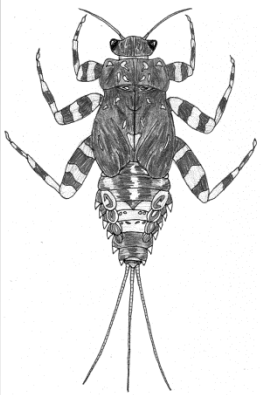
Tiers of Engagement for Volunteer Monitoring

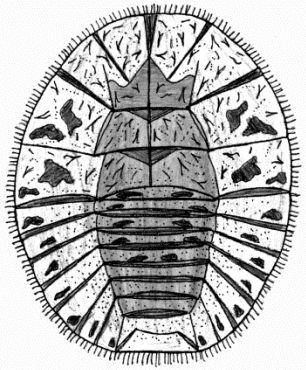
Samantha Briggs, sbriggs@iwla.org
Izaak Walton League of America

CLEAN WATER CHALLENGE

Our goal is to monitor water quality at 100,000 more stream sites nationwide by 2022 and improve water quality across the country



SAVE OUR STREAMS



Basic Save Our Streams (SOS)

- one day (8 hrs) of training
- two written/online test to become certified
- Chemical, biological, and physical monitoring

VASOS

- one day (8 hrs) training
- two written/online tests to become certified
- biological and physical monitoring
- more rigorous protocol
- Data used by VADEQ

Other Protocols

- specific regional protocols
- nutrients
- fecal coliform
- most will be adopted from partner organizations

Stream Selfie

scistarter®
Science we can do together.

My Accou

Find more projects

(3)

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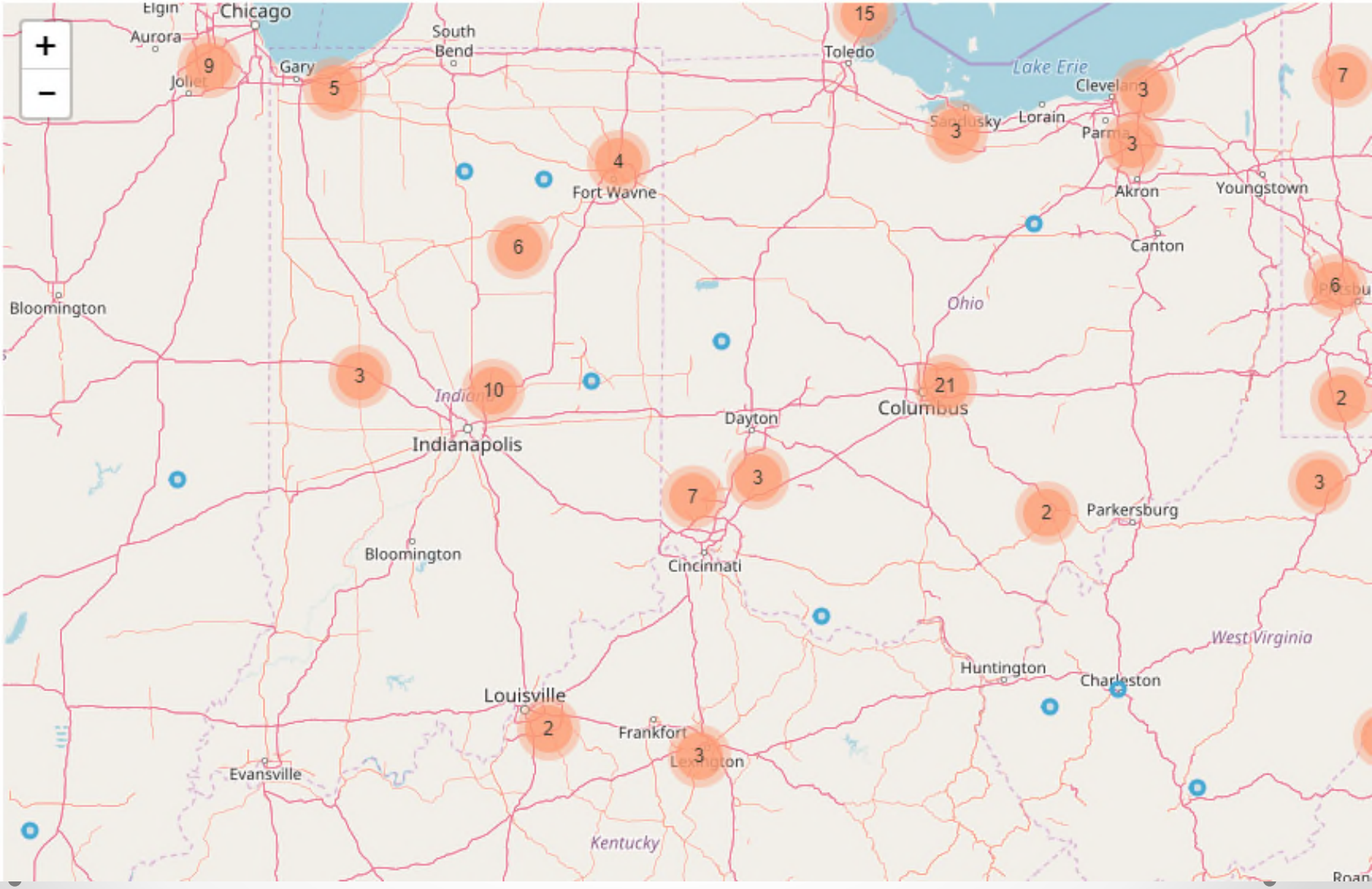
Get started

Stream Selfie

Presented By:	Izaak Walton League of America
Goal:	Map streams across the country and sta
Task:	Simply snap a pic of your local stream ar
Where:	North America United States of America
Description:	What's in YOUR water? We all have the r backyards and neighborhood parks are s information about water quality across t information gap. Stream Selfie connects you with thousar of streams across America. Simply snap
Website:	http://www.streamselfie.org
Social Media:	

Add a stream photo



#StreamSelfie
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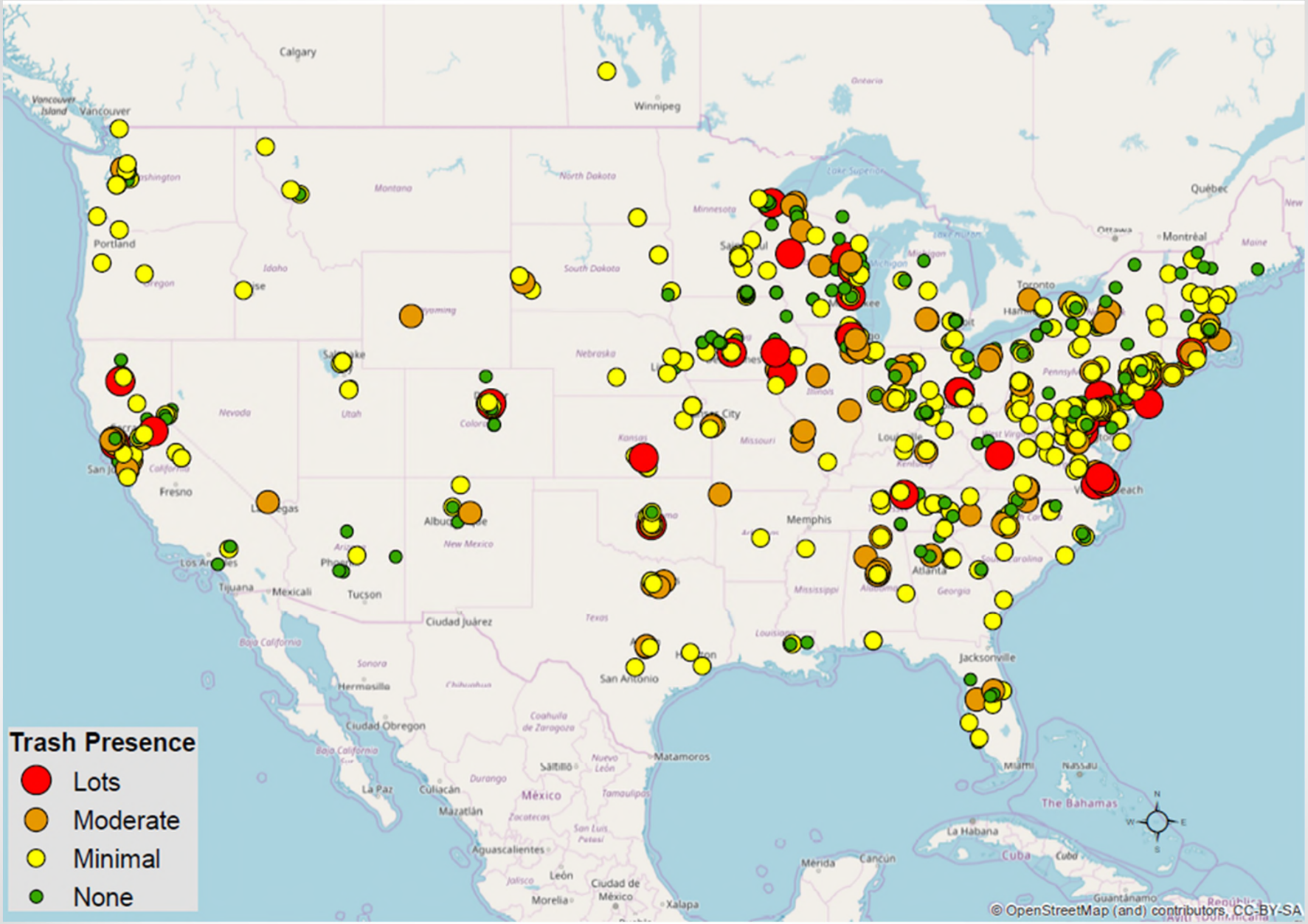
Trash Presence
Lots
Moderate
Minimal
None
Calgary
Vancouver
Winnipeg
Portland
Fresno
Tucson
Ciudad Juárez
Memphis
Atlanta
Jacksonville
San Antonio
Hermosillo
Ciudad Obregon
Matamoros
La Paz
Culiacán
Mazatlán
México
Aguascalientes
León
Morelia
Ciudad de México
Xalapa
Mérida
Cancún
La Habana
Cuba
Nassau
The Bahamas
Montréal
Québec
Toronto
Ottawa
Montana
North Dakota
South Dakota
Nebraska
Kansas
Missouri
Illinois
Texas
Georgia
Mississippi
Nevada
Utah
Idaho
Oregon
Baja California
Sonora
Chihuahua
Coahuila de Zaragoza
Durango
Zacatecas
Jalisco
Tamaulipas
Nuevo León
Saltillo
Ontario
Lake Superior
Lake Huron
Michigan
Minnesota
Maine
Pennsylvania
Louisville
Kentucky
Louisiana
Arizona
New Mexico
Tijuana
Mexicali
Los Angeles
San Jose
Salt Lake
Albuquerque
Phoenix
Cuba
Guantánamo
N
S
E
W
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WINTER SALT WATCH

Taking Stream Selfie to the next level – monitoring!

Winter Salt Watch

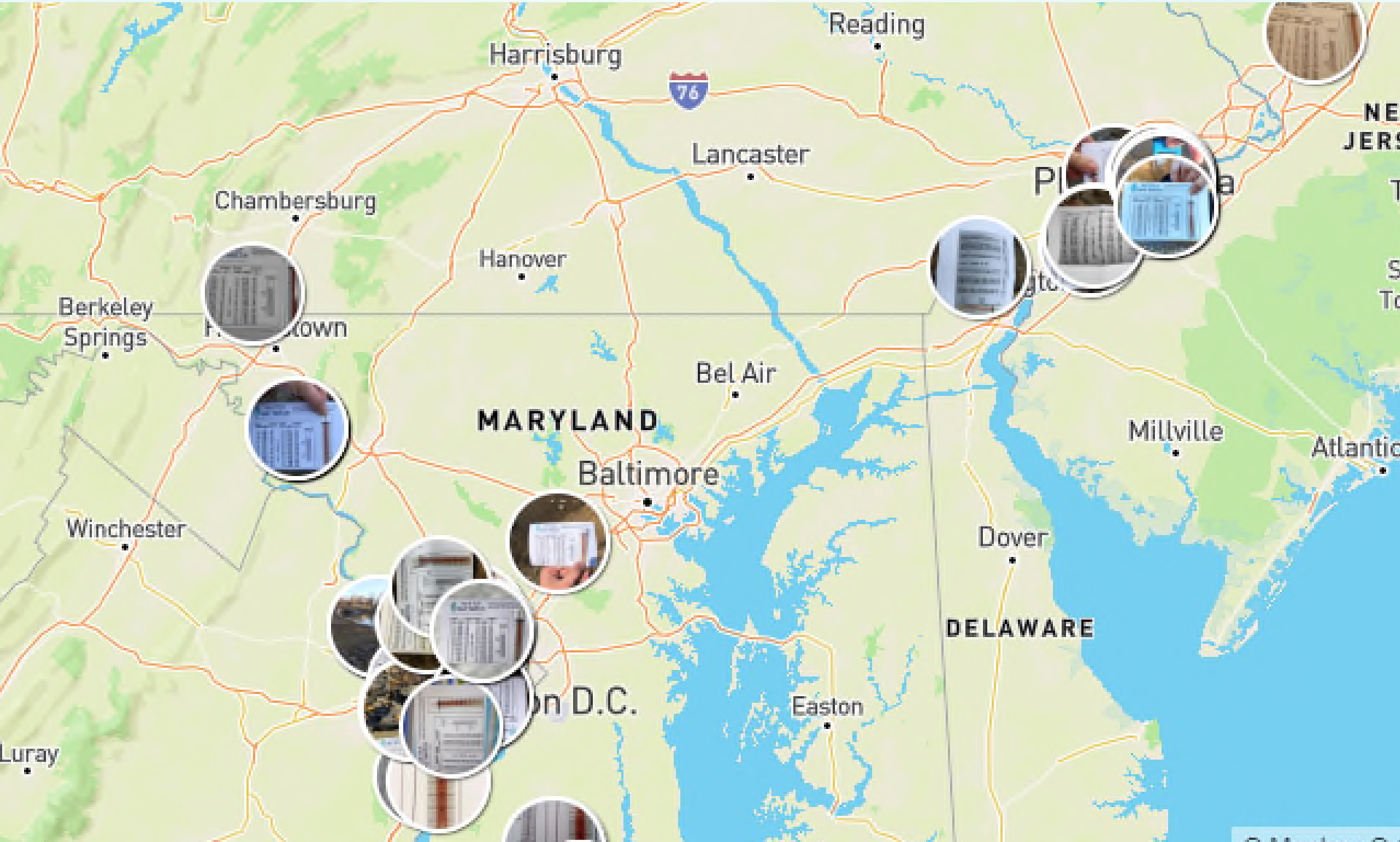
Date: _____

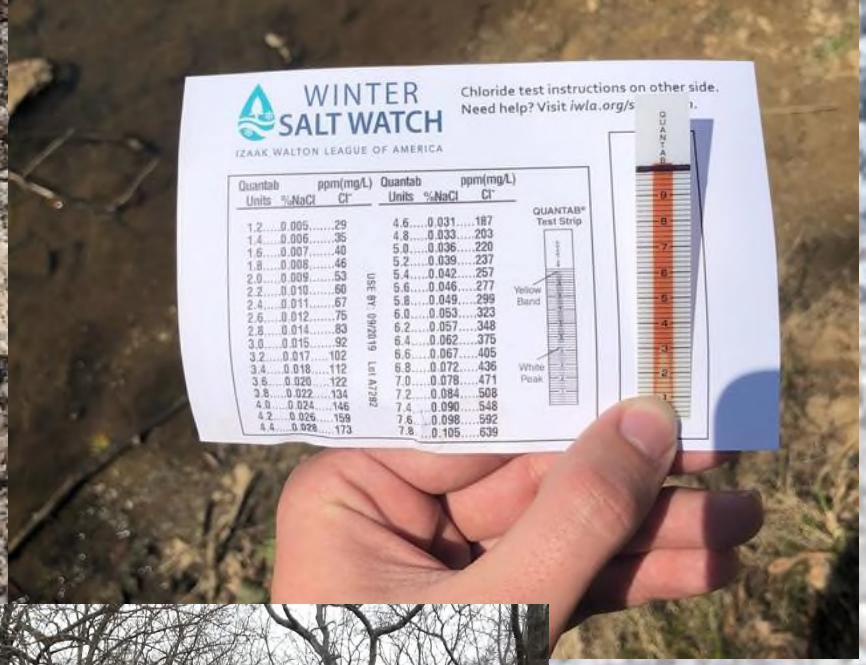
Quantab Units	%NaCl	ppm(mg/L) Cl^-
1.2	0.005	29
1.4	0.006	35
1.6	0.007	40
1.8	0.008	46
2.0	0.009	53
2.2	0.010	60
2.4	0.011	67
2.6	0.012	75
2.8	0.014	83
3.0	0.015	92
3.2	0.017	102
3.4	0.018	112
3.6	0.020	122
3.8	0.022	134
4.0	0.024	146
4.2	0.026	159
4.4	0.028	173
4.6	0.031	187
4.8	0.033	203
5.0	0.036	220
5.2	0.039	237
5.4	0.042	257
5.6	0.046	277
5.8	0.049	299
6.0	0.053	323
6.2	0.057	348
6.4	0.062	375
6.6	0.067	405
6.8	0.072	436
7.0	0.078	471
7.2	0.084	508
7.4	0.090	548
7.6	0.098	592
7.8	0.105	639

USE BY: 09/2019 Lot A7282

QUANTAB® Test Strip

Easy Submission with Water Reporter




WINTER
SALT WATCH
IZAAK WALTON LEAGUE OF AMERICA
Chloride test instructions on other side.
Need help? Visit iwla.org/s
Quantab Units
%NaCl
ppm(mg/L) Cl⁻
1.2.....0.005.....29
1.4.....0.006.....35
1.6.....0.007.....40
1.8.....0.008.....46
2.0.....0.009.....53
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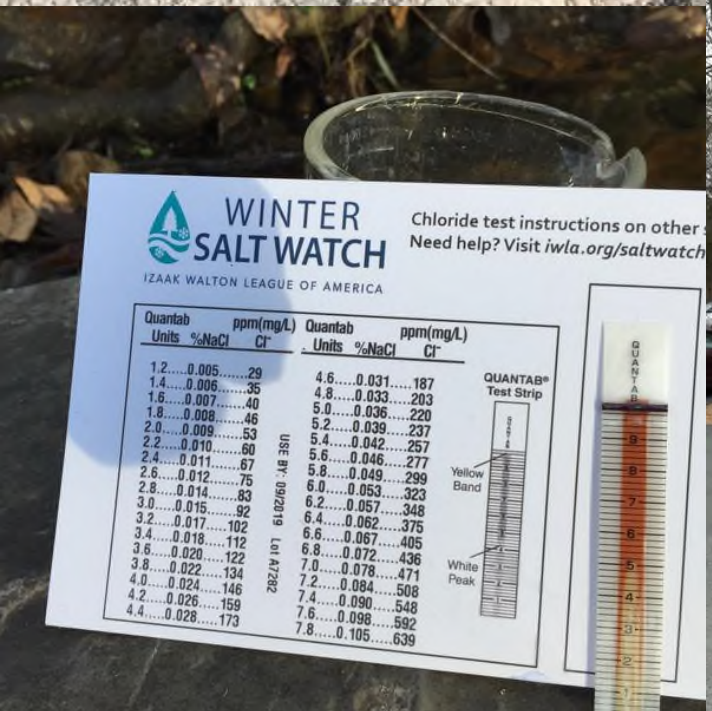
4.4.....0.028.....173
4.6.....0.031.....187
4.8.....0.033.....203
5.0.....0.036.....220
5.2.....0.039.....237
5.4.....0.042.....257
5.6.....0.046.....277
5.8.....0.049.....299
6.0.....0.053.....323
6.2.....0.057.....348
6.4.....0.062.....375
6.6.....0.067.....405
6.8.....0.072.....436
7.0.....0.078.....471
7.2.....0.084.....508
7.4.....0.090.....548
7.6.....0.098.....592
7.8.....0.105.....639
USE BY 06/20/19 Lot A7282
QUANTAB® Test Strip
Yellow Band
White Peak


WINTER
SALT WATCH
IZAAK WALTON LEAGUE OF AMERICA
Chloride test instructions on other
Need help? Visit iwla.org/saltwatch
Quantab Units
%NaCl
ppm(mg/L) Cl⁻
1.2.....0.005.....29
1.4.....0.006.....35
1.6.....0.007.....40
1.8.....0.008.....46
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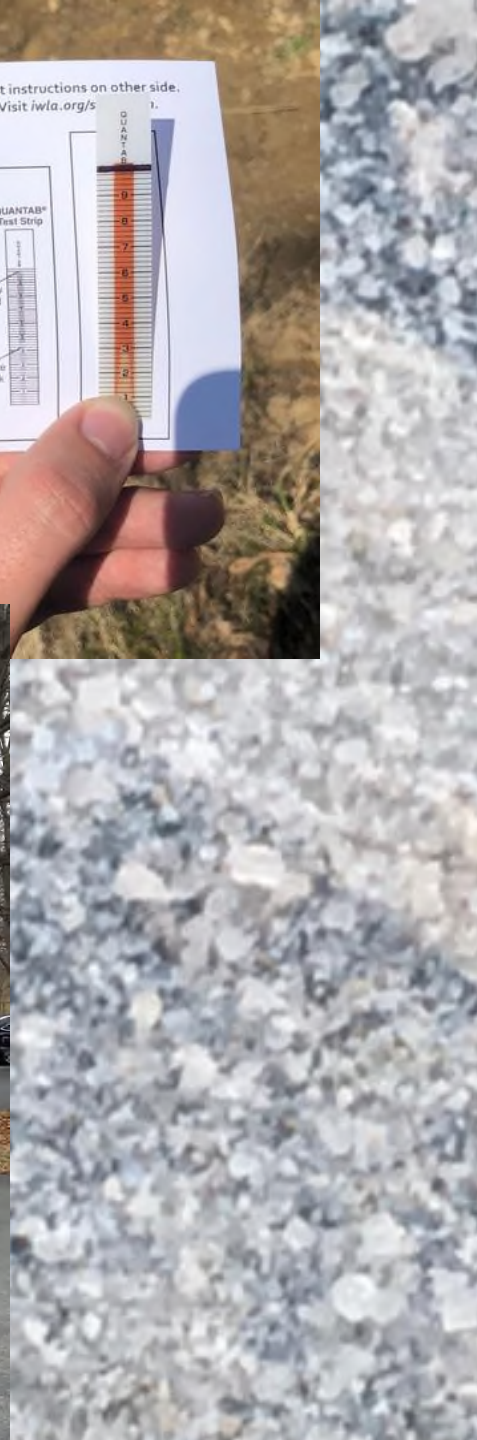

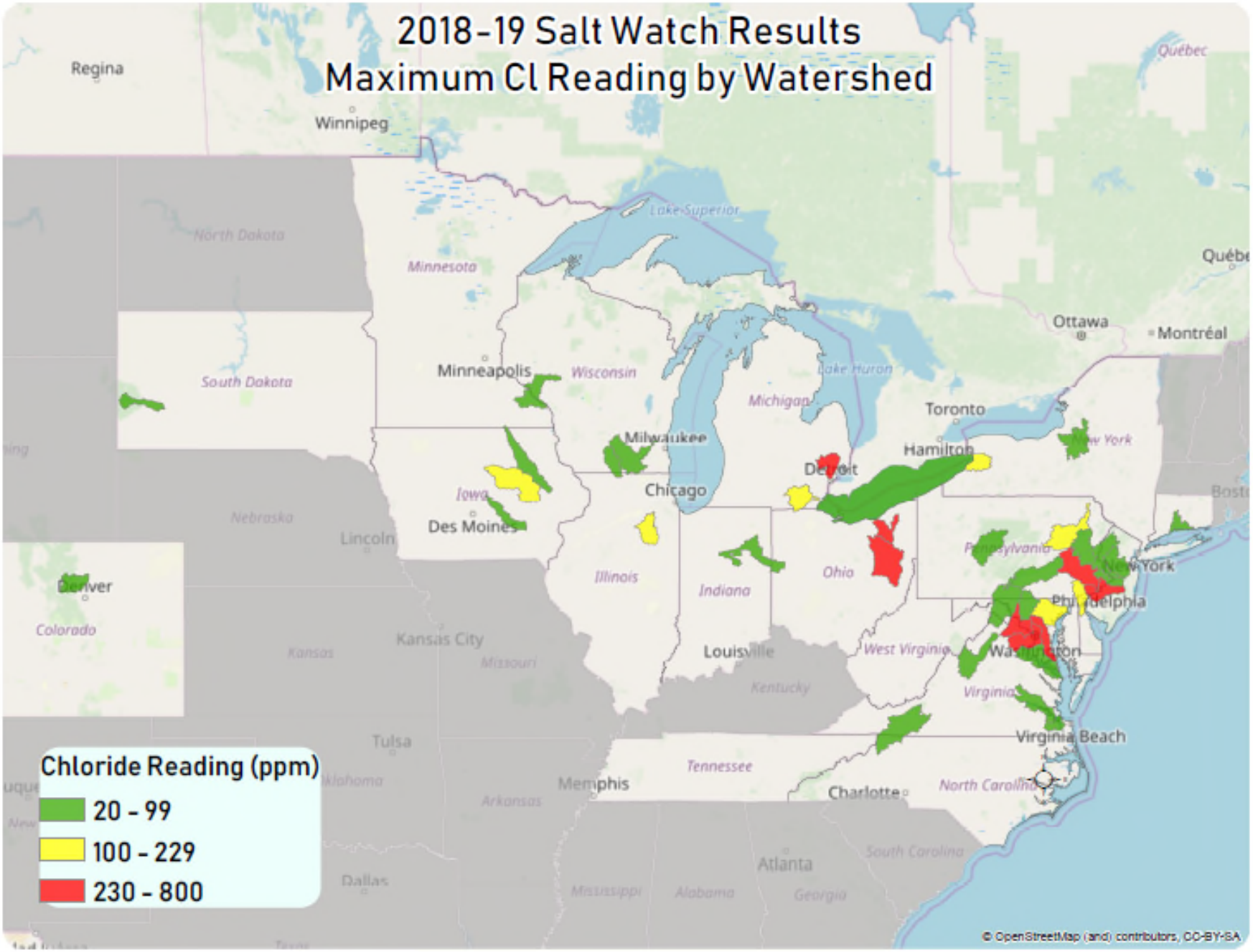
2018-19 Salt Watch Results
Maximum Cl Reading by Watershed
Regina
Winnipeg
Québec
North Dakota
Minnesota
Lake Superior
South Dakota
Minneapolis
Wisconsin
Lake Huron
Michigan
Ottawa
Montréal
Toronto
Milwaukee
Hamilton
Detroit
Chicago
Iowa
Des Moines
Nebraska
Lincoln
Denver
Colorado
Kansas
Kansas City
Missouri
Illinois
Indiana
Ohio
Pennsylvania
New York
Philadelphia
Louisville
West Virginia
Washington
Kentucky
Virginia
Virginia Beach
Tulsa
Tennessee
Memphis
Charlotte
North Carolina
Arkansas
Atlanta
South Carolina
Dallas
Mississippi
Alabama
Georgia
Chloride Reading (ppm)
20 - 99
100 - 229
230 - 800
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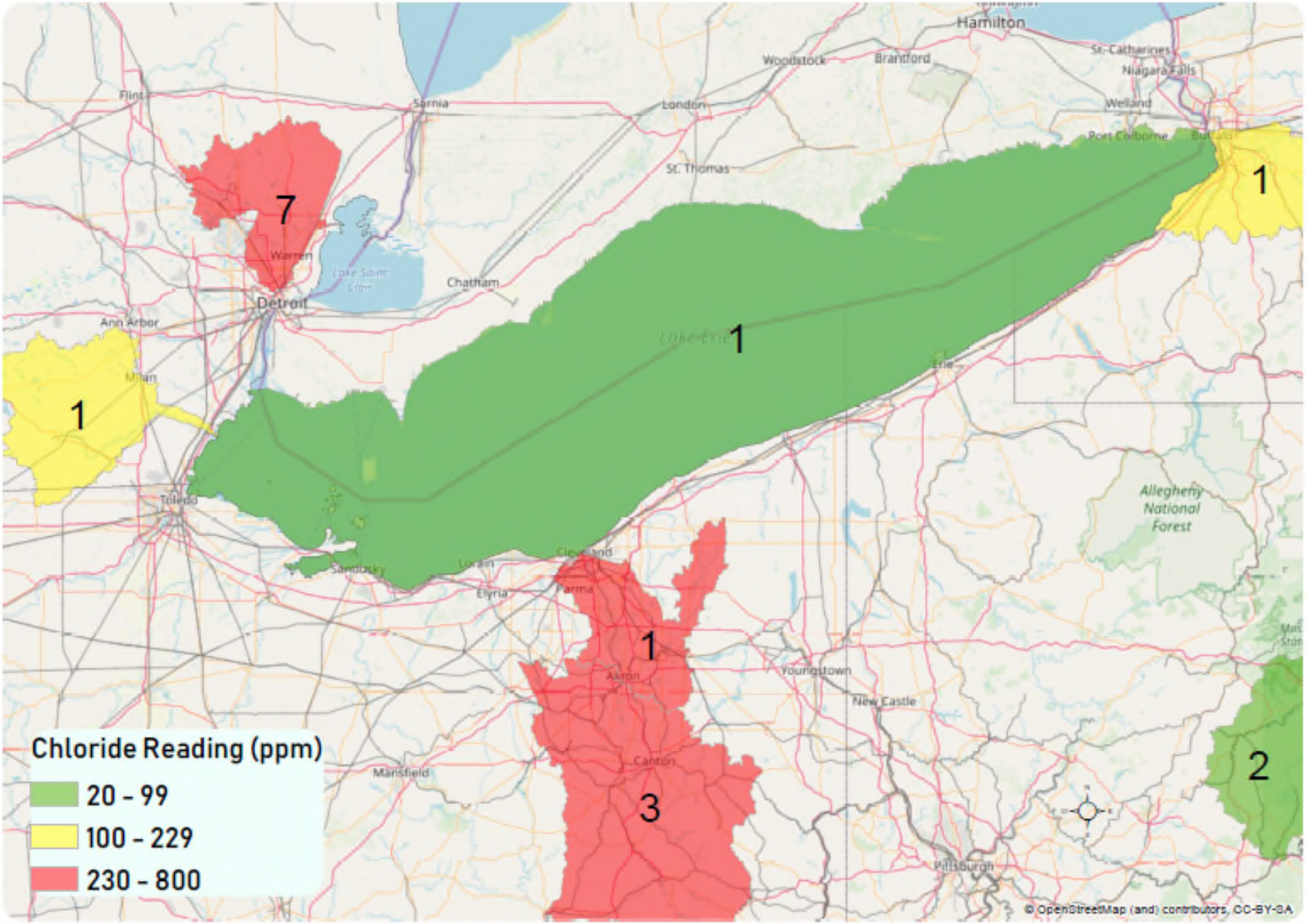
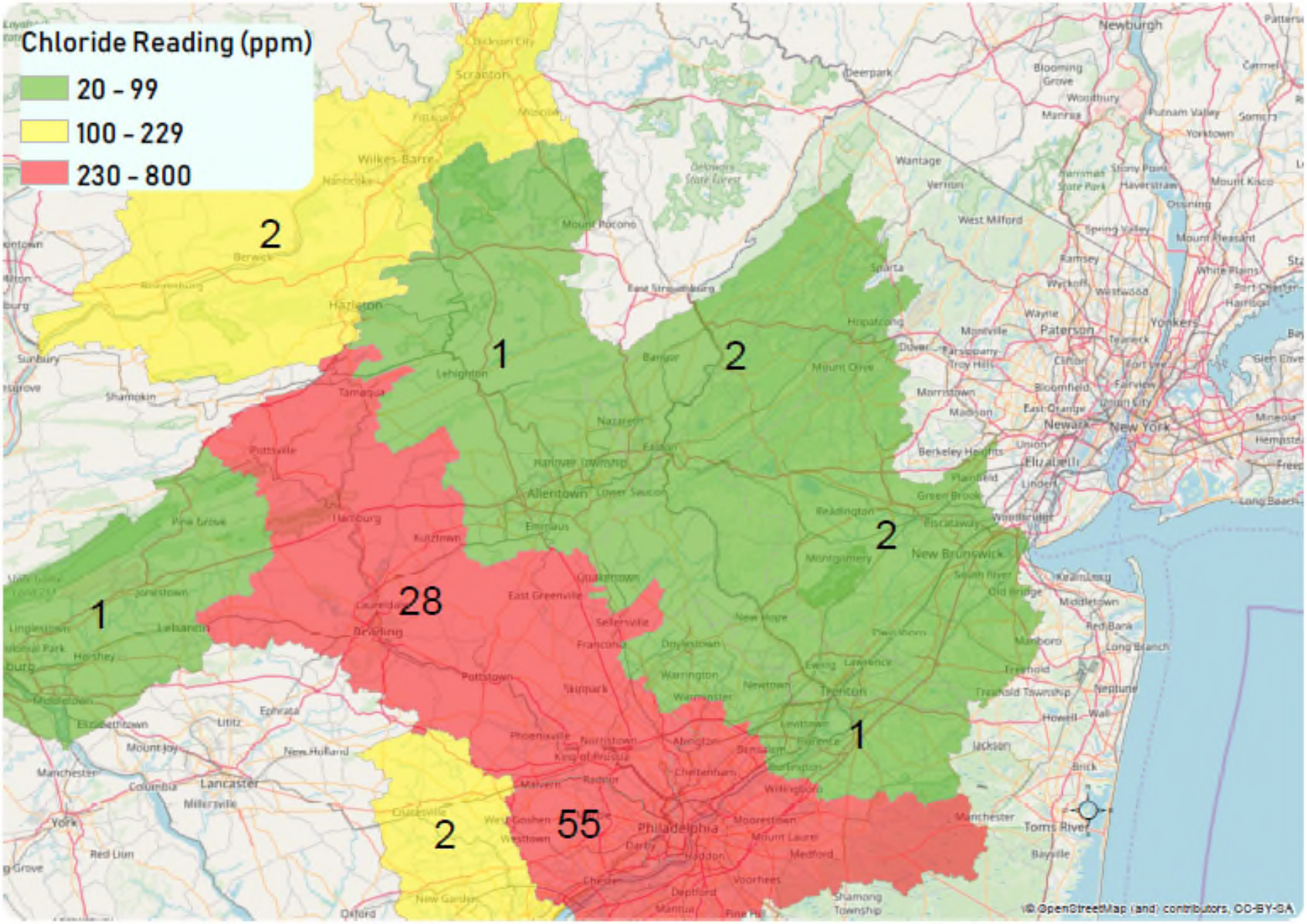


Number shows how many reports per watershed



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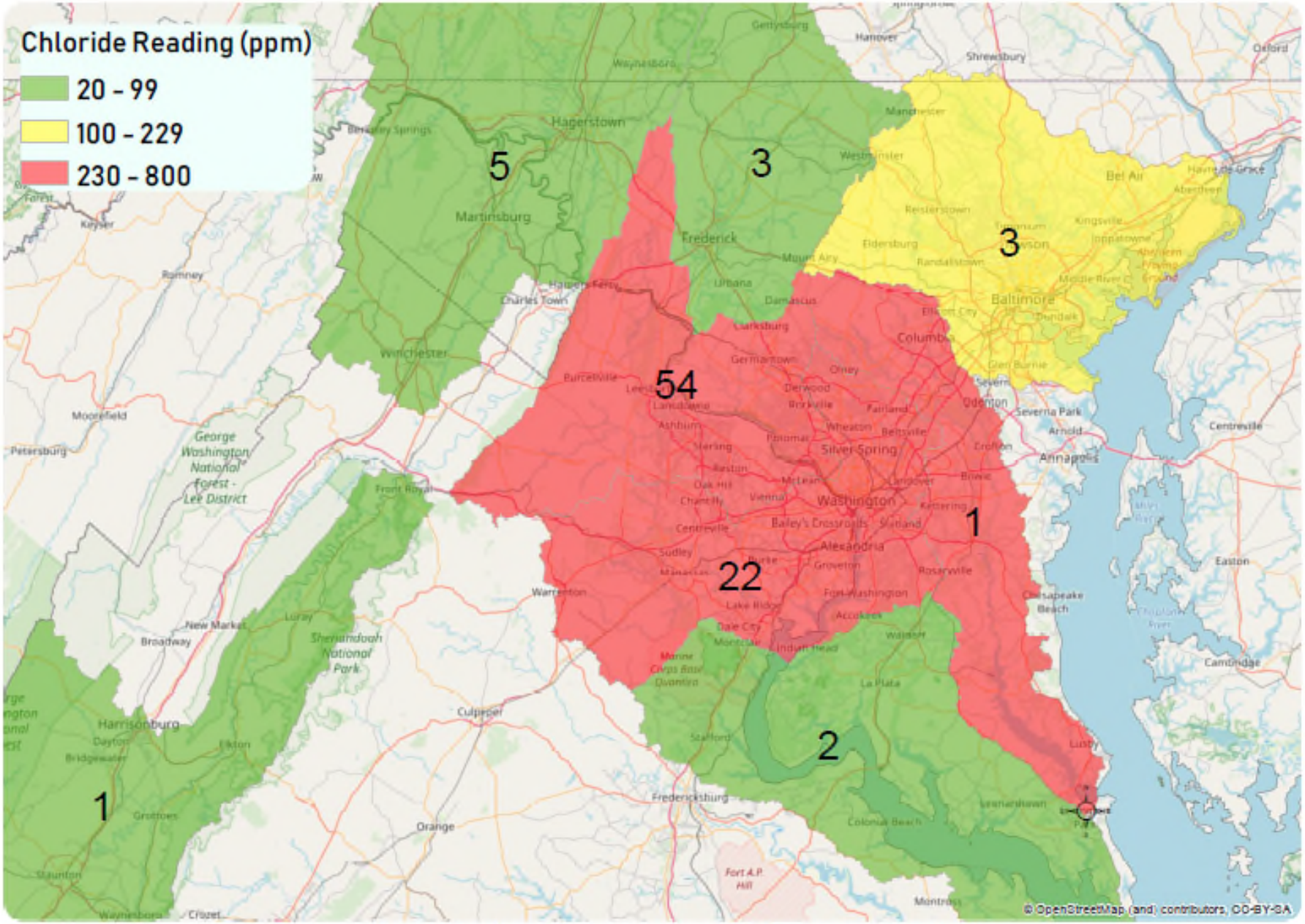

Number shows how many reports per watershed

Stream Selfie

- basic engagement
- cell phone only tool needed
- no training

Salt Watch

- slightly above basic engagement
- cell phone and chloride test strips needed
- no training

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- one day (8 hrs) of training
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VASOS

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Questions?

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