatisng Tract 57.1 Outsinnord 30.4 Lodi Norg 46.7 Karana 51.2 Blackrefield Groanza 57.9 Outsinnord 30.4 Lodi Norg 47.4	Tahoe City	35.5	San Jose	45.3	Lindcove	50.6	Warner Springs	56
San Rafiel 35.8 Lower Lake 45.4 Visalia 50.7 McFartad/Kerne 56.6 Mt Shana 36 Gonzales 45.7 Creatine 50.8 Backwells Corner 56.6 Mt Shana 36.2 Pajaron 45.8 Coolinga 50.9 Tonecola East II 56.7 Sana Curz Si.0 Valey of the Moon 46.1 Path Creek 51 Labuella 51.1 Sana Sincon 83.1 Walnot Creek 40.2 Dyra 51.1 Battings 73.7 Sana Sincon 83.1 Walnot Creek 40.2 Dyra 51.1 Battings 73.7 Sana Sincon 83.1 Walnot Creek 40.2 Dyra 51.1 Battings 73.7 Sana Sincon 83.1 Walnot Creek 40.2 Byra 51.1 Battings Giodalina Giodalina 75.9 Sonardia 39.1 Walnot Creek 47.1 Caranas 51.8 Materiadia/Kernella 51.8 Materiadia/Kernella 51.8 Kautri	Ноора	35.6	Pittsburg	45.4	Corning	50.7	Riverside UC	56.4
Memetry 36 Solvarg 45.5 Williams 50.8 Bickwells Correl 50.7 Castroville 36.2 Carreros 45.8 Conling 50.9 Tenceul Earl 55.8 Stafic Turz 36.6 Valley of the Moon 46.1 Winters 51 Lott Hills 57.1 Saina Surco 36.1 Valley of the Moon 46.1 Winters 51 Lott Hills 57.1 Saina Surco 38.1 Walne Creek 46.2 Presson 51.1 Hastings Trett 57.1 Sainas 39.3 Walne Creek 46.2 Presson 51.1 Hastings Trett 57.1 Sainas 39.3 Walne Creek 46.2 Presson 51.2 Bakerrickel Gronnerz 57.9 Oakland Foothilts 39.6 Lodi Wert 46.7 Karland 51.2 Bakerrickel Gronnerz 57.9 Oracle Sain 37.9 Freinon 47.1 Carlanders 51.2 Stration 57.9 Oracla Masin 39.2 </td <td>San Rafael</td> <td>35.8</td> <td>Lower Lake</td> <td>45.4</td> <td>Visalia</td> <td>50.7</td> <td>McFarland/Kern</td> <td>56.5</td>	San Rafael	35.8	Lower Lake	45.4	Visalia	50.7	McFarland/Kern	56.5
MitShara 36 Gonzales 457 Credine 508 Orange Core 567 Castroville 362 Pajaro 451 Putah Creek 509 Trenecula Fast II 557 Truckee 362 Pajaro 451 Putah Creek 51 Lost Hills 571 Salinas North 369 Camarillo 462 Durham 511 Hastings Tract 571 Sain Sincen 381 Wattoowille 462 Durham 511 Hastings Tract 571 Sain Sincen 381 Watto Creek 462 Durham 511 Patterson 572 Yrefa 392 El Dorado 463 Santee 511 Patterson 573 Otakian forothilis 396 Lodi West 467 Kernam 512 Bag Esar faid Greenee 579 Otakian forothilis 396 Martara 471 Frain 513 Bag Esar faid Greenee 579 Orange Core 729 Mararara 711 <td>Monterey</td> <td>36</td> <td>Solvang</td> <td>45.6</td> <td>Williams</td> <td>50.8</td> <td>Blackwells Corner</td> <td>56.6</td>	Monterey	36	Solvang	45.6	Williams	50.8	Blackwells Corner	56.6
Controlle 5.2 Construct 5.4 Construct 5.6 Valley of the Moon 4.6.1 Winters 5.1 Lest Hills 5.7 Sainas Cruz 5.6 Valley of the Moon 4.6.1 Winters 5.1 Lest Hills 5.7 Sainas North 5.6 Camarillo 4.6.1 Winters 5.1 Cathedral City 5.7 Sainas North 8.1 Pleasaton 4.6.2 Proto 5.1 Plastings 7.7 Sainas 9.1 Webh 4.6.2 Prean 5.1 Plastings 7.7 Sainas 9.1 Webh 4.6.2 Prean 5.1 Plastings 7.7 Sainas North 3.9 Webh 4.6.2 Rerman 5.1 Blaskersfield Branza 7.7 Sainas North 3.9 Vala City 4.6.7 Taf 5.1 Blaskersfield Branza 7.5 Scarvalle 3.9 Yala City 4.7.1 Friant 5.1 Blaskersfield Branza 7.5	Mt Shosto	26	Gonzalas	15.0	Crestline	50.8	Orange Cove	56.7
Lastrovine 3-bit Campage 3-bit Commage 3-bit 3	Wit Shasta	26.2	Golizales	45.7	Clestille	50.8		56.7
Trackec 36.2 Pagno 46.1 Puth Creek 31 Winterr 58.1 Salma Cuzz 36.6 Camarilo 46.1 Thousand Oals 31 Carbon 15.1 1 <td>Castroville</td> <td>36.2</td> <td>Carneros</td> <td>45.8</td> <td>Coalinga</td> <td>50.9</td> <td>Temecula East II</td> <td>56.7</td>	Castroville	36.2	Carneros	45.8	Coalinga	50.9	Temecula East II	56.7
Sama Cuz 36.6 Valley of the Moon 40.1 Witters 51 Lost Hills 71 WatsonWile 37.7 Plessanton 40.2 Bryte 51 Carbeardin City 57.1 Salmas 39.1 Webb 40.2 Bryte 51 Carbeardin City 57.1 Salmas 39.1 Webb 40.2 Freeno 51.1 Platterson 57.3 Syrrela 39.2 El Dorado 40.3 Sanite 51.1 Bakersfield/Greenee 57.9 Steravile 39.6 Vata City 40.7 Tart 51.2 Byrelad/Greenee 51.8 Byrelad/Greenee 58.6 Norado 39.8 No Vista 47 Dinuba 51.2 Strafford 58.8 Morto Bay 39.8 No Vista 47.2 Reedley 51.3 Berlinge 59.2 Maryo Grando 40.3 Granmino 47.3 Claremont 51.3 Parbace 60.2 Quincy 40.2 Neorubi	Truckee	36.2	Pajaro	46.1	Putah Creek	51	Winchester	56.8
Salinas North 36.0 Canamillo 46.1 Thousand Oaks 51 Corconn 57.1 San Sincen 38.1 Walnut Creek 46.2 Durhann 51.1 Hasings Tract 57.1 San Sincen 38.1 Webb 46.2 Durhann 51.1 Pancche 57.2 Yreka 39.2 El Dorado 46.3 Santee 51.1 Paterson 57.3 Oakland Foothills 39.6 Lodi West 46.7 Kermani 51.2 Bakersfield/Benama 57.9 Oakland Foothills 39.6 Mortan 47.1 La Grange 51.2 Big Boart Lake 88.6 Norato 39.8 Ko tsta 47.2 Reedley 51.3 Berlage 39.5 Oursy Grang 40.3 Santa Maria 47.4 Clovis 51.4 Keatley 51.3 Berlage 39.5 WareyerVille 40.3 Santa Maria 47.4 Clovis 51.4 Keatleysis 51.6 Accumuta 51.4	Santa Cruz	36.6	Valley of the Moon	46.1	Winters	51	Lost Hills	57.1
Wassorvile 37.7 Pleasaton 40.2 Byte 51 Cathedral City 57.1 Sainsano 30.1 Webb 46.2 Fresno 5.11 Parache 57.1 Sainsano 30.1 Webb 46.2 Fresno 5.11 Patterson 57.3 Portola 39.4 San Diego 46.5 Red Buff 51.1 Bakersfield/General 57.9 Okaland Foothills 30.6 Addivers 46.7 Fart Sainsen 51.2 Bakersfield/General 57.9 Sierraville 30.6 Weartwille 47.1 Frint 51.3 Bakersfield/General 58.6 Long Beach 39.7 Fremont 47.1 Frint 51.3 Beirdige 59.2 Arroyo Grande 40 San Benio 47.2 Willows 51.4 Ketternan 60.2 Parabosom 30.3 Santa Maria 47.2 Wainova 51.4 Ketternan 60.2 Quincy 40.3 Santa Maria	Salinas North	36.9	Camarillo	46.1	Thousand Oaks	51	Corcoran	57.1
sinsmen 38.1 Webb 462 Durham 51.1 Hattings Tract 57.2 Yreka 30.2 El Dorado 46.3 Sance 51.1 Pancoho 57.2 Yreka 30.2 El Dorado 46.3 Sance 51.1 Pancoho 57.2 Oakland Foothilis 30.6 Lodi West 46.7 Rermanil 51.2 Bakersfield/Bonamos 57.9 Oakland Foothilis 30.6 Lodi West 46.7 Rermani 51.2 BigBeart Lake 85.6 Ong Beach 30.7 Fennont 47 Dinuba 51.2 Stardov 85.6 Novato 39.8 Rivitau 47.1 Dinuba 51.2 Stardov 85.8 Morro Bay 39.9 Livernore 47.2 Redley 51.3 Betrigge 39.2 Werverville 40 Canino 47.3 Clarcenont 51.4 FivePoints 60.4 Quincy 40.2 Neada City 47.4 Cloveinlla <td>Watsonville</td> <td>37.7</td> <td>Pleasanton</td> <td>46.2</td> <td>Bryte</td> <td>51</td> <td>Cathedral City</td> <td>57.1</td>	Watsonville	37.7	Pleasanton	46.2	Bryte	51	Cathedral City	57.1
Jahn Shuron 35.1 Wahn Creek 46.2 Journant 1.1 Parache 57.1 Yrdan 39.2 Europas 46.5 Rechard 51.1 Bakeroffeld(Corenke 57.9 Orkhad Fordhilts 39.4 Europas 46.5 Rechard 51.1 Bakeroffeld(Corenke 57.9 Ostraville 39.4 Valo City 46.7 Kafan 51.2 Eak Arrowhead 57.9 Ostraville 39.4 Martona 46.8 Martona 51.2 Eikerthead 56.6 Long Beach 39.7 Fremont 47.1 Frint 51.3 Westhad 58.6 Novato 39.8 Bio Visia 47<1	San Simoan	20.1	Walnut Creak	46.2	Durham	51.1	Heatings Treat	57.1
Salins 39.1 Webb 46.2 Jresno 51.1 Panche 52.2 Yreka 39.4 Sun Diego 46.5 Red Bluff 51.1 Pakersfield/Ronanza 57.9 Ordikad Forbillis 39.4 Lodi West 46.7 Karman 51.2 Bakersfield/Ronanza 57.9 Sterraville 39.8 Yubac City 46.7 Taft 51.2 Bakersfield/Rone 57.9 Sterraville 39.8 McArthur 46.8 Manteca 51.2 Startaford 88.6 Novato 39.8 Miramar 47.1 Frient 51.3 Berlage 39.2 Arroyo Grande 40 San Benito 47.2 Wilows 51.4 Futhonson 39.3 Hay Fork 40.1 Badger 47.2 Clevis 51.4 Futhonson 40.3 Balue Caryon 40.3 Santa Maria 47.4 Chewilla 51.4 Futhonson 60.4 Balue Caryon 40.3 Sontada 47.7	San Simeon	56.1	wallut Creek	40.2	Dumam	51.1	Hastings Tract	37.1
Yreka 392 El Dorado 46.3 Saniee 51.1 Paterson 57.3 Oakland Foothilis 39.6 Lodi West 46.7 Kerman 51.2 Bakersfield/Bonanza 57.9 Oakland Foothilis 39.6 Lodi West 46.7 Kerman 51.2 Bakersfield/Bonanza 57.9 Petaluma 39.4 Mv Kurb 46.8 Manteca 51.2 Bakersfield/Bonanza 58.6 Long Beach 39.7 Fremont 47 Diuba 51.2 Starford 58.6 Morto Bay San Benito 47.2 Weilows 51.3 Clariag 59.9 Marpor Grade 40 Santa Marin 47.4 Clowes 51.4 Santa Claria 61.5 Benicia 40.3 Santa Marin 47.4 Doraville 51.5 Mendora 61.7 Stard Marin 47.4 Oravilla 51.5 Mendora 61.7 Markeeville 40.6 Grovenlad 47.6 Moreol 51.5 <t< td=""><td>Salinas</td><td>39.1</td><td>Webb</td><td>46.2</td><td>Fresno</td><td>51.1</td><td>Panoche</td><td>57.2</td></t<>	Salinas	39.1	Webb	46.2	Fresno	51.1	Panoche	57.2
Portola 39.4 San Diego 46.5 Red Buff 51.1 Bakersfield/Romanza 57.9 Oakland Foothills 39.6 Lodi West 46.7 Tart 51.2 Bakersfield/Romanza 57.9 Sieraville 39.6 Machthur 46.8 Manteca 51.2 Bakersfield/Romanza 57.9 Novato 39.8 Rinvista 47 La Grange 51.2 Lak Arnowhead 58.6 Novato 39.8 Miramar 47.1 Friant 51.3 Westands 58.8 Morro Bay 39.9 Hiramar 47.1 Rerinot 51.3 Beirdge 59.2 Veaverville 40 San Bento 47.2 Reciley 51.3 Beirdge 59.7 Macaverville 40.6 Sonona 47.4 Chowinlia 51.4 Kerteman 60.2 Markerville 40.6 Sonora 47.5 Madrea 51.5 Medota 6.7 Markerville 40.6 Sonora 47.6	Yreka	39.2	El Dorado	46.3	Santee	51.1	Patterson	57.3
Oakland Foothills 39.6 Lodi West 46.7 Formani 51.2 Bakersfield/Greenlee 57.9 Petaluma 39.6 McArthur 46.8 Manteca 51.2 Big Bear Lake 85.6 Long Beach 39.7 Fremont 47 Dinuba 51.2 Starford 85.6 Novato 39.8 Nivita 47 Dinuba 51.2 Starford 85.7 Orrorey Pines 39.8 Miramar 47.1 Friant 51.3 Bridge 59.2 Mary Grande 40 Sante Maria 47.4 Convoits 51.4 Ketterant 60.4 Quincy 40.2 Neuda City 47.4 Convila 51.4 Ketterant 60.6 Benicia 40.6 Sonta Maria 47.4 Convila 51.5 Mendora 61.5 Barbara 40.6 Sonta Maria 47.4 Convila 51.5 Mendora 62.7 Corren Valley Rd 40.6 Sonveland 47.5	Portola	39.4	San Diego	46.5	Red Bluff	51.1	Bakersfield/Bonanza	57.9
sierroville 39.6 Yuba City 46.7 Taft 51.2 Figuear Lake 55.6 Long Beach 39.7 Fromont 47 La Grange 51.2 Figuear Lake 55.6 Novato 39.8 Rio Vista 47 Dumba 51.2 Strafford 55.7 Torry Pines 39.8 Mirmaar 47.1 Friant 51.3 Belridge 59.2 Arroyo Grande 40 Sam Benito 47.2 Roedley 51.3 Degrands 59.9 Wasverville 40 Carmino 47.3 Cloremont 51.4 Firedoman 60.2 Quincy 40.2 Newad City 47.4 Orowill 51.4 Firedoman 61.5 Blue Canyon 40.3 Sama Maria 47.4 Orowilla 51.5 Medota 61.7 Santa Barbara 40.6 Groveland 47.5 Madera 51.5 Independence 62.2 Cloverdale 40.7 Solodad 47.6 Mereced	Oakland Foothills	39.6	Lodi West	46 7	Kerman	51.2	Bakersfield/Greenlee	57.9
Detailum 2.50 Inst. C. Marker, M. 1.1 1.1 <th1.1< th=""> 1.1 <th1.1< th=""> <th1.1< <="" td=""><td>Sierraville</td><td>30.6</td><td>Yuba City</td><td>46.7</td><td>Taft</td><td>51.2</td><td>Twitchell Island</td><td>57.9</td></th1.1<></th1.1<></th1.1<>	Sierraville	30.6	Yuba City	46.7	Taft	51.2	Twitchell Island	57.9
Predunting 35.6 Morthur 46.8 Manteca 51.2 Lake Arrowhead 38.6 Novato 39.8 Riv Vista 47 Dinuba 51.2 Lake Arrowhead 88.6 Novato 39.8 Miramar 47.1 Frinant 51.3 Exatificit 88.7 Morro Bay 39.9 Livermore 47.2 Receley 51.3 Eleridge 59.7 Warevville 40 Camino 47.3 Clorenont 51.4 Kettleman 60.2 Quincy 40.2 Nevada City 47.4 Denair 51.4 Santa Maria 47.4 Denair 51.4 Santa Maria 61.5 Buc Canyon 40.6 Forowanile 47.4 Denair 51.4 Santa Maria 61.6 62.2 Coverdale 40.6 Growanal 47.5 Madera 51.5 Independence 62.2 Coverdale 40.7 Sortead 47.6 Marcea 51.5 Independence 62.2	Detalante	20.0	MaArthur	46.0	Mantaaa	51.2	Die Deen Lelee	59.0
Long Beach 9.7 Fremont 47 La Grange 51.2 Stratford 58.7 Torrey Pines 39.8 Miramar 47.1 Friant 51.3 Bedradge 59.2 Arroyo Grande 40 San Benito 47.2 Reedley 51.3 Eleringe 59.2 Maryo Grande 40 San Benito 47.2 Reedley 51.3 Evertmont 60.2 Quincy 40.1 Badger 47.3 Claremont 51.4 Fiverboins 60.4 Benicia 40.3 Statta Maria 47.4 Chowchilla 51.4 Fiverboins 60.4 Buc Canyon 40.6 Brownsville 47.4 Onoville 51.5 Markacville 40.6 Sonora 47.6 Marced 51.5 Markacville 60.6 61.7 Statta Barbara 40.6 Sonora 47.6 Marced 51.5 Independence 62.2 Cloverdale 40.0 Oakville 47.7 Kingsburg 51.6	Petaluma	39.6	McArthur	46.8	Manteca	51.2	Big Bear Lake	58.6
Novato 39.8 Riv Vista 47 Dinuba 51.2 Stanford 88.7 Moro Bay 39.9 Livernore 47.2 Receley 51.3 Berlige 59.2 Arroyo Grande 40 San Benito 47.2 Willows 51.3 Cuyana 59.7 Warverville 40 Camino 47.3 Cloris 51.4 Kettleman 60.2 Quincy 40.2 Nevada City 47.4 Chowchilla 51.4 Kettleman 60.2 Quincy 40.2 Nevada City 47.4 Chowchilla 51.4 Kettleman 60.2 Buncayon 40.6 Forowana 47.5 Madre 15.1 Mendota 61.7 Stata Barbara 40.6 Sonora 47.6 Marce 15.1.5 Independence 62.2 Cloverdale 40.7 Soledal 47.7 Kingsburg 51.6 Palmola 66.2 De Laveaga 40.8 Colfax 47.7 Alyaugh 51.6 Victorvile	Long Beach	39.7	Fremont	47	La Grange	51.2	Lake Arrowhead	58.6
Torey Pines 39.8 Miramar 47.1 Friant 51.3 Westlands 58.8 Morro Bay 39.9 Livermore 47.2 Redley 51.3 Beirlóge 59.2 Arnyo Grande 40 San Benico 47.3 Claremont 51.3 Pearbosom 59.9 Hay Fork 40.1 Badger 47.3 Claremont 51.4 Kettleman 60.2 Quincy 40.2 Nexad City 47.4 Chowchilla 51.4 FirePoints 60.4 Binc Canyon 40.5 Brownsville 47.4 Oroville 51.5 Medota 61.7 Markkeville 40.6 Pornona 47.5 Madra 51.5 Independence 65.2 Cloverdale 40.0 Sonca 47.6 Merced 51.5 Independence 65.2 Cloverdale 40.0 Soledad 47.7 Kanona 51.6 La Quinta 66.2 Lopoland 40.9 Goresavalley 48 Chico </td <td>Novato</td> <td>39.8</td> <td>Rio Vista</td> <td>47</td> <td>Dinuba</td> <td>51.2</td> <td>Stratford</td> <td>58.7</td>	Novato	39.8	Rio Vista	47	Dinuba	51.2	Stratford	58.7
Morro Bay 39.9 Livermore 47.2 Readley \$1.3 Berlidge \$92 May averville 40 Sam Benito 47.3 Claremont \$1.3 Pearblossom \$99 Hay Fork 40.1 Badger 47.3 Clavis \$1.4 FivePoints 60.4 Quincy 40.2 Nevada City 47.4 Chowchilla \$1.4 FivePoints 60.4 Blue Caryon 40.5 Brownsville 47.4 Droville \$1.5 Markaceville 61.5 Markleeville 40.6 Groweland 47.5 Madera \$1.5 Indurers 62.7 Green Valley Rd 40.6 Goroveland 47.6 Marced 51.5 Indurers 62.2 Cloverdale 40.7 Soledad 47.7 Kingsburg 51.6 Indurers 62.2 Cloverdale 40.9 Gourtimd 48 Woodland 51.6 Varinters 62.2 Healdsburg 40.9 Gourtimd 48.1	Torrey Pines	39.8	Miramar	47.1	Friant	51.3	Westlands	58.8
Arroyo Grande 40 San Benito 47.2 Willows 51.3 Cuyana 59.7 Weaverville 40 Camino 47.3 Claremont 51.3 Pearblossom 59.9 Quircy 40.2 Nevada City 47.4 Chovchilla 51.4 Kettleman 60.2 Quircy 40.2 Nevada City 47.4 Chovchilla 51.4 FreePoints 60.4 Benicia 40.3 Santi Maria 47.4 Chovchilla 51.5 Mendota 61.5 Buc Canyon 40.6 Fronona 47.5 Madrea 51.5 Caruthers 62.7 Creen Valley Rd 40.6 Sonora 47.6 Merced 51.5 Independence 63.2 Cloveralia 40.7 Soledad 47.7 Kingsburg 51.6 Lopendence 63.2 Cloveralia 40.9 Courtand 48 Woodland 51.6 Lopendence 63.2 Ukiah 40.9 Goleta 48.1 Lom	Morro Bay	39.9	Livermore	47.2	Reedley	51.3	Belridge	59.2
Antiyo Unance 40 Sain Definition 47.2 Winkws 31.3 Pearblossom 59.9 Hay Fork 40.1 Badger 47.3 Claremont 51.3 Pearblossom 59.9 Hay Fork 40.1 Badger 47.3 Claviss 51.4 FirePoints 60.4 Bencian 40.3 Santa Maria 47.4 Chowchilla 51.5 Parin 61.5 Markbeville 40.6 Brownsville 47.4 Groville 51.5 Markbeville 61.5 Santa Barbar 40.6 Gorovalnd 47.5 Madera 51.5 Claruthers 62.7 Soledad 47.7 Kingsburg 51.6 Palmdale 62.2 Cloverdale 60.2 Coliza 48.1 Lemoore 51.6 LaQuinta 66.2 Halabburg 40.9 Goras Valley 48 Woodland 51.6 Lawer Haivee Res. 67.6 Ukah 40.9 Gras Valley 48.3 Butanore 51.7 Palo Verde	Arrous Granda	40	San Danita	47.2	Willows	51.2	Currence	50.7
Weaverulie 40 Cammo 47.3 Claremont 51.4 Fixetheman 59.9 Quincy 40.2 Nevada City 47.3 Clovis 51.4 Kictheman 60.4 Benicia 40.3 Satat Maria 47.4 Chowchilla 51.4 Kictheman 60.4 Buc Canyon 40.5 Brownsville 47.4 Oroville 51.5 Mendota 61.5 Markleeville 40.6 Pomona 47.5 Hanford 51.5 Indendota 61.5 Green Valley Rd 40.6 Soledal 47.7 Kingsburg 51.6 Independence 62.2 Clovertale 40.7 Soledal 47.7 Ramona 51.6 La Quinta 66.2 Healdsburg 40.8 Colfax 47.9 Alpaugh 51.6 Independence 62.2 Healdsburg 40.9 Goleta 48.1 Lemoore 51.7 Ripley 67.8 Ukiah 40.9 Golata 48.1 Lemoore <td>Alloyo Glande</td> <td>40</td> <td>San Bennto</td> <td>47.2</td> <td>willows</td> <td>51.5</td> <td>Cuyania</td> <td>39.7</td>	Alloyo Glande	40	San Bennto	47.2	willows	51.5	Cuyania	39.7
Hay Fork 40.1 Badger 47.3 Clovis 5.14 Kettleman 60.2 Quincy 40.2 Nevada City 47.4 Chowehilla 5.14 FireVoints 60.4 Bencian 40.3 Santa Maria 47.4 Donville 51.5 Firu 61.5 Markleeville 40.6 Groveland 47.5 Marced 51.5 Markleeville 62.7 Green Valley Rd 40.6 Groveland 47.5 Marced 51.5 Independence 65.2 Cloverdale 40.7 Soledad 47.7 Kingsburg 51.6 Patindale 66.2 De Laveaga 40.8 Colfax 47.9 Alpaugh 51.6 Indevendence 65.2 Ukiah 40.9 Grass Valley 48 Chico 51.7 Ripley Were Res. 67.6 Ukiah 40.9 Goleta 48.1 Lemoore 51.7 Biol Verde II 68.2 Guadalupe 41.1 Santa Ana 48.2 Burbank 51.7 Biol Verde II 68.2 Downieville 41.3 </td <td>Weaverville</td> <td>40</td> <td>Camino</td> <td>47.3</td> <td>Claremont</td> <td>51.3</td> <td>Pearblossom</td> <td>59.9</td>	Weaverville	40	Camino	47.3	Claremont	51.3	Pearblossom	59.9
Quincy 40.2 Nevada City 47.4 Chowchilla 51.4 Fixed State 60.4 Benicia 40.3 Santa Maria 47.4 Onemair 51.4 Sinta Clarita 61.5 Blac Canyon 40.5 Brownsville 47.4 Orovilla 51.5 Piru 61.5 Santa Barbara 40.6 Groveland 47.5 Madera 51.5 Caruthers 62.7 Cloverdale 40.7 Soledad 47.7 Kingsburg 51.6 Falmdale 66.2 Cloverdale 40.7 Soledad 47.7 Kingsburg 51.6 Falmdale 66.2 Cloverdale 40.9 Coleta 481 Lemoore 51.7 Ripley 67.8 Burney 40.9 Goleta 48.1 Lemoore 51.7 Riple Verdell 68.3 Compoc 41.1 Banta Ana 48.2 Burbank 51.7 Ripd Verdell 68.3 Compoc 41.1 Banta Ana 48.2 Burbank<	Hay Fork	40.1	Badger	47.3	Clovis	51.4	Kettleman	60.2
Bencian 40.3 Santa Maria 47.4 Denair 51.4 Santa Clarita 61.5 Markleeville 40.6 Brownswille 47.4 Oroville 51.5 Priv 61.5 Markleeville 40.6 Groveland 47.5 Madera 51.5 Caruthers 62.7 Green Valley Rd 40.6 Groveland 47.7 Kngsburg 51.6 Falmdale 66.2 Cloverdale 40.7 Soledad 47.7 Kngsburg 51.6 La Quinta 66.2 Healdsburg 40.8 Colfax 47.9 Alpaugh 51.6 Lower Haivee Res. 67.6 Ukiah 40.9 Grass Valley 48 Chico 51.7 Riple Verde I 68.2 Lompoc 41.1 Santa Ana 48.2 Burbank 51.7 Bishop 68.3 Lompoc 41.1 Santa Ana 48.2 Burbank 51.7 Bishop 68.4 Downieville 41.3 Susta Valley 48.3 Bartingerille 51.9 Lacaster 71.1 Yosemite Village <	Quincy	40.2	Nevada City	47.4	Chowchilla	51.4	FivePoints	60.4
Blue Canyon 40.5 Brownsville 47.4 Oroville 51.5 Piru 61.5 Markleeville 40.6 Pomona 47.5 Hanford 51.5 Mendota 61.5 Markleeville 40.6 Groevland 47.5 Markord 51.5 Mendota 61.5 Green Valley Rd 40.6 Solcadd 47.7 Kingsburg 51.6 Laquinta 66.2 Cloverdale 40.7 Solcadd 47.7 Ramona 51.6 Laquinta 66.2 HealdSburg 40.8 Colfax 47.9 Alpaugh 51.6 LaQuinta 66.2 HealdSburg 40.9 Goteta 48.1 Lemoore 51.7 Palo Verde II 68.2 Guadalupe 41.1 Santa Ana 48.2 Burbank 51.9 Calpatria/Mulberry 70.7 Yosemic Village 41.4 Sauisun Valley 48.3 Gridley 51.9 Calpatria/Mulberry 70.7 Oakland 41.8 Sana Andreas	Benicia	40.3	Santa Maria	47.4	Denair	514	Santa Clarita	61.5
Duck canyon 40.5 Drownsyme 47.5 Orona 47.5 Hanford 51.5 Link 61.7 Santa Barbara 40.6 Groveland 47.5 Madera 51.5 Caruthers 62.7 Green Valley Rd 40.6 Sonora 47.6 Marceed 51.5 Palmdale 66.2 Cloverdale 40.7 Soledad 47.7 Kingsburg 51.6 Palmdale 66.2 De Laveaga 40.8 Colfax 47.9 Alpaugh 51.6 Victorville 66.2 Healdsburg 40.8 Courland 48 Woodland 51.6 Victorville 67.8 Burney 40.9 Gross Valley 48.1 Lemoore 51.7 Palo Verde II 68.3 Lompoc 41.1 Braita Ana 48.2 Burningville 51.8 Oasis 68.4 Downieville 41.3 Suisun Valley 48.3 Gridley 51.9 Laipatria/Mulberry 70.7 Yosemite Village 41.4 </td <td>Plue Convon</td> <td>40.5</td> <td>Broumsville</td> <td>47.4</td> <td>Oroville</td> <td>51.5</td> <td>Piro</td> <td>61.5</td>	Plue Convon	40.5	Broumsville	47.4	Oroville	51.5	Piro	61.5
Markeevile 400 Growland 47.5 Hathord 51.5 Mendota 61.7 Green Valley Rd 40.6 Groveland 47.6 Merced 51.5 Independence 65.2 Cloverdale 40.7 Soleclad 47.7 Ramona 51.6 La Quinta 66.2 De Laveaga 40.8 Oakville 47.7 Ramona 51.6 La Quinta 66.2 De Laveaga 40.8 Colfax 47.9 Alpaugh 51.6 Lower Hairwee Res. 67.6 Ukiah 40.9 Goleta 48.1 Lemoore 51.7 Ripley 67.8 Burney 40.9 Goleta 48.1 Burnhay 51.7 Ripley 68.3 Lompoc 41.1 Santa Ana 48.2 Burhay 51.9 Calipatria/Mulberry 70.7 Yosemite Village 41.4 Isabel Dam 48.4 Arvin 51.9 Marginginginginginginginginginginginginging	Blue Callyon	40.5	BIOWIISVIIIe	47.4		51.5	inu Mala	01.5
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Green Valley Rd 40 6 Sonora 47.6 Merced 51.5 Independence 65.2 Cloverdale 40.7 Soledad 47.7 Kingsburg 51.6 Palmadale 66.2 De Laveaga 40.8 Oakville 47.7 Ramona 51.6 La Quinta 66.2 Healdsburg 40.9 Courland 48 Woodland 51.6 Low Haiwee Res. 67.6 Ukiah 40.9 Goleta 48.1 Lemoore 51.7 Palo Verde II 68.3 Burney 40.9 Goleta 48.3 Burningville 51.8 Calipatria/Mulberry 70.7 Yosemite Village 41.1 Santa Nan 48.2 Burbank 51.9 Calipatria/Mulberry 70.7 Yosemite Village 41.8 Isau Valley 48.3 Gorido Saita Sona 71.1 Martinzz 41.8 Santa Nosa 48.7 Lincoln 51.9 Palor Springs 71.1 Martinzz 41.8 Santa Nosa 42.3 </td <td>Santa Barbara</td> <td>40.6</td> <td>Groveland</td> <td>47.5</td> <td>Madera</td> <td>51.5</td> <td>Caruthers</td> <td>62.7</td>	Santa Barbara	40.6	Groveland	47.5	Madera	51.5	Caruthers	62.7
	Green Valley Rd	40.6	Sonora	47.6	Merced	51.5	Independence	65.2
De Laveaga 40.8 Oakville 47.7 Ramona 51.6 La Quinta 662 Healdsburg 40.8 Colfax 47.9 Alpaugh 51.6 La Quinta 662 Hopland 40.9 Courtland 48 Woodland 51.6 Low Haiwee Res. 67.6 Ukiah 40.9 Goleta 48.1 Lemoore 51.7 Ripley 67.8 Burney 40.9 Goleta 48.1 Lemoore 51.7 Palo Verde II 68.3 Lompoe 41.1 Santa Ana 48.2 Burbank 51.7 Balo Verde II 68.3 Downieville 41.3 Suitan Valley 48.3 Gridley 51.9 Calipatria/Mulberry 70.7 Yosemite Village 41.4 Isabella Dam 48.4 Arvin 51.9 Mecca 70.8 Oakiand 41.8 Santa Yraz 48.5 Saaramento 51.9 Lacaster 71.1 Fall River Mills 41.8 Shana Andreas 48.8	Cloverdale	40.7	Soledad	47 7	Kingsburg	51.6	Palmdale	66.2
De La regula France France France De La regula Observation Healdsburg 40.8 Colfax 47.7 Alpaugh 51.6 Victorville 65.2 Hopland 40.9 Grass Valley 48 Woodland 51.6 Victorville 66.2 Burney 40.9 Goleta 48.1 Lemoore 51.7 Palo Verde II 68.2 Guadalupe 41.1 Stanta Ana 48.2 Burbank 51.9 Oasis 68.3 Lompoc 41.1 Istentwood 48.3 Burtingville 51.9 Oasis 68.3 Convieville 41.3 Suisun Valley 48.3 Gridley 51.9 Calipatria/Mulberry 70.7 Yosemite Village 41.4 Isadel Dam 48.4 Arvin 51.9 Lancaster 71.1 Marinez 41.8 Santa Ynez 48.7 Lincoln 51.9 Palm Springs 71.4 Marinez 41.8 Shantandoah Valley 48.8 Daelano	De Laveaga	40.8	Oakville	47.7	Ramona	51.6	La Quinta	66.2
reatisburg 40.0 Contraland 47.9 Aphaugin 51.6 VictorVitie 60.2 Hopland 40.9 Gorass Valley 48 Woodland 51.6 Lower Haiwee Res. 67.6 Burney 40.9 Goleta 48.1 Lemoore 51.7 Palo Verde II 68.2 Guadalupe 41.1 Santa Ana 48.2 Burbank 51.7 Palo Verde II 68.3 Lompoc 41.1 Brentwood 48.3 Buntingville 51.8 Oasis 68.4 Downieville 41.3 Siusun Valley 48.3 Gridley 51.9 Calipatria/Mulberry 70.7 Yosemite Village 41.4 Isabella Dam 48.4 Arvin 51.9 Mecca 70.8 Qakland 41.8 Tracy 48.5 Sacramento 51.9 Palm Springs 71.1 Fall River Mills 41.8 Shanandoah Valley 48.8 Burlior 52 Racho Mirage 71.4 Gilenburn 42.1 Coulterville 48.8 Barlier 52.1 Yuma 71.6 <	De Laveaga	40.0	Calfar	47.0	Alexand	51.0	La Quinta	66.2
	Healdsburg	40.8	Collax	47.9	Alpaugn	51.6	Victorville	66.2
Utiah 40.9 Grass Valley 48 Chico 51.7 Ripley 67.8 Burney 40.9 Goleta 48.1 Lemoore 51.7 Palo Verde II 68.2 Guadalupe 41.1 Santa Ana 48.2 Burbank 51.7 Palo Verde II 68.3 Lompoc 41.1 Brentwood 48.3 Burtingville 51.9 Calipatria/Mulberry 70.7 Yosemite Village 41.4 Isabella Dam 48.4 Arvin 51.9 Calipatria/Mulberry 70.7 Yosemite Village 41.8 Santa Ynez 48.7 Lincoln 51.9 Palm Springs 71.1 Martinez 41.8 Santa Ynez 48.7 Lincoln 51.9 Palm Springs 71.1 Fall River Mills 41.8 Shana Andeas 48.8 Partier 52 Westmoreland 71.4 Santa Kosa 42.1 Coulterville 48.8 Baleno 52 Methoda 71.6 Glenburn 42.1 Coulterville 48.8 San Fernando 52 Metoland 71.6	Hopland	40.9	Courtland	48	Woodland	51.6	Lower Haiwee Res.	67.6
Burney40.9Goleta48.1Lemoore51.7Palo Verde II68.2Guadalupe41.1Santa Ana48.2Burbank51.7Bishop68.3Lompoc41.1Brentwood48.3Buntingville51.8Oasis68.4Downieville41.3Suisun Valley48.3Gridley51.9Calipatria/Mulberry70.7Yosemite Village41.4Isabella Dam48.4Arvin51.9Mecca70.8Oakland41.8Tracy48.5Sacramento51.9Lancaster71.1Martinez41.8Santa Ynez48.7Lincoln51.9Palm Springs71.1Fall River Mills41.8Sanandoah Valley48.8Parier52Westmoreland71.4Santa Rosa42San Andreas48.8Buttonvillow52Blythe71.4Glenburn42.1Coulterville48.8Delano52Meloland71.6Ackeport42.8Mariposa49Orland52.1Yuma71.6Lakeport42.8Mariposa49Nipomo52.1Balton Sea North71.7Los Gatos42.9Paso Robles49Nipomo52.1Bartow NE71.7Los Gatos42.9San Ardo49Nipomo52.1Bartow NE71.7Los Gatos42.9Paso Robles49Nipomo52.1Bartow NE71.7Los Gatos42.9MacDoel49 <td>Ukiah</td> <td>40.9</td> <td>Grass Valley</td> <td>48</td> <td>Chico</td> <td>51.7</td> <td>Ripley</td> <td>67.8</td>	Ukiah	40.9	Grass Valley	48	Chico	51.7	Ripley	67.8
Guadalupe 41.1 Santa Ana 48.2 Burbank 51.7 Bishop 68.3 Lompoc 41.1 Brentwood 48.3 Buntingville 51.8 Oasis 68.4 Downieville 41.3 Suisun Valley 48.3 Gridley 51.9 Calipatria/Mulberry 70.7 Yosemite Village 41.4 Isabella Dam 48.4 Arvin 51.9 Lancaster 71.1 Matrinez 41.8 Santa Ynez 48.7 Lincoln 51.9 Palm Springs 71.1 Fall River Mills 41.8 Shanandoah Valley 48.8 Partier 52 Westmoreland 71.4 Santa Rosa 42 San Andreas 48.8 Dattonwillow 52 Method 71.6 Glenburn 42.1 Coulterville 48.8 San Fernando 52 Methodad 71.6 Redondo Beach 42.6 Jacksnon 48.9 Orland 52.1 Palm Deser 71.6 Redoood City 42.8 San Ardo	Burney	40.9	Goleta	48.1	Lemoore	51.7	Palo Verde II	68.2
Lompoc 41.1 Brentwood 48.3 Buntingville 51.8 Oasis 68.4 Downieville 41.3 Suisun Valley 48.3 Gridley 51.9 Calipatria/Mulberry 70.7 Yosemite Vilage 41.4 Isabella Dam 48.4 Arvin 51.9 Lancaster 70.8 Oakland 41.8 Tracy 48.5 Sacramento 51.9 Lancaster 71.1 Martinez 41.8 Stanandoah Valley 48.8 Patrier 52 Westmoreland 71.4 Santa Rosa 42 San Andreas 48.8 Delano 52 Blythe 71.4 Glenburn 42.1 Coulterville 48.8 Delano 52 Rachoo Mirage 71.4 Oxnard 42.3 Redding 48.8 Safter 52.1 Yuma 71.6 Redonod Beach 42.6 Jackson 49.9 Orland 52.1 Yuma 71.6 Redonod City 42.8 San Ardo 49 <td< td=""><td>Guadalupe</td><td>41.1</td><td>Santa Ana</td><td>48.2</td><td>Burbank</td><td>51.7</td><td>Bishop</td><td>68.3</td></td<>	Guadalupe	41.1	Santa Ana	48.2	Burbank	51.7	Bishop	68.3
	Lompoc	41.1	Brentwood	18.3	Buntingville	51.8	Oseie	68.4
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Sina Kosa42Sin Functions40.5Delano52DifferGlenburn42.1Coulterville48.8Delano52Macho Mirage71.4Oxnard42.3Redding48.8San Fernando52Meloland71.6Lakeport42.8Mariposa49Shafter52.1Yuma71.6Redwood City42.8San Ardo49Nipomo52.1Barstow NE71.7Oceanside42.9Paso Robles49Dixon52.1Barstow NE71.7Cos Gatos42.9San Miguel49Porterville52.1Inyokern72.4Tule lake FS42.9MacDoel49Roseville52.2Thermal72.8Black Point43Sanel Valley49.1Pasadena52.3China Lake74.8Point San Pedro43Long Valley49.1Bakersfield52.4Lucerne Valley75.3Bridgeport43San Juan Valley49.1Davis52.5Newberry Springs78.2Modoc/Alturas43.2Betteravia49.1Arroyo Seco52.6Death Valley Jet79.1Laguna Beach43.2Sisquoc49.2King City-Oasis Rd.52.7El Centro81.7Concord43.4Newman49.3Colusa52.8Indio83.9Orthura43.5Grapevine49.5Zamora52.8Indio83.9Gilroy43.6Greenfield49.	Santa Rosa	12	San Andreas	18.8	Buttonwillow	52	Blythe	71.4
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