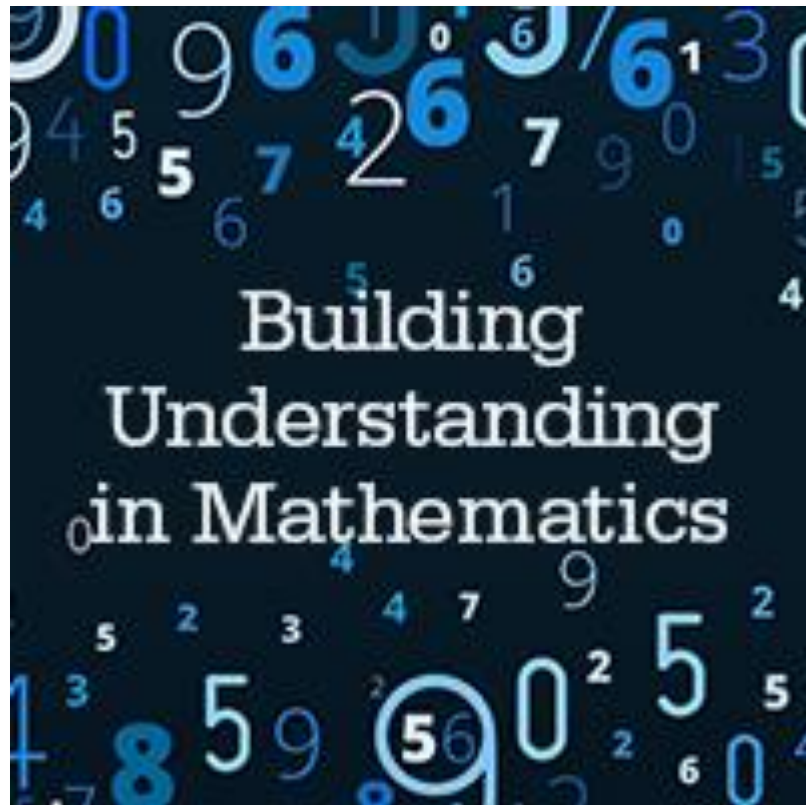


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45 Ways to Support Struggling Readers: A School-Wide Approach	04/18/17	View the Recording		11/05/19	60	CE Quiz	11/06/19	100	1	CE Cert
The Wonderful World of Words: Help Struggling Readers Connect with the World of Words and Reading	01/17/19	View the Recording		11/03/19	60	CE Quiz	11/05/19	75	1	CE Cert
Creating Fun AND Instructive Learning Centers	09/24/19	View the Recording	CC	10/20/19	59	CE Quiz	10/22/19	75	1	CE Cert
EdTech for Students with Autism: Curriculum, IEPs, and Data to Ensure Success	09/27/19	View the Recording	CC	09/29/19	60					
My Class is Out of Control: What is My First Move?	08/21/18	View the Recording		09/22/19	58					
Engagement Strategies for Students with Attention Challenges: Lower Anxiety and Raise Confidence	09/12/19	View the Recording	CC	09/19/19	57					
How STEAM Activities Prepare Students for the Global Economy	08/21/19	View the Recording	CC	09/16/19	58					



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Denise Singleton

Denise Singleton has over 25 years of experience as a mathematics educator and educational content marketer. Her conversational style and enthusiasm will engage and entertain you!

Follow Denise on Twitter [@DSingletonMath](https://twitter.com/DSingletonMath).



Robert Kaplinsky

Robert Kaplinsky is an educator, presenter, and co-author of HMH AGA and Into AGA. He has been an educator since 2003 as a classroom teacher, teacher specialist for Downey Unified School District in CA, instructor for the University of California, Los Angeles (UCLA), and presenter at conferences around the world. He co-founded the website Open Middle, has been published in Edutopia and Education Week, is the author of Open Middle Math: Problems That Unlock Student Thinking, and created the #ObserveMe movement.

Follow Robert on Twitter [@robertkaplinsky](https://twitter.com/robertkaplinsky).

WHY WE SHOULD RECONSIDER (AND WHAT WE SHOULD BE DOING INSTEAD)

ROBERT KAPLINSKY

robert@robertkaplinsky.com


robertkaplinsky.com

@robertkaplinsky

WANT THE RESOURCES?

Enter your information at:

robertkaplinsky.com/words



Why do we
have word
problems?

MILNE'S
INDUCTIVE ALGEBRA

Milne's Inductive Algebra © 1881

183. DIRECTIONS FOR SOLVING.—*Represent one of the unknown quantities by x , and from the conditions of the problem find an expression for each of the other quantities given.*

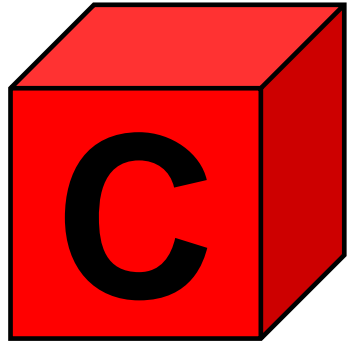
Find from the problem two expressions that are equal, and express them as an equation.

Solve the equation.

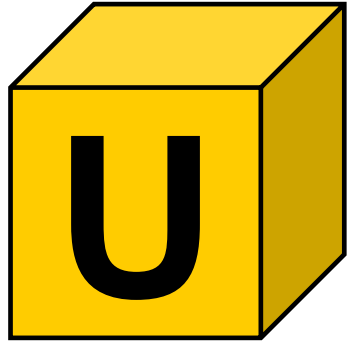
51. When the half of a certain number is added to the number, the sum is as much more than 60 as the number is less than 65. What is the number? *50 ans*

52. The difference between two numbers is 8, and the quotient arising from dividing the greater by the less is 3. What are the numbers?

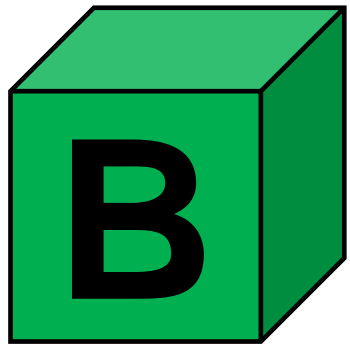
53. A man left one-half of his property to his wife, one-sixth to his children, a twelfth to his brother, and the rest, which was \$600, to charitable purposes. How much property had he?



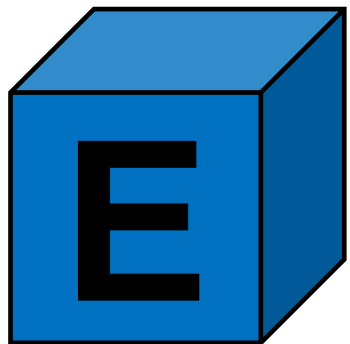
CIRCLE the numbers



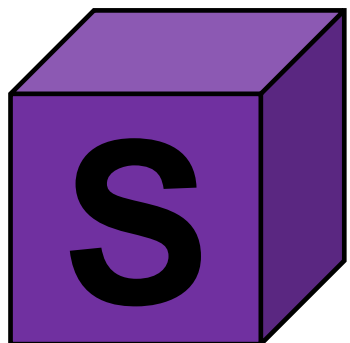
UNDERLINE the question



BOX the key words



~~ELIMINATE~~ info not needed



SOLVE and check ✓

In a class of 30 children, there are 3 girls for every 2 boys. How many girls are there altogether?

Source: Marilyn Burns

There are 125
sheep and 5 dogs
in a flock. How old
is the shepherd?

Making sense: 8

Not making sense: 24

$$\begin{array}{r} 5 \sqrt{125} \\ \underline{10} \\ 25 \\ \underline{25} \\ 0 \end{array}$$



Real-World Link



Common Core
State Standards

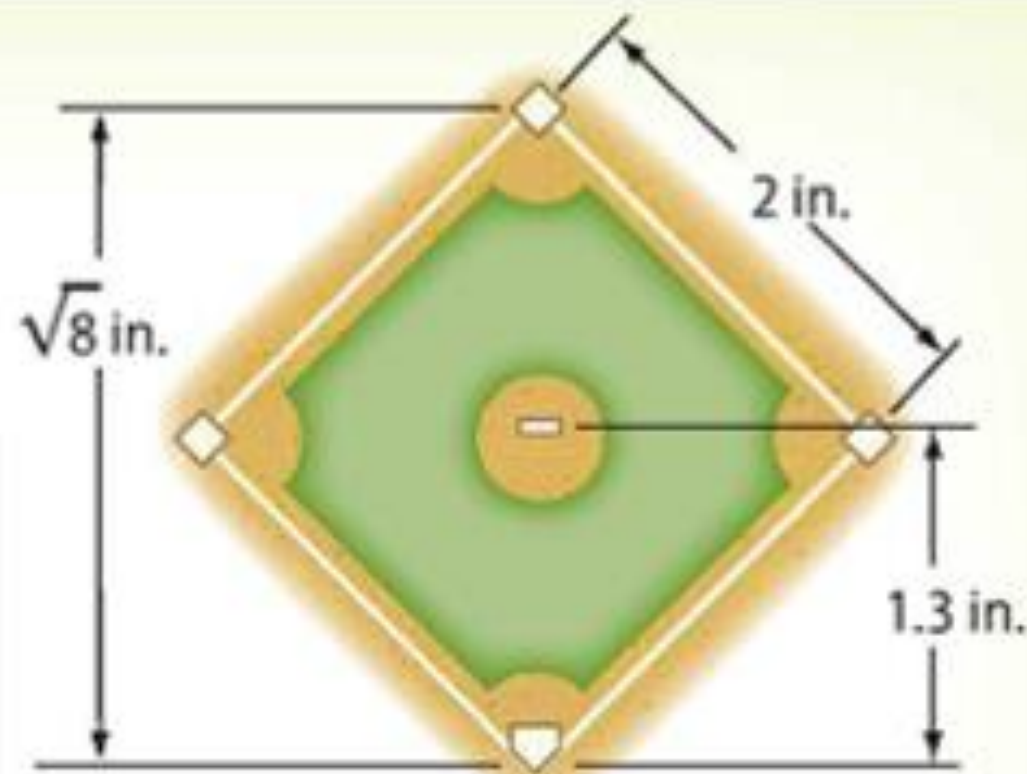
Content Standards

8.NS.1, 8.NS.2, 8.EE.2

Mathematical Practices

1, 3, 4, 6

Sports Major League baseball has rules for the dimensions of the baseball diamond. A model of the diamond is shown.



1. On the model, the distance from the pitching mound to home plate is 1.3 inches. Is 1.3 a rational number? Explain.

2. On the model, the distance from first base to second base is 2 inches. Is 2 a rational number? Explain.

3. The distance from home plate to second base is $\sqrt{8}$ inches. Using a calculator, find $\sqrt{8}$. Does it appear to terminate or repeat?





Real-World Link



Common Core State Standards

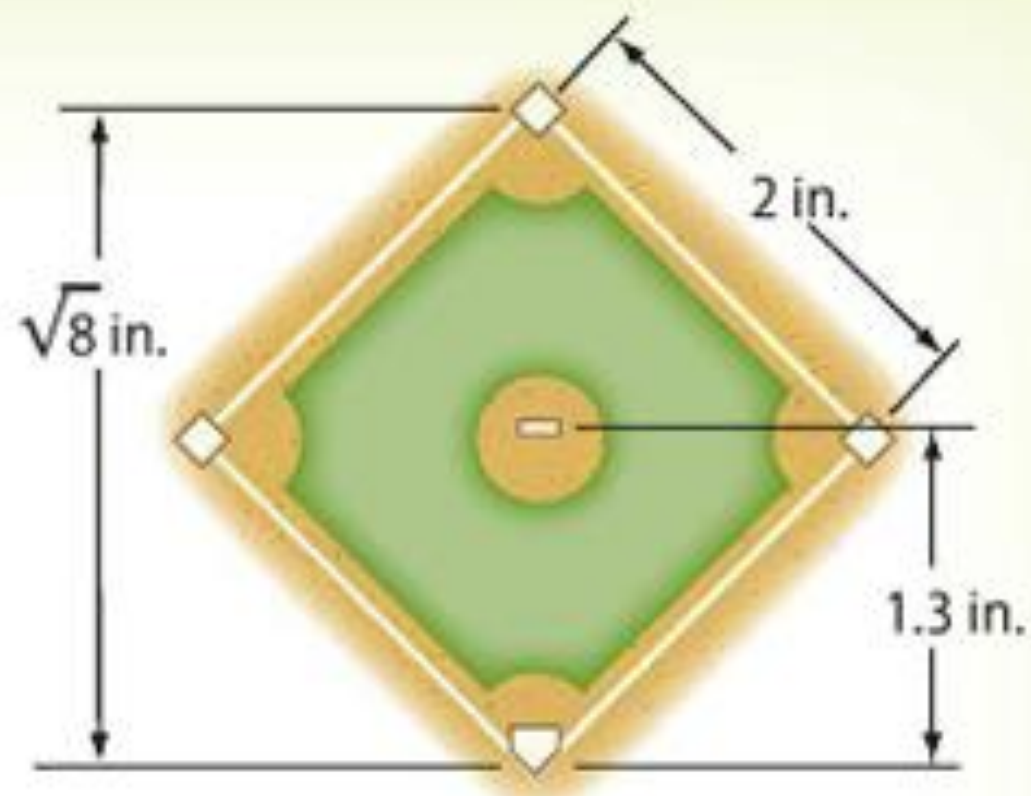
Content Standards

8.NS.1, 8.NS.2, 8.EE.2

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Doritos® & Cheetos® Mix **20** Singles

DORITOS® Nacho Cheese Flavored Tortilla Chips 1 OZ. EA. DORITOS® COOL RANCH® Flavored Tortilla Chips 1 OZ. EA. CHEETOS® Puffs Cheese Flavored Snacks 7/8 OZ. EA. CHEETOS® Crunchy Cheese Flavored Snacks 1 OZ. EA.

20 INDIVIDUAL BAGS: 7/8 OZ. EACH, 1 OZ. EACH, TOTAL NET WT. 19 5/8 OZ. (1 LB. 3 5/8 OZ.) 556.3 g ⚠ WARNING: PREVENT ENTANGLEMENT AND STRANGULATION. KEEP THIS BAG AWAY FROM YOUNG CHILDREN. IT IS NOT A TOY.

THINKING TIME

- Why did many of us expect there to be five of each?
- Why was it not five of each?
- How might they decide on this combination?



Classic Mix

20
Singles

LAY'S® Classic Potato Chips. DORITOS® Nacho Cheese Flavored Tortilla Chips. DORITOS® COOL RANCH® Flavored Tortilla Chips. CHEETOS® Crunchy Cheese Flavored Snacks. SUNCHIPS® Original Multigrain Snacks. FRITOS® Original Corn Chips (All 1 OZ. Each)

20 INDIVIDUAL BAGS: 1 OZ. EACH, TOTAL NET WT. 20 OZ. (1 LB. 4 OZ.) 567 g

⚠ WARNING: PREVENT ENTANGLEMENT AND STRANGULATION. KEEP THIS BAG AWAY FROM YOUNG CHILDREN. IT IS NOT A TOY.

GOALS

HOW DO WE MAKE SENSE OF MATH MODELING?

IS IT JUST ANSWERING QUESTIONS?

HOW IS MATH MODELING USED IN REAL LIFE?

HOW DO WE HELP OUR STUDENTS IMPROVE?

WHERE CAN WE FIND MORE RESOURCES?



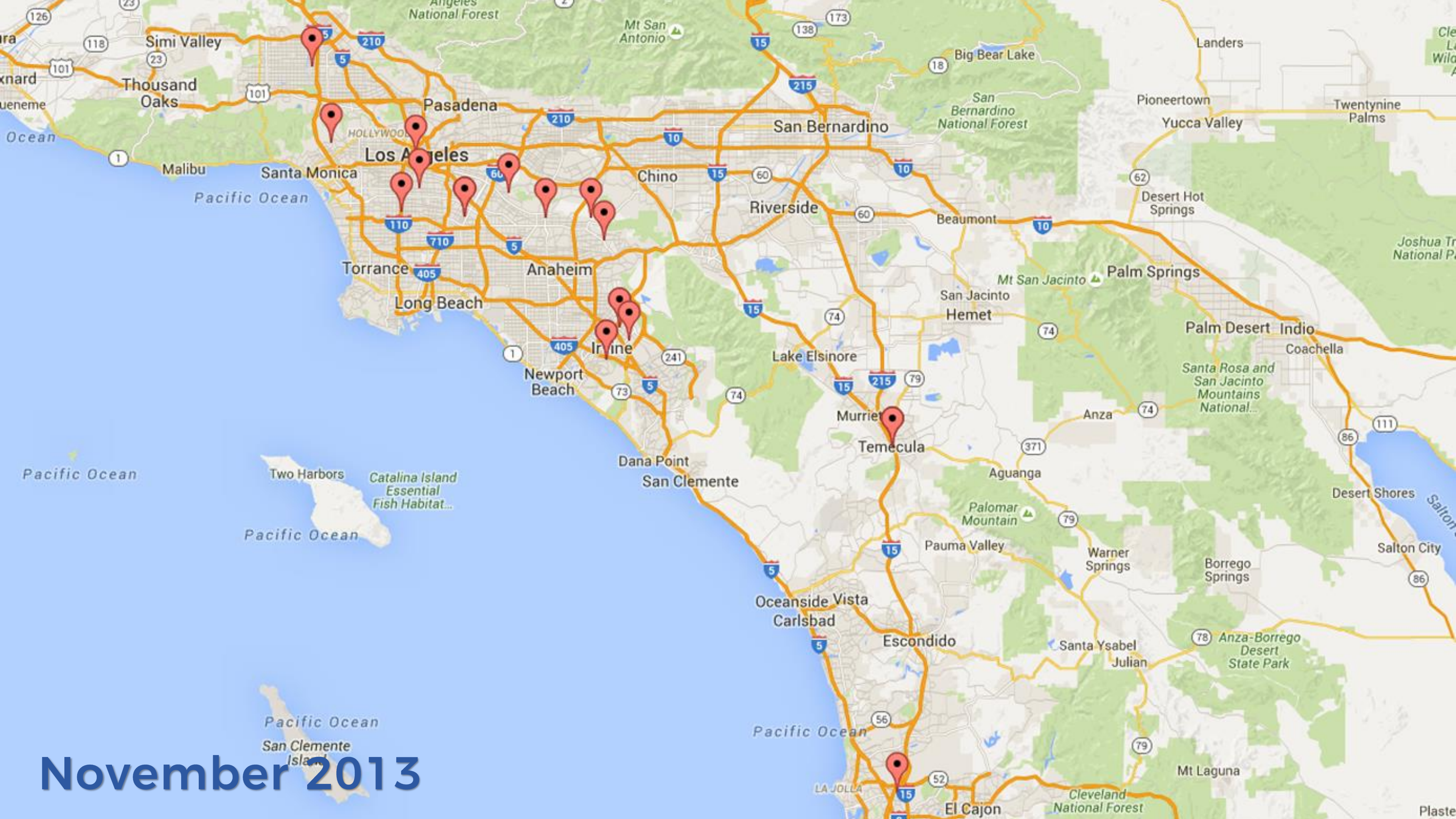




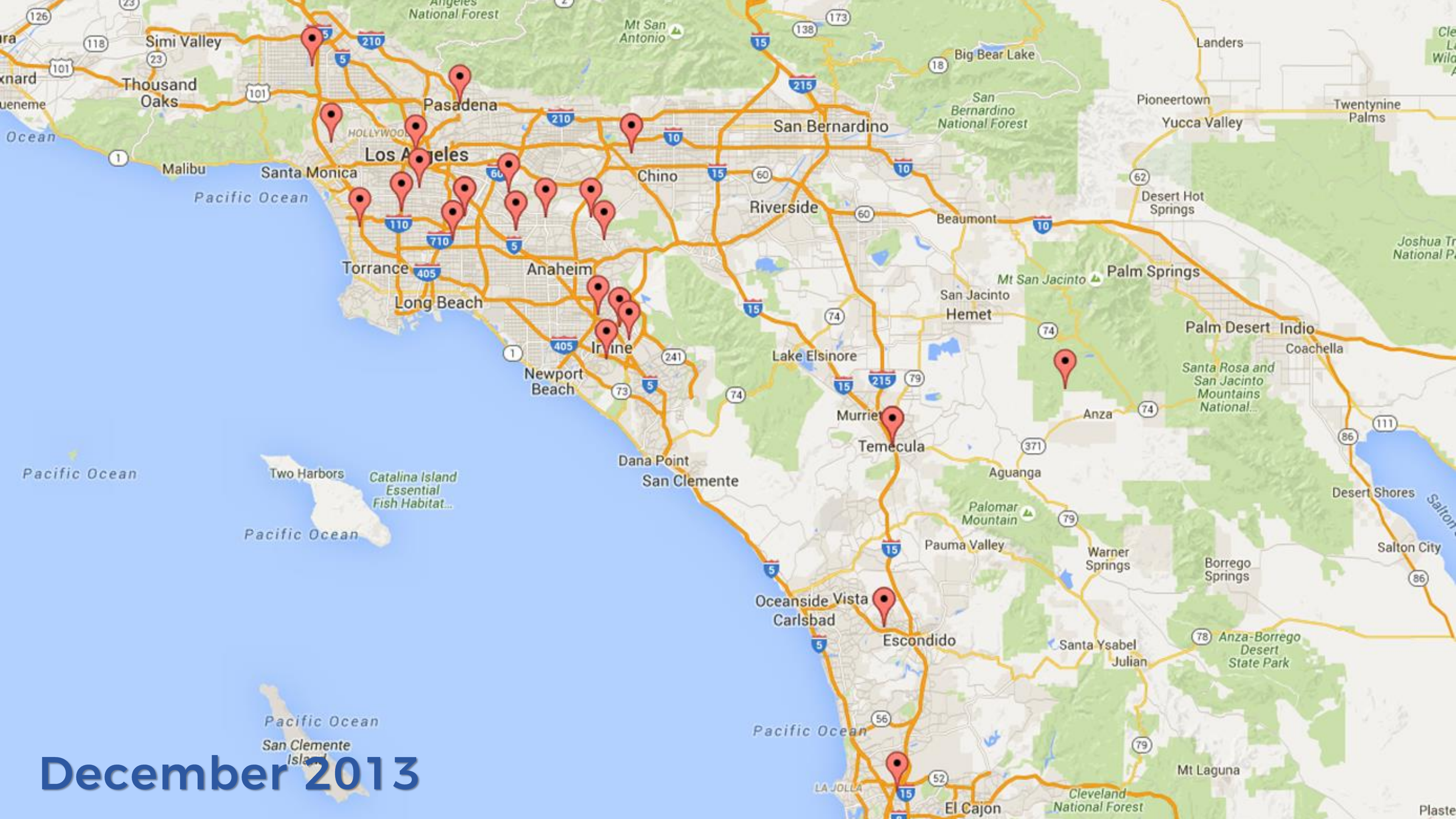
Spies

Analysts

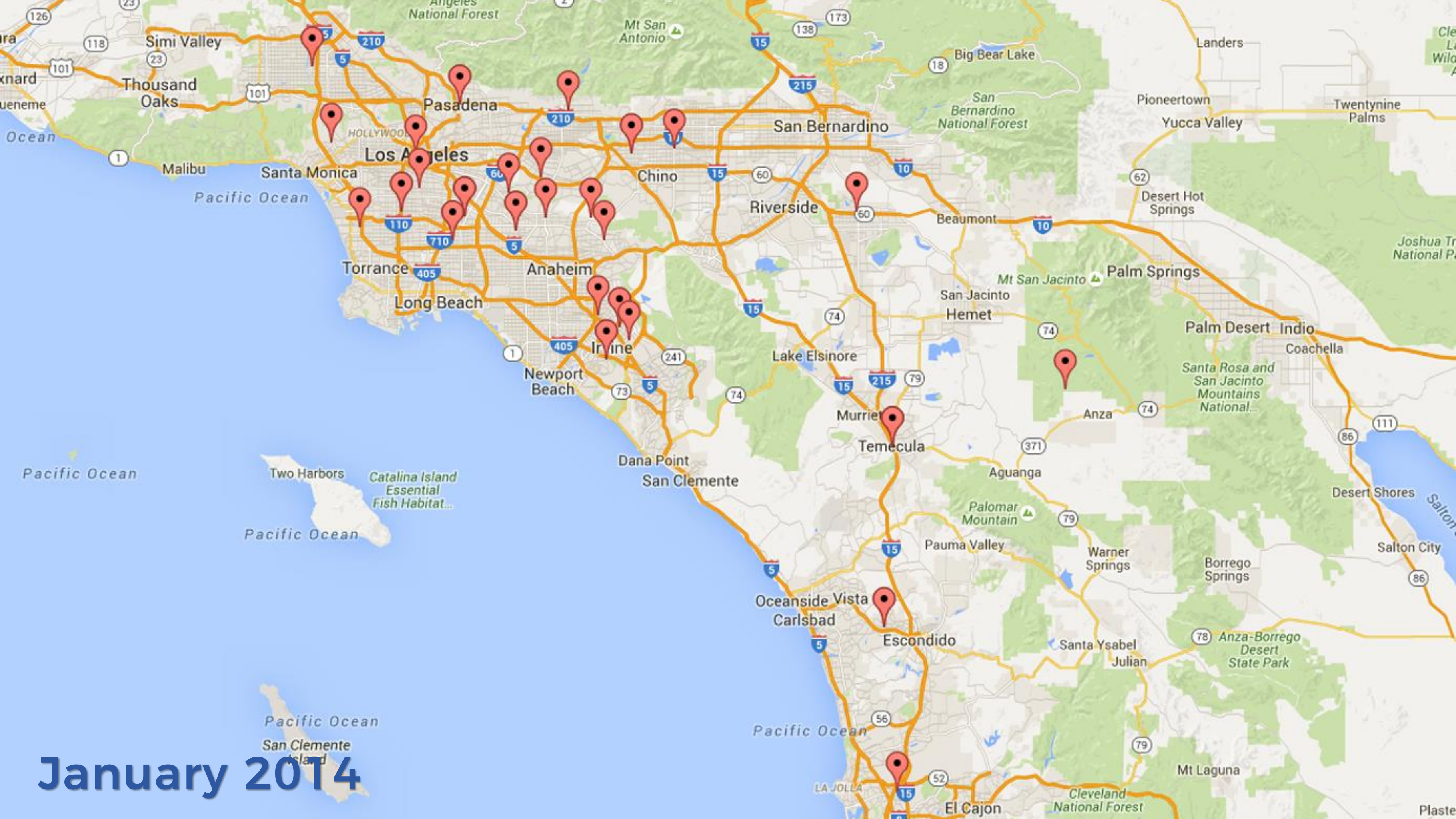
Model



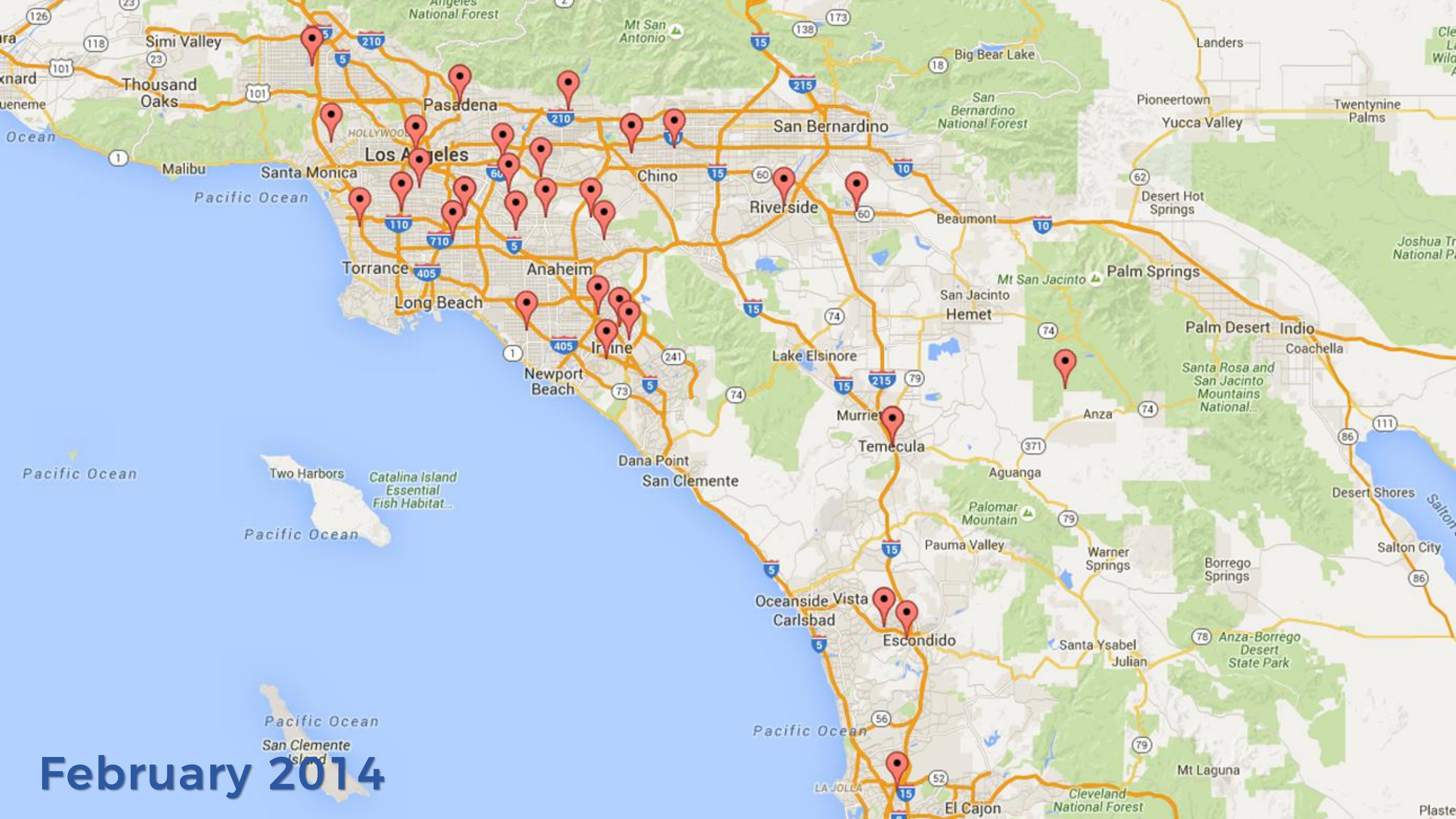
November 2013



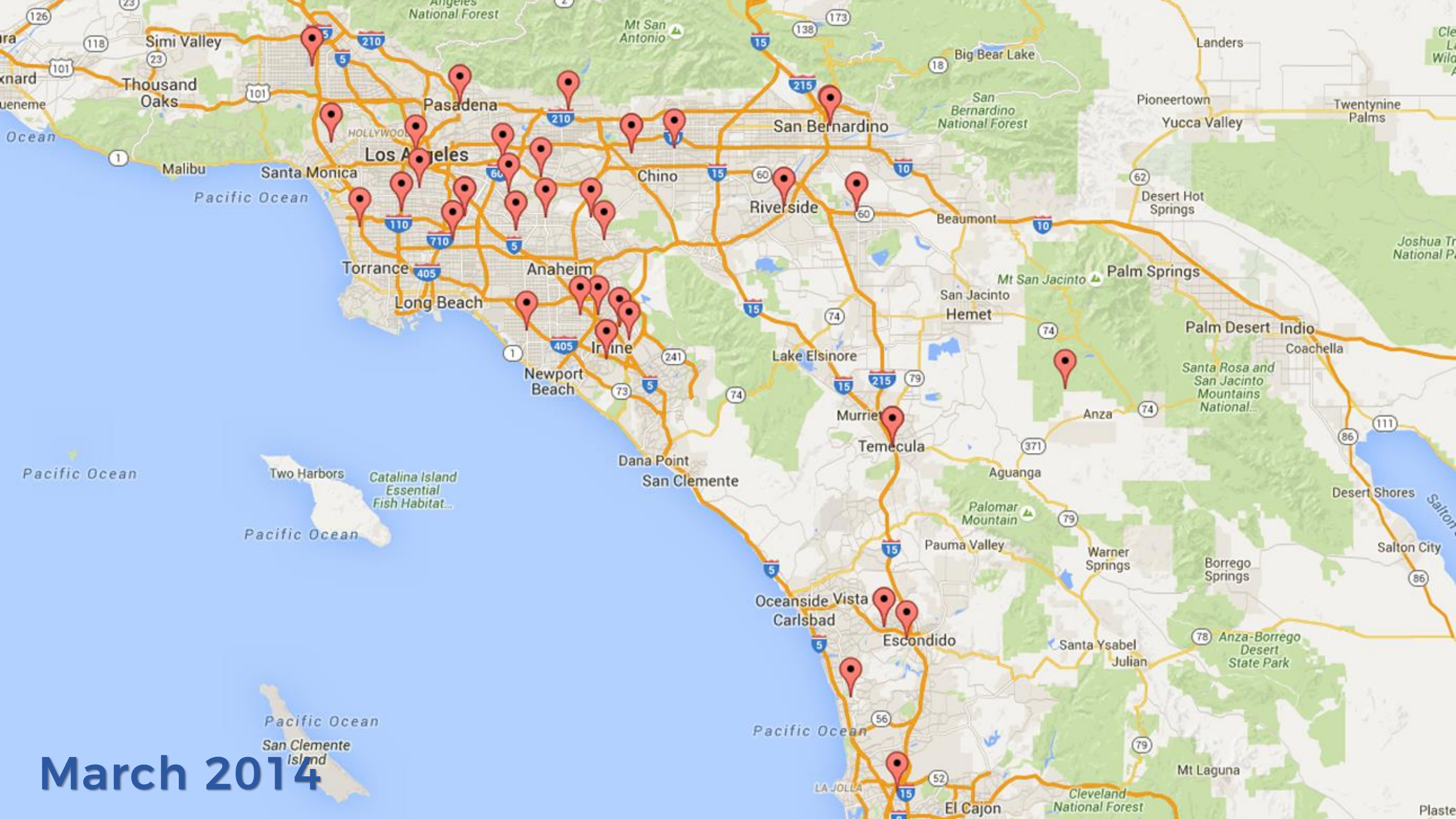
December 2013



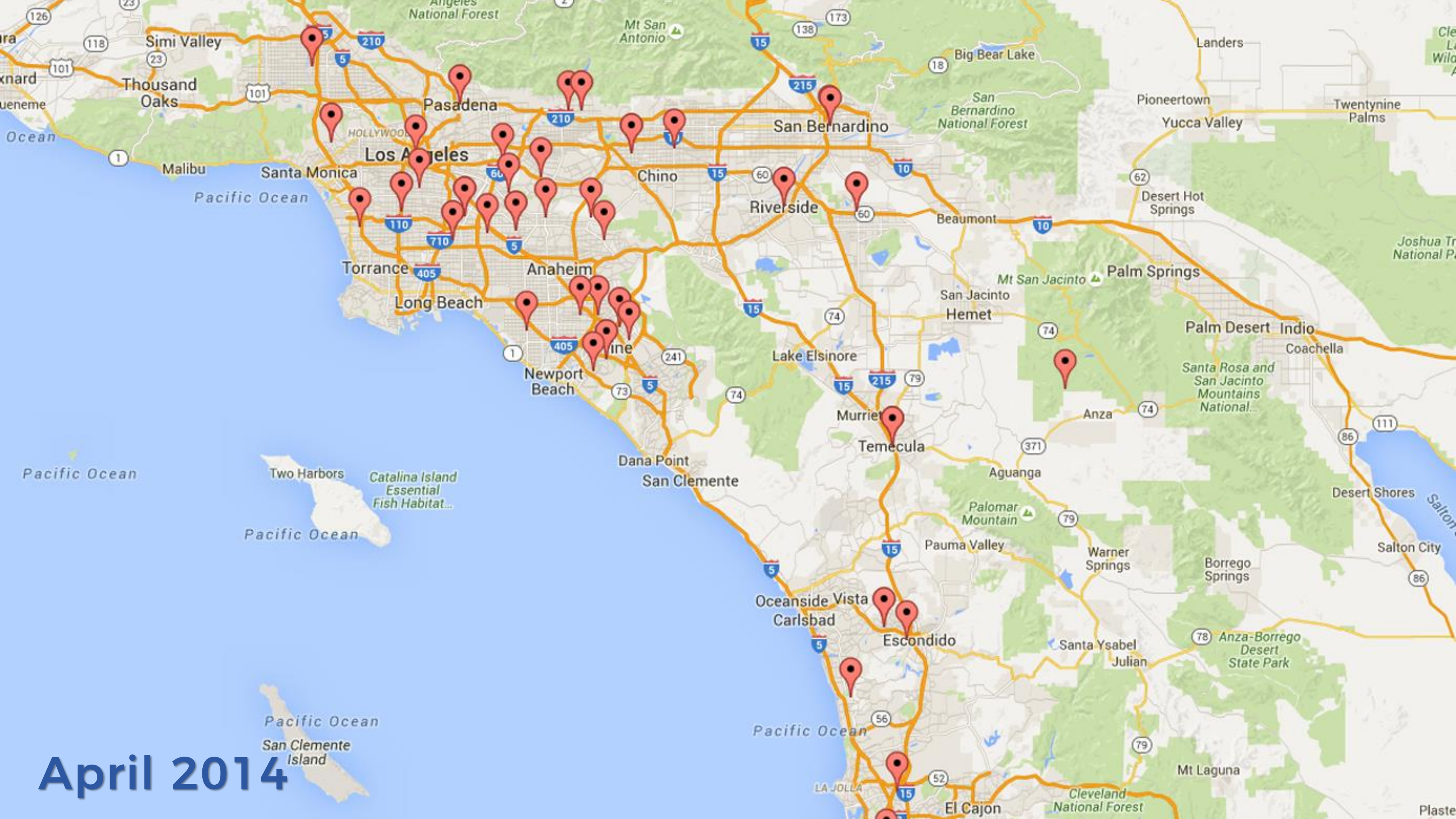
January 2014



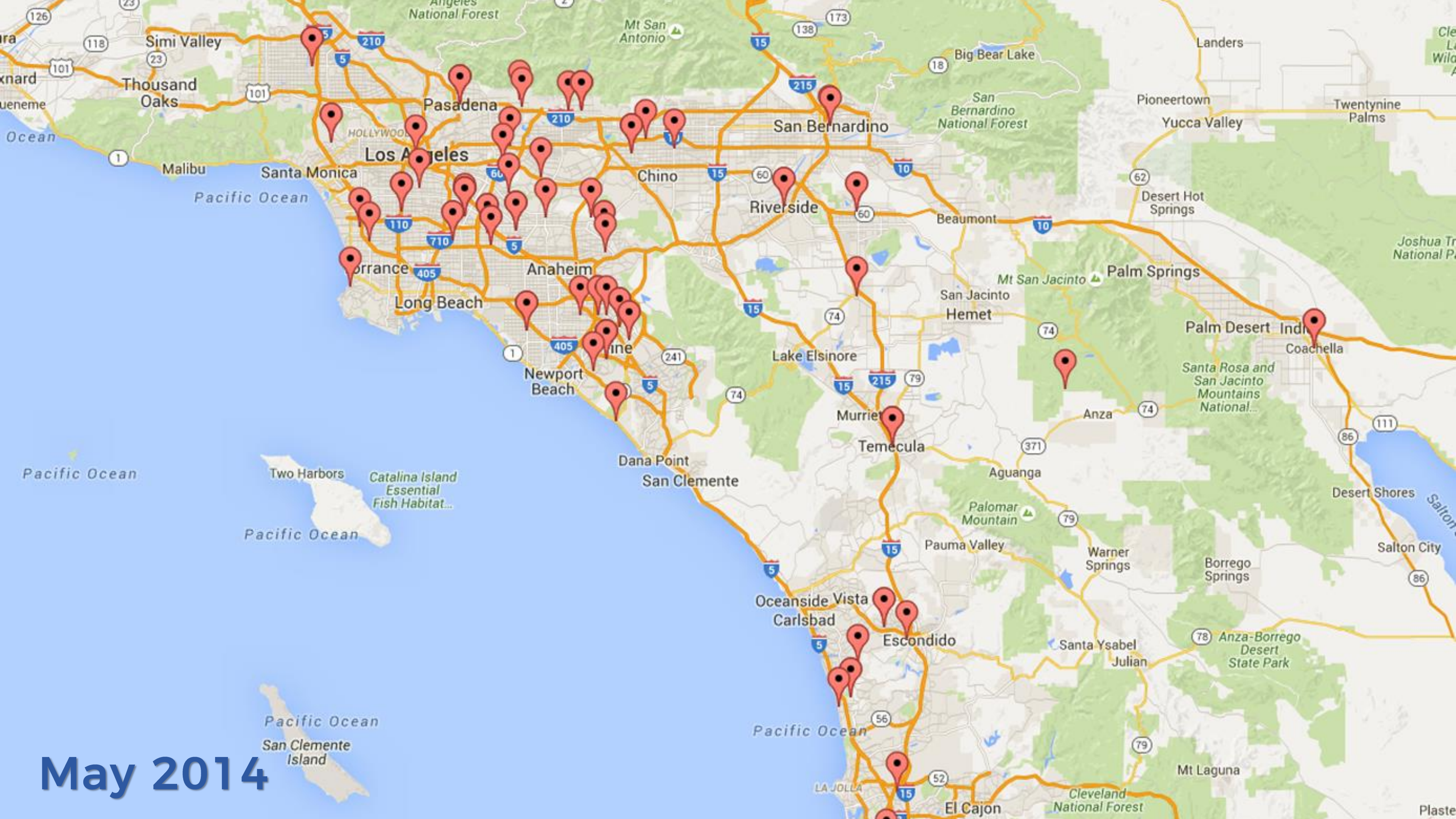
February 2014



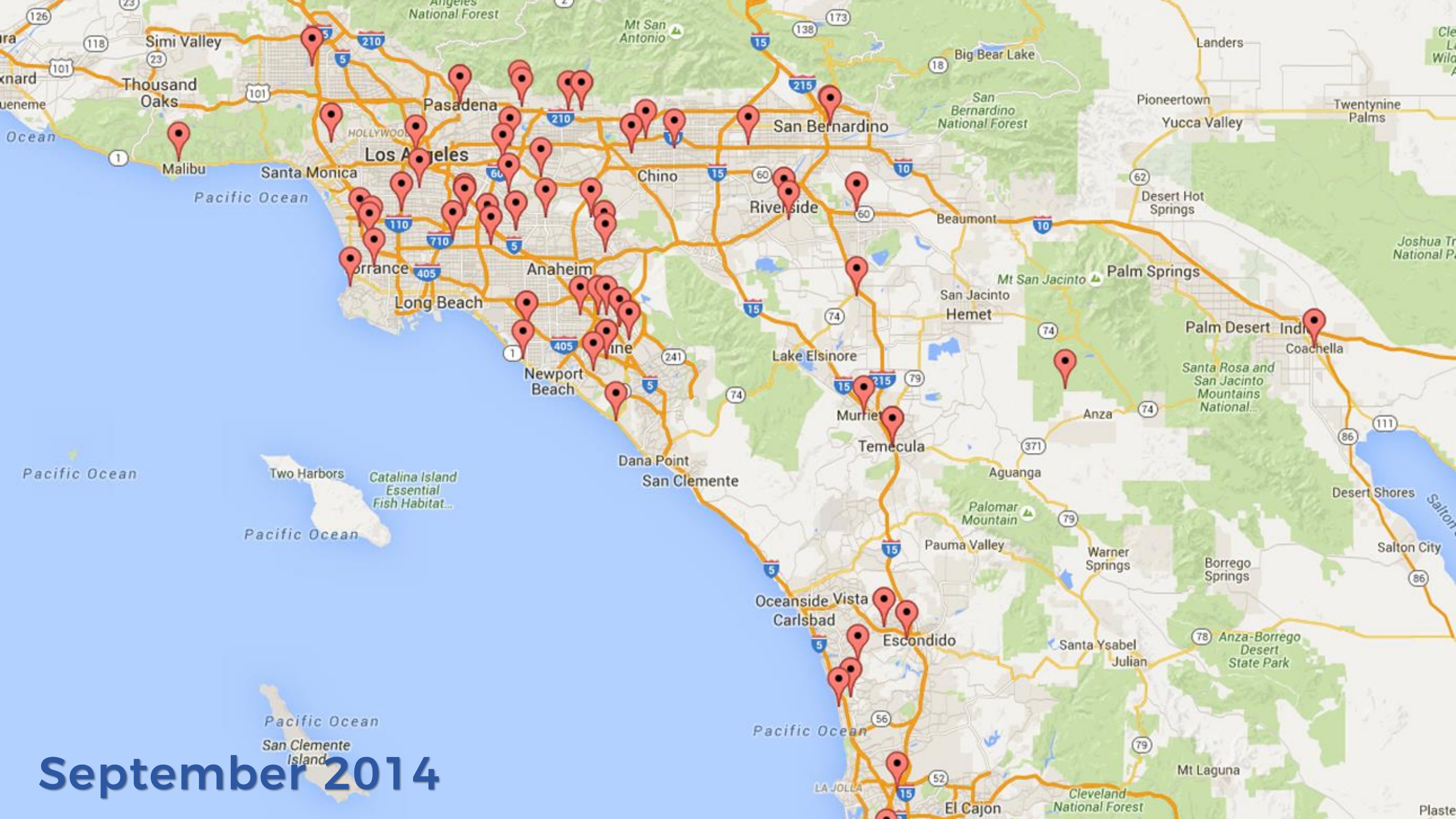
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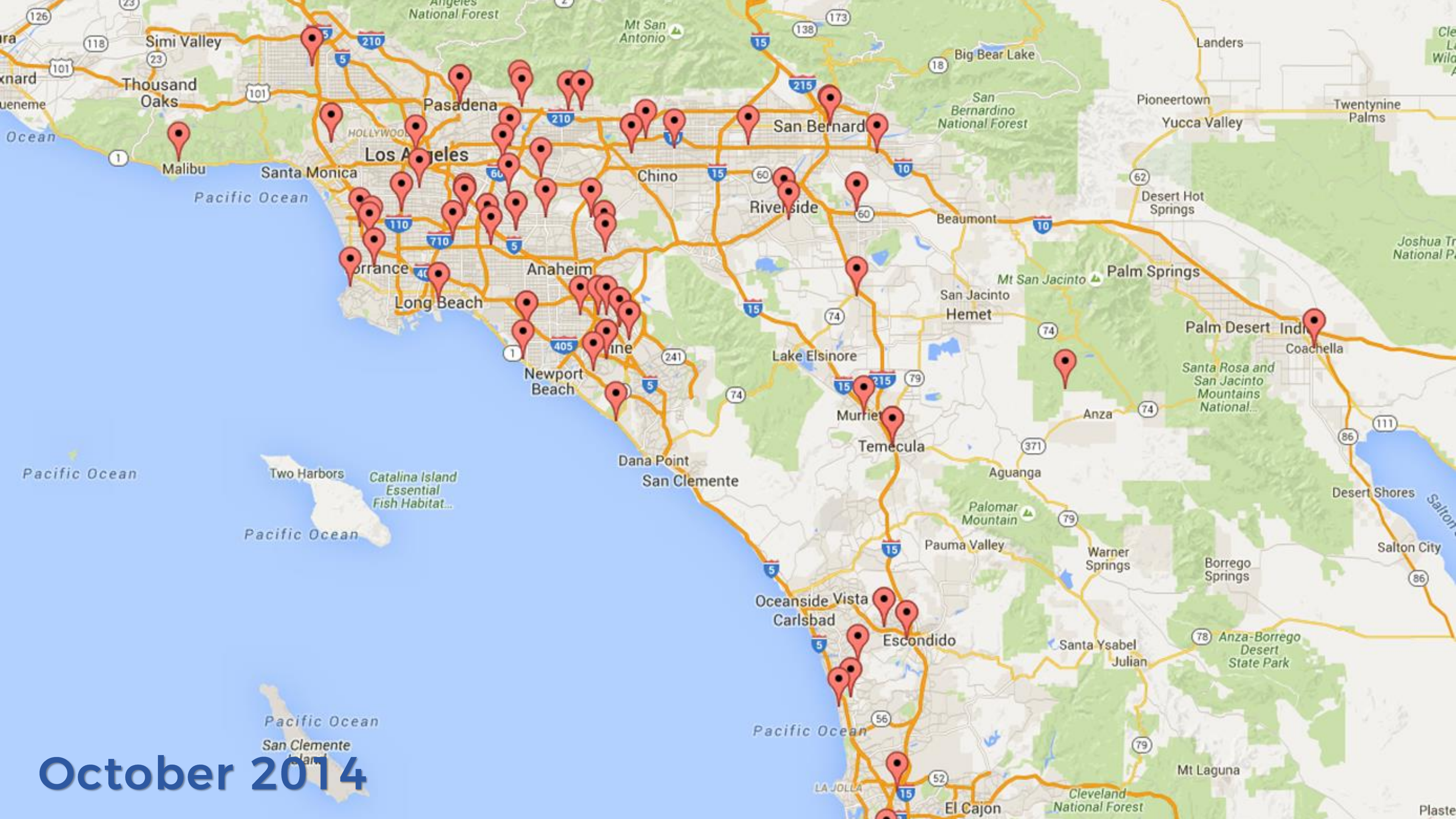
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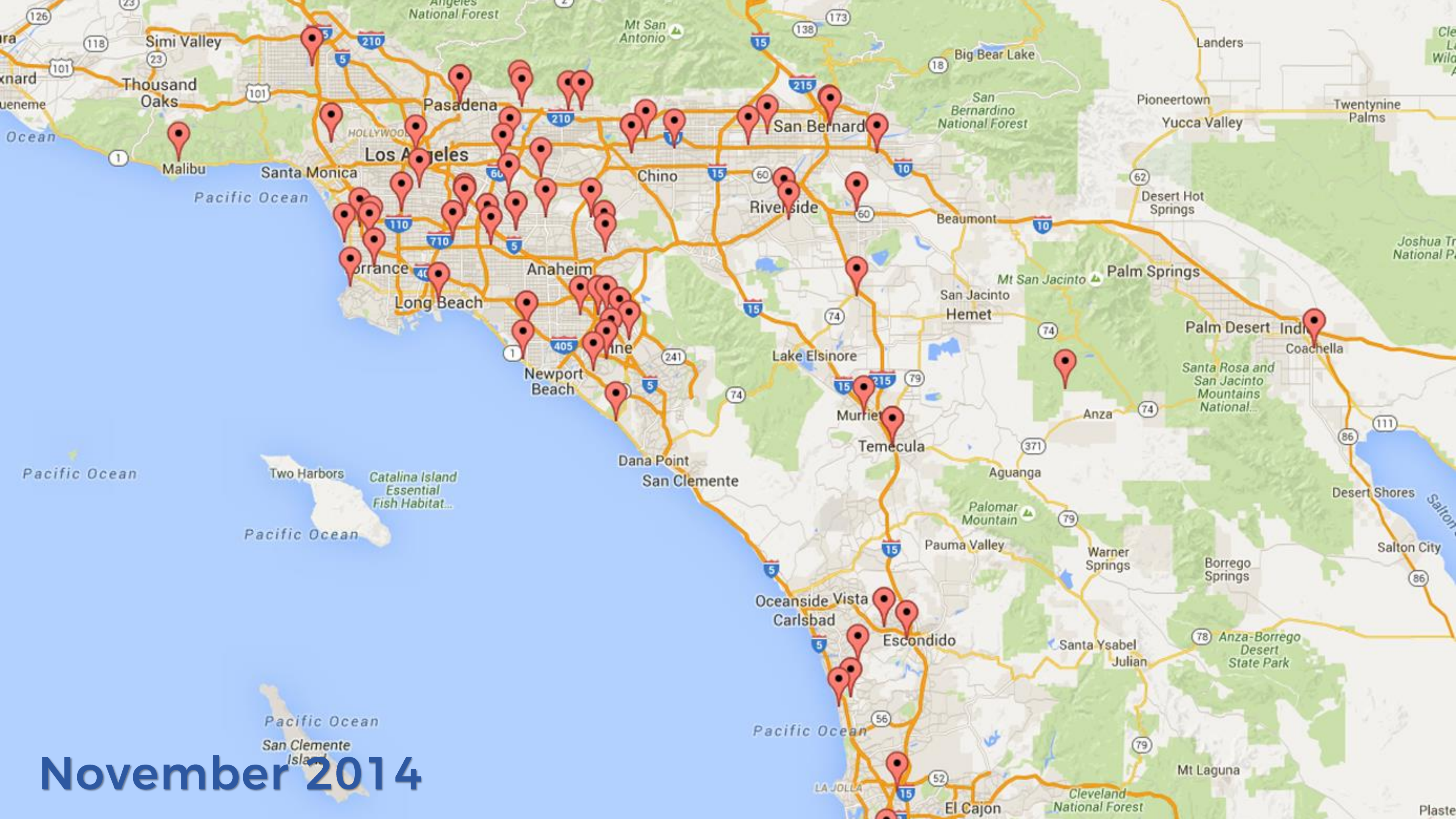
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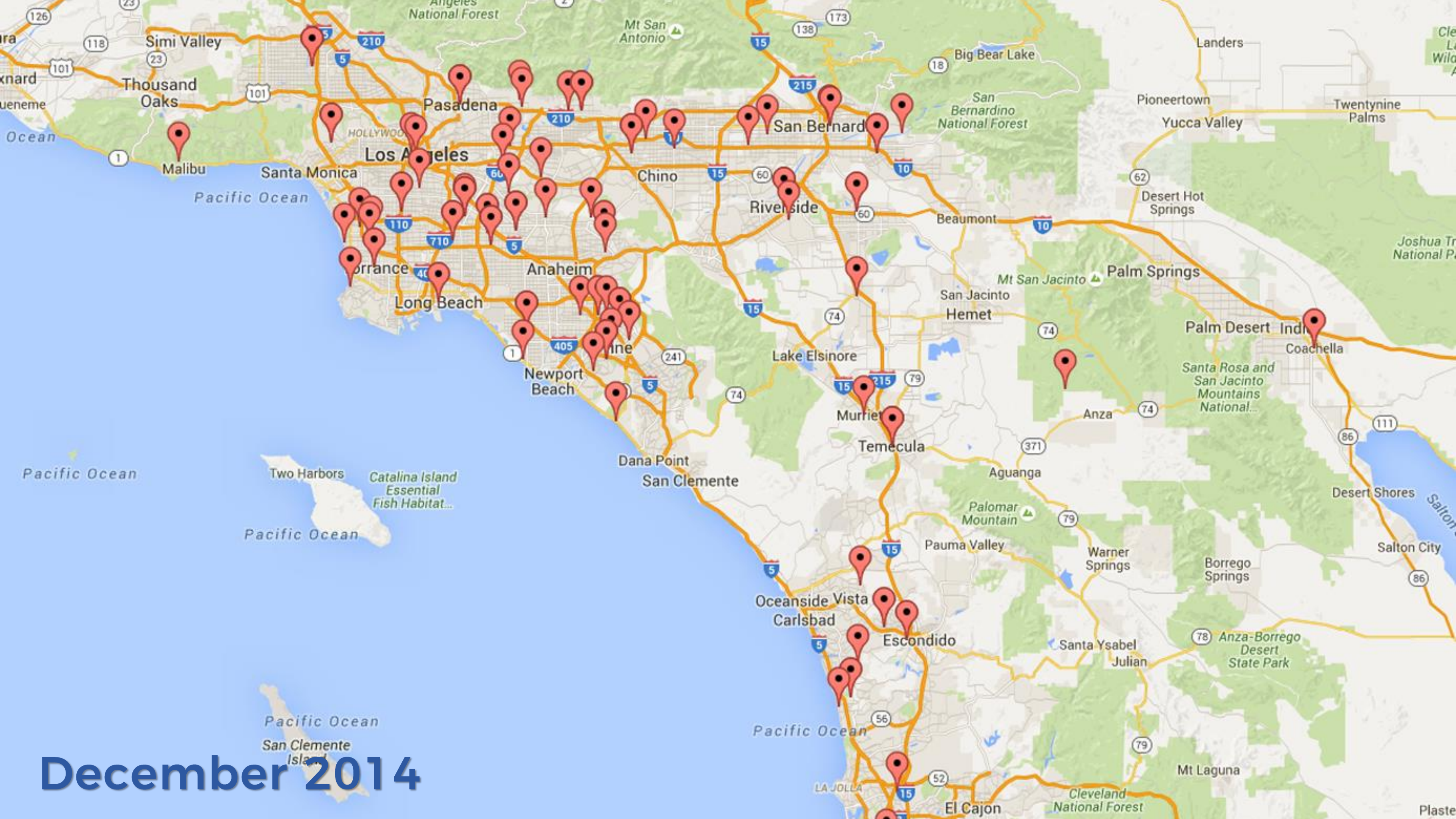
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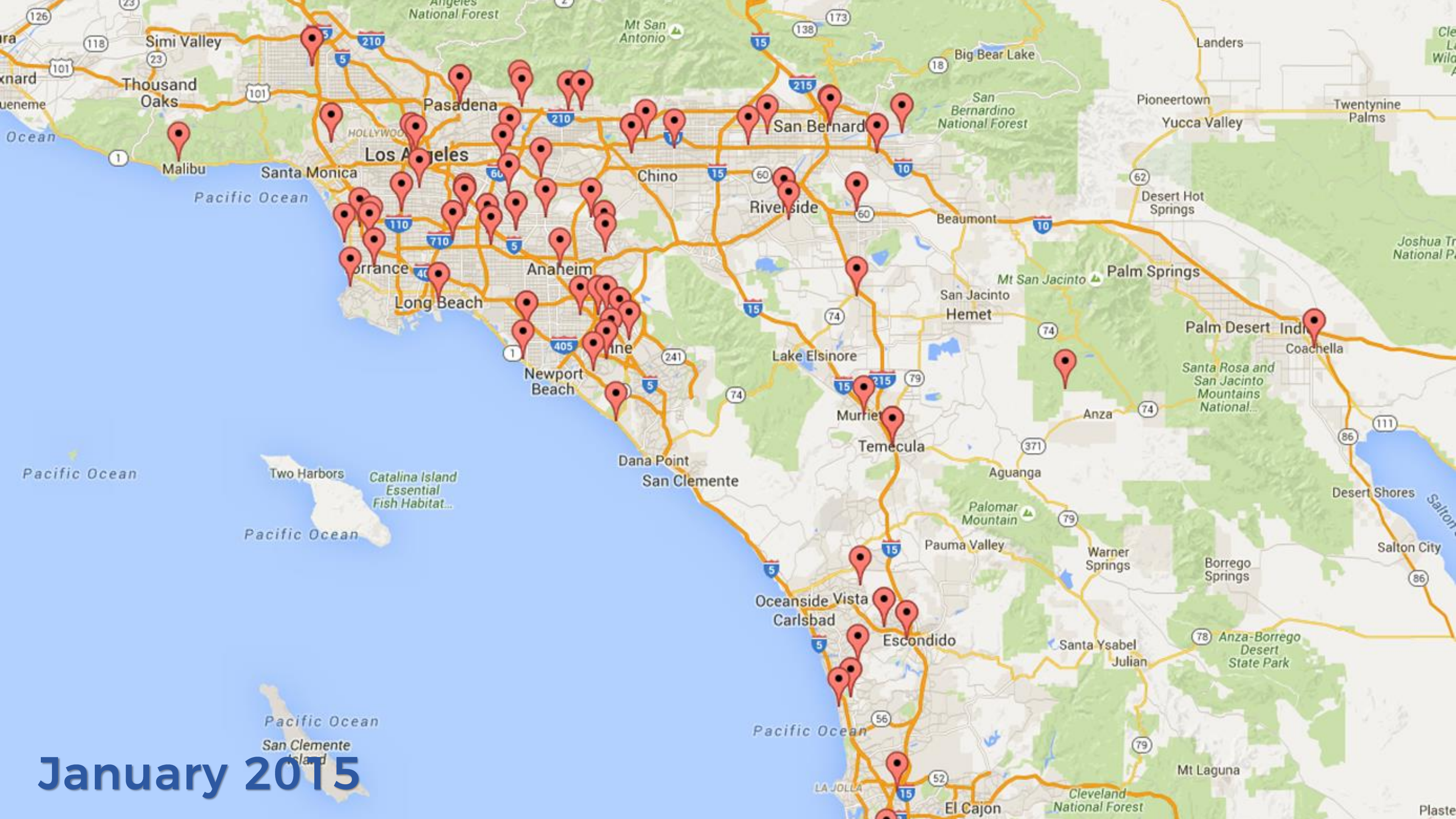
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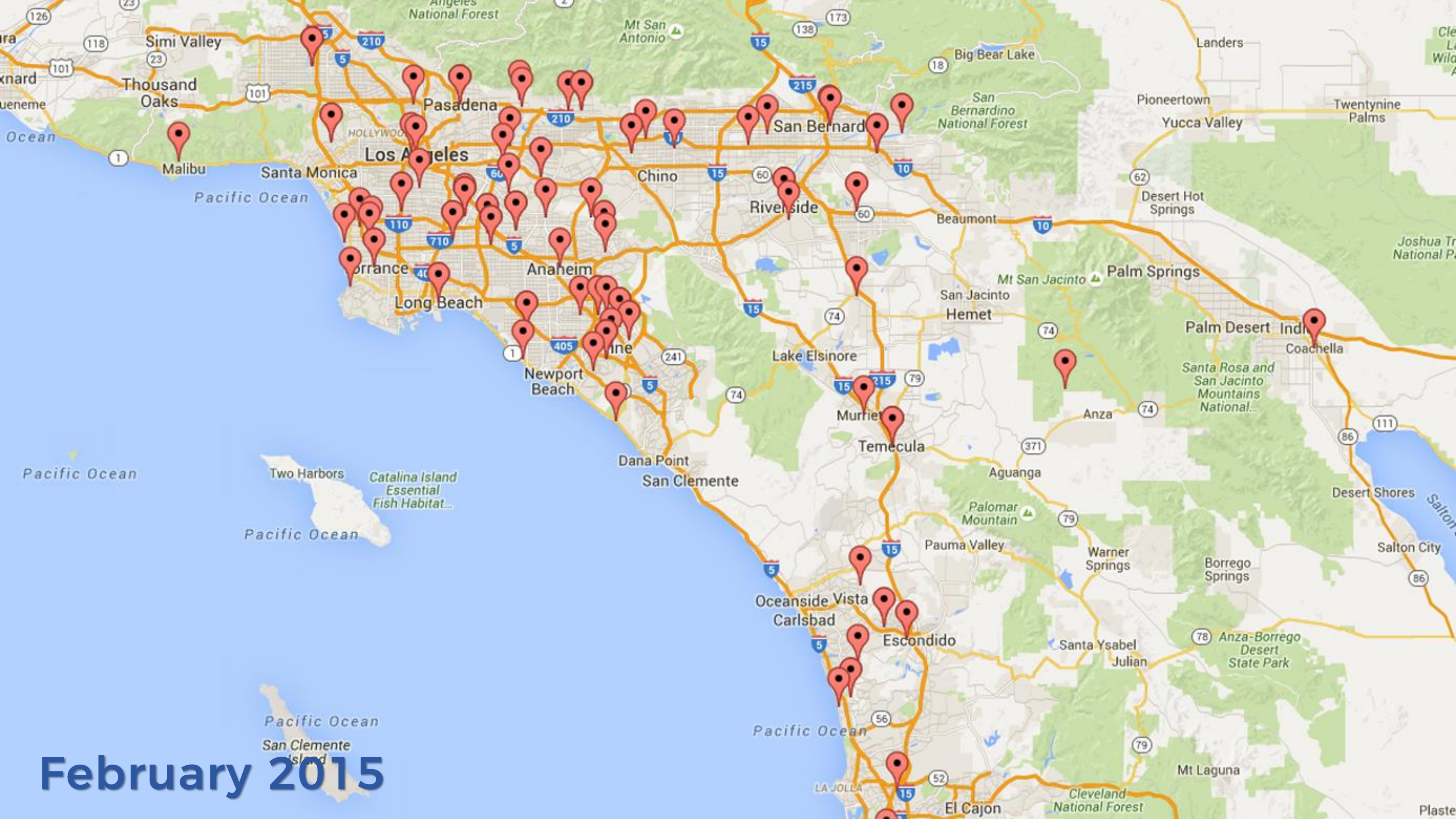
November 2014



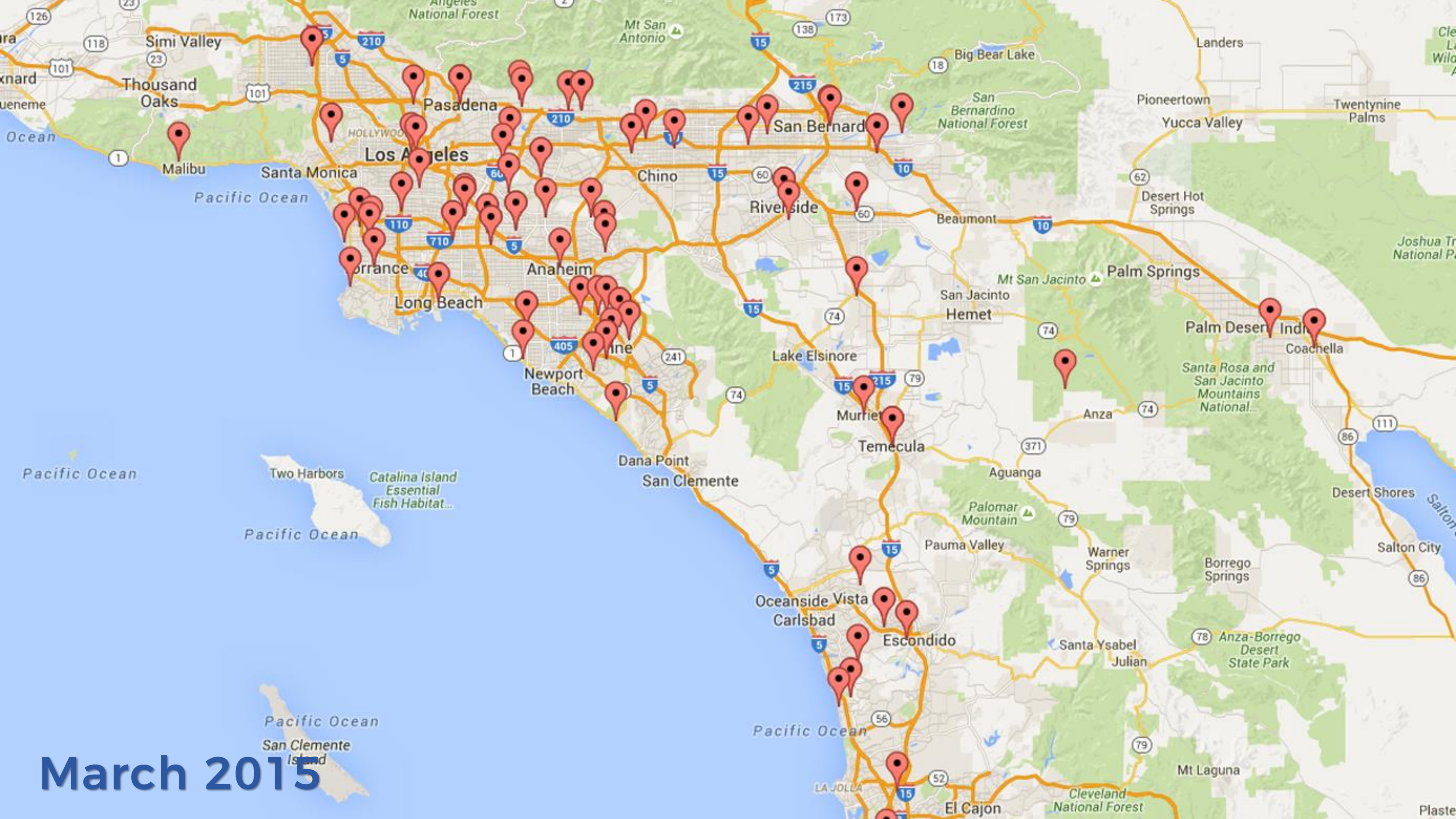
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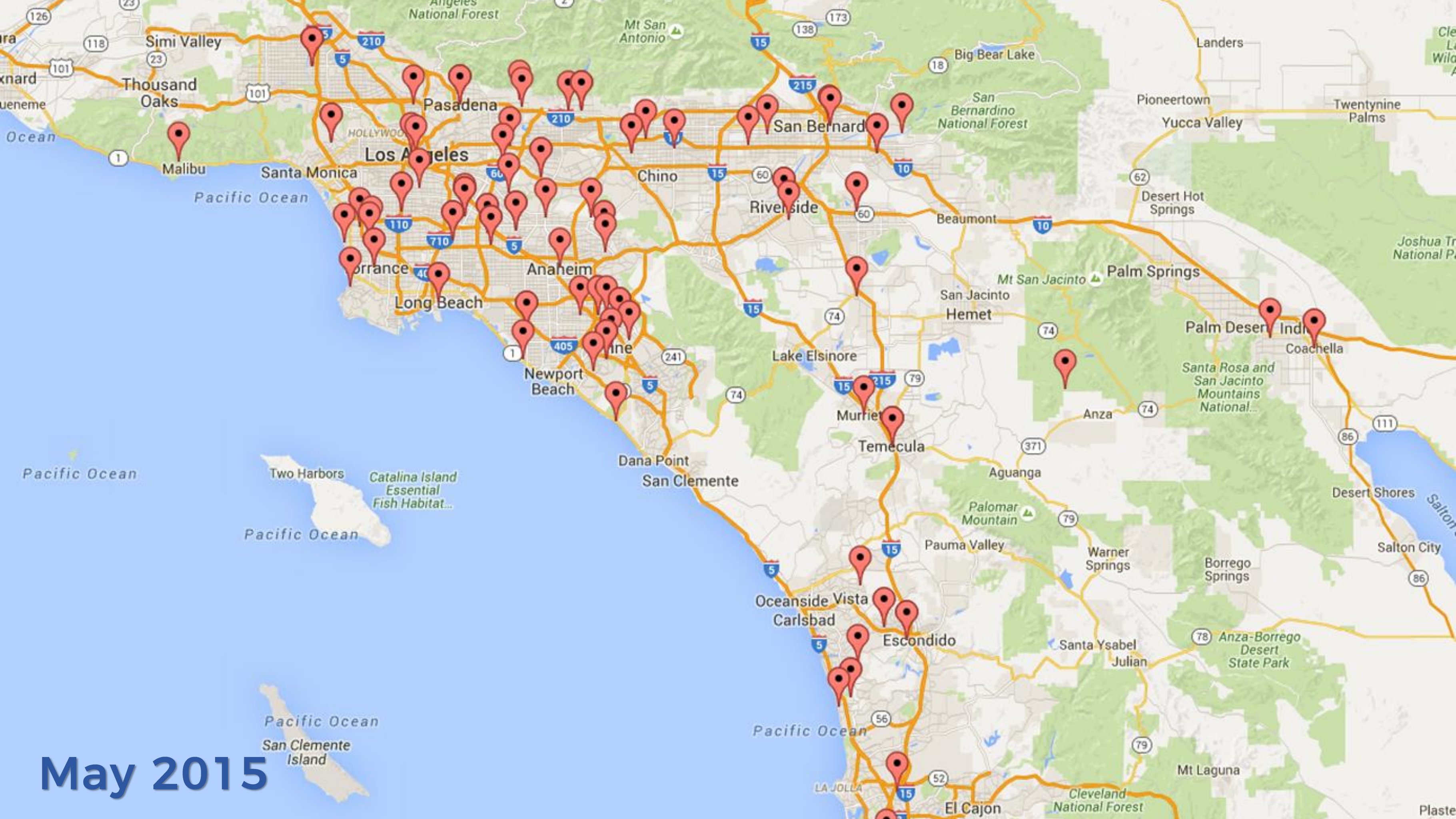
January 2015



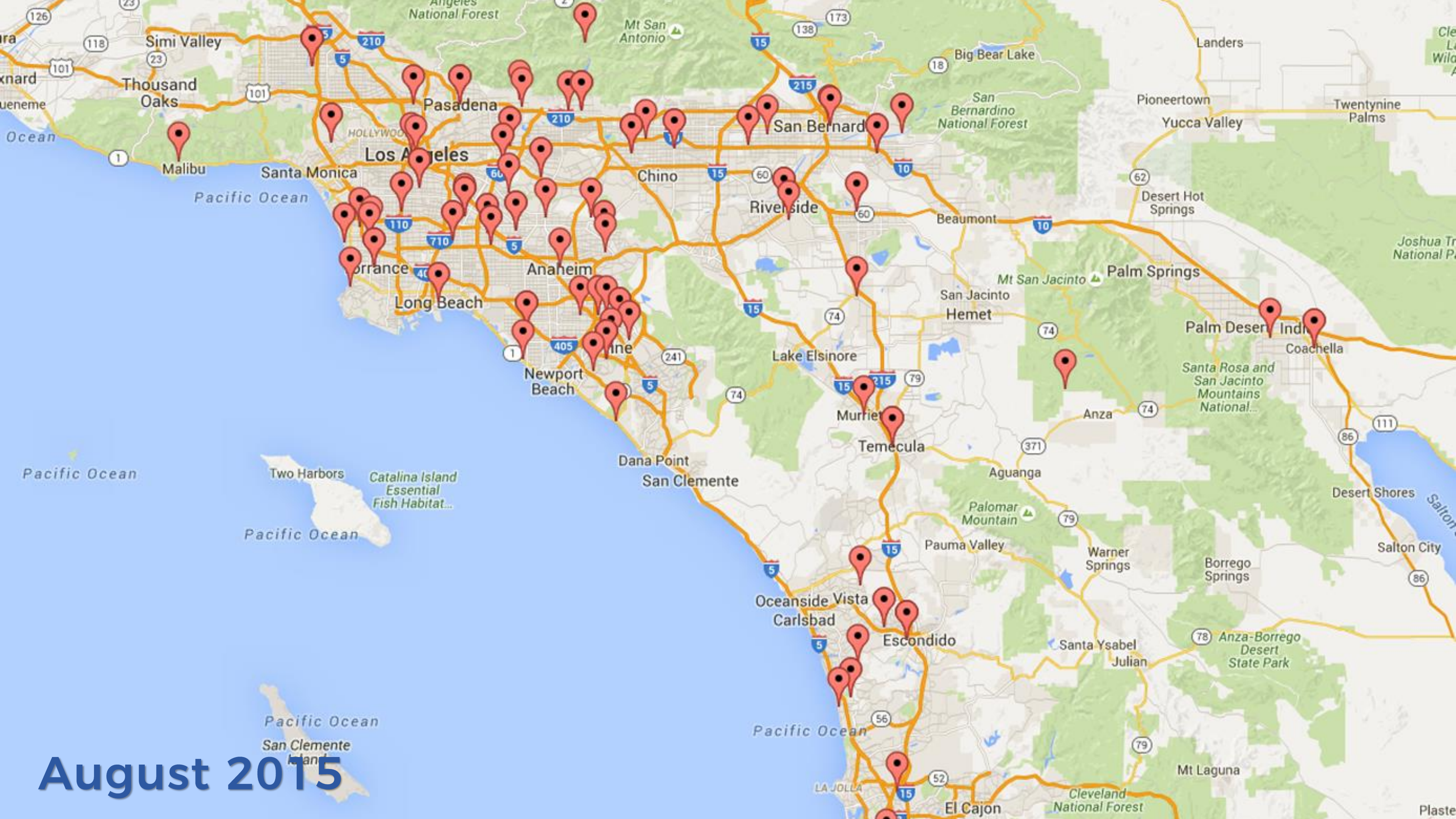
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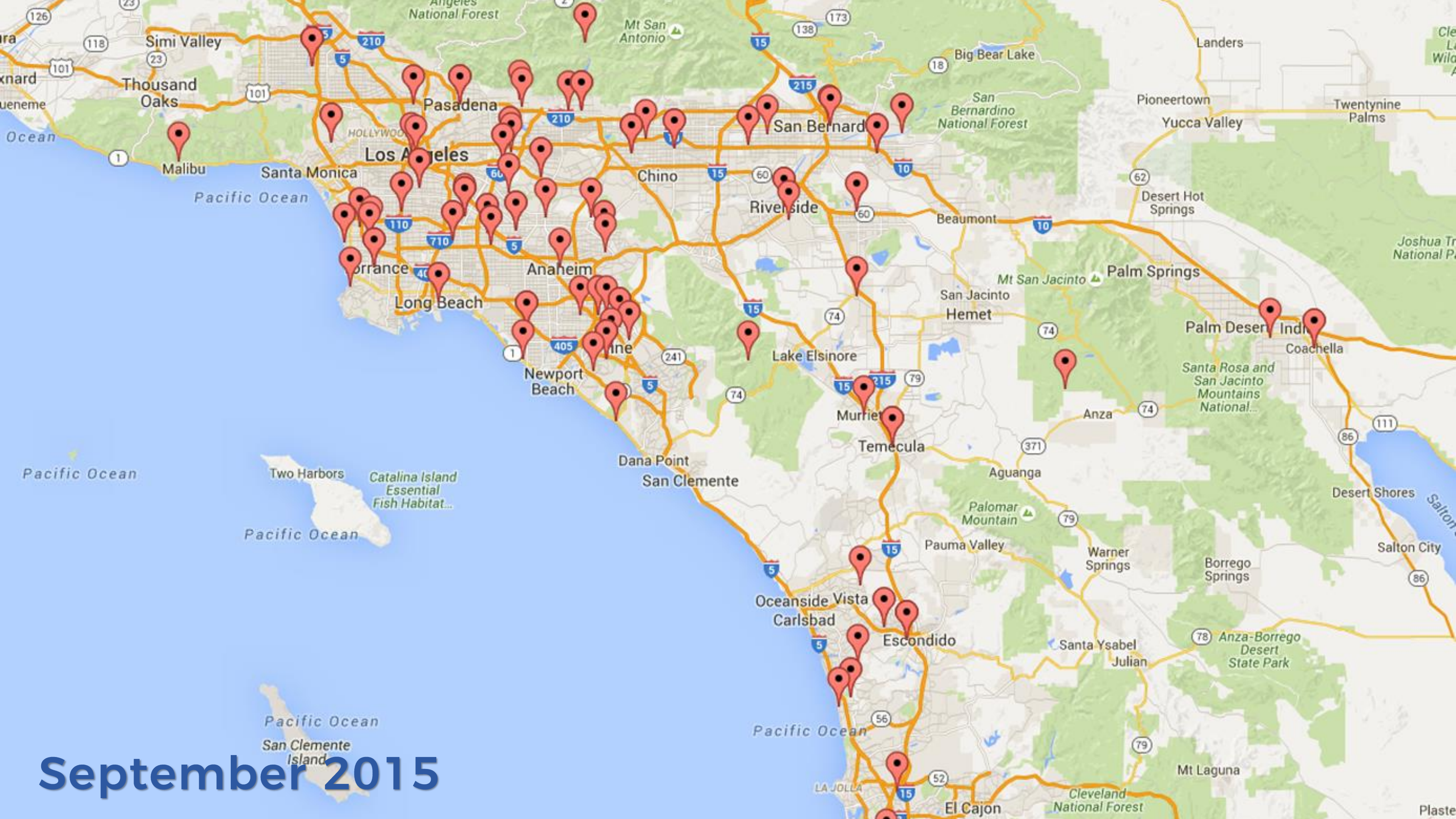
March 2015



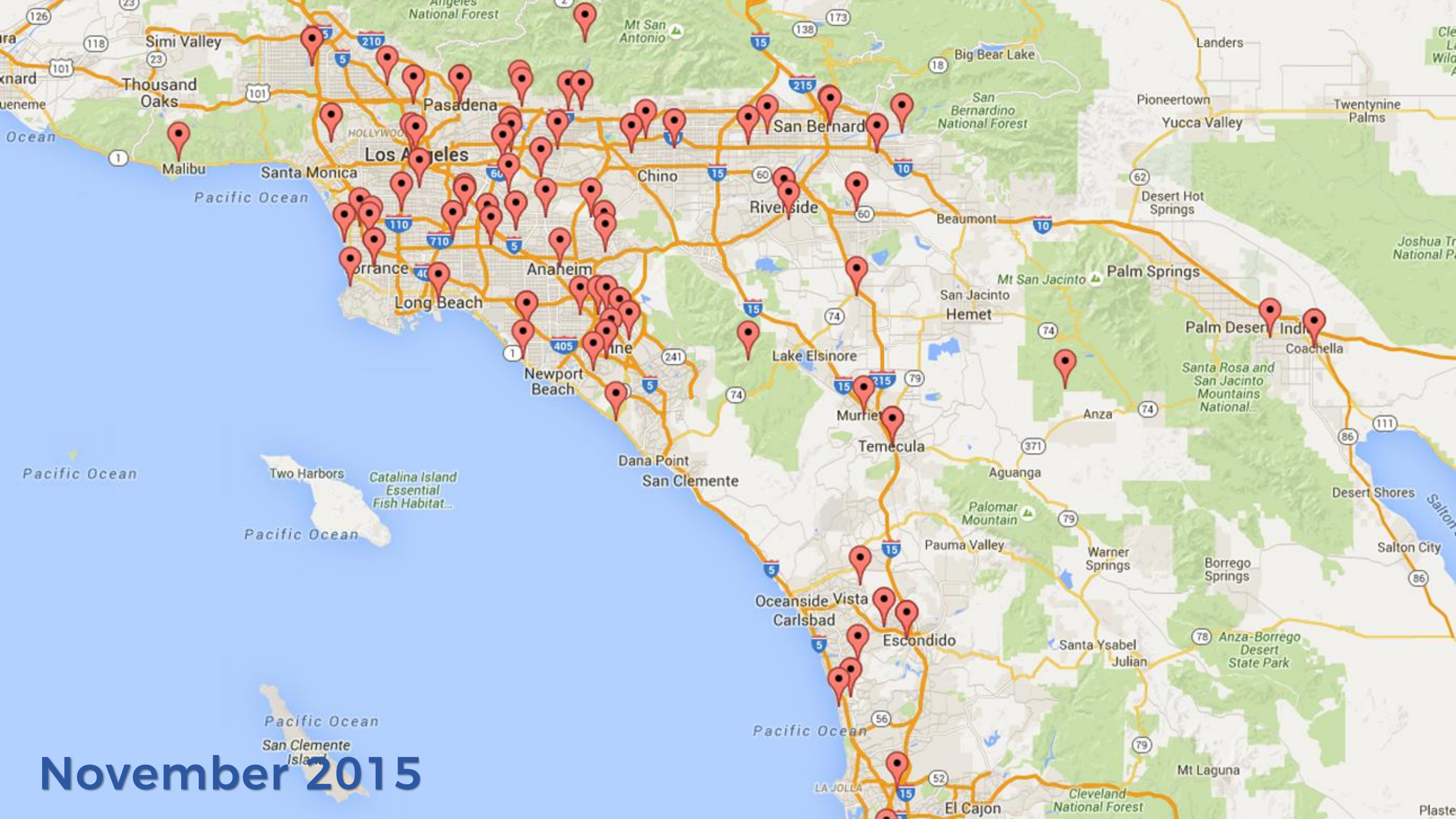
May 2015



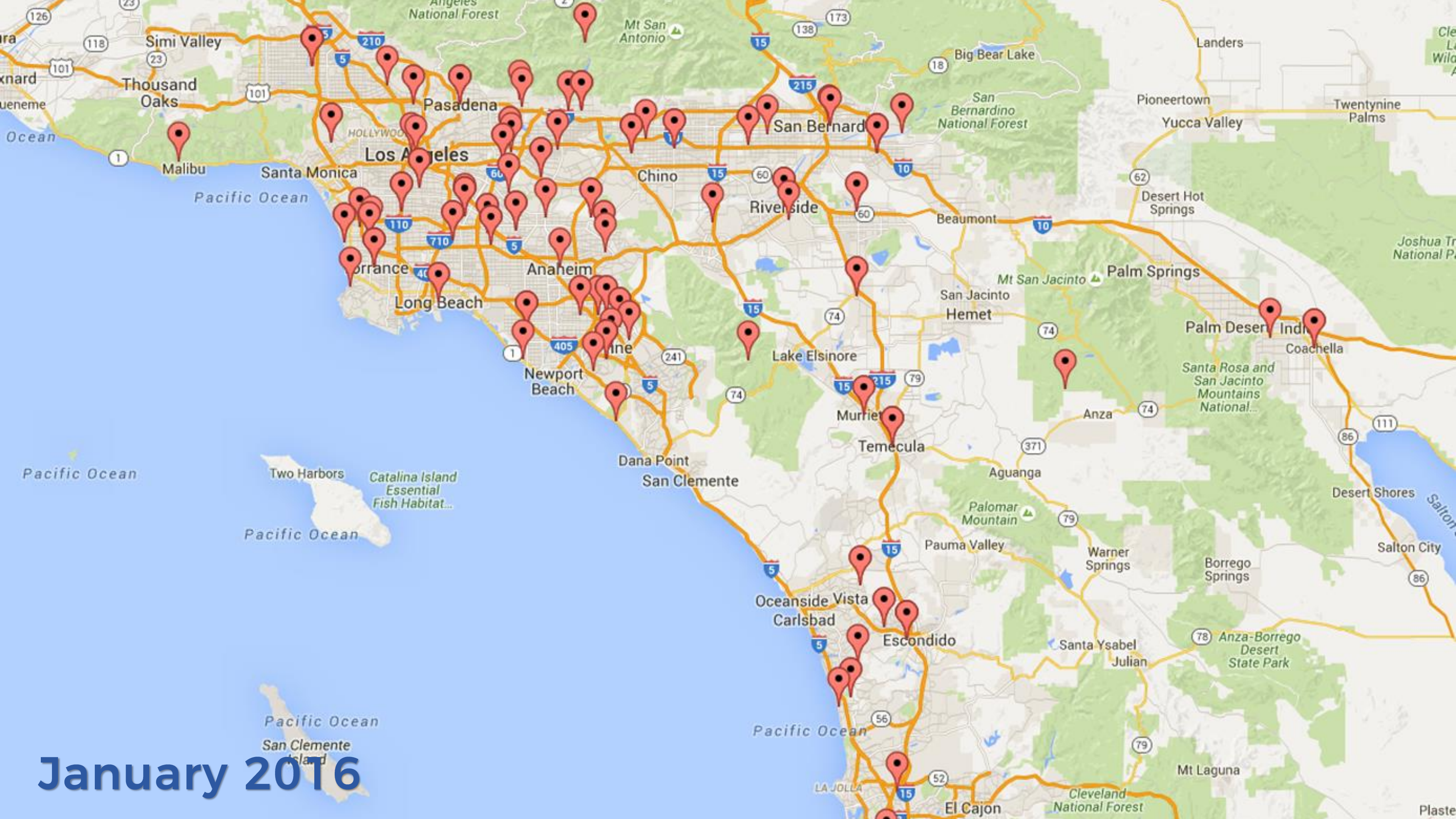
August 2015



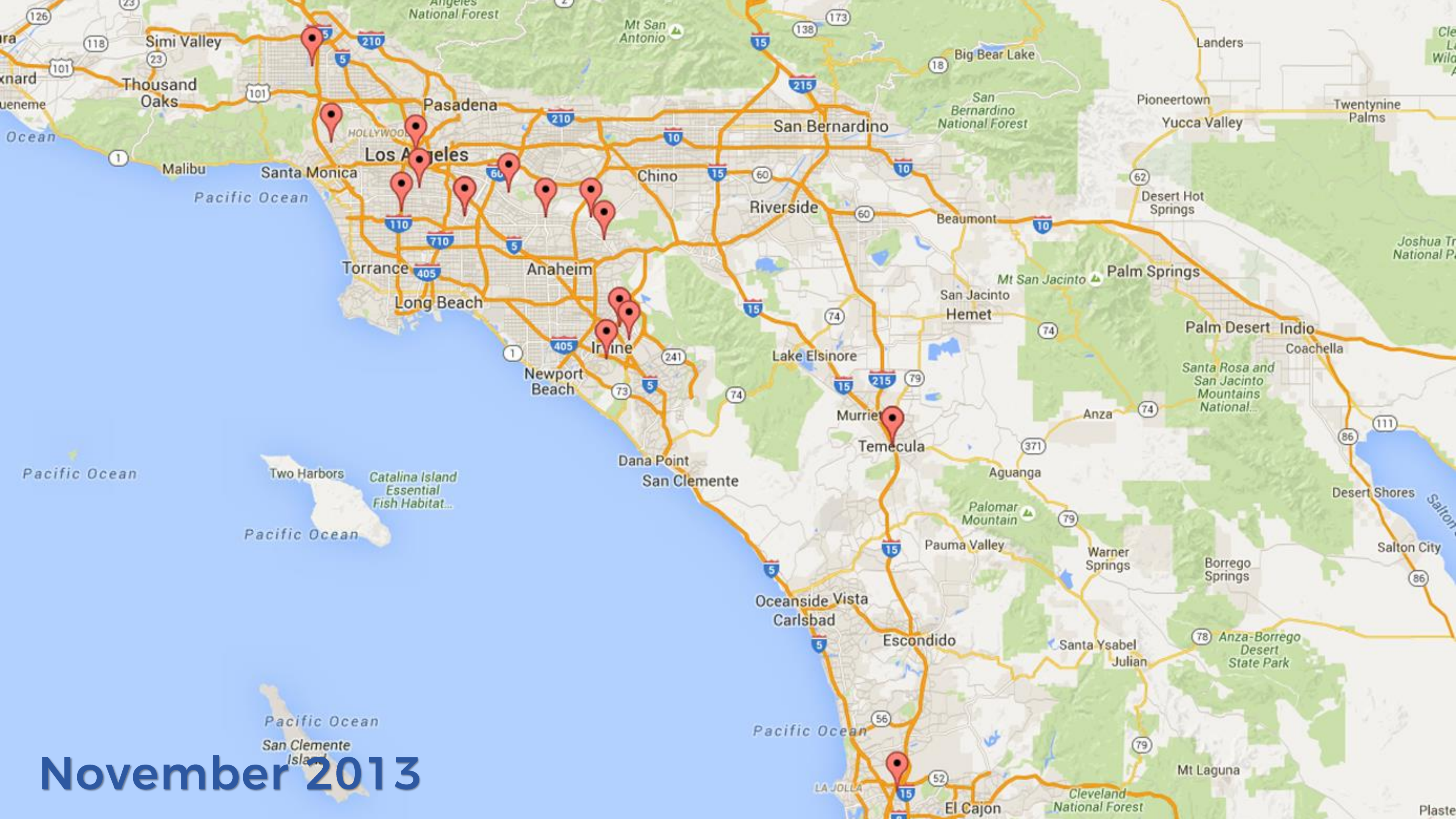
September 2015



November 2015



January 2016



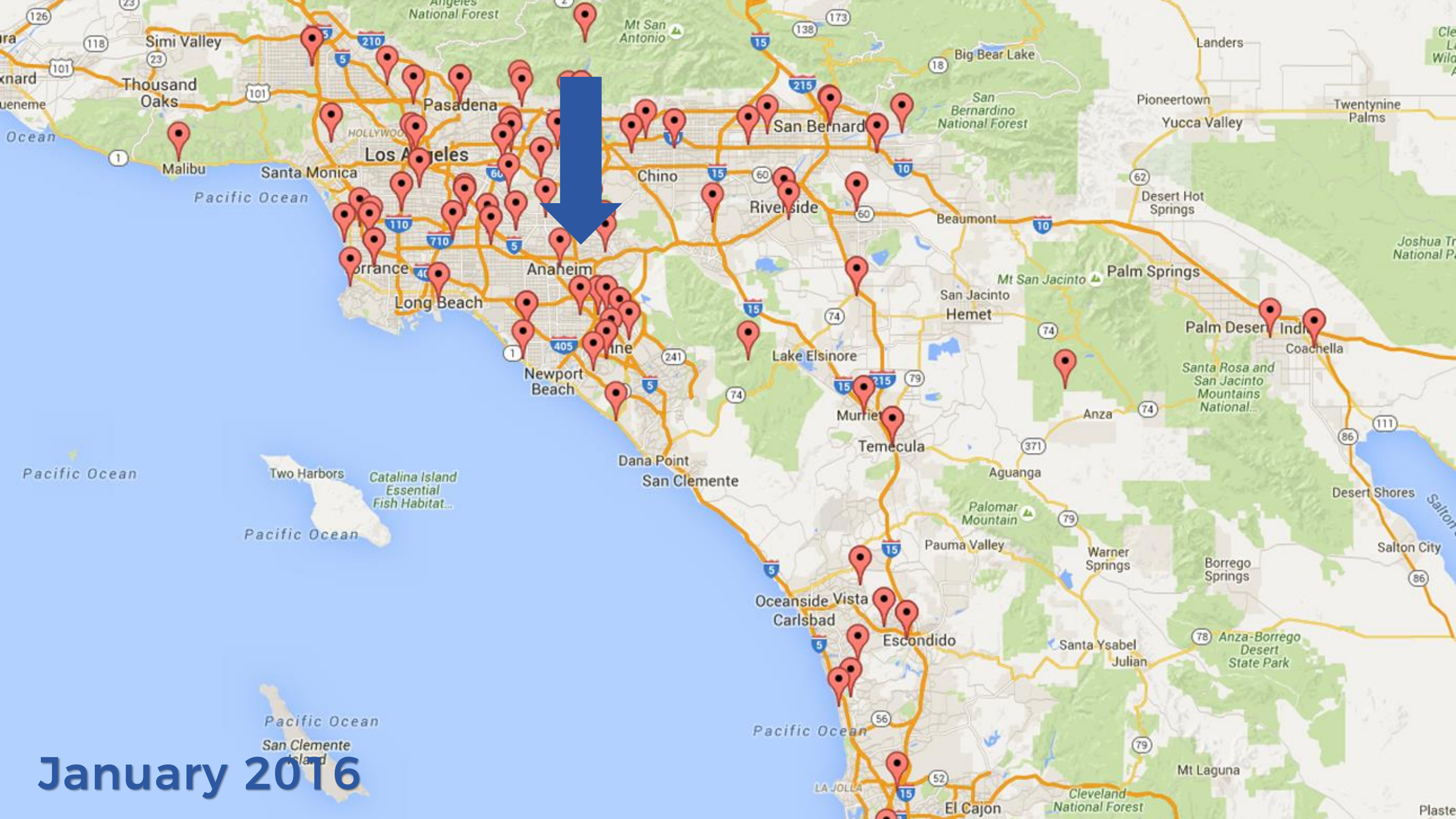
November 2013

The diagram consists of three white text labels: 'Spies' on the left, 'Analysts' on the right, and 'Model' at the bottom center. A blue curved arrow points from 'Spies' to 'Analysts', and another blue curved arrow points from 'Analysts' to 'Model'. The background is green with a blue and green zigzag pattern at the top.

Spies

Analysts

Model



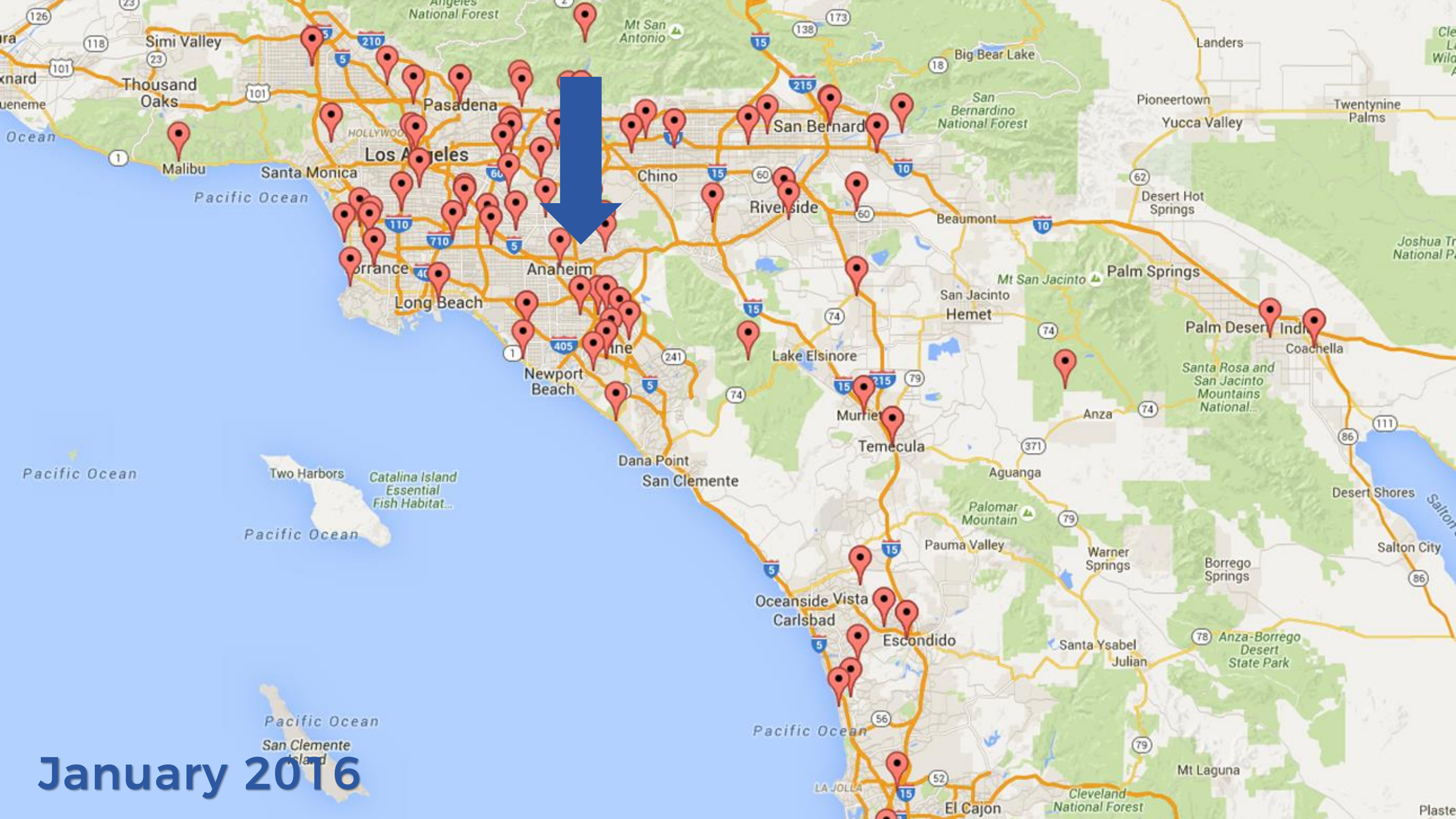
January 2016


```
graph TD; Spies --> Analysts; Analysts --> Model; Model --> Spies;
```


Spies

Analysts

Model



January 2016



All models are
wrong, but some
are useful.

GEORGE E. P. BOX



Classic Mix

20
Singles

LAY'S® Classic Potato Chips, DORITOS® Nacho Cheese Flavored Tortilla Chips, DORITOS® COOL RANCH® Flavored Tortilla Chips, CHEETOS® Crunchy Cheese Flavored Snacks, SUNCHIPS® Original Multigrain Snacks, FRITOS® Original Corn Chips (All 1 OZ. Each)

20 INDIVIDUAL BAGS: 1 OZ. EACH, TOTAL NET WT. 20 OZ. (1 LB. 4 OZ.) 567 g

⚠ WARNING: PREVENT ENTANGLEMENT AND STRANGULATION. KEEP THIS BAG AWAY FROM YOUNG CHILDREN. IT IS NOT A TOY.



Spies

Analysts

Model

THINKING TIME

EASY TO STORE.



Classic Mix **20**
Singles

4 LAY'S® Classic Potato Chips, 4 DORITOS® Nacho Cheese Flavored Tortilla Chips, 2 DORITOS® COOL RANCH® Flavored Tortilla Chips, 4 CHEETOS® Crunchy Cheese Flavored Snacks, 2 SUNCHIPS® Original Multigrain Snacks, 4 FRITOS® Original Corn Chips (All 1 OZ. Each)
20 INDIVIDUAL BAGS: 1 OZ. EACH, TOTAL NET WT. 20 OZ. (1 LB. 4 OZ.) 567 g ⚠️ WARNING: PREVENT ENTANGLEMENT AND STRANGULATION. KEEP THIS BAG AWAY FROM YOUNG CHILDREN. IT IS NOT A TOY.



Robert Kaplinsky

@robertkaplinsky



Hey #MTBoS, can you do me a favor and complete this 3 question anonymous survey about your favorite chips? I need data for a presentation. Please RT.

goo.gl/forms/etPtujll... #iteachmath



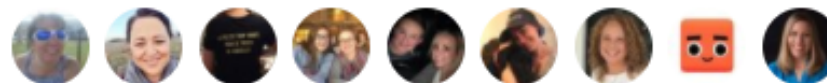
Favorite Chips

Please complete this anonymous survey. I'll be using this data in a presentation.

docs.google.com

8:05 PM - 4 Feb 2018

63 Retweets **45** Likes



18

63

45



Favorite Chips (Responses)

File Edit View Insert Format Data Tools Form Add-ons Help

Comments

Share

100%

 \$ % .0 .00 123

 Arial

 10

fx Timestamp

	A	B	C	D	E	F	G	H
1	Timestamp	Lays (Classic)	Doritos (Nacho Cheese)	Doritos (Cool Ranch)	Cheetos (Crunchy)	Sun Chips (Original)	Fritos (Original)	Time Zone
2	2/4/2018 20:06:53	6	5	4	2	3	1	Central Time Zone
3	2/4/2018 20:06:55	1	5	6	3	2	4	Eastern Time Zone
4	2/4/2018 20:06:56	5	2	1	3	6	4	Central Time Zone
5	2/4/2018 20:06:57	2	1	6	3	5	4	Pacific Time Zone
6	2/4/2018 20:07:36	4	1	2	3	5	6	Pacific Time Zone
7	2/4/2018 20:08:02	5	1	6	4	2	3	Pacific Time Zone
8	2/4/2018 20:08:05	6	2	4	3	5	1	Pacific Time Zone
9	2/4/2018 20:08:07	4	2	1	5	3	6	Pacific Time Zone
10	2/4/2018 20:08:29	5	3	4	1	6	2	Central Time Zone
11	2/4/2018 20:08:56	4	5	6	1	2	3	Central Time Zone
12	2/4/2018 20:09:54	5	6	5	6	5	4	Pacific Time Zone
13	2/4/2018 20:10:01	4	2	3	1	5	6	Pacific Time Zone
14	2/4/2018 20:10:04	6	2	3	1	5	4	Central Time Zone
15	2/4/2018 20:10:04	3	5	6	1	4	2	Central Time Zone
16	2/4/2018 20:10:05	4	2	6	1	3	5	Eastern Time Zone
17	2/4/2018 20:10:06	3	2	6	5	1	2	Pacific Time Zone
18	2/4/2018 20:10:10	4	2	6	3	5	1	Mountain Time Zone
19	2/4/2018 20:10:12	3	1	5	6	2	4	Eastern Time Zone
20	2/4/2018 20:10:26	5	3	6	2	4	1	Pacific Time Zone

+ Sheet3

Explore

THINKING TIME

- The available data includes:
 - Lays, Nacho Cheese Doritos, Cool Ranch Doritos, Cheetos, Sun Chips, and Fritos ranked from 1 to 6
 - Geographic region: West, Central, or Eastern

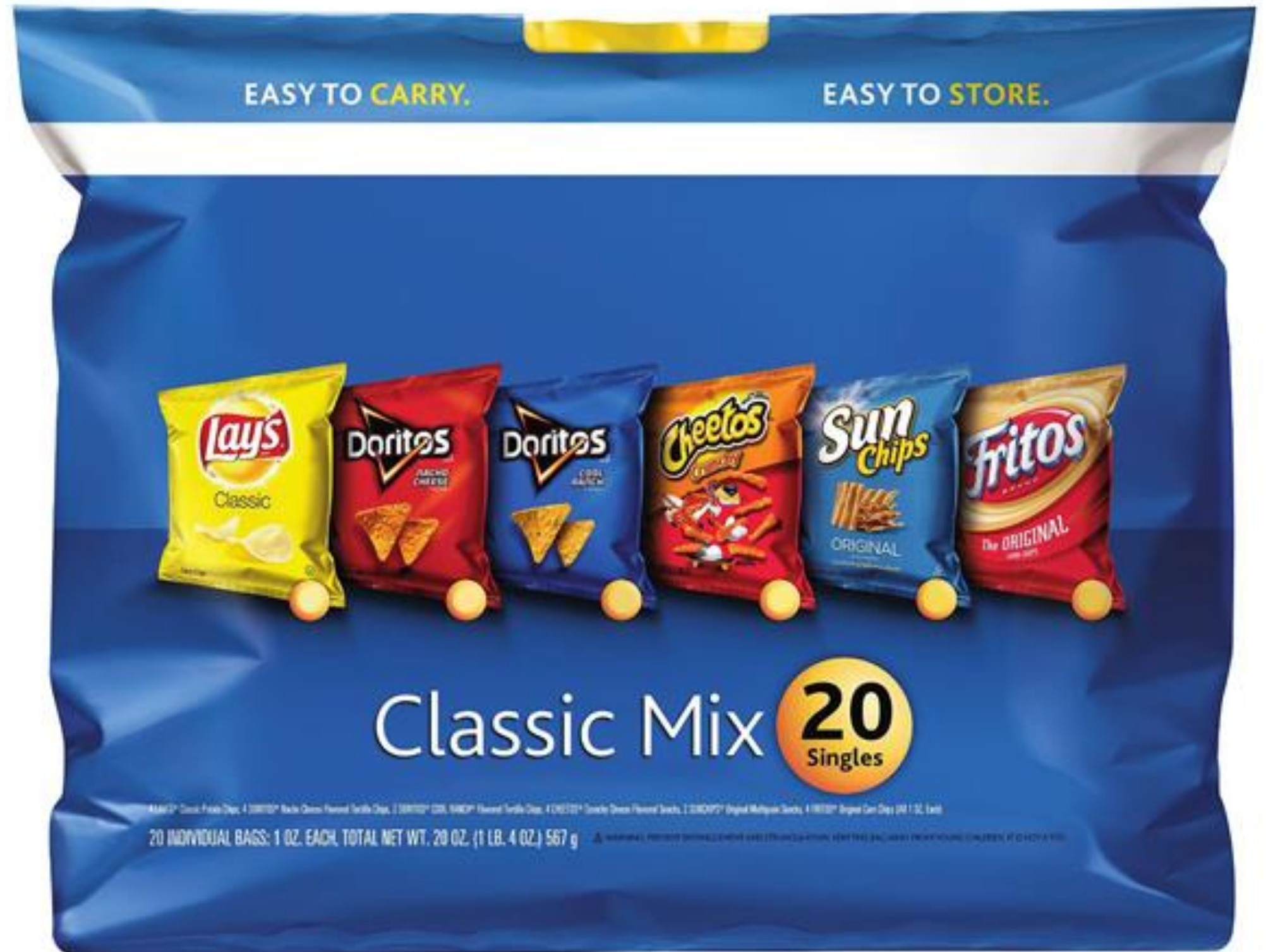
ANALYSTS' JOB FOR THE TOP 1

1. **Count** all the first place votes for each chip type.
2. **Divide** the total first place votes for each chip type by the total number of votes.
3. **Multiply that fraction** by 20 to find how many bags there would be in a twenty pack, **rounding** as necessary.

ANALYSTS' EXAMPLE

CHIP BAG RESULTS

20. Food Frito-Lay puts a variety of flavors in each package of chips. Survey your classmates and use proportions to figure out how many of each flavor there should be, then fill in the blanks.



GOALS

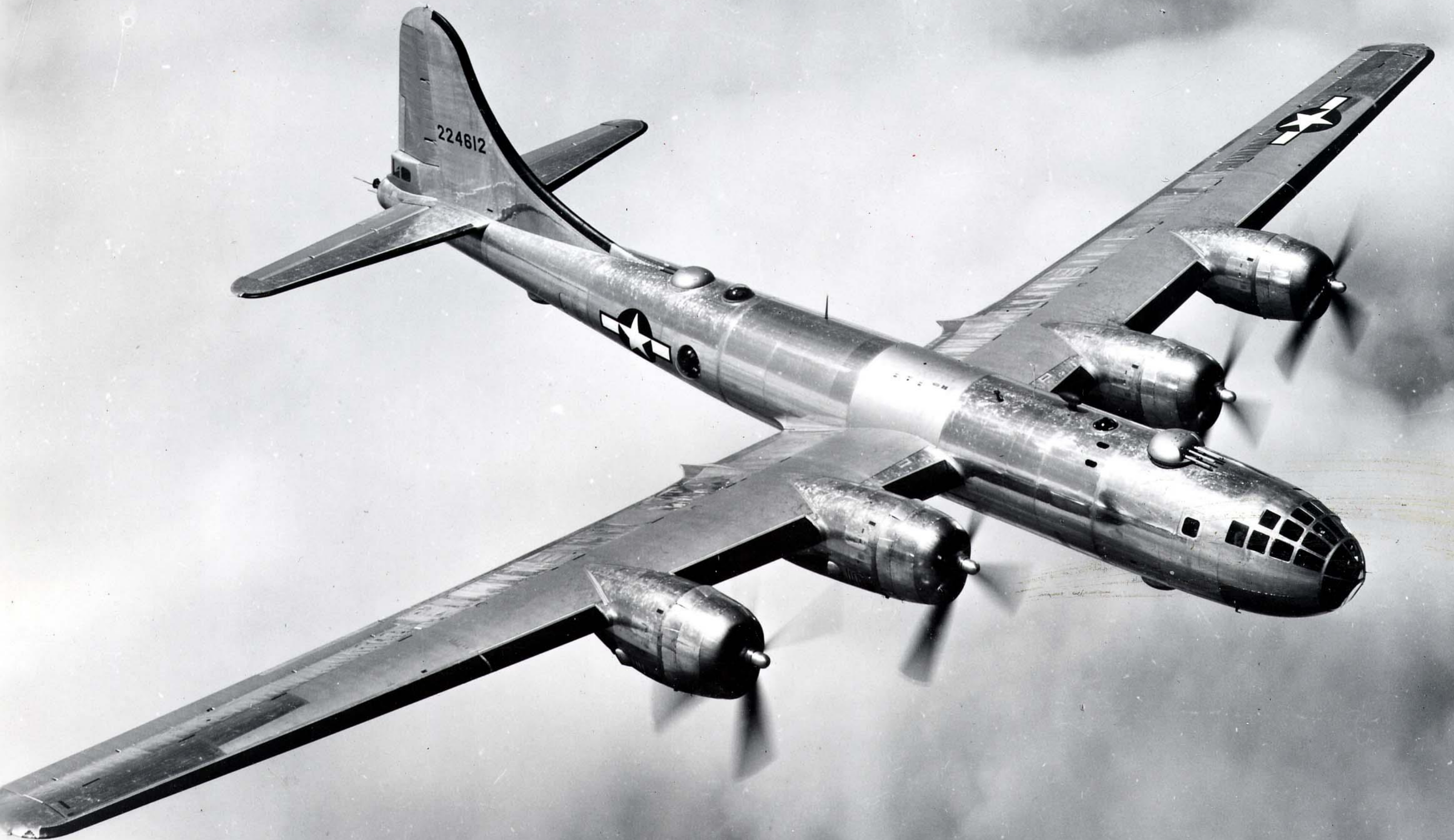
HOW DO WE MAKE SENSE OF MATH MODELING?

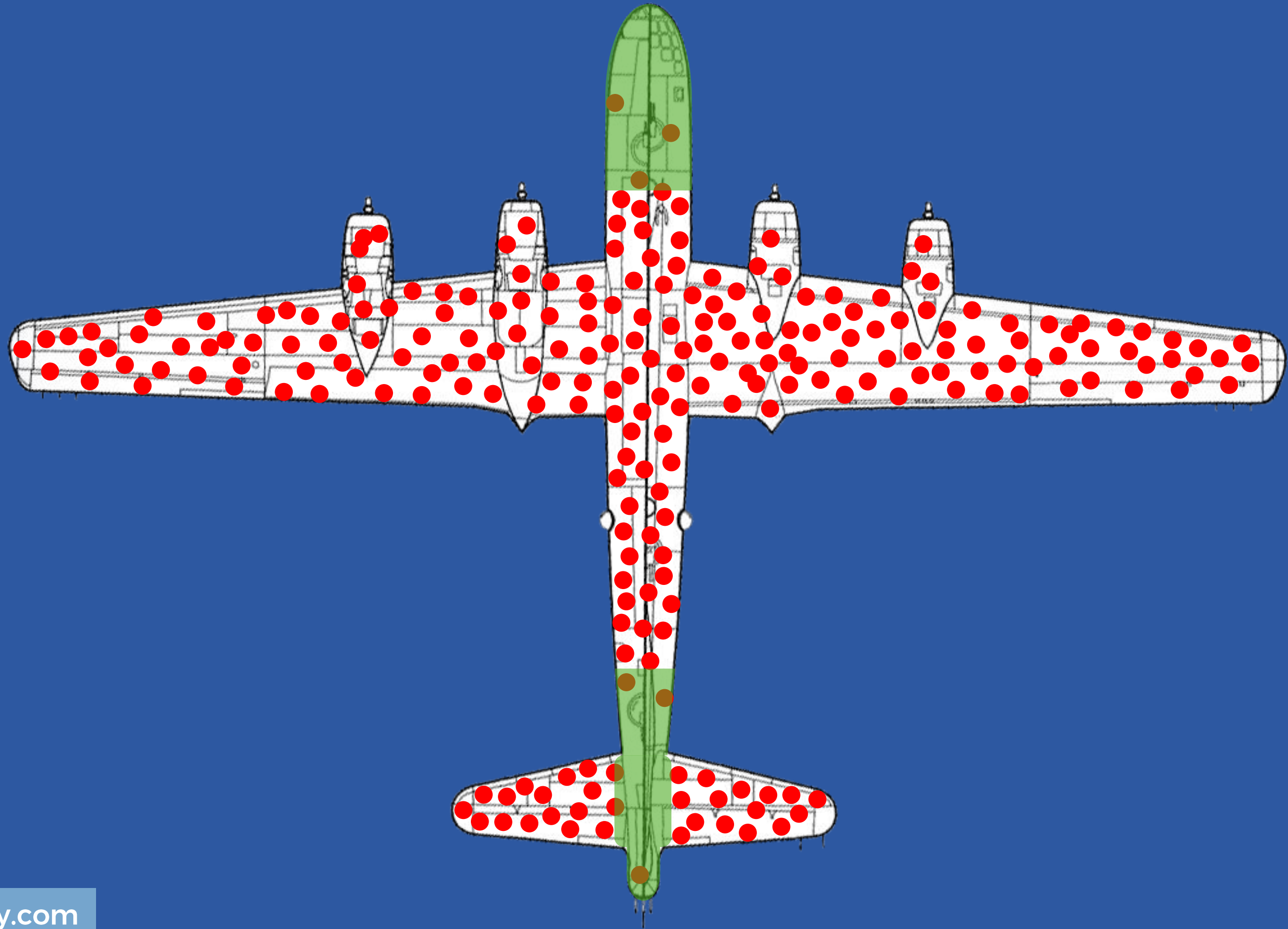
IS IT JUST ANSWERING QUESTIONS?

HOW IS MATH MODELING USED IN REAL LIFE?

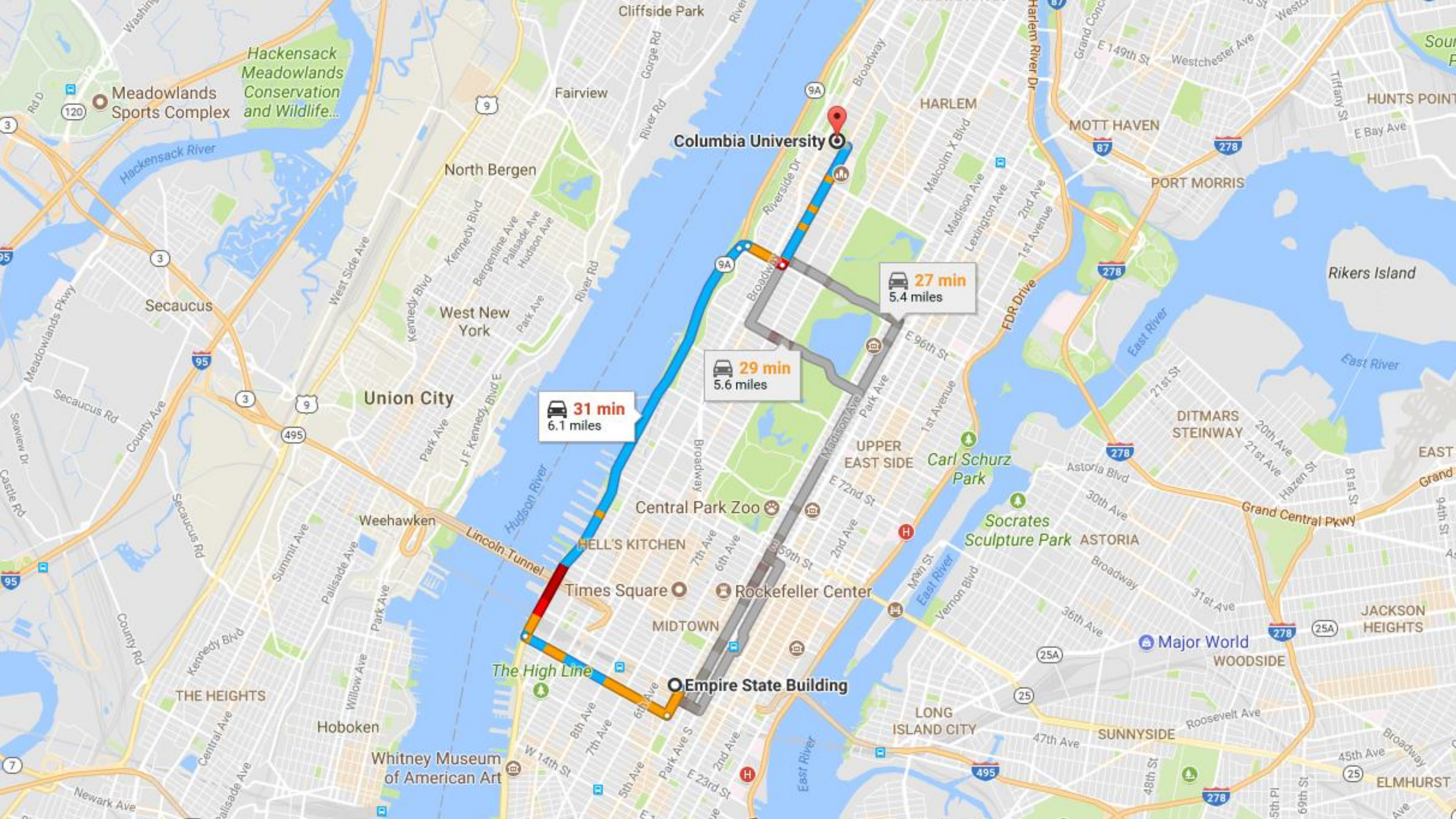
HOW DO WE HELP OUR STUDENTS IMPROVE?

WHERE CAN WE FIND MORE RESOURCES?





- ~~How do we protect our planes?~~
- ~~Which parts of the plane are being hit by the most bullets?~~
- Which parts of the plane are the most critical to protect?



Columbia University

Empire State Building

31 min
6.1 miles

29 min
5.6 miles

27 min
5.4 miles

- ~~How do we find the fastest route for each customer?~~
- How do we find the fastest route for each customer without impacting our other customers?



Classic Mix

20
Singles

4 LAY'S® Classic Potato Chips, 4 DORITOS® Nacho Cheese Flavored Tortilla Chips, 2 DORITOS® COOL RANCH® Flavored Tortilla Chips, 4 CHEETOS® Crunchy Cheese Flavored Snacks, 2 SUNCHIPS® Original Multigrain Snacks, 4 FRITOS® Original Corn Chips (All 1 OZ. Each)

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⚠ WARNING: PREVENT ENTANGLEMENT AND STRANGULATION. KEEP THIS BAG AWAY FROM YOUNG CHILDREN. IT IS NOT A TOY.

- ~~How many of each flavor should we put in a package?~~
- ~~How many of each flavor should we put in a package for each region?~~
- How can we determine if the extra cost of creating different packages will make us more money?

GOALS

HOW DO WE MAKE SENSE OF MATH MODELING?

IS IT JUST ANSWERING QUESTIONS?

HOW IS MATH MODELING USED IN REAL LIFE?

HOW DO WE HELP OUR STUDENTS IMPROVE?

WHERE CAN WE FIND MORE RESOURCES?



TARGET PARKING





```
graph TD; Spies --> Analysts; Analysts --> Model; Model --> Spies;
```

Spies

Analysts

Model



They used 25 products for a pregnancy prediction' score including:

- **unscented lotion**
- **mineral supplements**
- **cotton balls**

Source: New York Times



UNITED



N4047

B G →

B →

← G A

A319
4047


```
graph TD; Spies --> Analysts; Analysts --> Model; Model --> Spies;
```

Spies

Analysts

Model

Priority is determined by:

- passenger's fare class
- itinerary
- frequent flyer program membership
- check-in time

Source: United Airlines



Search



Robert

Home



Robert Kaplinsky

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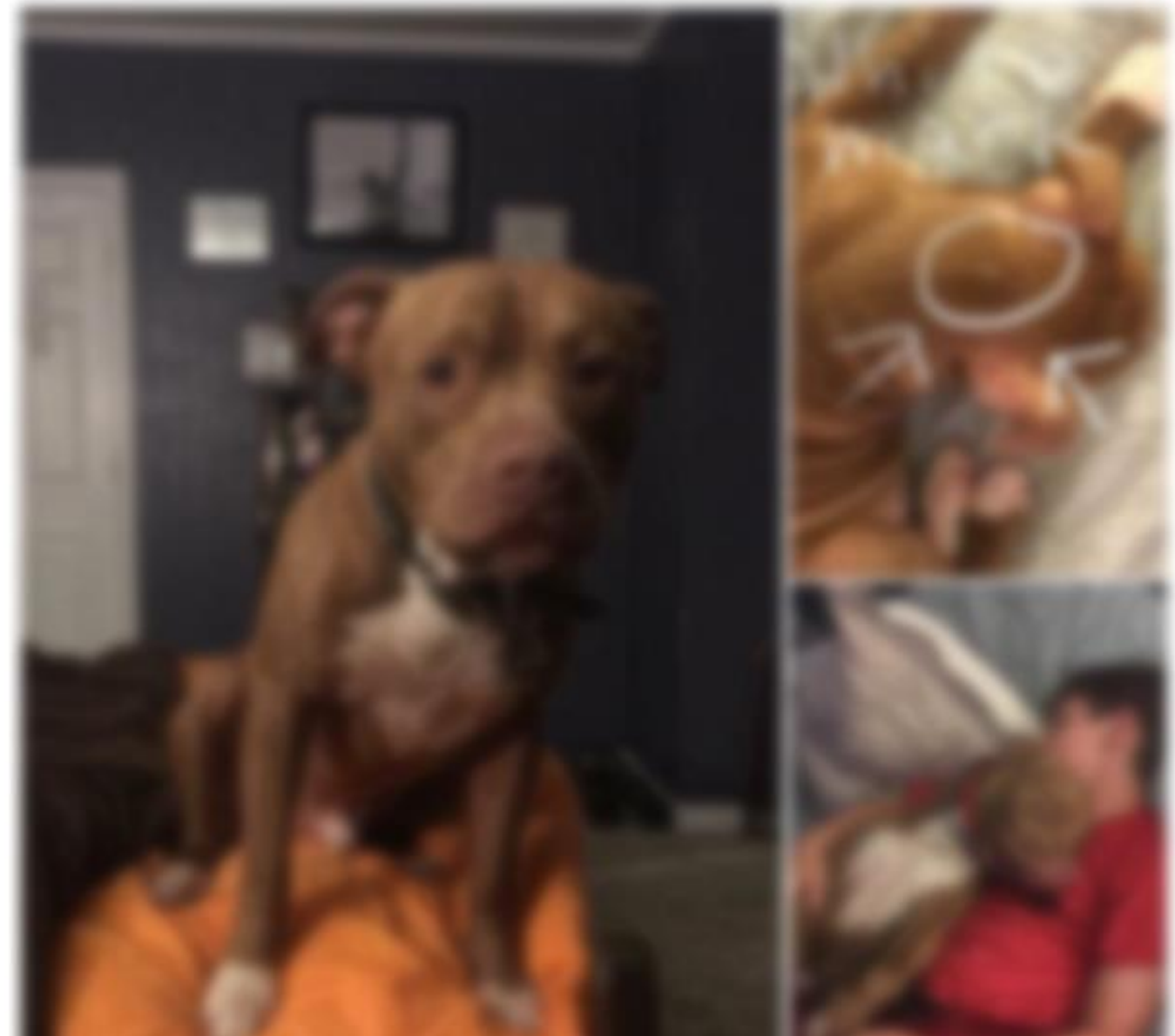
Ad · Page · Group · Event · Fundraiser

Make Post | Photo/Video Album | Live Video

What's on your mind, Robert?

Photo/Video | Feeling/Activity | ...

Ad Schedule...
Missing this dog gets back to his family



News Center

Trending

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- Anthony Weiner: Anthony Weiner Sentenced to 21 Months in Prison

Watchlist: Latest Episodes

- Episode 1: The Making of a Legend
- Episode 2: The Family
- Episode 3: The Making of a Legend

See All

Sponsored

Create Ad



Spies

Analysts

Model

The stories that show in your News Feed are influenced by:

- friends you interact with the most
- the number of comments and likes a post receives
- what kind of story it is (ex: photo, video, status update)

Source: Facebook

MORE EXAMPLES

- How does US News and World Reports rank colleges?
- How does Google know which results to show?
- How do sports teams know who to draft?
- How does Amazon know what products to recommend?
- How does Zillow estimate home prices?
- How does eHarmony know which people to show you?
- How does a school decide which students should take advanced math classes?
- How do they figure out who should speak at a conference?

GOALS

HOW DO WE MAKE SENSE OF MATH MODELING?

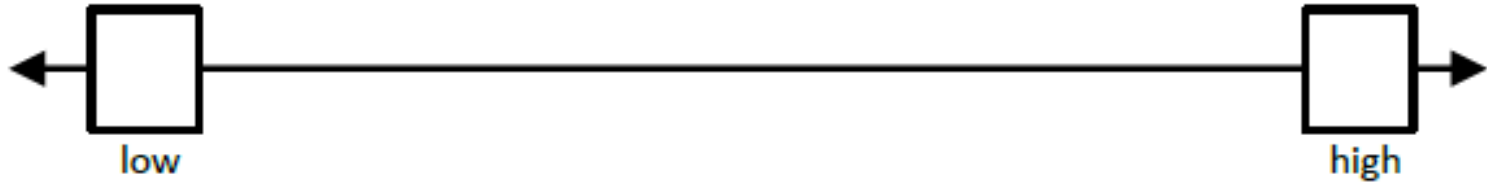
IS IT JUST ANSWERING QUESTIONS?

HOW IS MATH MODELING USED IN REAL LIFE?

HOW DO WE HELP OUR STUDENTS IMPROVE?

WHERE CAN WE FIND MORE RESOURCES?

Name: _____ Period: _____ Date: _____

What problem are you trying to figure out?	What estimates do you have?
	 <p data-bbox="2059 714 2768 752">Place your estimate on the number line.</p>
What info do you already know about the problem?	What info do you need about the problem?
<p data-bbox="736 1001 1685 1365">TOP SECRET!</p>	<p data-bbox="1725 767 2558 1103">SPIES ONLY</p>
What is your conclusion? How did you reach that conclusion?	

Your work

DANGER

**ANALYSTS
AT WORK**



LIVE



Source: robertkaplinsky.com/lessons


```
graph TD; Spies --> Analysts; Analysts --> Model; Model --> Spies;
```

Spies

Analysts

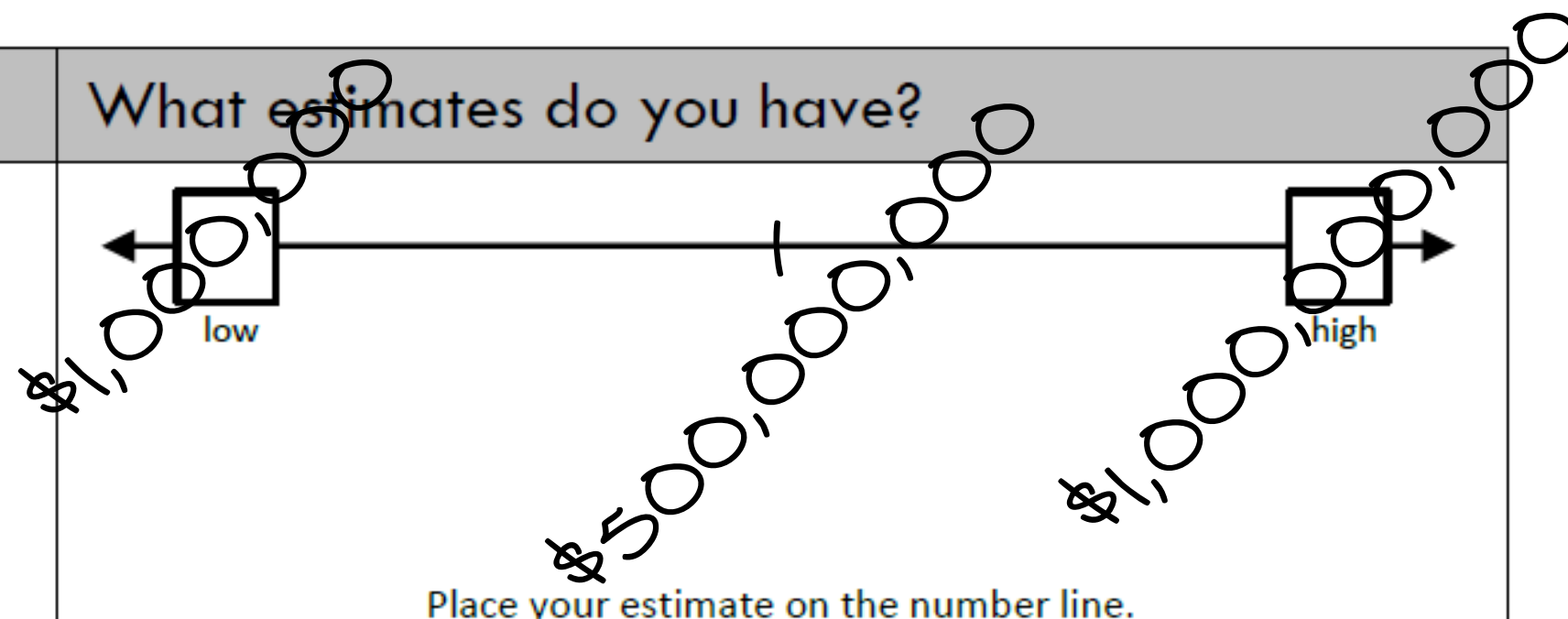
Model

THINKING TIME

What problem are you trying to figure out?

How much money was that?

What estimates do you have?



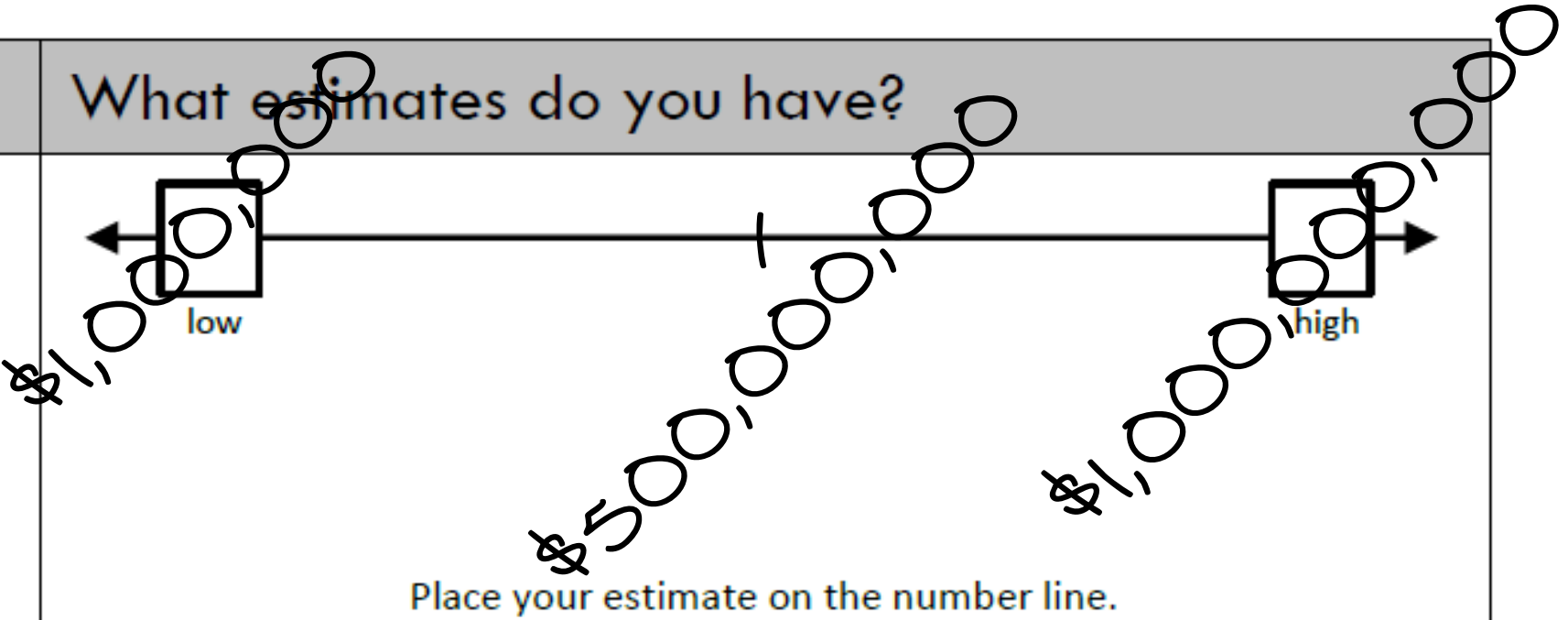
What info do you already know about the problem?

- There is a lot of money.
- It is in a pile.
- It is in bundles.

What info do you need about the problem?

- Is it all the same denomination?
- ~~How much does one bill weigh?~~
- ~~How much does all the money weigh?~~

What is your conclusion? How did you reach that conclusion?

What problem are you trying to figure out?	What estimates do you have?
<p>How much money was that?</p>	 <p>Place your estimate on the number line.</p>
What info do you already know about the problem?	What info do you need about the problem?
<ul style="list-style-type: none"> • There is a lot of money. • It is in a pile. • It is in bundles. 	<ul style="list-style-type: none"> • Is it all the same denomination? • How many rows and columns are there? • How many bills are in one stack?
What is your conclusion? How did you reach that conclusion?	



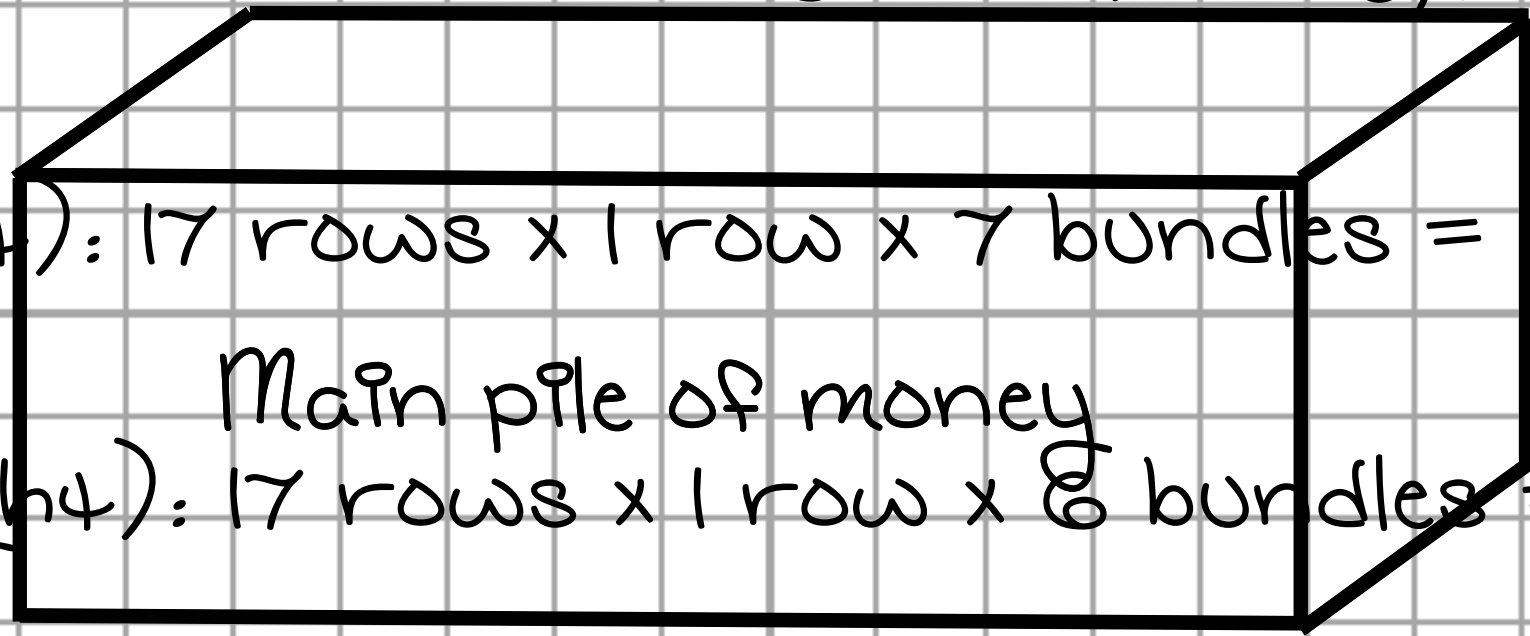


Your work

Main pile: 34 rows x 11 rows ~~rows~~ bundles = 3,740 bundles

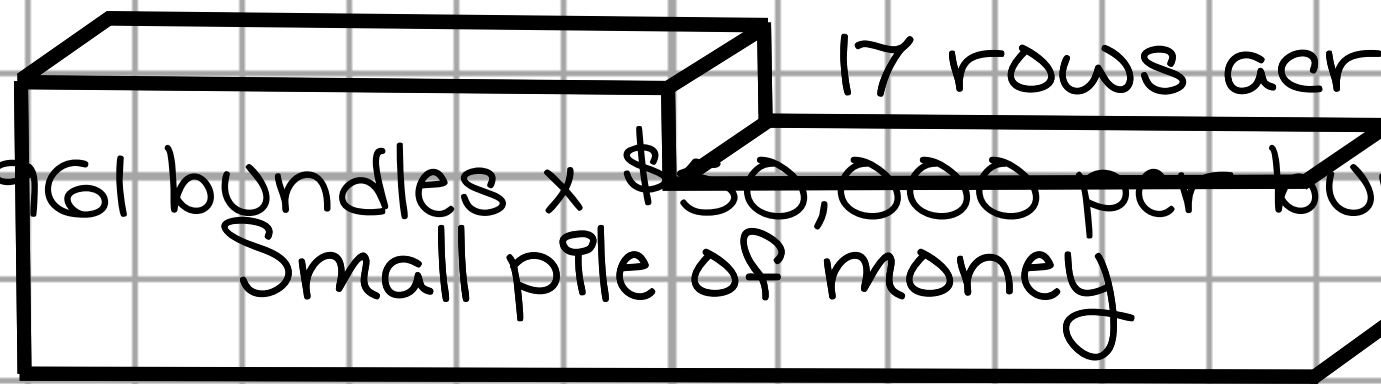
Small pile (left): 17 rows x 1 row x 7 bundles = 19 bundles
10 bundles

Small ^{high} pile (right): 17 rows x 1 row x 8 bundles = 102 bundles
11 rows deep



Total bundles: 3,740 + 19 + 102 = 3,961 bundles
17 rows across

Total money: 3,961 bundles x \$50,000 per bundle = \$198,050,000



8 bundles
high

7 bundles
high

LIVE



Source: robertkaplinsky.com/lessons

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Home

Math resources that create problem solvers, not robots.

Download my favorite lessons for elementary, middle, and high school.

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What happens next?

1

Keep coming back for more free lessons and resources.

2

Learn implementation tips from my blog and weekly emails.

3

Take my online workshop for more implementation support.

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Scary & Dangerous





WHY WE SHOULD RECONSIDER USING WORD PROBLEMS (AND WHAT WE SHOULD BE DOING INSTEAD)

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WANT THE RESOURCES?

Enter your information at:

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Questions & Answers



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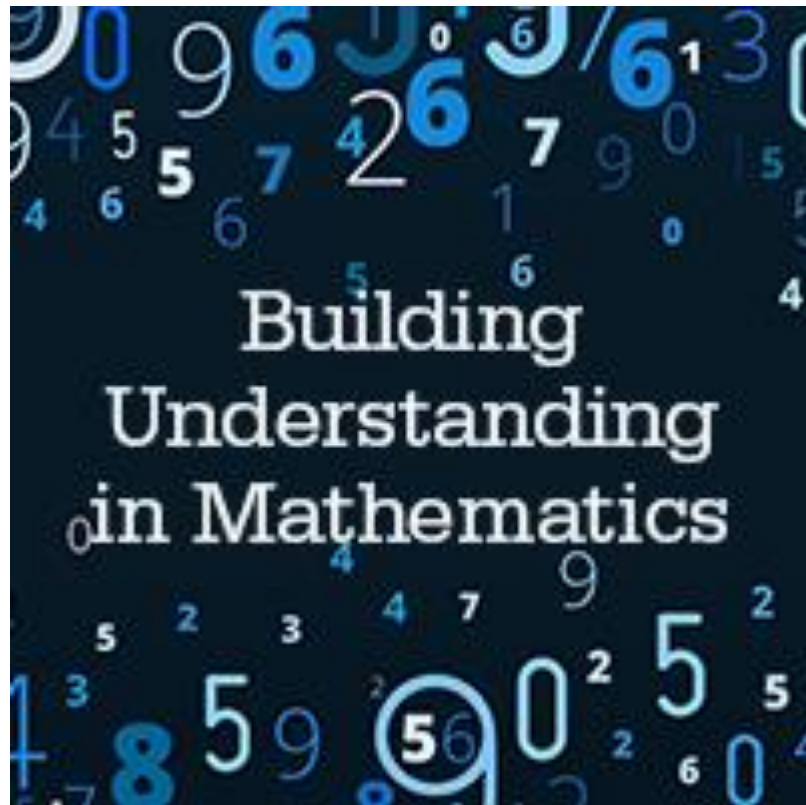
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