

HEPATITIS A OUTBREAK SAN DIEGO COUNTY



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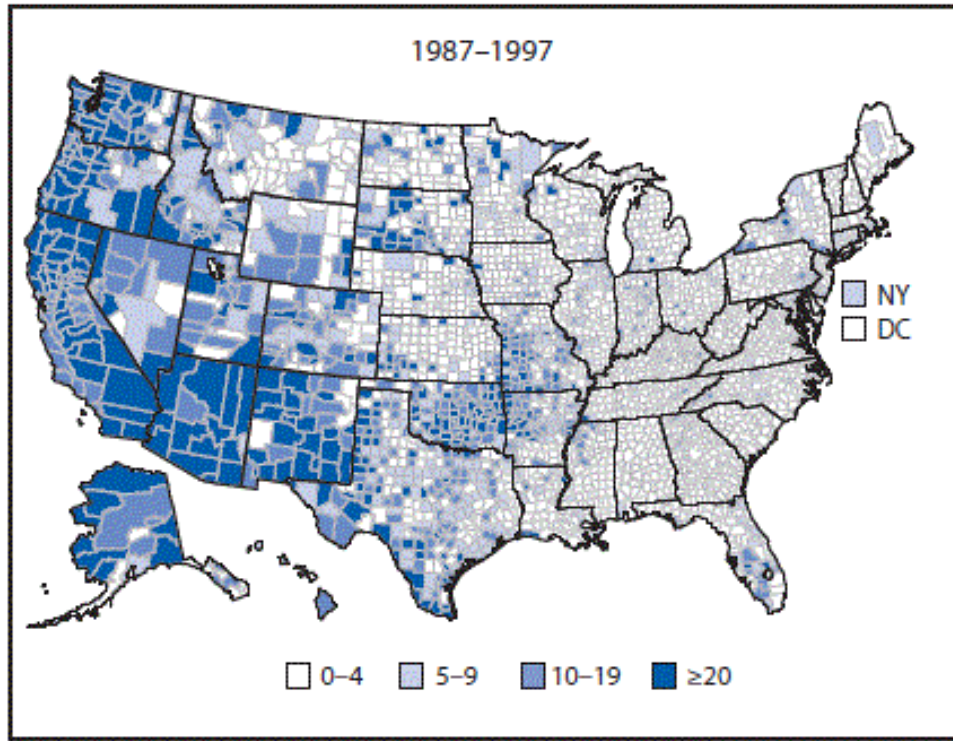
NAICP Quarterly Call

October 3rd , 2017



Image: CDC

Incidence* of reported acute hepatitis A cases National Notifiable Diseases Surveillance System, United States, 1987–1997† (pre-vaccine) and 2007



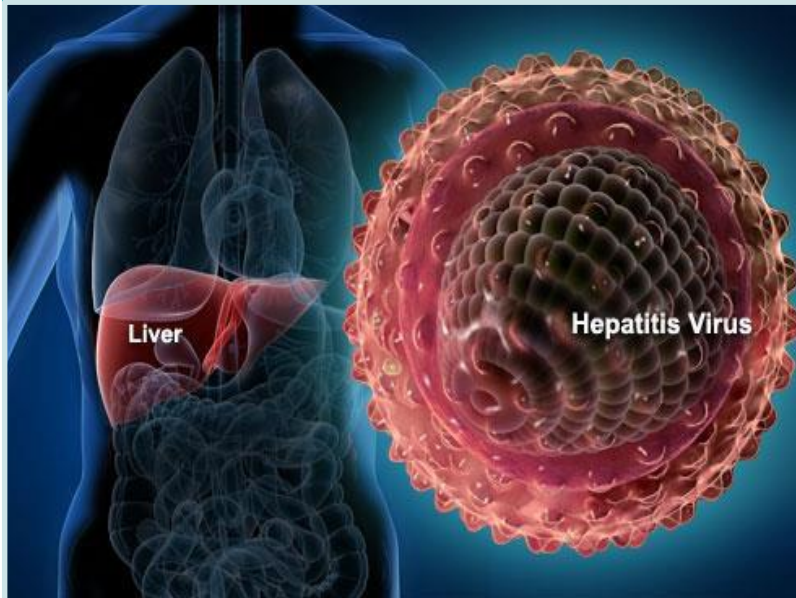
* Rate per 100,000 population.

† Annual average incidence.

Source: CDC. Downloaded 7/1/17 from:
<https://www.cdc.gov/mmwr/volumes/65/su/su6501a6.htm>



Caused by a virus



Hepatitis A can easily spread from person-to-person

Can cause liver disease lasting a few weeks to a serious illness lasting several months

Can cause death in some cases

Average incubation period for Hepatitis A infection is 28 days (range: 15–50 days)

The virus can live outside the body for months, depending on the environmental conditions

An individual can be contagious up to two weeks before developing symptoms or 1-2 weeks after onset of symptoms

Adequate chlorination of water kills the virus that enters the water supply

Vaccination with the full, two-dose series is the best way to prevent infection

***Ingestion of fecal matter,
even in microscopic amounts, from:***

**Touching objects
or eating food that
someone with a
Hep A infection
handled**

**Close person-to-
person contact
with an infected
person**

**Use of recreational
drugs, whether
injected or not**

**Sexual contact
with someone who
has a Hep A
infection**

HEPATITIS A - SYMPTOMS



Fever



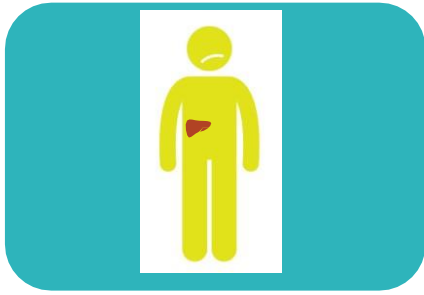
Fatigue



Nausea



Loss of Appetite



Jaundice



Stomach Pain

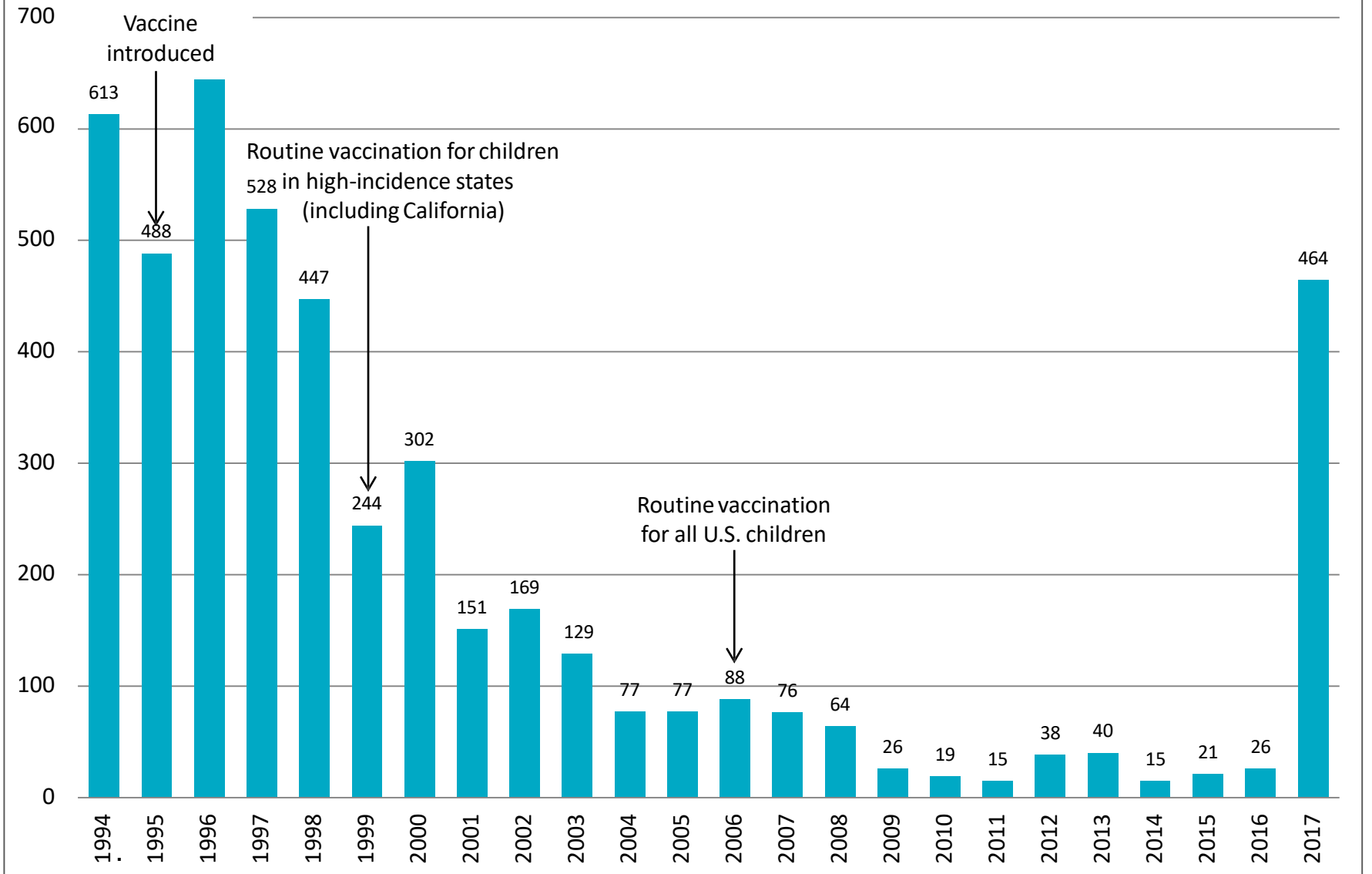


Vomiting



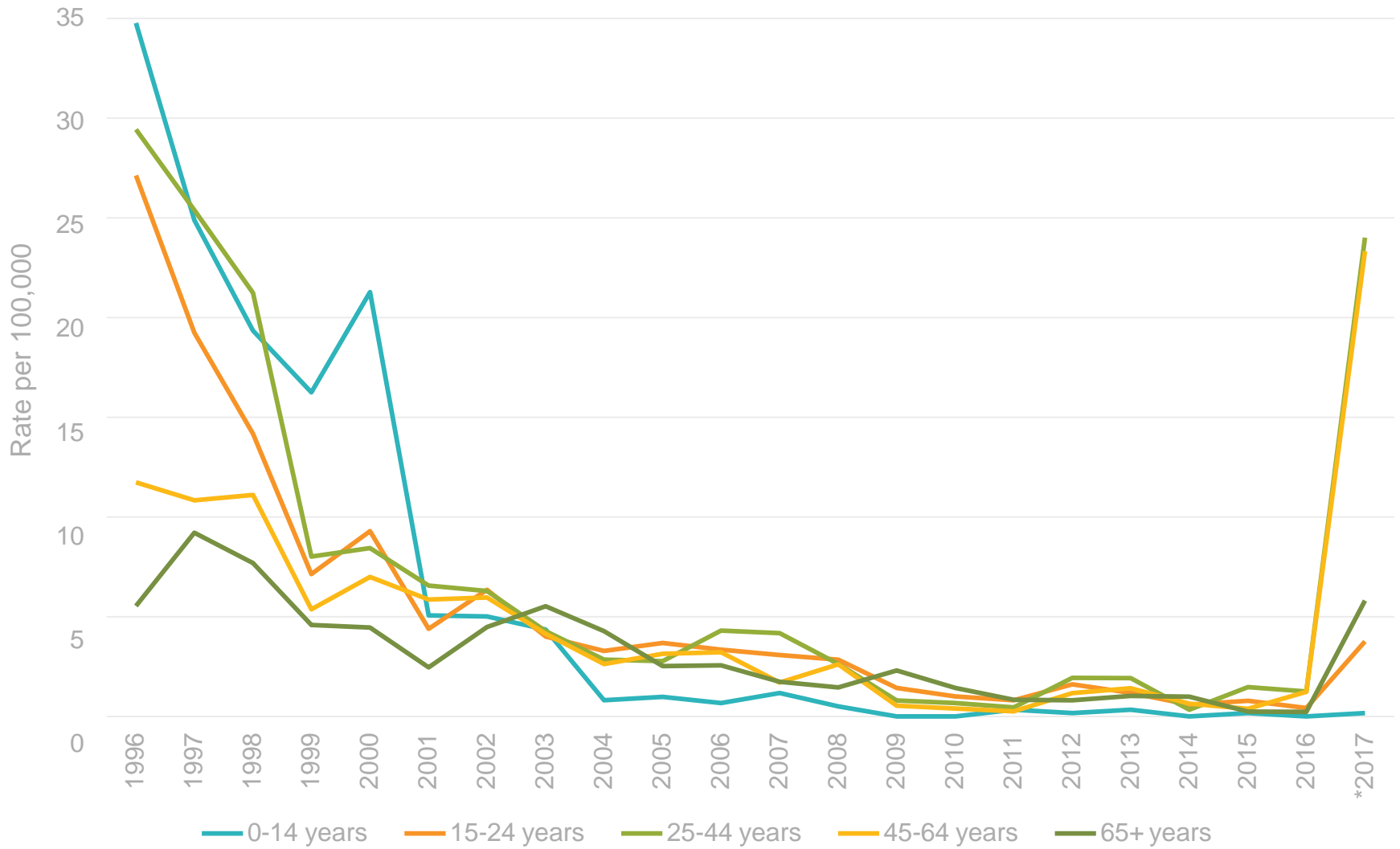
Dark Urine, Pale Stools and Diarrhea

All Hepatitis A Cases, San Diego County 1994 - 2017*



*Year to date. Prepared by County of San Diego, Health & Human Services Agency, Public Health Services, Epidemiology & Immunization Services, 9/18/17

Rate of HAV Infection by Age, San Diego County 1996-2017*



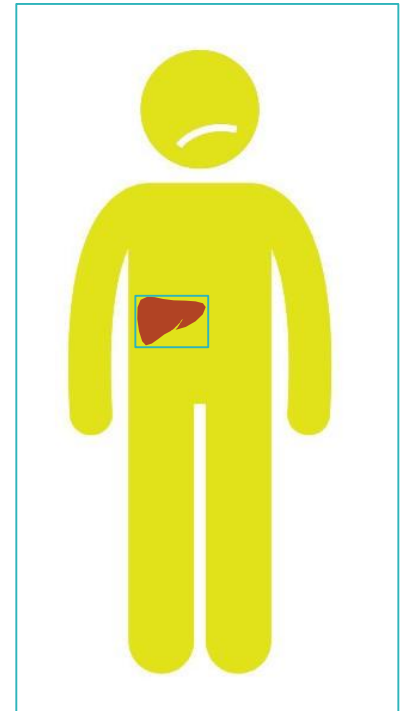
*2017 year to date. Data current as of 9/5/2017. Data are provisional and subject to change as additional information becomes available.
Grouped by CDC disease years.

HEPATITIS A OUTBREAKS, UNITED STATES 1995 - PRESENT

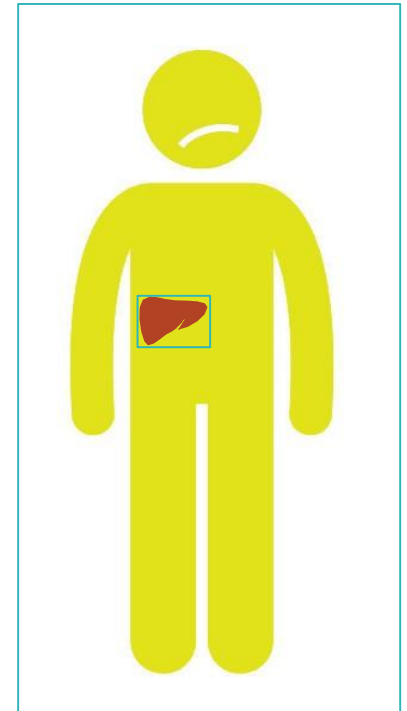


YEAR	LOCATION	METHOD OF SPREAD/SOURCE	#CASES	#HOSPITALIZATIONS	#DEATHS
2003	PA & OH	Food (Green Onions)	660	Unknown	3 (0.5%)
2016-17	SAN DIEGO	Close Person to Person Contact	444	305(69%)	16 (3.6%)
2016	HAWAII	Food (Raw Scallops)	292	74 (25%)	0
2016-17	MICHIGAN	Close Person to Person Contact	190 (last public update)	Unknown (87%)	10 (5.2%)
2013	10 states	Food (Pomegranate Seeds)	165	71 (43%)	0

- **481 confirmed outbreak cases from 11/22/16 thru 10/5/17**
 - **337 (70%) hospitalizations, 17 (3.7%) deaths**
 - **306 (69%) male, 138 (31%) female**
 - **Age range 5-87 (median 43)**

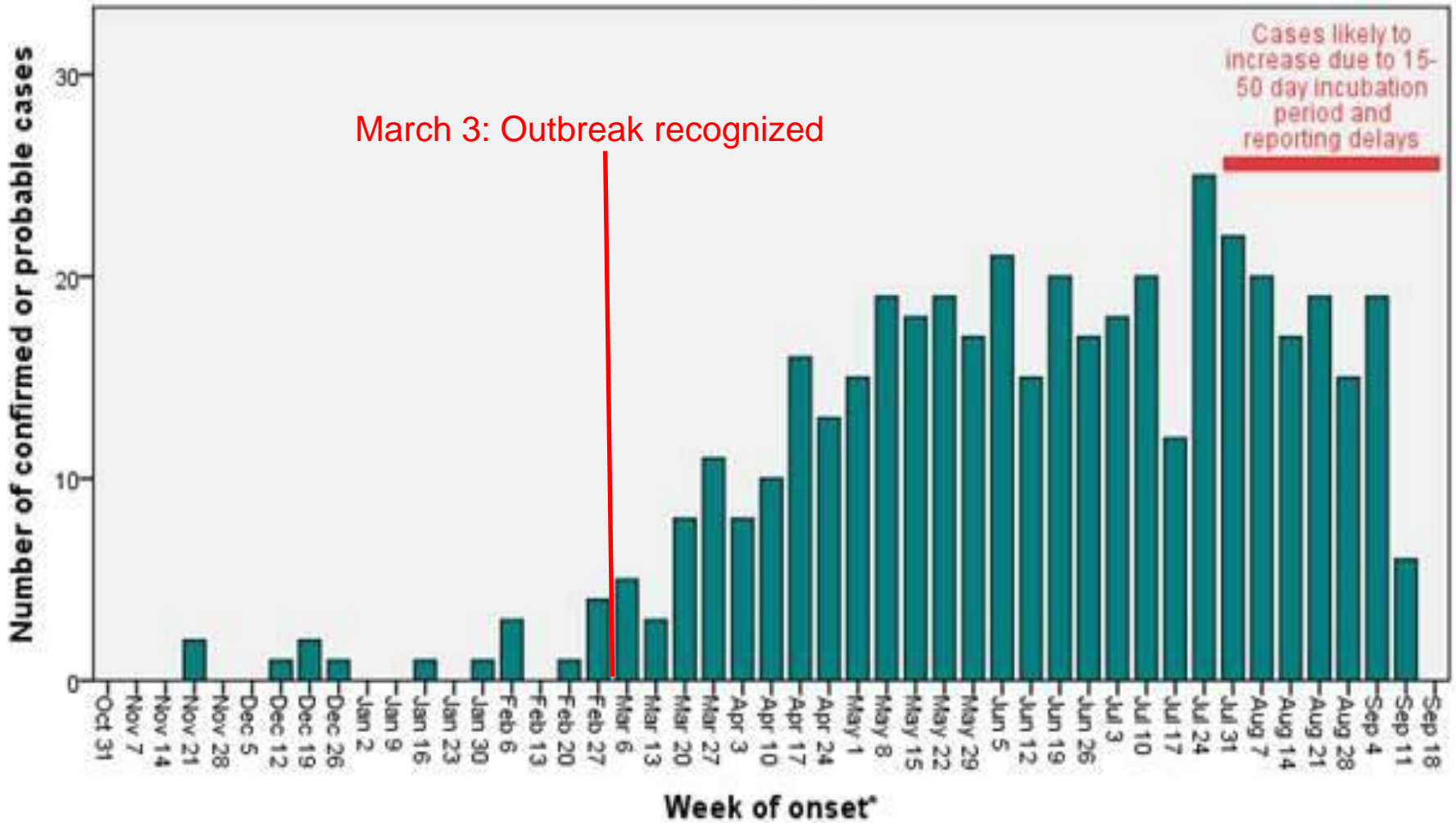


- **Other Liver Diseases**
 - **64/340 (18.8%) with hepatitis C**
 - **18/344 (5.2%) with hepatitis B**
- **Not included in outbreak count –
26 travel-related cases**
- **44 cases under investigation**
- **Epi & viral sequence linked cases
in other CA counties, UT, AZ, CO**

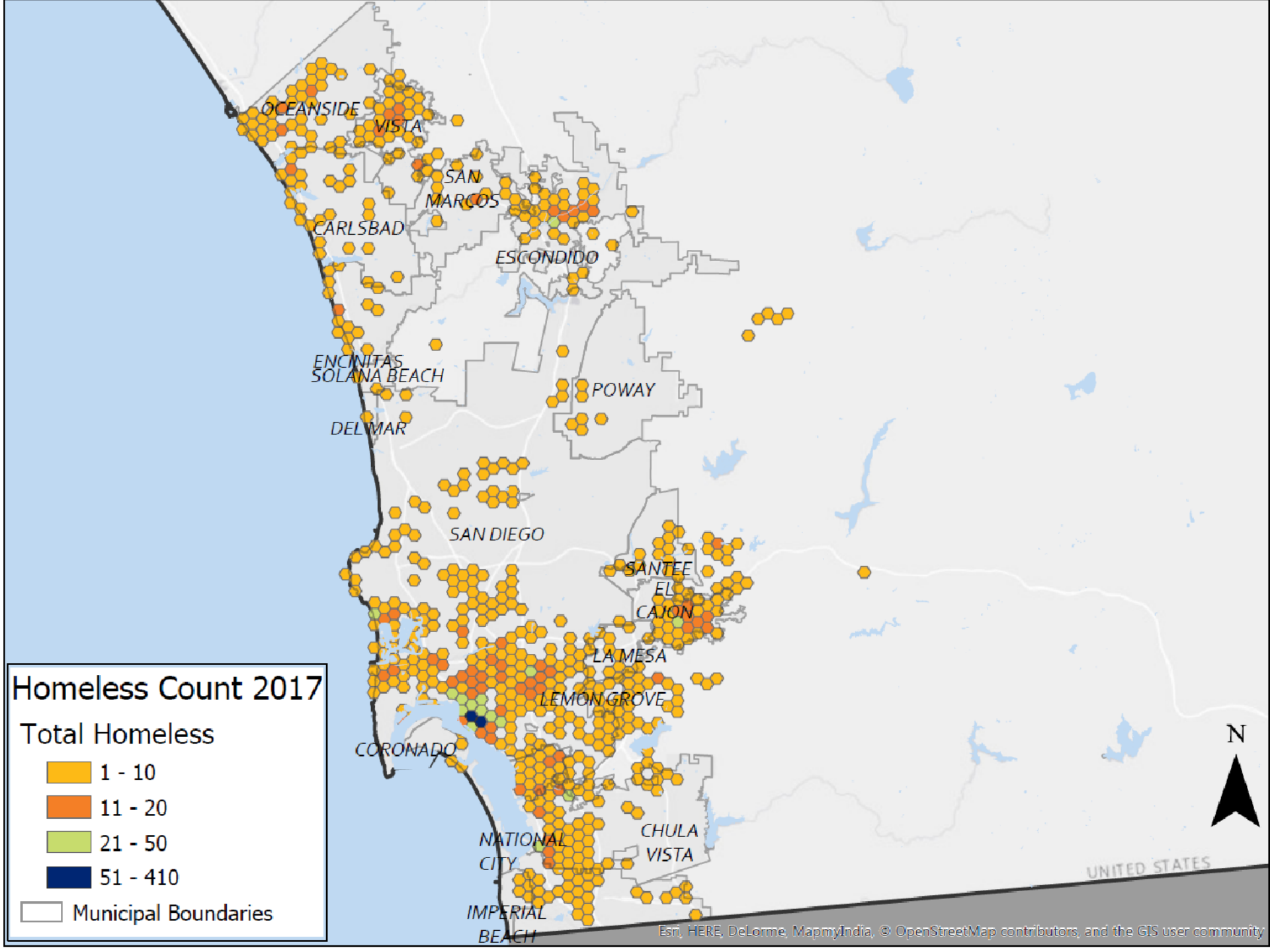


Outbreak-associated Hepatitis A cases by onset week

11/1/2016–9/18/2017, N = 444*



*Date of specimen collection or report used if onset date unknown; dates may change as information becomes available

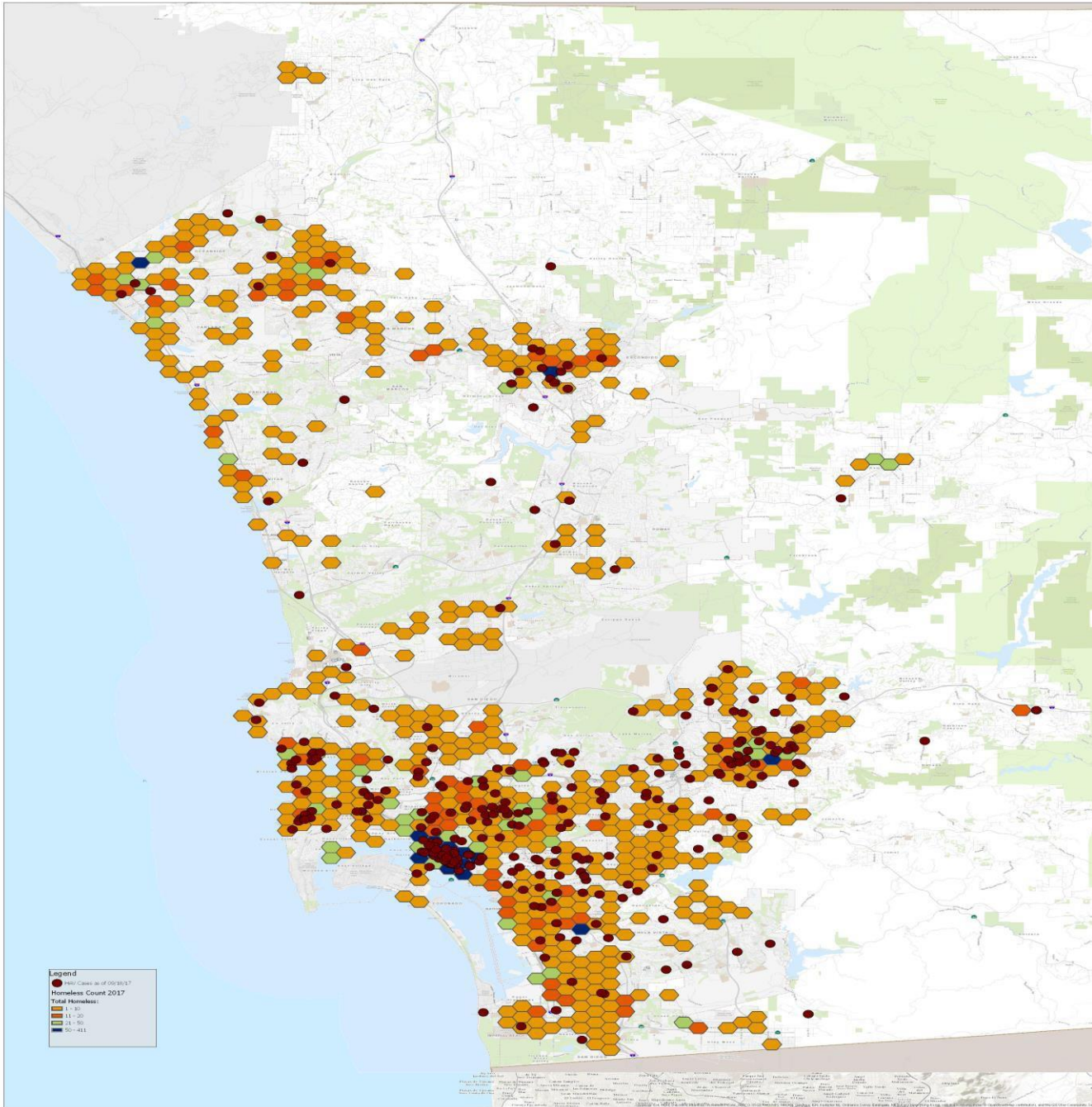


Homeless Count 2017

Total Homeless

- 1 - 10
- 11 - 20
- 21 - 50
- 51 - 410

Municipal Boundaries



MANAGEMENT OF HEPATITIS A OUTBREAK



- Developed an Incident Command System to manage outbreak.
- Conducted case investigations, post-exposure prophylaxis, and surveillance.
- Worked closely with DEH on possible food sources and communication to partners. No food sources identified.
- Implemented plan focused on three **strategies**:
 - **Vaccinate. Sanitize. Educate**
- Requested CDC staffing support via CDPH on **May 2nd**. Two CDC epidemiologists stationed for 3 weeks.
- Sent memo to hospital CEOs **July 14th**
- Met with HUD on **April 18th**, more recent meetings in **August** resulted in formal TA request and meeting on **September 14th**.
- Issued Directive to the City of San Diego on **August 31st**.
- Declared a local health emergency on **September 1st**.

- **More than 42,00 total vaccines administered across the County as of Sept 29**
 - **15,660 given by County staff through field events (e.g., foot teams, mobile vans, and mass vaccination clinics), jails/detention centers, Tuberculosis Clinic, and the County Psychiatric Hospital.**
 - **22, 400 provided by health care systems, federally qualified health centers, and pharmacists.**
 - **202 vaccinations provided as post exposure prophylaxis.**
- **Unique opportunities such as vaccinating at jail intake, Emergency Departments, behavioral health institutions, with Homeless Outreach Team police**



Foot Team Vaccination Efforts

- **Sanitation of streets being conducted by City of SD**
- **Disinfection guidance for indoor areas**
 - **Food inspectors provided guidance information to operators during more than 6,200 inspections**
- **3,657 hygiene kits distributed**
- **45 handwashing stations placed**
- **96 public restrooms available in City of San Diego**



Handwashing station being used in downtown San Diego on 9/2 (Photo: San Diego Union Tribune)



City contractor cleaning a street in downtown San Diego on 9/11 (Photo: San Diego Union Tribune)

HAND WASHING STATIONS & HYGIENE KITS



Hygiene Kits



Hand Sanitizer Stations



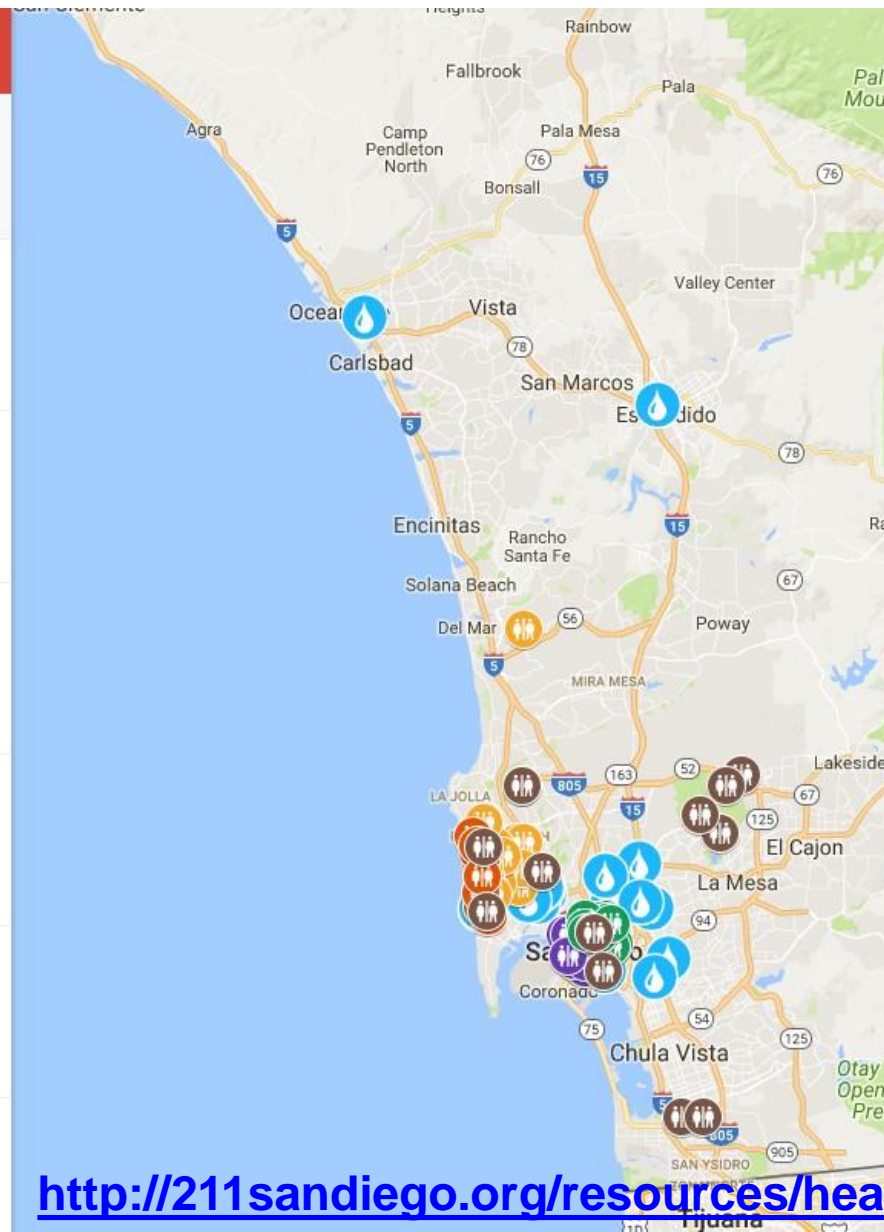
MAP OF HANDWASHING STATIONS AND PUBLIC BATHROOMS ON 211 PAGE



Hepatitis A - Hand Wash... 🔍 ⋮

A list of hand washing stations
245 views ☆
[SHARE](#)

- Hand Washing Stations updated Sept-17..
All items
- Public Bathrooms - Downtown - Updated..
All items
- Public Bathrooms - Balboa Park - Updat..
All items
- Public Bathrooms - Mission Bay Park - U..
All items
- Public Bathrooms - Shoreline Parks - Up..
All items
- Public Bathrooms - Regional Parks - Upd..
All items



<http://211sandiego.org/resources/health-wellness>

- **Eight news stories, one press conference 9/19**
- **Seven CA Health Alert Network (CAHAN) notifications about the outbreak, eighth about Immune Globulin**
- **Partnership with 211 for general inquiries and resources**
- **Meeting with city leadership of affected jurisdictions**
- **Health care provider meeting 9/19**
- **Over 86 presentations given**
- **Flyers, FAQs, and more available on webpage:**

<https://tinyurl.com/n8z6mf3>



LIVE WELL
SAN DIEGO

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