

Protecting public health, preventing pollution

INTHIS REPORT

- 2020 PIC Program Highlights
- Health Advisories for Streams
- 2020 Water Quality Monitoring Results and Standards
- Water Quality in Lakes
- Pollution Sources and Prevention

2020 Water PIC Program Highlights



69

Streams monitored for pollution



340

Health advisory days for local lakes



3,642

Water samples collected



137

Acres of shellfish beds upgraded



13,107

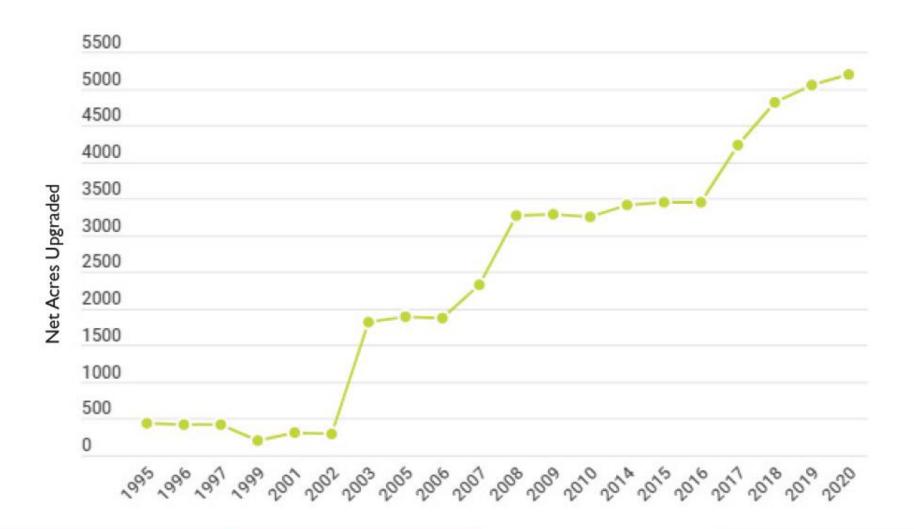
Staff hours logged

Protecting water quality while fighting a pandemic



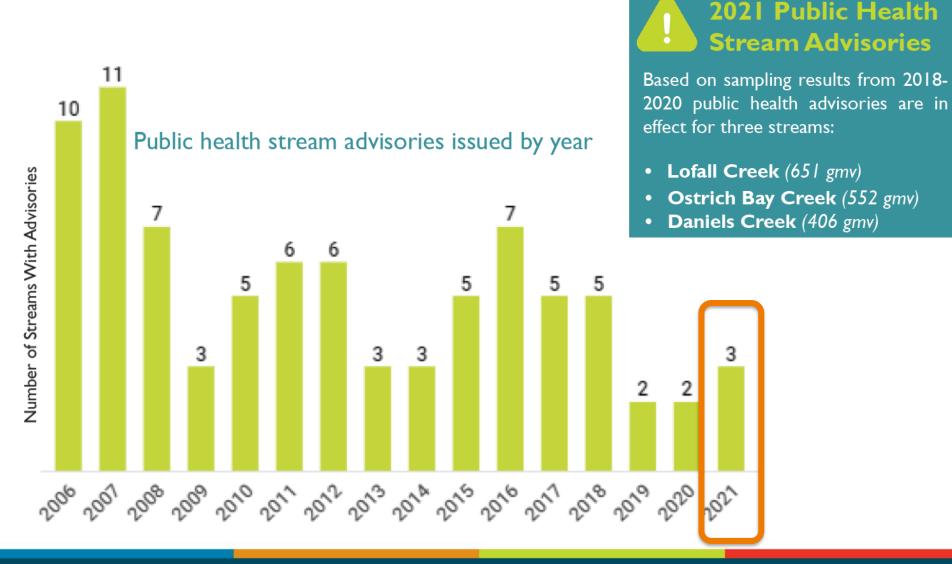


Shellfish Harvesting Areas Approved





Public Health Stream Advisories







2020 Water Quality Monitoring Results

The Freshwater Standard

Part I: Annual GMV < 100 FC per 100ML

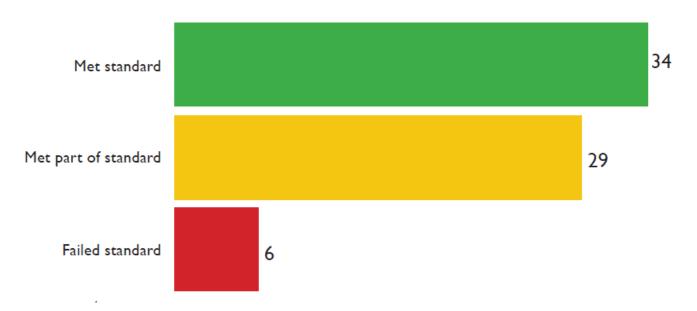
Part 2: Not more than 10% of all samples collected for calculating geomean > 200 FC/100 ML

This report notes how each stream performed under the state standard based on bacteria levels:

- Met standard: The stream had low bacteria levels and met both parts of the standard.
- Met part I of standard: The stream had periodic high bacteria levels and failed part 2 of the standard.
- Failed standard: The stream had high bacteria levels and failed both parts of the standard.

2020 Water Quality Monitoring Results

Water quality status for Kitsap streams in 2020



KINGSTON / UPPER HOOD CANAL



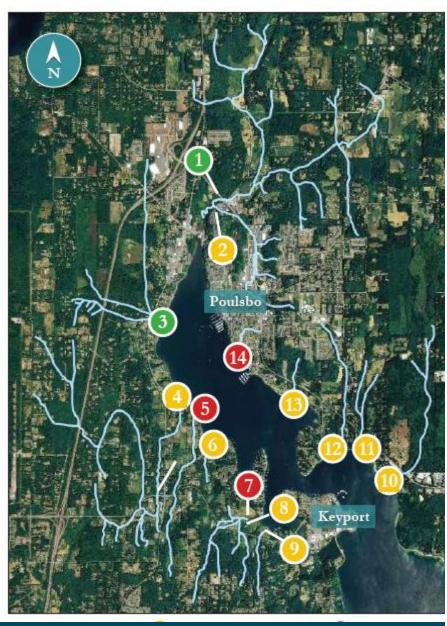
- Low bacteria
- Periodic high bacteria
- High bacteria

- Gamble Creek
 Annual GMV: 34
- Kinman Creek
 Annual GMV: 57
- 4 Lofall Creek Annual GMV: 333 Health Advisory

- Jump Off Joe Creek
 Annual GMV: 34
- Vinland Creek
 Annual GMV: 108
- Cowling Creek
 Annual GMV: 39



POULSBO / LIBERTY BAY

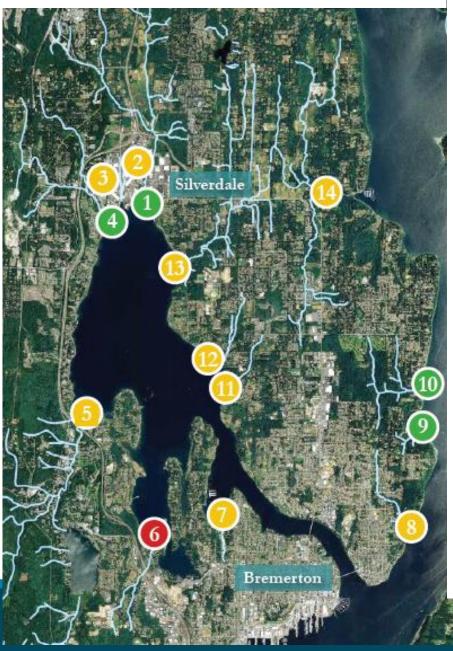


- Dogfish Creek
 Annual GMV: 23
- South Dogfish Creek
 Annual GMV: 65
- Johnson Creek
 Annual GMV: 12
- Big Scandia Creek

 Annual GMV: 39
- Little Scandia Creek
 Annual GMV: 137
 - nual GMV: 137

 Bjorgen Creek
 Annual GMV: 59
- Perry Creek
 Annual GMV: 62
- Barrantes Creek
 Annual GMV: 5 I
- 7 Daniels Creek Annual GMV: 201 Health advisory
- Poulsbo Creek
 Annual GMV: 149
- Unnamed Creek 00
 Annual GMV: 27
- Unnamed Creek 01
 Annual GMV: 70
- Sam Snyder Creek
 Annual GMV: 24
- Lemolo Creek
 Annual GMV: 21

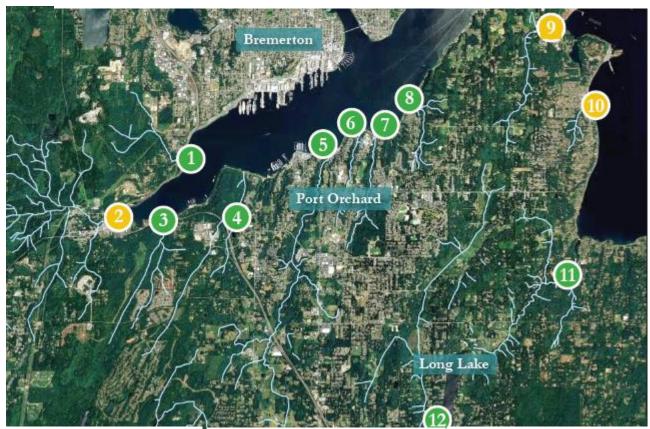
SILVERDALE / BREMERTON



- Clear Creek
 Annual GMV: 25
- 2 Kitsap Mall Creek Annual GMV: 56
- Kitsap Mall Creek W. Annual GMV: 56
- Strawberry Creek
 Annual GMV: 25
- Chico Creek
 Annual GMV: 51
- Ostrich Bay Creek
 Annual GMV: 562
 Health Advisory
- Phinney Creek
 Annual GMV: 44
- Enetai Creek Annual GMV: 88
- State Park Creek
 Annual GMV: 24
- 10 Illahee Creek
 Annual GMV: 31

- Mosher Creek
 Annual GMV: 56
- Pahrmann Creek
 Annual GMV: 69
- Barker Creek
 Annual GMV: 89
- Steele Creek
 Annual GMV: 50

PORT ORCHARD / SINCLAIR INLET



- Wright Creek
 Annual GMV: 11
- Gorst Creek
 Annual GMV: 58
- Anderson Creek
 Annual GMV: 21
- Ross Creek
 Annual GMV: 17

- Blackjack Creek
 Annual GMV: 30
- Annapolis Creek
 Annual GMV: 63
- 7 Karcher Creek Annual GMV: 36
- Sacco Creek
 Annual GMV: 55

- Beaver Creek Annual GMV: 30
- Duncan Creek
 Annual GMV: 57
- Curley Creek
 Annual GMV: 32
- Salmonberry Creek
 Annual GMV: 11



BURLEY / OLALLA



- Wilson Creek
 Annual GMV: 37
- Purdy Creek
 Annual GMV: 23

Minter Creek
Annual GMV: 28

- Pragaria Creek
 Annual GMV: 8
- Burley Creek Annual GMV: 56

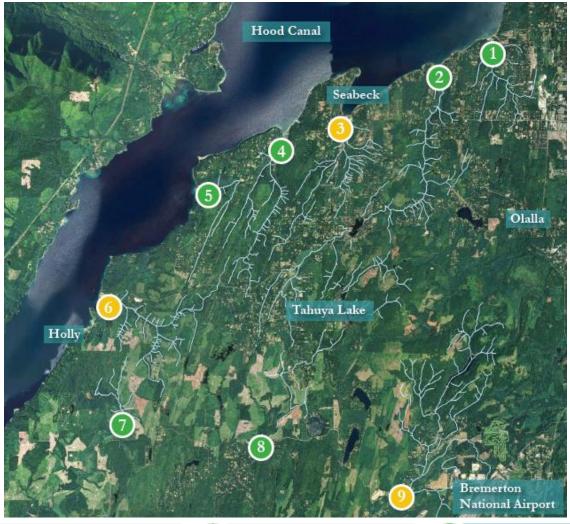
8 Huge Creek Annual GMV: 35

Olalla Creek
Annual GMV: 33

Bear Creek
Annual GMV: 61

9 Coulter Creek Annual GMV: 9

SEABECK / HOOD CANAL



Little Anderson Creek Annual GMV: 9

Seabeck Creek

Annual GMV: 22

- Annual GMV: 15
- **Big Beef Creek**
- Stavis Creek Annual GMV: 13
- Boyce Creek Annual GMV: 12
- Big Anderson Creek Annual GMV: 46
- **Dewatto River** Annual GMV: 32
- Tahuya River Annual GMV: 7
- **Union River** Annual GMV: 90



Water Quality in Kitsap Lakes



Public Health Advisories for Lakes

The table below shows advisories issued during calendar 2020.

Lake	Advisory	Dates
Island Lake	E. coli bacteria	9/3/20 - 9/23/20
Kitsap Lake	E coli bacteria	7/30/20 - 8/6/20 9/10/20 - 9/23/20
Kitsap Lake	Toxic cyanobacteria	8/27/19 - 1/8/20 6/19/20 - 11/30/20
Long Lake	Toxic cyanobacteria	12/14/20 - 11/13/20



Common Sources of Fecal Pollution



Illustration by Angie Berger

Simple steps to prevent water pollution



If your home has a septic system, be sure it's properly maintained.



Properly dispose of medications. Go to MED-Project.org to find free disposal sites.



Manage waste from your farm, garden or livestock.



Pick up after your pets at home and in public.



Use natural lawn care products.



Find more great ideas at CleanWaterKitsap.org.





Questions?





Kitsap Public Health District Board of Health Update

Gib Morrow, MD, MPH Health Officer, Kitsap Public Health District June 1, 2021





Case Rates

Kitsap Rate per 100,000 (Past 14 days*)

% Positive (Past 7 Days*)

% Initiating Vaccination Age 16+

110.2

3.7%

52.3%

Rate of COVID-19 Cases per 100,000, Past 14 days*, Filter by Geographic Region



Rate of COVID-19 Cases per 100,000 Residents by Geographic Region in Past 14 Days*

Cases, contacts, deaths, and testing information is current as of 5/27/2021



Total Cases in Isolation**	204
Total Close Contacts in Quarantine***	181
Deaths	111

	Kitsap	Bainbridge	Bremerton	Central	North Kitsap	South Kitsap
Total Positive Cases	8,391	297	2,238	1,928	1,271	2,657
New Positive Cases Added	35	0	10	13	4	8

Weekly Cases

There were **121 cases** reported in Kitsap County last week*. Case numbers **decreased** in Kitsap overall this week.



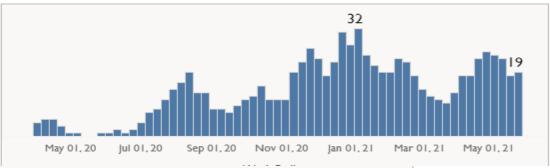
Rolling Incidence Rate (Past 14 Days)

In the past two weeks*, there were 106.9 cases per 100,000 residents of Kitsap County.



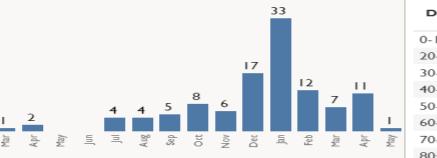
Outbreaks

There are currently 19 active outbreaks and there have been a cumulative total of 225 outbreaks declared in Kitsap County during the COVID-19 pandemic.



Deaths

Of the deaths reported so far, the most were reported in January with **33** deaths related to COVID-19. There has been **I** death in the month of May. There have been a total of **III** deaths related to COVID in Kitsap County residents since March 2020.

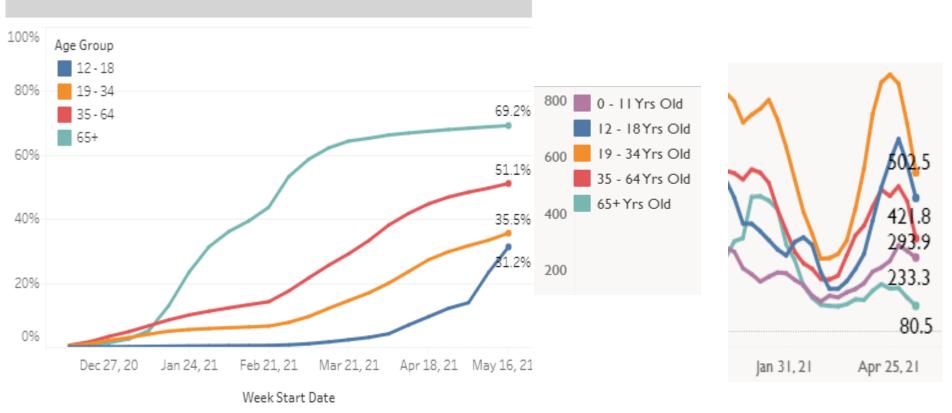


Deaths by	Age
0-19	- 1
20-29	0
30-39	2
40-49	3
50-59	6
60-69	17
70-79	28
80+	54

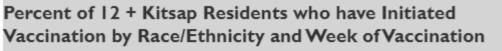
Why vaccinations are crucial

Percent of Kitsap Residents who have Initiated Vaccination by Age Group and Week of Vaccination

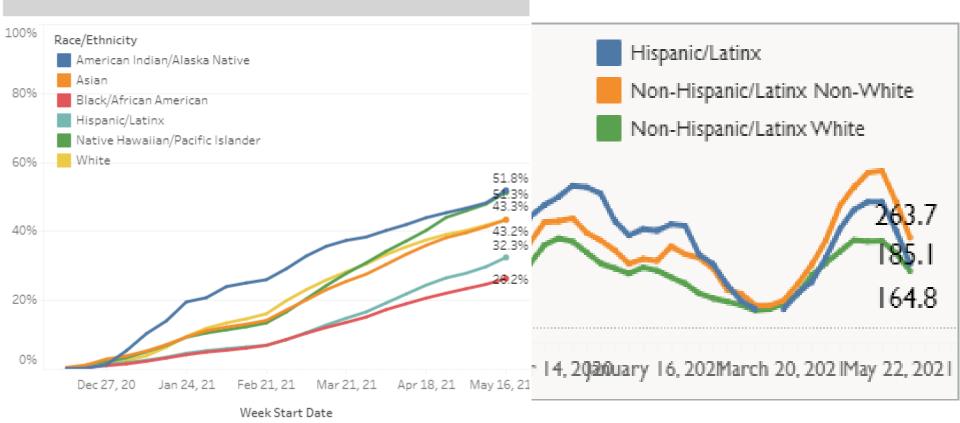
By Age -Case Rate per 100,000



By Race/ Ethnicity-



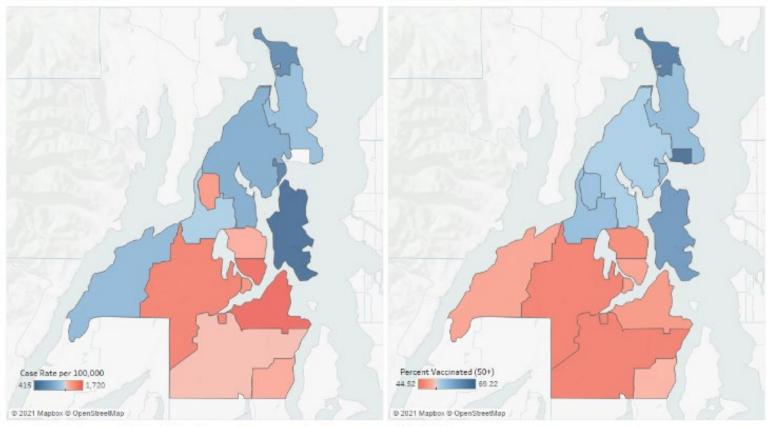
Cases



By Geography

Case Rate per 100,000 of Kitsap County COVID-19 Cases in 2021 by Zip Code

Percent of Kitsap Residents Over the Age of 50 that are Fully Vaccinated against COVID-19 by Zip Code



Population Estimates: WA State Office of Financial Management, Population estimates 2019 & 2020

Vaccination Data: WA State Immunization Information System as of 5/3/2021

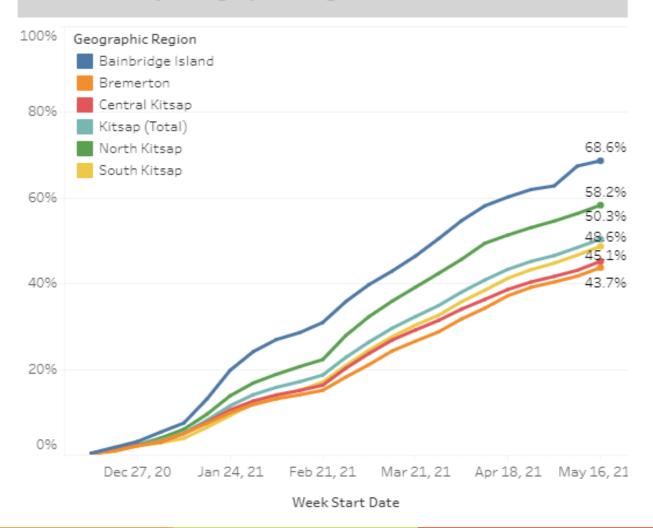
Case Rates: Washington Disease Reporting System, Washington Department of Health. Rates include positive tests with specimens collected in 2021

Counts less than or equal to 10 have been surpressed. Center of Legend reflects Kitsap County Average

Factors

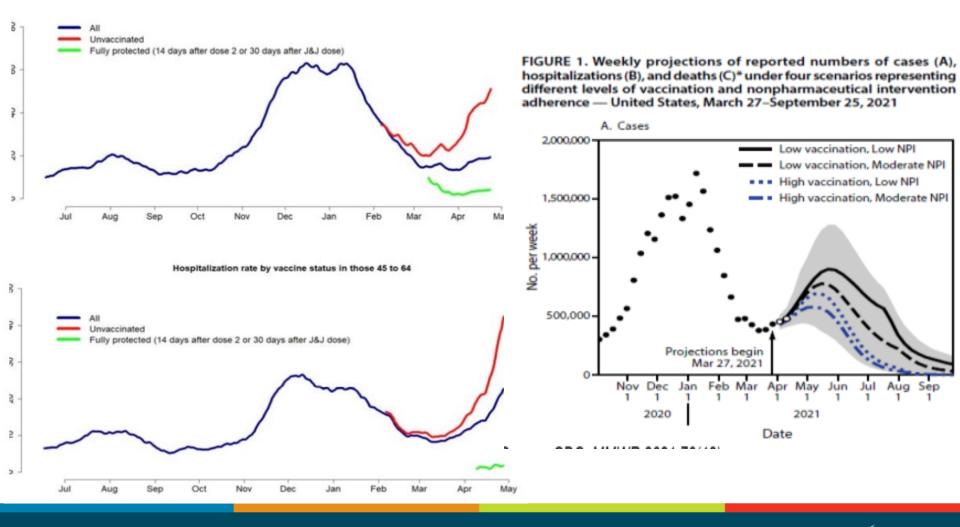
Access X Willingness

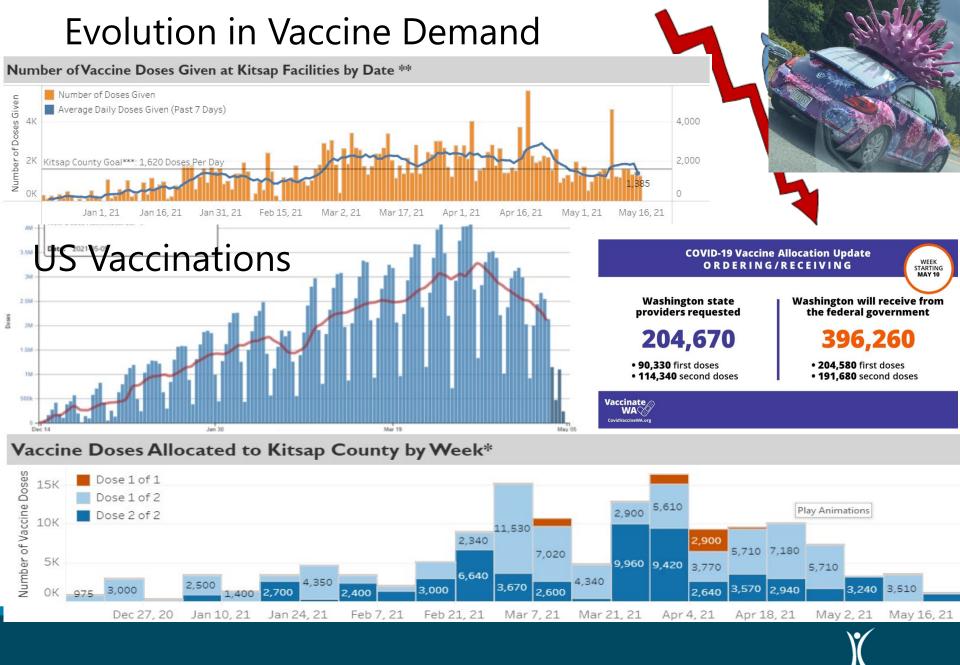
Percent of 12 + Kitsap Residents who have Initiated Vaccination by Geographic Region and Week of Vaccination



Some Modeling Projections

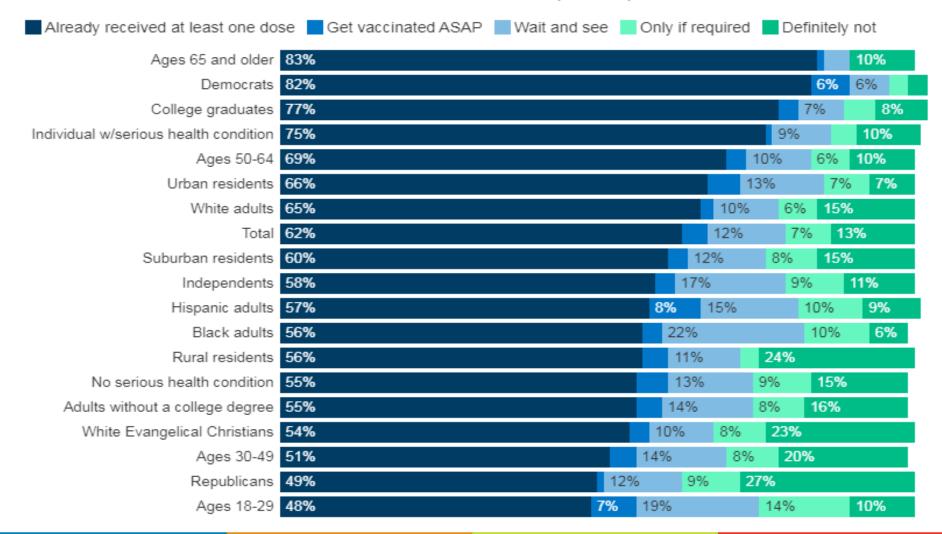
Hospitalization rate by vaccine status in those 65+



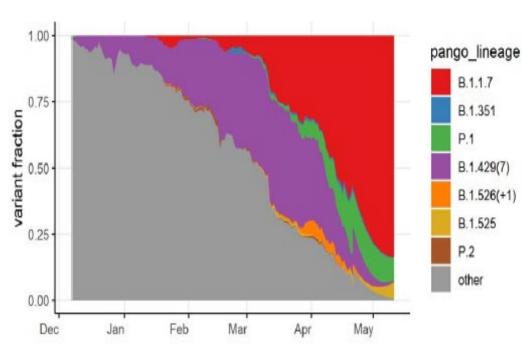


COVID-19, Few Remain Who Want The Vaccine As Soon As Possible

Have you personally received at least one dose of the COVID-19 vaccine, or not? As you may know, an FDA-authorized vaccine for COVID-19 is now available for free to all adults in the U.S. Do you think you will...?



Variants and Vaccinations

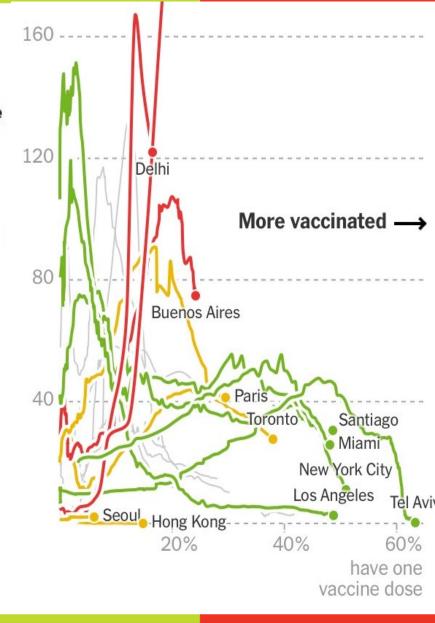


Variants in Kitsap

- -- B117 (UK), 34
- -- B1351 (South Africa), 2

Neighboring Counties

- --P1,2 (Brazil)
- --B1.617 (India)



How is Kitsap doing with vaccinations?

Statewide		Kitsap	Jefferson		son Pierce		
Percent of Total Population Initiating Vaccination	49.58%	Percent of Total Population Initiating Vaccination	42.88%	Percent of Total Population Initiating Vaccination	63.98%	Percent of Total Population Initiating Vaccination	40.37%
Percent of Total Population Fully Vaccinated	41.98%	Percent of Total Population Fully Vaccinated	37.85%	Percent of Total Population Fully Vaccinated	59.37%	Percent of Total Population Fully Vaccinated	33.43%
Percent of Population Initiating Vaccination (16+)	61.79%	Percent of Population Initiating Vaccination (16+)	52.78%	Percent of Population Initiating Vaccination (16+)	71.93%	Percent of Population Initiating Vaccination (16+)	51.60%
Percent of Population Fully Vaccinated (16+)	52.31%	Percent of Population Fully Vaccinated (16+)	46.59%	Percent of Population Fully Vaccinated (16+)	66.75%	Percent of Population Fully Vaccinated (16+)	42.72%

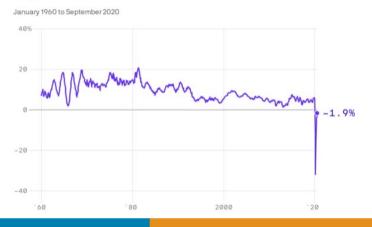
Immunizations given in Kitsap account for 20% of the 100k vaccines given in WA without address included. Navy has administered 37K+ vaccines in Kitsap that are not included in the state reported totals... (7+% boost?)

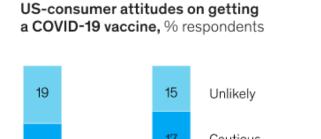


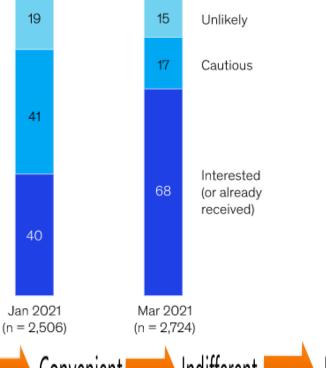
What is COVID Costing your organization?

- Revenue?
- Lost productivity?
- Absenteeism and retention?
- Health Insurance Costs?
- Mitigation measures?
- Unanticipated overhead?

Year-over-year change in personal consumption expenditures on health care services









Vaccination -- why do it?

- Personal health benefits
- Protection of those around you (all, but particularly those with weakened immunity)
- Decreased disease activity, fewer hospitalizations and deaths
- Economic recovery
- Staggering cost of this illness to our society, now and into the future
- Safer schools and workplaces
- Fewer restrictions and return to normal



Kitsap Vaccinations Providers from Decem	nber 2020 - May 9, 2020
Responsible Organization	Grand Total
FRANCISCAN HEALTH SYSTEM	34692
PENINSULA COMMUNITY HEALTH SERVICES	28896
KITSAP PUBLIC HEALTH DISTRICT	25008
KAISER PERMANENTE- WASHINGTON	23863
BAINBRIDGE ISLAND COMMUNITY PHARMACY	20505
SAFEWAY PHARMACIES	18445
WALMART STORES, INC	6817
WALGREENSCO	6414
SOUND FAMILY HEALTH	6152
KITSAP GENERAL SURGERY PLLC	5971
SUQUAMISHTRIBE	4671
MEMBER PLUS FAMILY HEALTH	4622
FRED MEYER STORES, INC/DBA KROGER	3778
PORT GAMBLE S'KLALLAM TRIBAL CLINIC	3129
COSTCO WHOLESALE	2894
CVS PHARMACY	2834
ACHIEVE EYE AND LASER SPECIALIST	2174
PACIFICA MEDICINE & WELLNESS	2098
THE MANETTE CLINIC	1600
VIRGINIA MASON MEDICAL CENTER	1527
RITE AID HEADQUARTERS CORP	911
SAVER PHARMACY	881
SURGERY CENTER OF SILVERDALE, LLC	643
THE DOCTOR'S CLINIC	589
GENOA HEALTHCARE LLC	428
SILVERDALE PEDIATRICS, LLP	220
OLYMPIC INTERNAL MEDICINE, INC PS	211
PROVIDENCE HEALTH SERVICES	132
ERIC A. COLE MD	103

					May (as of	
December	January	February	March	April	5/9/21)	Grand Total
1235	7166	8954	11030	7781	2695	34692
923	5140	6777	10141	7775	1346	28896
311	3005	5649	8762	7418	1231	25008
175	2474	2877	7927	6925	1170	23863
127	1482	2056	7873	6139	1057	20505
110	1473	1915	6723	4844	1004	18445
32	1313	1701	2482	4087	846	6817
21	1300	1664	1959	3734	813	6414
18	713	1186	1689	1945	611	6152
10	536	768	1499	1943	465	5971

FRANCISCAN HEALTH SYSTEM
PENINSULA COMMUNITY HEALTH
SERVICES
KITSAP PUBLIC HEALTH DISTRICT
KAISER PERMANENTE
BAINBRIDGE ISLAND COMMUNITY
PHARMACY
SAFEWAY PHARMACIES
WALMART STORES, INC
WALGREENS CO
SOUND FAMILY HEALTH
KITSAP GENERAL SURGERY PLLC
SUQUAMISH TRIBE
MEMBER PLUS FAMILY HEALTH
FRED MEYER STORES/KROGER
PORT GAMBLE S'KLALLAM TRIBAL
CLINIC
CVS PHARMACY
ACHIEVE EYE AND LASER
SPECIALIST
VIRGINIA MASON MEDICAL
CENTER
THE DOCTOR'S CLINIC

How do we get people off the fence?

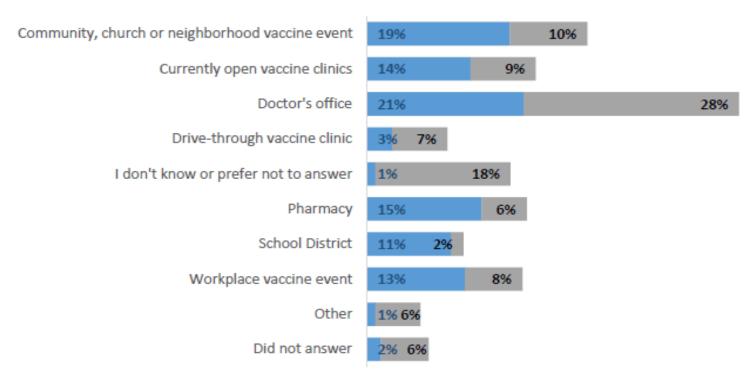
- Make it available, convenient, safe, and easy
- Modeling, transparency, expectation
- New policies in workplaces, schools, healthcare
- Information
- Incentives
- Mandates
- Local leadership across all sectors

Preliminary Community Survey data show the preferred spot for receiving vaccinations for those hesitant to do it is at their doctor's office!!!

Preliminary Data from KPHD Community Survey

Where would you prefer to be vaccinated?*

Figure 4. Twenty-one percent of those who want to be vaccinated as soon as possible (n=270) and 28% of those who were hesitant to vaccinate (n=302) say they would prefer to be vaccinated at a doctor's office.*



^{*}These numbers are preliminary and are subject to change based on those who filled in a response other than those listed.

All Barriers Removed





- Liabilities covered
- 95% use rule dropped
- Second doses widely available
- Co-administer with other vaccines
- \$40 administration fee in clinic okay with FEMA \$
- Vaccines widely available
- No need to use all vial doses
- May restrict vaccinations to established patients



Acknowledge concerns, open questions, affirmation, active listening, straight talk, best answers, advice vaccinate!

Recent Timeline

- 4/13 J&J paused due to clotting concerns
- 4/15 "Vax Day" opens vaccinations to all >16
- **5/12** FDA, ACIP, WSSG approve Pfizer for >12
- 5/13 CDC Updates guidance to state that fully vaccinated people no longer need to wear a mask or physically distance in most settings
- 5/13 Governor Inslee announces WA will fully adopt CDC mask guidance, moves all counties to Phase 3, and announces full reopening for...
- 5/28 CDC releases clinical considerations for myocarditis following mRNA vaccines
- 6/30 Full reopening (earlier if 70% starting vac)



New From CDC and L&I

- Unmasking is for vaccinated people
- Employers and businesses may continue masking requirements to reduce risk to staff and others in their facilities
- Employers are allowed and encouraged to assess vaccination status of those in their facilities (and must for unmasked employees); needs to be kept confidential by employers
- Unmasking may occur by those not yet vaccinated in public settings, resulting in yet another reason to get vaccinated if still unvaccinated
- Masking is still advised in crowded indoor settings where a mix of vaccinated and unvaccinated unmasked people may be in proximity



