Washington State County Profiles of Social Determinants of Health, HIV, Hepatitis C, and Opioid Overdose





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Background: Opioid use, hepatitis C (HCV), and overdose deaths are increasing in the United States and Washington State.¹⁻⁴ There is concern for rapid dissemination of HIV, HCV, and opioid overdose among people who inject drugs (PWID). Following an HIV outbreak among PWID in Scott County, Indiana in 2015,⁵ the US Centers for Disease Control and Prevention (CDC) conducted a study to identify indicator variables associated with injection drug use in order to determine which counties may be vulnerable to new or increasing rates of HIV or HCV among PWID.⁶ In 2019, Washington performed a similar analysis and added opioid overdose as an outcome since injection drug use is associated with a higher risk of overdose than non-injection use.⁷

Results: Select indicators used in the CDC and Washington State models are shown in the table, with the corresponding values for Washington State and the profiled county.

Next Steps: Indicators can be tracked on the county level to inform prevention efforts within WA, and to better understand how social determinants impact countylevel health outcomes. Strategic approaches, including increased HIV and HCV testing, should be supported at the county level as needed. Future work will assess additional years of data and changes in indicators and outcomes over time.

ADAMS COUNTY

	١	WA State			Adams	
Indicator	2016	2018	Change	2016	2018	Change
	Popula	tion & Den	sity			
Population	7,183,700	7,427,570	3.4%	19,510	20,020	2.6%
Population per square mile	108	112	4	10	10	0
Urban-rural classification		N/A		5	5	0
	Socioc	lemograph	ics			
Unemployment rate	6.8%	5.3%	-1.5%	6.1%	6.3%	0.2%
% With vehicle access	93%	93%	0%	95%	94%	-1%
% Uninsured	9.8%	6.8%	-3.0%	19.5%	18.8%	-0.7%
% No high school diploma	6.3%	6.0%	-0.3%	18.2%	18.9%	0.7%
Poverty rate	6.7%	6.2%	-0.5%	8.7%	9.3%	0.7%
Income per capita	\$32,999	\$39,119	\$6,120	\$17,781	\$19,152	\$1,371
% Non-Hispanic White	70%	68%	-2.0%	35.7%	34.5%	-1.2%
	Drug Availa	ability & Ou	utcomes			
In Drug Trafficking Zone		N/A			No	
All drug deaths per 100,000	15	14	-1	5	0	-5
Opioid hospitalizations per 100,000	25	19	-6	5	0	-5
Opioid deaths per 100,000	10	9	-1	0	0	0
	Provid	der Resourd	ces			
Mental health providers per 100,000	248	293	45	133	151	17
Specialist providers ¹ per 100,000	8	9	1	0	0	0
Transi	missible Inj	ection-Rela	ted Infec	tions		
HIV cases per 100,000	174	181	7	62	60	-2
HCV ² cases per 100,000	57	59	2	26	5	-21

¹ Specialists included doctors board certified in gastroenterology, hepatology, infectious disease, or addiction medicine.

² HCV cases included all acute cases and chronic cases in persons born after 1965.

Adams County has certain vulnerabilities, including higher rates of unemployment and less insurance coverage than Washington State.

In both Washington and Adams County the rate of opioid-related hospitalizations and deaths decreased from 2016 to 2018.

BENTON COUNTY

Opioid deaths per 100,000

HCV² cases per 100,000

Background: Opioid use, hepatitis C (HCV), and overdose deaths are increasing in the United States and Washington State.¹⁻⁴ There is concern for rapid dissemination of HIV, HCV, and opioid overdose among people who inject drugs (PWID). Following an HIV outbreak among PWID in Scott County, Indiana in 2015,⁵ the US Centers for Disease Control and Prevention (CDC) conducted a study to identify indicator variables associated with injection drug use in order to determine which counties may be vulnerable to new or increasing rates of HIV or HCV among PWID.⁶ In 2019, Washington performed a similar analysis and added opioid overdose as an outcome since injection drug use is associated with a higher risk of overdose than non-injection use.⁷

Results: Select indicators used in the CDC and Washington State models are shown in the table, with the corresponding values for Washington State and the profiled county.

Next Steps: Indicators can be tracked on the county level to inform prevention efforts within WA, and to better understand how social determinants impact county-level health outcomes. Strategic approaches, including increased HIV and HCV testing, should be supported at the county level as needed. Future work will assess additional years of data and changes in indicators and outcomes over time.

		WA State				
Indicator	2016	2018	Change	2016	2018	Change
	Рори	lation & De	ensity		• •	F
Population	7,183,700	7,427,570	3.4%	190,500	197,420	3.6%
Population per square mile	108	112	4	112	116	4
Urban-rural classification		N/A		3	3	0
	Soci	odemograp	hics			
Unemployment rate	6.8%	5.3%	-1.5%	6.5%	5.2%	-1.3%
% With vehicle access	93%	93%	0%	95%	95%	0%
% Uninsured	9.8%	6.8%	-3.0%	10.2%	7.5%	-2.7%
% No high school diploma	6.3%	6.0%	-0.3%	6.5%	6.3%	-0.3%
Poverty rate	6.7%	6.2%	-0.5%	6.4%	6.2%	-0.2%
Income per capita	\$32,999	\$39,119	\$6,120	\$29,529	\$31,580	\$2,051
% Non-Hispanic White	70%	68%	-2.0%	72.2%	70.9%	-1.3%
	Drug Ava	ilability & (Dutcomes			
In Drug Trafficking Zone		N/A			Yes	
All drug deaths per 100,000	15	14	-1	15	12	-3
Opioid hospitalizations per 100,000	25	19	-6	31	22	-9

10	9	-1
Prov	vider Resou	rces

20

13

2

12

43

-8

30

10

57

Mental health providers per 100,000	248	293	45	146	195	48			
Specialist providers ¹ per 100,000	8	9	1	10	9	-1			
Transmissible Injection-Related Infections									
HIV cases per 100,000	174	181	7	61	78	17			

59

¹ Specialists included doctors board certified in gastroenterology, hepatology, infectious disease, or addiction medicine.

² HCV cases included all acute cases and chronic cases in persons born after 1965.

Benton County has certain vulnerabilities, including a higher rate of opioid hospitalizations and deaths than Washington State.

In both Washington and Benton County the rate of opioid-related hospitalizations and deaths decreased from 2016 to 2018.



Background: Opioid use, hepatitis C (HCV), and overdose deaths are increasing in the United States and Washington State.¹⁻⁴ There is concern for rapid dissemination of HIV, HCV, and opioid overdose among people who inject drugs (PWID). Following an HIV outbreak among PWID in Scott County, Indiana in 2015,⁵ the US Centers for Disease Control and Prevention (CDC) conducted a study to identify indicator variables associated with injection drug use in order to determine which counties may be vulnerable to new or increasing rates of HIV or HCV among PWID.⁶ In 2019, Washington performed a similar analysis and added opioid overdose as an outcome since injection drug use is associated with a higher risk of overdose than noninjection use.⁷

Results: Select indicators used in the CDC and Washington State models are shown in the table, with the corresponding values for Washington State and the profiled county.

Next Steps: Indicators can be tracked on the county level to inform prevention efforts within WA, and to better understand how social determinants impact county-level health outcomes. Strategic approaches, including increased HIV and HCV testing, should be supported at the county level as needed. Future work will assess additional years of data and changes in indicators and outcomes over time.

CHELAN COUNTY

	W/A State Chalan										
Indicator	2010	2010	Change	2010		Change					
indicator	2010	2018	change	2010	2018	cnange					
	Populo	ation & Der	nsity								
Population	7,183,700	7,427,570	3.4%	75,910	77,800	2.5%					
Population per square mile	108	112	4	26	27	1					
Jrban-rural classification		N/A		4	4	0					
	Socio	demograpl	hics								
Jnemployment rate	6.8%	5.3%	-1.5%	6.8%	5.3%	-1.5%					
% With vehicle access	93%	93%	0%	92%	94%	2%					
% Uninsured	9.8%	6.8%	-3.0%	13.5%	8.6%	-4.9%					
% No high school diploma	6.3%	6.0%	-0.3%	11.5%	11.0%	-0.5%					
Poverty rate	6.7%	6.2%	-0.5%	7.0%	6.7%	-0.2%					
ncome per capita	\$32,999	\$39,119	\$6,120	\$26,109	\$29,204	\$3,095					
% Non-Hispanic White	70%	68%	-2.0%	68.8%	68.1%	-0.7%					
	Drug Avail	ability & O	utcomes								
n Drug Trafficking Zone		N/A			No						
All drug deaths per 100,000	15	14	-1	11	8	-3					
Opioid hospitalizations per 100,000	25	19	-6	28	14	-14					
Opioid deaths per 100,000	10	9	-1	5	4	-1					
	Provi	der Resour	ces								
Mental health providers per 100,000	248	293	45	179	284	105					
Specialist providers ¹ per 100,000	8	9	1	9	8	-2					
Trans	missible Inj	ection-Rela	ated Infec	tions							
HIV cases per 100,000	174	181	7	72	75	2					
HCV ² cases per 100,000	57	59	2	14	44	29					

¹ Specialists included doctors board certified in gastroenterology, hepatology, infectious disease, or addiction medicine.

² HCV cases included all acute cases and chronic cases in persons born after 1965.

Chelan County has certain vulnerabilities, including less insurance coverage and lower educational attainment than Washington State.

In both Washington and Chelan County the rate of opioid-related hospitalizations and deaths decreased from 2016 to 2018



Background: Opioid use, hepatitis C (HCV), and overdose deaths are increasing in the United States and Washington State.¹⁻⁴ There is concern for rapid dissemination of HIV, HCV, and opioid overdose among people who inject drugs (PWID). Following an HIV outbreak among PWID in Scott County, Indiana in 2015,⁵ the US Centers for Disease Control and Prevention (CDC) conducted a study to identify indicator variables associated with injection drug use in order to determine which counties may be vulnerable to new or increasing rates of HIV or HCV among PWID.⁶ In 2019. Washington performed a similar analysis and added opioid overdose as an outcome since injection drug use is associated with a higher risk of overdose than noninjection use.⁷

Results: Select indicators used in the CDC and Washington State models are shown in the table, with the corresponding values for Washington State and the profiled county.

Next Steps: Indicators can be tracked on the county level to inform prevention efforts within WA, and to better understand how social determinants impact county-level health outcomes. Strategic approaches, including increased HIV and HCV testing, should be supported at the county level as needed. Future work will assess additional years of data and changes in indicators and outcomes over time.

CLALLAM COUNTY

		WA State		Clallam		
Indicator	2016	2018	Change	2016	2018	Change
	Popula	tion & Den	sity			
Population	7,183,700	7,427,570	3.4%	73,410	75,130	2.3%
Population per square mile	108	112	4	42	43	1
Urban-rural classification		N/A		5	5	0
	Socioc	lemograph	nics			
Unemployment rate	6.8%	5.3%	-1.5%	9.3%	7.7%	-1.6%
% With vehicle access	93%	93%	0%	93%	94%	0%
% Uninsured	9.8%	6.8%	-3.0%	10.8%	8.7%	-2.0%
% No high school diploma	6.3%	6.0%	-0.3%	6.0%	5.5%	-0.6%
Poverty rate	6.7%	6.2%	-0.5%	9.2%	9.1%	-0.1%
Income per capita	\$32,999	\$39,119	\$6,120	\$26,967	\$29,663	\$2,696
% Non-Hispanic White	70%	68%	-2.0%	83.6%	83.0%	-0.6%
	Drug Availa	ability & O	utcomes	_		
In Drug Trafficking Zone		N/A			No	
All drug deaths per 100,000	15	14	-1	29	17	-12
Opioid hospitalizations per 100,000	25	19	-6	49	20	-29
Opioid deaths per 100,000	10	9	-1	14	6	-8
	Provid	der Resourd	ces			
Mental health providers per 100,000	248	293	45	221	257	37
Specialist providers ¹ per 100,000	8	9	1	4	3	-1
Transr	nissible Inje	ection-Rela	ited Infec	tions		
HIV cases per 100,000	174	181	7	98	100	2
HCV ² cases per 100,000	57	59	2	48	93	45

¹ Specialists included doctors board certified in gastroenterology, hepatology, infectious disease, or addiction medicine.

² HCV cases included all acute cases and chronic cases in persons born after 1965.

Clallam county has certain vulnerabilities, including higher rates of unemployment and all drug deaths than Washington State.

In both Washington and Clallam County opioid-related hospitalizations and deaths decreased from 2016 to 2018.





Background: Opioid use, hepatitis C (HCV), and overdose deaths are increasing in the United States and Washington State.¹⁻⁴ There is concern for rapid dissemination of HIV, HCV, and opioid overdose among people who inject drugs (PWID). Following an HIV outbreak among PWID in Scott County, Indiana in 2015,⁵ the US Centers for Disease Control and Prevention (CDC) conducted a study to identify indicator variables associated with injection drug use in order to determine which counties may be vulnerable to new or increasing rates of HIV or HCV among PWID.⁶ In 2019, Washington performed a similar analysis and added opioid overdose as an outcome since injection drug use is associated with a higher risk of overdose than non-injection use.

Results: Select indicators used in the CDC and Washington State models are shown in the table, with the corresponding values for Washington State and the profiled county.

Next Steps: Indicators can be tracked on the county level to inform prevention efforts within WA, and to better understand how social determinants impact county-level health outcomes. Strategic approaches, including increased HIV and HCV testing, should be supported at the county level as needed. Future work will assess additional years of data and changes in indicators and outcomes over time.

	WA State		Clark			
Indicator	2016	2018	Change	2016	2018	Change
	Popul	ation & De	nsity			
Population	7,183,700	7,427,570	3.4%	461,010	479,500	4%
Population per square mile	108	112	4	733	762	29
Urban-rural classification		N/A		2	2	0
	Socio	odemograp	hics			
Unemployment rate	6.8%	5.3%	-1.5%	7.2%	5.4%	-1.8%
% With vehicle access	93%	93%	0%	95%	95%	0%
% Uninsured	9.8%	6.8%	-3.0%	9.0%	6.0%	-3.0%
% No high school diploma	6.3%	6.0%	-0.3%	5.4%	5.0%	-0.4%
Poverty rate	6.7%	6.2%	-0.5%	5.6%	5.2%	-0.4%
Income per capita	\$32 <i>,</i> 999	\$39,119	\$6,120	\$30,207	\$34,163	\$3,956
% Non-Hispanic White	70%	68%	-2.0%	80.0%	78.9%	-1.1%
	Drug Avai	lability & C	Dutcomes			
In Drug Trafficking Zone		N/A			Yes	
All drug deaths per 100,000	15	14	-1	13	9	-3
Opioid hospitalizations per 100,000	25	19	-6	28	21	-7
Opioid deaths per 100,000	10	9	-1	40	25	-15
	Prov	ider Resou	rces			
Mental health providers per 100,000	248	293	45	223	281	58
Specialist providers ¹ per 100,000	8	9	1	5	7	2
Tran	smissible In	jection-Re	lated Infe	ctions		
HIV cases per 100,000	174	181	7	133	145	12
HCV ² cases per 100,000	57	59	2	67	70	3

¹ Specialists included doctors board certified in gastroenterology, hepatology, infectious disease, or addiction medicine.

² HCV cases included all acute cases and chronic cases in persons born after 1965.

Clark county has certain vulnerabilities, including higher rates of opioid hospitalizations and deaths than Washington State.

In both Washington and Clark County opioid-related hospitalizations and deaths decreased from 2016 to 2018.



Background: Opioid use, hepatitis C (HCV), and overdose deaths are increasing in the United States and Washington State.¹⁻⁴ There is concern for rapid dissemination of HIV, HCV, and opioid overdose among people who inject drugs (PWID). Following an HIV outbreak among PWID in Scott County, Indiana in 2015,⁵ the US Centers for Disease Control and Prevention (CDC) conducted a study to identify indicator variables associated with injection drug use in order to determine which counties may be vulnerable to new or increasing rates of HIV or HCV among PWID.⁶ In 2019, Washington performed a similar analysis and added opioid overdose as an outcome since injection drug use is associated with a higher risk of overdose than non-injection use.⁷

Results: Select indicators used in the CDC and Washington State models are shown in the table, with the corresponding values for Washington State and the profiled county.

Next Steps: Indicators can be tracked on the county level to inform prevention efforts within WA, and to better understand how social determinants impact county-level health outcomes. Strategic approaches, including increased HIV and HCV testing, should be supported at the county level as needed. Future work will assess additional years of data and changes in indicators and outcomes over time.

COWLITZ COUNTY

	WA State			Cowlitz		
Indicator	2016	2018	Change	2016	2018	Change
	Popula	ition & Der	nsity			
Population	7,183,700	7,427,570	3.4%	104,850	107,310	2.3%
Population per square mile	108	112	4	92	94	2
Urban-rural classification		N/A		4	4	0
	Socio	demograpl	hics			
Unemployment rate	6.8%	5.3%	-1.5%	9.7%	7.8%	-1.9%
% With vehicle access	93%	93%	0%	92.5%	92.6%	0.2%
% Uninsured	9.8%	6.8%	-3.0%	8.8%	5.7%	-3.2%
% No high school diploma	6.3%	6.0%	-0.3%	8.1%	7.8%	-0.3%
Poverty rate	6.7%	6.2%	-0.5%	9.1%	9.0%	-0.1%
Income per capita	\$32,999	\$39,119	\$6,120	\$24,756	\$27,264	\$2,508
% Non-Hispanic White	70%	68%	-2.0%	84.6%	83.8%	-0.8%
	Drug Avail	ability & O	utcomes			
In Drug Trafficking Zone		N/A			Yes	
All drug deaths per 100,000	15	14	-1	18	13	-5
Opioid hospitalizations per 100,000	25	19	-6	37	29	-8
Opioid deaths per 100,000	10	9	-1	13	7	-6
	Provid	der Resour	ces			
Mental health providers per 100,000	248	293	45	175	267	93
Specialist providers ¹ per 100,000	8	9	1	7	5	-2
Transı	missible Inj	ection-Rela	ated Infe	ctions		
HIV cases per 100,000	174	181	7	108	130	23
HCV ² cases per 100,000	57	59	2	131	130	0

¹ Specialists included doctors board certified in gastroenterology, hepatology, infectious disease, or addiction medicine.

² HCV cases included all acute cases and chronic cases in persons born after 1965.

Cowlitz County has certain vulnerabilities, including higher rates of opioid hospitalizations and HCV than Washington State.

In both Washington and Cowlitz County the rate of opioid-related hospitalizations and deaths decreased from 2016 to 2018.



Background: Opioid use, hepatitis C (HCV), and overdose deaths are increasing in the United States and Washington State.¹⁻⁴ There is concern for rapid dissemination of HIV, HCV, and opioid overdose among people who inject drugs (PWID). Following an HIV outbreak among PWID in Scott County, Indiana in 2015,⁵ the US Centers for Disease Control and Prevention (CDC) conducted a study to identify indicator variables associated with injection drug use in order to determine which counties may be vulnerable to new or increasing rates of HIV or HCV among PWID.⁶ In 2019, Washington performed a similar analysis and added opioid overdose as an outcome since injection drug use is associated with a higher risk of overdose than noninjection use.⁷

Results: Select indicators used in the CDC and Washington State models are shown in the table, with the corresponding values for Washington State and the profiled county.

Next Steps: Indicators can be tracked on the county level to inform prevention efforts within WA, and to better understand how social determinants impact county-level health outcomes. Strategic approaches, including increased HIV and HCV testing, should be supported at the county level as needed. Future work will assess additional years of data and changes in indicators and outcomes over time.

DOUGLAS COUNTY

	V	VA State			Douglas		
Indicator	2016	2018	Change	2016	2018	Change	
	Popula	tion & Der	nsity				
Population	7,183,700	7,427,57 0	3.4%	40,720	42,120	3.4%	
Population per square mile	108	112	4	22	23	1	
Urban-rural classification		N/A		4	4	0	
	Sociod	lemograpl	hics				
Unemployment rate	6.8%	5.3%	-1.5%	5.1%	4.0%	-1.1%	
% With vehicle access	93%	93%	0%	96%	96%	0.0%	
% Uninsured	9.8%	6.8%	-3.0%	13.9%	10.2%	-3.7%	
% No high school diploma	6.3%	6.0%	-0.3%	12.2%	11.7%	-0.5%	
Poverty rate	6.7%	6.2%	-0.5%	6.9%	6.6%	-0.3%	
Income per capita	\$32,999	\$39,119	\$6,120	\$23,966	\$28,579	\$4,613	
% Non-Hispanic White	70%	68%	-2.0%	65.3%	64.5%	-0.8%	
	Drug Availe	ability & O	utcomes				
In Drug Trafficking Zone		N/A			No		
All drug deaths per 100,000	15	14	-1	15	5	-10	
Opioid hospitalizations per 100,000	25	19	-6	37	17	-20	
Opioid deaths per 100,000	10	9	-1	4	2	-2	
	Provid	der Resour	ces				
Mental health providers per 100,000	248	293	45	32	39	7	
Specialist providers ¹ per 100,000	8	9	1	0	2	2	
Transı	nissible Inj	ection-Rela	ated Infe	ctions			
HIV cases per 100,000	174	181	7	37	36	-1	
HCV ² cases per 100,000	57	59	2	7	59	52	
¹ Specialists included doct	ors board ce	artified in a	astroante	arology be	anatology		

¹ Specialists included doctors board certified in gastroenterology, hepatology, infectious disease, or addiction medicine.

² HCV cases included all acute cases and chronic cases in persons born after 1965.

Douglas County has certain vulnerabilities, including less education and insurance than Washington State.

In both Washington and Douglas County the rate of opioidrelated hospitalizations and deaths decreased from 2016 to 2018.





Background: Opioid use, hepatitis C (HCV), and overdose deaths are increasing in the United States and Washington State.¹⁻⁴ There is concern for rapid dissemination of HIV, HCV, and opioid overdose among people who inject drugs (PWID). Following an HIV outbreak among PWID in Scott County, Indiana in 2015,⁵ the US Centers for Disease Control and Prevention (CDC) conducted a study to identify indicator variables associated with injection drug use in order to determine which counties may be vulnerable to new or increasing rates of HIV or HCV among PWID.⁶ In 2019, Washington performed a similar analysis and added opioid overdose as an outcome since injection drug use is associated with a higher risk of overdose than non-injection use.⁷

Results: Select indicators used in the CDC and Washington State models are shown in the table, with the corresponding values for Washington State and the profiled county.

Next Steps: Indicators can be tracked on the county level to inform prevention efforts within WA, and to better understand how social determinants impact county-level health outcomes. Strategic approaches, including increased HIV and HCV testing, should be supported at the county level as needed. Future work will assess additional years of data and changes in indicators and outcomes over time.

		WA State			Ferry	
Indicator	2016	2018	Change	2016	2018	Change
	Popul	ation & D	ensity			
Population	7,183,700	7,427,57 0	3.4%	7,700	7,780	1%
Population per square mile	108	112	4	3	4	1
Urban-rural classification		N/A		6	6	0
	Socio	odemogra	ohics	-		
Unemployment rate	6.8%	5.3%	-1.5%	9.8%	7.7%	-2.1%
% With vehicle access	93%	93%	0%	94%	95%	0.4%
% Uninsured	9.8%	6.8%	-3.0%	11.7%	7.8%	-3.9%
% No high school diploma	6.3%	6.0%	-0.3%	9.1%	10.2%	1.1%
Poverty rate	6.7%	6.2%	-0.5%	14.9%	12.1%	-2.8%
Income per capita	\$32 <i>,</i> 999	\$39,119	\$6,120	\$21,146	\$23,640	\$2,494
% Non-Hispanic White	70%	68%	-2.0%	73.8%	73.4%	-0.4%
	Drug Avai	ilability &	Outcome	5		
In Drug Trafficking Zone		N/A			No	
All drug deaths per 100,000	15	14	-1	0	26	26
Opioid hospitalizations per 100,000	25	19	-6	13	13	0
Opioid deaths per 100,000	10	9	-1	0	1	1
	Prov	ider Resou	irces			
Mental health providers per 100,000	248	293	45	234	236	3
Specialist providers ¹ per 100,000	8	9	1	0	0	0
Trans	smissible In	jection-Re	lated Infe	ections		
HIV cases per 100,000	174	181	7	52	51	-1
HCV ² cases per 100,000	57	59	2	65	116	51

¹ Specialists included doctors board certified in gastroenterology, hepatology, infectious disease, or addiction medicine.

² HCV cases included all acute cases and chronic cases in persons born after 1965.

Ferry County has certain vulnerabilities, including higher rates of drug deaths and HCV than Washington State.

While the rate of drug deaths decreased in Washington State from 2016 to 2018, it increased in Ferry County.



Background: Opioid use, hepatitis C (HCV), and overdose deaths are increasing in the United States and Washington State.¹⁻⁴ There is concern for rapid dissemination of HIV, HCV, and opioid overdose among people who inject drugs (PWID). Following an HIV outbreak among PWID in Scott County, Indiana in 2015,⁵ the US Centers for Disease Control and Prevention (CDC) conducted a study to identify indicator variables associated with injection drug use in order to determine which counties may be vulnerable to new or increasing rates of HIV or HCV among PWID.⁶ In 2019, Washington performed a similar analysis and added opioid overdose as an outcome since injection drug use is associated with a higher risk of overdose than noninjection use.'

Results: Select indicators used in the CDC and Washington State models are shown in the table, with the corresponding values for Washington State and the profiled county.

Next Steps: Indicators can be tracked on the county level to inform prevention efforts within WA, and to better understand how social determinants impact county-level health outcomes. Strategic approaches, including increased HIV and HCV testing, should be supported at the county level as needed. Future work will assess additional years of data and changes in indicators and outcomes over time.

FRANKLIN COUNTY

	١	NA State			Franklin			
Indicator	2016	2018	Change	2016	2018	Change		
	Popula	ation & De	nsity					
Population	7,183,700	7,427,570	3.4%	88,670	92,540	4.4%		
Population per square mile	108	112	4	71	75	3		
Urban-rural classification		N/A		3	3	0		
Sociodemographics								
Unemployment rate	6.8%	5.3%	-1.5%	6.8%	5.6%	-1.2%		
% With vehicle access	93%	93%	0%	95%	96%	1.3%		
% Uninsured	9.8%	6.8%	-3.0%	16.7%	14.2%	-2.5%		
% No high school diploma	6.3%	6.0%	-0.3%	14.9%	14.2%	-0.7%		
Poverty rate	6.7%	6.2%	-0.5%	6.1%	6.2%	0.1%		
Income per capita	\$32,999	\$39,119	\$6,120	\$20,997	\$23,373	\$2,376		
% Non-Hispanic White	70%	68%	-2.0%	41.6%	40.7%	-0.9%		
	Drug Avail	ability & O	utcomes	;				
In Drug Trafficking Zone		N/A			Yes			
All drug deaths per 100,000	15	14	-1	10	9	-2		
Opioid hospitalizations per 100,000	25	19	-6	8	15	7		
Opioid deaths per 100,000	10	9	-1	4	4	0		
	Provi	der Resour	ces					
Mental health providers per 100,000	248	293	45	101	121	19		
Specialist providers ¹ per 100,000	8	9	1	5	3	-1		
Trans	missible Inj	iection-Rel	ated Infe	ections				
HIV cases per 100,000	174	181	7	71	84	13		
HCV ² cases per 100,000	57	59	2	5	67	62		

¹ Specialists included doctors board certified in gastroenterology, hepatology, infectious disease, or addiction medicine.

² HCV cases included all acute cases and chronic cases in persons born after 1965.

Franklin County has certain vulnerabilities, including less insurance coverage and a higher HCV rate than Washington State.

While the rate of opioid-related hospitalizations decreased in Washington State from 2016 to 2018, it increased in Franklin County.



Background: Opioid use, hepatitis C (HCV), and overdose deaths are increasing in the United States and Washington State.¹⁻⁴ There is concern for rapid dissemination of HIV, HCV, and opioid overdose among people who inject drugs (PWID). Following an HIV outbreak among PWID in Scott County, Indiana in 2015,⁵ the US Centers for Disease Control and Prevention (CDC) conducted a study to identify indicator variables associated with injection drug use in order to determine which counties may be vulnerable to new or increasing rates of HIV or HCV among PWID.⁶ In 2019, Washington performed a similar analysis and added opioid overdose as an outcome since injection drug use is associated with a higher risk of overdose than non-injection use.

Results: Select indicators used in the CDC and Washington State models are shown in the table, with the corresponding values for Washington State and the profiled county.

Next Steps: Indicators can be tracked on the county level to inform prevention efforts within WA, and to better understand how social determinants impact county-level health outcomes. Strategic approaches, including increased HIV and HCV testing, should be supported at the county level as needed. Future work will assess additional years of data and changes in indicators and outcomes over time.

GRANT COUNTY

	١	NA State			Grant		
ndicator	2016	2018	Change	2016	2018	Change	
	Populat	tion & Dens	sity				
Population	7,183,700	7,427,570	3.4%	94,610	97,350	2.9%	
Population per square mile	108	112	4	35	36	1	
Urban-rural classification		N/A		5	5	0	
	Sociod	emographi	ics				
Unemployment rate	6.8%	5.3%	-1.5%	9.1%	5.6%	-3.5%	
% With vehicle access	93%	93%	0%	95%	95%	0.8%	
% Uninsured	9.8%	6.8%	-3.0%	16.8%	13.1%	-3.6%	
% No high school diploma	6.3%	6.0%	-0.3%	14.6%	14.1%	-0.5%	
Poverty rate	6.7%	6.2%	-0.5%	7.6%	6.6%	-0.9%	
ncome per capita	\$32,999	\$39,119	\$6,120	\$20,409	\$23,633	\$3,224	
% Non-Hispanic White	70%	68%	-2.0%	55.5%	54.3%	-1.2%	
	Drug Availa	bility & Ou	tcomes				
n Drug Trafficking Zone		N/A			No		
All drug deaths per 100,000	15	14	-1	10	14	5	
Opioid hospitalizations per 100,000	25	19	-6	23	13	-10	
Opioid deaths per 100,000	10	9	-1	4	6	2	
	Provid	er Resourc	es				
Mental health providers per 100,000	248	293	45	148	176	28	
Specialist providers ¹ per 100,000	8	9	1	2	2	0	
Transm	issable Inje	ection-Rela	ted Infe	ctions			
HIV cases per 100,000	174	181	7	42	43	1	
HCV ² cases per 100,000	57	59	2	27	34	6	
1							

¹ Specialists included doctors board certified in gastroenterology, hepatology, infectious disease, or addiction medicine.

² HCV cases included all acute cases and chronic cases in persons born after 1965.

Grant County has certain vulnerabilities, including less insurance coverage and lower educational attainment than Washington State.

While the rate of drug deaths decreased in Washington State from 2016 to 2018, it increased in Grant County.



Background: Opioid use, hepatitis C (HCV), and overdose deaths are increasing in the United States and Washington State.¹⁻⁴ There is concern for rapid dissemination of HIV, HCV, and opioid overdose among people who inject drugs (PWID). Following an HIV outbreak among PWID in Scott County, Indiana in 2015,⁵ the US Centers for Disease Control and Prevention (CDC) conducted a study to identify indicator variables associated with injection drug use in order to determine which counties may be vulnerable to new or increasing rates of HIV or HCV among PWID.⁶ In 2019, Washington performed a similar analysis and added opioid overdose as an outcome since injection drug use is associated with a higher risk of overdose than non-injection use.7

Results: Select indicators used in the CDC and Washington State models are shown in the table, with the corresponding values for Washington State and the profiled county.

Next Steps: Indicators can be tracked on the county level to inform prevention efforts within WA, and to better understand how social determinants impact countylevel health outcomes. Strategic approaches, including increased HIV and HCV testing, should be supported at the county level as needed. Future work will assess additional years of data and changes in indicators and outcomes over time.

GRAYS HARBOR COUNTY

	1	NA State		Gr	ays Harbo	r
Indicator	2016	2018	Change	2016	2018	Change
	Popul	ation & De	nsity			
Population	7,183,700	7,427,570	3.4%	72,820	73,610	1.1%
Population per square mile	108	112	4	38	39	1
Urban-rural classification		N/A		5	5	0
	Socio	demograp	hics			
Unemployment rate	6.8%	5.3%	-1.5%	12.1%	8.4%	-3.7%
% With vehicle access	93%	93%	0%	93%	93%	-0.2%
% Uninsured	9.8%	6.8%	-3.0%	12.6%	7.9%	-4.6%
% No high school diploma	6.3%	6.0%	-0.3%	8.2%	7.8%	-0.4%
Poverty rate	6.7%	6.2%	-0.5%	9.3%	9.0%	-0.3%
Income per capita	\$32,999	\$39,119	\$6,120	\$23,799	\$25,374	\$1,575
% Non-Hispanic White	70%	68%	-2.0%	80.0%	79.6%	-0.4%
	Drug Avai	lability & C	Outcome	5		
In Drug Trafficking Zone		N/A			No	
All drug deaths per 100,000	15	14	-1	30	15	-15
Opioid hospitalizations per 100,000	25	19	-6	23	23	0
Opioid deaths per 100,000	10	9	-1	10	6	-4
	Prov	ider Resoul	rces			
Mental health providers per 100,000	248	293	45	121	148	27
Specialist providers ¹ per 100,000	8	9	1	3	5	3
Trans	missible In	jection-Rel	ated Inf	ections		
HIV cases per 100,000	174	181	7	104	122	18
HCV ² cases per 100,000	57	59	2	70	109	39

Specialists included doctors board certified in gastroenterology, hepatology, infectious disease, or addiction medicine.

² HCV cases included all acute cases and chronic cases in persons born after 1965.

Grays Harbor County has certain vulnerabilities, including higher rates of unemployment and HCV than Washington State.

The rate of drug deaths decreased in both Washington and Grays Harbor County from 2016 and 2018.



Background: Opioid use, hepatitis C (HCV), and overdose deaths are increasing in the United States and Washington State.¹⁻⁴ There is concern for rapid dissemination of HIV, HCV, and opioid overdose among people who inject drugs (PWID). Following an HIV outbreak among PWID in Scott County, Indiana in 2015,⁵ the US Centers for Disease Control and Prevention (CDC) conducted a study to identify indicator variables associated with injection drug use in order to determine which counties may be vulnerable to new or increasing rates of HIV or HCV among PWID.⁶ In 2019, Washington performed a similar analysis and added opioid overdose as an outcome since injection drug use is associated with a higher risk of overdose than non-injection use.7

Results: Select indicators used in the CDC and Washington State models are shown in the table, with the corresponding values for Washington State and the profiled county.

Next Steps: Indicators can be tracked on the county level to inform prevention efforts within WA, and to better understand how social determinants impact county-level health outcomes. Strategic approaches, including increased HIV and HCV testing, should be supported at the county level as needed. Future work will assess additional years of data and changes in indicators and outcomes over time.

ISLAND COUNTY

	۱ ۱	VA State			Island	
Indicator	2016	2018	Change	2016	2018	Change
	Popula	tion & Den	sity			
Population	7,183,700	7,427,570	3.4%	82,910	83,860	1.5%
Population per square mile	108	112	4	398	402	5
Urban-rural classification		N/A		5	5	0
	Sociod	emograph	ics			
Unemployment rate	6.8%	5.3%	-1.5%	7.7%	6.1%	-1.6%
% With vehicle access	93%	93%	0%	96%	96%	0.8%
% Uninsured	9.8%	6.8%	-3.0%	6.7%	5.0%	-1.8%
% No high school diploma	6.3%	6.0%	-0.3%	3.6%	3.3%	-0.3%
Poverty rate	6.7%	6.2%	-0.5%	5.2%	5.0%	-0.2%
ncome per capita	\$32,999	\$39,119	\$6,120	\$32,503	\$35,364	\$2,861
% Non-Hispanic White	70%	68%	-2.0%	80.7%	79.5%	-1.2%
	Drug Availa	bility & Ou	tcomes			
n Drug Trafficking Zone		N/A			No	
All drug deaths per 100,000	15	14	-1	6	4	-2
Opioid hospitalizations per 100,000	25	19	-6	21	18	-3
Opioid deaths per 100,000	10	9	-1	1	2	1
	Provid	ler Resourc	es			
Mental health providers per 100,000	248	293	45	251	273	23
Specialist providers ¹ per 100,000	8	9	1	0	4	4
Transn	nissible Inje	ction-Rela	ted Infec	tions		
HIV cases per 100,000	174	181	7	92	109	17
HCV ² cases per 100,000	57	59	2	24	35	10

¹ Specialists included doctors board certified in gastroenterology, hepatology, infectious disease, or addiction medicine.

² HCV cases included all acute cases and chronic cases in persons born after 1965.

Island County has certain vulnerabilities, including a higher rate of unemployment than Washington State.

The rate of drug deaths decreased in both Washington and Island County from 2016 and 2018.



Background: Opioid use, hepatitis C (HCV), and overdose deaths are increasing in the United States and Washington State.¹⁻⁴ There is concern for rapid dissemination of HIV, HCV, and opioid overdose among people who inject drugs (PWID). Following an HIV outbreak among PWID in Scott County, Indiana in 2015,⁵ the US Centers for Disease Control and Prevention (CDC) conducted a study to identify indicator variables associated with injection drug use in order to determine which counties may be vulnerable to new or increasing rates of HIV or HCV among PWID.⁶ In 2019, Washington performed a similar analysis and added opioid overdose as an outcome since injection drug use is associated with a higher risk of overdose than non-injection use.⁷

Results: Select indicators used in the CDC and Washington State models are shown in the table, with the corresponding values for Washington State and the profiled county.

Next Steps: Indicators can be tracked on the county level to inform prevention efforts within WA, and to better understand how social determinants impact county-level health outcomes. Strategic approaches, including increased HIV and HCV testing, should be supported at the county level as needed. Future work will assess additional years of data and changes in indicators and outcomes over time.

JEFFERSON COUNTY

	WA State			Jefferson		
Indicator	2016	2018	Change	2016	2018	Change
	Popula	tion & Den	sity			
Population	7,183,700	7,427,570	3.4%	31,090	31,590	1.6%
Population per square mile	108	112	4	17	18	1
Urban-rural classification		N/A		6	6	0
	Socioa	lemograph	ics			
Unemployment rate	6.8%	5.3%	-1.5%	7.2%	6.3%	-0.9%
% With vehicle access	93%	93%	0%	95%	96%	0.4%
% Uninsured	9.8%	6.8%	-3.0%	7.8%	5.7%	-2.1%
% No high school diploma	6.3%	6.0%	-0.3%	4.3%	4.3%	-0.1%
Poverty rate	6.7%	6.2%	-0.5%	7.7%	8.5%	0.8%
Income per capita	\$32,999	\$39,119	\$6,120	\$30,871	\$34,187	\$3,316
% Non-Hispanic White	70%	68%	-2.0%	88.7%	88.7%	0.0%
	Drug Availa	ability & Ou	itcomes			
In Drug Trafficking Zone		N/A			No	
All drug deaths per 100,000	15	14	-1	23	19	-4
Opioid hospitalizations per 100,000	25	19	-6	42	25	-17
Opioid deaths per 100,000	10	9	-1	6	2	-4
	Provid	ler Resourd	ces		1	
Mental health providers per 100,000	248	293	45	267	295	28
Specialist providers ¹ per 100,000	8	9	1	3	3	0
Transn	nissible Inje	ection-Rela	ted Infe	ctions		
HIV cases per 100,000	174	181	7	109	158	49
HCV ² cases per 100,000	57	59	2	19	35	16

¹ Specialists included doctors board certified in gastroenterology, hepatology, infectious disease, or addiction medicine.

² HCV cases included all acute cases and chronic cases in persons born after 1965.

Jefferson County has certain vulnerabilities, including higher rates of unemployment and deaths related to drugs than Washington State.

The rate of drug deaths decreased in both Washington and Jefferson County from 2016 and 2018.



Background: Opioid use, hepatitis C (HCV), and overdose deaths are increasing in the United States and Washington State.¹⁻⁴ There is concern for rapid dissemination of HIV, HCV, and opioid overdose among people who inject drugs (PWID). Following an HIV outbreak among PWID in Scott County, Indiana in 2015,⁵ the US Centers for Disease Control and Prevention (CDC) conducted a study to identify indicator variables associated with injection drug use in order to determine which counties may be vulnerable to new or increasing rates of HIV or HCV among PWID.⁶ In 2019, Washington performed a similar analysis and added opioid overdose as an outcome since injection drug use is associated with a higher risk of overdose than noninjection use.⁷

Results: Select indicators used in the CDC and Washington State models are shown in the table, with the corresponding values for Washington State and the profiled county.

Next Steps: Indicators can be tracked on the county level to inform prevention efforts within WA, and to better understand how social determinants impact county-level health outcomes. Strategic approaches, including increased HIV and HCV testing, should be supported at the county level as needed. Future work will assess additional years of data and changes in indicators and outcomes over time.

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	WA State				King	
Indicator	2016	2018	Change	2016	2018	Change
	Рори	lation & De	ensity			
Population	7,183,70 0	7,427,570	3.4%	2,105,10 0	2,190,20 0	4%
Population per square mile	108	112	4	995	1035	40
Urban-rural classification	N/A 1 1				0	
	Soci	odemogra	ohics			
Unemployment rate	6.8%	5.3%	-1.5%	5.5%	4.5%	-1.0%
% With vehicle access	93%	93%	0%	90%	90%	-0.2%
% Uninsured	9.8%	6.8%	-3.0%	8.2%	5.6%	-2.6%
% No high school diploma	6.3%	6.0%	-0.3%	5.2%	4.9%	-0.3%
Poverty rate	6.7%	6.2%	-0.5%	5.9%	5.4%	-0.5%
Income per capita	\$32,999	\$39,119	\$6,120	\$43,629	\$49,298	\$5 <i>,</i> 669
% Non-Hispanic White	70%	68%	-2.0%	62.2%	60.4%	-1.8%
	Drug Ava	ilability &	Outcomes	;		
In Drug Trafficking Zone		N/A			Yes	
All drug deaths per 100,000	15	14	-1	14	15	1
Opioid hospitalizations per 100,000	25	19	-6	21	15	-6
Opioid deaths per 100,000	10	9	-1	207	233	26
	Pro	vider Resou	ırces			
Mental health providers per 100,000	248	293	45	290	343	53
Specialist providers ¹ per 100,000	8	9	1	14	15	1
Trans	smissible I	njection-Re	lated Infe	ections		-
HIV cases per 100,000	174	181	7	322	321	-1
HCV ² cases per 100,000	57	59	2	42	38	-4
HCV ² cases per 100,000	57	59	2	42	38	-4

¹ Specialists included doctors board certified in gastroenterology, hepatology, infectious disease, or addiction medicine.

² HCV cases included all acute cases and chronic cases in persons born after 1965.

King County has certain vulnerabilities, including higher rates of HIV and HCV infection than Washington State.

While the rate of opioid-related deaths decreased in Washington State from 2016 and 2018, it increased in King County.





Background: Opioid use, hepatitis C (HCV), and overdose deaths are increasing in the United States and Washington State.¹⁻⁴ There is concern for rapid dissemination of HIV, HCV, and opioid overdose among people who inject drugs (PWID). Following an HIV outbreak among PWID in Scott County, Indiana in 2015,⁵ the US Centers for Disease Control and Prevention (CDC) conducted a study to identify indicator variables associated with injection drug use in order to determine which counties may be vulnerable to new or increasing rates of HIV or HCV among PWID.⁶ In 2019, Washington performed a similar analysis and added opioid overdose as an outcome since injection drug use is associated with a higher risk of overdose than non-injection use.⁷

Results: Select indicators used in the CDC and Washington State models are shown in the table, with the corresponding values for Washington State and the profiled county.

Next Steps: Indicators can be tracked on the county level to inform prevention efforts within WA, and to better understand how social determinants impact county-level health outcomes. Strategic approaches, including increased HIV and HCV testing, should be supported at the county level as needed. Future work will assess additional years of data and changes in indicators and outcomes over time.

	١	NA State		Kitsap		
Indicator	2016	2018	Change	2016	2018	Change
	Popula	tion & Den	sity			
Population	7,183,700	7,427,570	3.4%	262,590	267,120	1.7%
Population per square mile	108	112	4	665	676	11
Urban-rural classification		N/A	-	3	3	0
	Socioa	lemograph	ics			
Unemployment rate	6.8%	5.3%	-1.5%	7.0%	5.2%	-1.8%
% With vehicle access	93%	93%	0%	94%	95%	0.2%
% Uninsured	9.8%	6.8%	-3.0%	7.2%	4.7%	-2.5%
% No high school diploma	6.3%	6.0%	-0.3%	3.8%	3.8%	0.0%
Poverty rate	6.7%	6.2%	-0.5%	5.9%	5.8%	-0.1%
Income per capita	\$32,999	\$39,119	\$6,120	\$32,801	\$35,826	\$3 <i>,</i> 025
% Non-Hispanic White	70%	68%	-2.0%	77.7%	77.0%	-0.7%
Ĺ	Drug Availa	ıbility & Oເ	ıtcomes			
In Drug Trafficking Zone		N/A			Yes	
All drug deaths per 100,000	15	14	-1	14	10	-4
Opioid hospitalizations per 100,000	25	19	-6	17	20	3
Opioid deaths per 100,000	10	9	-1	26	12	-14
	Provia	ler Resourc	ces			
Mental health providers per 100,000	248	293	45	216	267	51
Specialist providers ¹ per 100,000	8	9	1	5	4	0
Transn	nissible Inje	ection-Rela	ted Infe	ctions		
HIV cases per 100,000	174	181	7	112	116	4
HCV ² cases per 100,000	57	59	2	32	35	3

¹ Specialists included doctors board certified in gastroenterology, hepatology, infectious disease, or addiction medicine.

² HCV cases included all acute cases and chronic cases in persons born after 1965.

Kitsap County has certain vulnerabilities, including a higher rate of opioid-related hospitalizations than Washington State.

The rate of deaths related to opioids decreased in both Washington State and Kitsap County from 2016 to 2018.



Background: Opioid use, hepatitis C (HCV), and overdose deaths are increasing in the United States and Washington State.¹⁻⁴ There is concern for rapid dissemination of HIV, HCV, and opioid overdose among people who inject drugs (PWID). Following an HIV outbreak among PWID in Scott County, Indiana in 2015,⁵ the US Centers for Disease Control and Prevention (CDC) conducted a study to identify indicator variables associated with injection drug use in order to determine which counties may be vulnerable to new or increasing rates of HIV or HCV among PWID.⁶ In 2019, Washington performed a similar analysis and added opioid overdose as an outcome since injection drug use is associated with a higher risk of overdose than noninjection use.⁷

Results: Select indicators used in the CDC and Washington State models are shown in the table, with the corresponding values for Washington State and the profiled county.

Next Steps: Indicators can be tracked on the county level to inform prevention efforts within WA, and to better understand how social determinants impact county-level health outcomes. Strategic approaches, including increased HIV and HCV testing, should be supported at the county level as needed. Future work will assess additional years of data and changes in indicators and outcomes over time.

KITTITAS COUNTY

١	NA State		Kittitas		
2016	2018	Change	2016	2018	Change
Populat	ion & Den	sity			
7,183,700	7,427,570	3.4%	43,710	45,600	4.3%
108	112	4	19	20	1
	N/A		5	5	0
Sociod	emographi	ics			
6.8%	5.3%	-1.5%	6.7%	6.0%	-0.7%
93%	93%	0%	94%	96%	1.7%
9.8%	6.8%	-3.0%	11.0%	6.6%	-4.4%
6.3%	6.0%	-0.3%	5.5%	4.7%	-0.8%
6.7%	6.2%	-0.5%	7.4%	6.6%	-0.8%
\$32 <i>,</i> 999	\$39,119	\$6,120	\$25,147	\$27,948	\$2,801
70%	68%	-2.0%	84.6%	84.1%	-0.5%
)rug Availa	bility & Ou	tcomes			
	N/A			No	
15	14	-1	5	2	-2
25	19	-6	11	7	-4
10	9	-1	2	1	-1
Provid	er Resourc	es			
248	293	45	126	147	21
8	9	1	0	2	2
issible Inje	ction-Rela	ted Infec	tions		
174	181	7	64	55	-9
57	50	2	10	20	12
	2016 Populat 7,183,700 108 5ociod 6.8% 93% 9.8% 6.3% 6.3% 6.7% \$32,999 70% 70% 70% 70% 70% 70% 70% 70%	WA State 2016 2018 Population & Densily 7,183,700 7,427,570 108 112 N/A Sociodemographie 6.8% 5.3% 93% 93% 93% 93% 93% 6.8% 6.3% 6.0% 6.7% 6.2% \$32,999 \$39,119 70% 68% orug Availability & Out N/A 15 14 25 19 10 9 Provider Resource 248 293 8 9 3 issible Injection-Relation 181	WA State 2016 2018 Change Population & Density 7,183,700 7,427,570 3.4% 108 112 4 N/A Sociodemographics 6.8% 5.3% -1.5% 93% 93% 0% 93% 93% 0% 93% 93% -0.5% 93% 6.8% -3.0% 6.3% 6.2% -0.5% 6.3% 6.2% -0.5% 532,999 \$39,119 \$6,120 70% 68% -2.0% 93% 9 -1 70% 539,119 \$6,120 70% 68% -2.0% N/A 15 14 -1 25 19 -6 10 9 -1 248 293 45 8 9 1 issible Injection-Related Injection-Related Injection	WA StateChange201620162018Change2016Population & Density7,183,7007,427,5703.4%43,710108112419 108 112419N/A5Sociodemographics6.8%5.3%-1.5%6.7%93%93%0%94%9.8%6.8%-3.0%11.0%6.3%6.0%-0.3%5.5%6.7%6.2%-0.5%7.4%\$32,999\$39,119\$6,120\$25,14770%6.8%-2.0%84.6%N/A51514-152519-611109-12Provider Resources248293451268910issible Injection-Related Infections147174181764	VA StateVittitas20162018Change20162018Populat207,183,7007,427,5703.4%43,71045,60010811241920N/A20Sociod5Sociod6.7%6.0%93%93%0%94%96%93%93%0%94%96%93%93%0%94%96%9.8%6.8%-3.0%11.0%6.6%6.3%6.0%-0.5%7.4%6.6%6.3%6.2%-0.5%7.4%6.6%6.3%6.2%-0.5%7.4%8.4.1%70%6.8%-2.0%84.6%84.1%N/ANoTO%51514-1522519-61117109-121Provid= Resource2482934512614789102issible Inje-tion-Related Infector5%5%5%17418176455%

¹ Specialists included doctors board certified in gastroenterology, hepatology, infectious disease, or addiction medicine.

² HCV cases included all acute cases and chronic cases in persons born after 1965.

Kittitas County has certain vulnerabilities, including higher rates of unemployment and poverty than Washington State.

The rate of deaths related to opioids decreased in both Washington State and Kittitas County from 2016 to 2018.

KLICKITAT COUNTY



Background: Opioid use, hepatitis C (HCV), and overdose deaths are increasing in the United States and Washington State.¹⁻⁴ There is concern for rapid dissemination of HIV, HCV, and opioid overdose among people who inject drugs (PWID). Following an HIV outbreak among PWID in Scott County, Indiana in 2015,⁵ the US Centers for Disease Control and Prevention (CDC) conducted a study to identify indicator variables associated with injection drug use in order to determine which counties may be vulnerable to new or increasing rates of HIV or HCV among PWID.⁶ In 2019, Washington performed a similar analysis and added opioid overdose as an outcome since injection drug use is associated with a higher risk of overdose than non-injection use.⁷

Results: Select indicators used in the CDC and Washington State models are shown in the table, with the corresponding values for Washington State and the profiled county.

Next Steps: Indicators can be tracked on the county level to inform prevention efforts within WA, and to better understand how social determinants impact county-level health outcomes. Strategic approaches, including increased HIV and HCV testing, should be supported at the county level as needed. Future work will assess additional years of data and changes in indicators and outcomes over time.

	WA State			Klickitat		
Indicator	2016	2018	Change	2016	2018	Change
	Popul	ation & De	nsity		-	
Population	7,183,700	7,427,570	3.4%	21,270	21,980	3.3%
Population per square mile	108	112	4	11	12	0
Urban-rural classification		N/A		6	6	0
	Socio	odemograp	hics			
Unemployment rate	6.8%	5.3%	-1.5%	5.4%	6.2%	0.8%
% With vehicle access	93%	93%	0%	96%	96%	-0.5%
% Uninsured	9.8%	6.8%	-3.0%	9.4%	7.9%	-1.5%
% No high school diploma	6.3%	6.0%	-0.3%	9.5%	8.7%	-0.8%
Poverty rate	6.7%	6.2%	-0.5%	8.2%	9.0%	0.8%
Income per capita	\$32,999	\$39,119	\$6,120	\$23,227	\$26,128	\$2,901
% Non-Hispanic White	70%	68%	-2.0%	82.3%	82.2%	-0.1%
	Drug Avai	lability & C	outcomes	5		
In Drug Trafficking Zone		N/A			No	
All drug deaths per 100,000	15	14	-1	24	9	-14
Opioid hospitalizations per 100,000	25	19	-6	9	0	-9
Opioid deaths per 100,000	10	9	-1	0	0	0
	Prov	ider Resoui	ces			
Mental health providers per 100,000	248	293	45	132	127	-5
Specialist providers ¹ per 100,000	8	9	1	5	5	0
Trans	smissible In	jection-Rel	ated Infe	ections		
HIV cases per 100,000	174	181	7	56	64	7
HCV ² cases per 100,000	57	59	2	24	45	22

¹ Specialists included doctors board certified in gastroenterology, hepatology, infectious disease, or addiction medicine.

² HCV cases included all acute cases and chronic cases in persons born after 1965.

Klickitat County has certain vulnerabilities, including a higher rate of unemployment and less insurance coverage than Washington State.

The rate of drug deaths and hospitalizations related to opioids decreased in both Washington State and Klickitat County from 2016 to 2018.



Background: Opioid use, hepatitis C (HCV), and overdose deaths are increasing in the United States and Washington State.¹⁻⁴ There is concern for rapid dissemination of HIV, HCV, and opioid overdose among people who inject drugs (PWID). Following an HIV outbreak among PWID in Scott County, Indiana in 2015,⁵ the US Centers for Disease Control and Prevention (CDC) conducted a study to identify indicator variables associated with injection drug use in order to determine which counties may be vulnerable to new or increasing rates of HIV or HCV among PWID.⁶ In 2019, Washington performed a similar analysis and added opioid overdose as an outcome since injection drug use is associated with a higher risk of overdose than noninjection use.'

Results: Select indicators used in the CDC and Washington State models are shown in the table, with the corresponding values for Washington State and the profiled county.

Next Steps: Indicators can be tracked on the county level to inform prevention efforts within WA, and to better understand how social determinants impact county-level health outcomes. Strategic approaches, including increased HIV and HCV testing, should be supported at the county level as needed. Future work will assess additional years of data and changes in indicators and outcomes over time.

LEWIS COUNTY

	V	VA State			Lewis	
Indicator	2016	2018	Change	2016	2018	Change
	Populo	ation & De	nsity			
Population	7,183,700	7,427,570	3.4%	76,890	78,380	1.9%
Population per square mile	108	112	4	11	12	0
Urban-rural classification		N/A		6	6	0
	Socio	demograp	hics			
Unemployment rate	6.8%	5.3%	-1.5%	5.4%	6.2%	0.8%
% With vehicle access	93%	93%	0%	96%	96%	-0.5%
% Uninsured	9.8%	6.8%	-3.0%	9.4%	7.9%	-1.5%
% No high school diploma	6.3%	6.0%	-0.3%	9.5%	8.7%	-0.8%
Poverty rate	6.7%	6.2%	-0.5%	8.2%	9.0%	0.8%
Income per capita	\$32 <i>,</i> 999	\$39,119	\$6,120	\$23,227	\$26,128	\$2,901
% Non-Hispanic White	70%	68%	-2.0%	82.3%	82.2%	-0.1%
	Drug Avail	ability & O	utcomes	5		
In Drug Trafficking Zone		N/A		No	No	0
All drug deaths per 100,000	15	14	-1	24	9	-14
Opioid hospitalizations per 100,000	25	19	-6	26	17	-9
Opioid deaths per 100,000	10	9	-1	0	0	0
	Provi	der Resour	ces			
Mental health providers per 100,000	248	293	45	132	127	-5
Specialist providers ¹ per 100,000	8	9	1	5	5	0
Trans	missible Inj	ection-Rel	ated Infe	ections		-
HIV cases per 100,000	174	181	7	56	64	7
HCV ² cases per 100,000	57	59	2	24	45	22

¹ Specialists included doctors board certified in gastroenterology, hepatology, infectious disease, or addiction medicine.

² HCV cases included all acute cases and chronic cases in persons born after 1965.

Lewis County has certain vulnerabilities, including a higher rate of unemployment and less insurance coverage than Washington State.

The rate of drug deaths and hospitalizations related to opioids decreased in both Washington State and Lewis County from 2016 to 2018.



Background: Opioid use, hepatitis C (HCV), and overdose deaths are increasing in the United States and Washington State.¹⁻⁴ There is concern for rapid dissemination of HIV, HCV, and opioid overdose among people who inject drugs (PWID). Following an HIV outbreak among PWID in Scott County, Indiana in 2015,⁵ the US Centers for Disease Control and Prevention (CDC) conducted a study to identify indicator variables associated with injection drug use in order to determine which counties may be vulnerable to new or increasing rates of HIV or HCV among PWID.⁶ In 2019, Washington performed a similar analysis and added opioid overdose as an outcome since injection drug use is associated with a higher risk of overdose than non-injection use.⁷

Results: Select indicators used in the CDC and Washington State models are shown in the table, with the corresponding values for Washington State and the profiled county.

Next Steps: Indicators can be tracked on the county level to inform prevention efforts within WA, and to better understand how social determinants impact county-level health outcomes. Strategic approaches, including increased HIV and HCV testing, should be supported at the county level as needed. Future work will assess additional years of data and changes in indicators and outcomes over time.

LINCOLN COUNTY

	<u> </u>	WA State			Lincoln	
Indicator	2016	2018	Change	2016	2018	Change
	Popula	tion & Den	sity			
Population	7,183,700	7,427,570	3.4%	10,640	10,810	1.6%
Population per square mile	108	112	4	5	5	0
Urban-rural classification		N/A		6	6	0
	Socioo	demograph	ics			
Unemployment rate	6.8%	5.3%	-1.5%	4.1%	4.3%	0.2%
% With vehicle access	93%	93%	0%	97%	98%	1.1%
% Uninsured	9.8%	6.8%	-3.0%	8.3%	5.1%	-3.2%
% No high school diploma	6.3%	6.0%	-0.3%	6.1%	6.0%	0.0%
Poverty rate	6.7%	6.2%	-0.5%	8.3%	7.0%	-1.2%
Income per capita	\$32,999	\$39,119	\$6,120	\$25 <i>,</i> 382	\$27,730	\$2,348
% Non-Hispanic White	70%	68%	-2.0%	92.1%	91.5%	-0.6%
	Drug Availa	ability & Ou	itcomes			
In Drug Trafficking Zone		N/A		No	No	0
All drug deaths per 100,000	15	14	-1	38	0	-38
Opioid hospitalizations per 100,000	25	19	-6	47	9	-38
Opioid deaths per 100,000	10	9	-1	2	0	-2
	Provid	der Resourc	ces			·
Mental health providers per 100,000	248	293	45	47	68	21
Specialist providers ¹ per 100,000	8	9	1	0	0	0
Transr	nissible Inj	ection-Rela	ted Infe	ctions		
HIV cases per 100,000	174	181	7	75	46	-29
HCV ² cases per 100,000	57	59	2	28	74	46

¹ Specialists included doctors board certified in gastroenterology, hepatology, infectious disease, or addiction medicine.

² HCV cases included all acute cases and chronic cases in persons born after 1965.

Lincoln County has certain vulnerabilities, including a higher rate of HCV infection than Washington State.

The rate of drug deaths and hospitalizations related to opioids decreased in both Washington State and Lincoln County from 2016 to 2018.





Background: Opioid use, hepatitis C (HCV), and overdose deaths are increasing in the United States and Washington State.¹⁻⁴ There is concern for rapid dissemination of HIV, HCV, and opioid overdose among people who inject drugs (PWID). Following an HIV outbreak among PWID in Scott County, Indiana in 2015,⁵ the US Centers for Disease Control and Prevention (CDC) conducted a study to identify indicator variables associated with injection drug use in order to determine which counties may be vulnerable to new or increasing rates of HIV or HCV among PWID.⁶ In 2019, Washington performed a similar analysis and added opioid overdose as an outcome since injection drug use is associated with a higher risk of overdose than non-injection use.⁷

Results: Select indicators used in the CDC and Washington State models are shown in the table, with the corresponding values for Washington State and the profiled county.

Next Steps: Indicators can be tracked on the county level to inform prevention efforts within WA, and to better understand how social determinants impact county-level health outcomes. Strategic approaches, including increased HIV and HCV testing, should be supported at the county level as needed. Future work will assess additional years of data and changes in indicators and outcomes over time.

	WA State			Mason		
Indicator	2016	2018	Change	2016	2018	Change
	Populat	tion & Den	sity			
Population	7,183,700	7,427,57	3.4%	62,320	64,020	2.7%
		0				
Population per square mile	108	112	4	65	67	2
Urban-rural classification		N/A		5	5	0
	Sociod	emograph	ics			
Unemployment rate	6.8%	5.3%	-1.5%	10.8%	7.5%	-3.3%
% With vehicle access	93%	93%	0%	96%	96%	0.4%
% Uninsured	9.8%	6.8%	-3.0%	13.2%	7.8%	-5.4%
% No high school diploma	6.3%	6.0%	-0.3%	9.0%	9.0%	0.0%
Poverty rate	6.7%	6.2%	-0.5%	9.6%	8.7%	-0.9%
Income per capita	\$32,999	\$39,119	\$6,120	\$25,628	\$27,253	\$1,625
% Non-Hispanic White	70%	68%	-2.0%	81.7%	80.9%	-0.8%
Ľ)rug Availa	bility & Ou	utcomes			
In Drug Trafficking Zone		N/A		No	No	0
All drug deaths per 100,000	15	14	-1	18	9	-8
Opioid hospitalizations per 100,000	25	19	-6	39	23	-16
Opioid deaths per 100,000	10	9	-1	8	3	-5
	Provid	er Resourd	ces			
Mental health providers per 100,000	248	293	45	82	121	39
Specialist providers ¹ per 100,000	8	9	1	5	2	-3
Transm	issible Inje	ction-Rela	ited Infe	ctions		
HIV cases per 100,000	174	181	7	104	102	-3
HCV ² cases per 100,000	57	59	2	77	347	270

¹ Specialists included doctors board certified in gastroenterology, hepatology, infectious disease, or addiction medicine.

² HCV cases included all acute cases and chronic cases in persons born after 1965.

Mason County has certain vulnerabilities, including a higher rate of HCV infection than Washington State.

The rate of drug deaths and hospitalizations related to opioids decreased in both Washington State and Mason County from 2016 to 2018.



Background: Opioid use, hepatitis C (HCV), and overdose deaths are increasing in the United States and Washington State.¹⁻⁴ There is concern for rapid dissemination of HIV, HCV, and opioid overdose among people who inject drugs (PWID). Following an HIV outbreak among PWID in Scott County, Indiana in 2015,⁵ the US Centers for Disease Control and Prevention (CDC) conducted a study to identify indicator variables associated with injection drug use in order to determine which counties may be vulnerable to new or increasing rates of HIV or HCV among PWID.⁶ In 2019, Washington performed a similar analysis and added opioid overdose as an outcome since injection drug use is associated with a higher risk of overdose than non-injection use.⁷

Results: Select indicators used in the CDC and Washington State models are shown in the table, with the corresponding values for Washington State and the profiled county.

Next Steps: Indicators can be tracked on the county level to inform prevention efforts within WA, and to better understand how social determinants impact county-level health outcomes. Strategic approaches, including increased HIV and HCV testing, should be supported at the county level as needed. Future work will assess additional years of data and changes in indicators and outcomes over time.

OKANOGAN COUNTY

	١	NA State		<u> </u>)kanogan	
Indicator	2016	2018	Change	2016	2018	Change
	Popula	tion & Den	sitv	2010	2010	change
Population	7.183.700	7.427.570	3.4%	41,730	42,490	1.8%
Population per square mile	108	112	4	8	8	0
Urban-rural classification		N/A		6	6	0
	Sociod	lemograph	ics			
Unemployment rate	6.8%	5.3%	-1.5%	8.1%	6.4%	-1.7%
% With vehicle access	93%	93%	0%	95%	96%	0.2%
% Uninsured	9.8%	6.8%	-3.0%	16.6%	12.0%	-4.5%
% No high school diploma	6.3%	6.0%	-0.3%	12.2%	11.3%	-0.9%
Poverty rate	6.7%	6.2%	-0.5%	11.8%	11.1%	-0.7%
Income per capita	\$32,999	\$39,119	\$6,120	\$22,544	\$23,961	\$1,417
% Non-Hispanic White	70%	68%	-2.0%	66.3%	65.4%	-0.9%
Ľ	Drug Availa	ıbility & Oເ	itcomes			
In Drug Trafficking Zone		N/A		No	No	0
All drug deaths per 100,000	15	14	-1	10	24	14
Opioid hospitalizations per 100,000	25	19	-6	22	14	-8
Opioid deaths per 100,000	10	9	-1	3	5	2
	Provia	ler Resourd	es			
Mental health providers per 100,000	248	293	45	242	260	18
Specialist providers ¹ per 100,000	8	9	1	2	7	5
Transm	nissible Inje	ection-Rela	ted Infed	tions		
HIV cases per 100,000	174	181	7	62	56	-6
HCV ² cases per 100,000	57	59	2	24	49	25

¹ Specialists included doctors board certified in gastroenterology, hepatology, infectious disease, or addiction medicine.

² HCV cases included all acute cases and chronic cases in persons born after 1965.

Okanogan County has certain vulnerabilities, including a higher rate of unemployment and drug-related deaths than Washington State.

While the rate of drug-related deaths declined in Washington State from 2016 to 2018, it increased in Okanogan County.



Background: Opioid use, hepatitis C (HCV), and overdose deaths are increasing in the United States and Washington State.¹⁻⁴ There is concern for rapid dissemination of HIV, HCV, and opioid overdose among people who inject drugs (PWID). Following an HIV outbreak among PWID in Scott County, Indiana in 2015,⁵ the US Centers for Disease Control and Prevention (CDC) conducted a study to identify indicator variables associated with injection drug use in order to determine which counties may be vulnerable to new or increasing rates of HIV or HCV among PWID.⁶ In 2019, Washington performed a similar analysis and added opioid overdose as an outcome since injection drug use is associated with a higher risk of overdose than non-injection use.⁷

Results: Select indicators used in the CDC and Washington State models are shown in the table, with the corresponding values for Washington State and the profiled county.

Next Steps: Indicators can be tracked on the county level to inform prevention efforts within WA, and to better understand how social determinants impact county-level health outcomes. Strategic approaches, including increased HIV and HCV testing, should be supported at the county level as needed. Future work will assess additional years of data and changes in indicators and outcomes over time.

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	V	VA State		Pacific			
Indicator	2016	2018	Change	2016	2018	Change	
	Populat	tion & Den	sity				
Population	7,183,700	7,427,570	3.4%	21,180	21,420	1.1%	
Population per square mile	108	112	4	23	23	0	
Urban-rural classification		N/A		6	6	0	
	Sociod	emograph	ics				
Unemployment rate	6.8%	5.3%	-1.5%	7.7%	6.8%	-0.9%	
% With vehicle access	93%	93%	0%	94%	94%	0.0%	
% Uninsured	9.8%	6.8%	-3.0%	11.0%	7.3%	-3.7%	
% No high school diploma	6.3%	6.0%	-0.3%	8.7%	9.2%	0.5%	
Poverty rate	6.7%	6.2%	-0.5%	12.0%	11.6%	-0.4%	
Income per capita	\$32,999	\$39,119	\$6,120	\$22,187	\$24,474	\$2,287	
% Non-Hispanic White	70%	68%	-2.0%	82.8%	82.2%	-0.6%	
L	Drug Availa	bility & Ou	itcomes				
In Drug Trafficking Zone		N/A		No	No	0	
All drug deaths per 100,000	15	14	-1	19	14	-5	
Opioid hospitalizations per 100,000	25	19	-6	5	28	23	
Opioid deaths per 100,000	10	9	-1	3	1	-2	
	Provid	er Resourc	es				
Mental health providers per 100,000	248	293	45	184	212	28	
Specialist providers ¹ per 100,000	8	9	1	0	0	0	
Transn	nissible Inje	ction-Rela	ted Infed	tions			
HIV cases per 100,000	174	181	7	127	131	3	
HCV ² cases per 100,000	57	59	2	47	131	84	

¹ Specialists included doctors board certified in gastroenterology, hepatology, infectious disease, or addiction medicine.

² HCV cases included all acute cases and chronic cases in persons born after 1965.

Pacific County has certain vulnerabilities, including a higher rate of unemployment and HCV infections than Washington State.

While the rate of opioid-related hospitalizations declined in Washington State from 2016 to 2018, it increased in Pacific County.

References: 1. CDC Opioid Overdose: Understanding the Epidemic. 2. NIDA. Washington Opioid Summary. 3. CDC. CDC Estimates Nearly 2.4 Million Americans Living with Hepatitis C. 2018 4. WA DOH. Washington State Communicable Disease Report 2017. 2017. 5. Peters PJ, et al. HIV Infection Linked to Injection Use of Oxymorphone in Indiana, 2014-2015. NEJM 2016. 6. Van Handel MM, et al. County-Level Vulnerability Assessment for Rapid Dissemination of HIV or HCV Infections Among Persons Who Inject Drugs, United States. JAIDS. 2016 7. Mathers BM, et al. Mortality among people who inject drugs: a systematic review and meta-analysis. Bulletin of the WHO. 2013. 8. Rickles M et



Background: Opioid use, hepatitis C (HCV), and overdose deaths are increasing in the United States and Washington State.¹⁻⁴ There is concern for rapid dissemination of HIV, HCV, and opioid overdose among people who inject drugs (PWID). Following an HIV outbreak among PWID in Scott County, Indiana in 2015,⁵ the US Centers for Disease Control and Prevention (CDC) conducted a study to identify indicator variables associated with injection drug use in order to determine which counties may be vulnerable to new or increasing rates of HIV or HCV among PWID.⁶ In 2019, Washington performed a similar analysis and added opioid overdose as an outcome since injection drug use is associated with a higher risk of overdose than non-injection use.⁷

Results: Select indicators used in the CDC and Washington State models are shown in the table, with the corresponding values for Washington State and the profiled county.

Next Steps: Indicators can be tracked on the county level to inform prevention efforts within WA, and to better understand how social determinants impact county-level health outcomes. Strategic approaches, including increased HIV and HCV testing, should be supported at the county level as needed. Future work will assess additional years of data and changes in indicators and outcomes over time.

PEND OREILLE COUNTY

				_		-
1. P	2016	NA State	a 1	P6		e
Indicator	2016	2018	Change	2016	2018	Change
	Popula	tion & Den	sity	1		
Population	7,183,700	7,427,570	3.4%	13,290	13,540	1.9%
Population per square mile	108	112	4	9	10	0
Urban-rural classification		N/A		3	3	0
	Socioa	lemograph	ics			
Unemployment rate	6.8%	5.3%	-1.5%	9.1%	6.0%	-3.1%
% With vehicle access	93%	93%	0%	95%	95%	0.5%
% Uninsured	9.8%	6.8%	-3.0%	10.5%	7.3%	-3.2%
% No high school diploma	6.3%	6.0%	-0.3%	7.8%	7.4%	-0.3%
Poverty rate	6.7%	6.2%	-0.5%	12.4%	10.0%	-2.4%
Income per capita	\$32,999	\$39,119	\$6,120	\$24,163	\$26,739	\$2,576
% Non-Hispanic White	70%	68%	-2.0%	89.0%	88.6%	-0.4%
	Drug Availd	ibility & Ou	tcomes			
In Drug Trafficking Zone		N/A			No	
All drug deaths per 100,000	15	14	-1	15	0	-15
Opioid hospitalizations per 100,000	25	19	-6	23	37	14
Opioid deaths per 100,000	10	9	-1	1	0	-1
	Provia	ler Resourc	es			
Mental health providers per 100,000	248	293	45	120	168	47
Specialist providers ¹ per 100,000	8	9	1	0	0	0
Transı	missible Inje	ection-Rela	ted Infec	tions		
HIV cases per 100,000	174	181	7	83	66	-16
HCV ² cases per 100,000	57	59	2	45	74	29

¹ Specialists included doctors board certified in gastroenterology, hepatology, infectious disease, or addiction medicine.

² HCV cases included all acute cases and chronic cases in persons born after 1965.

Pend Oreille County has certain vulnerabilities, including a higher rate of unemployment and HCV infections than Washington State.

While the rate of opioid-related hospitalizations declined in Washington State from 2016 to 2018, it increased in Pend Oreille County.



Background: Opioid use, hepatitis C (HCV), and overdose deaths are increasing in the United States and Washington State.¹⁻⁴ There is concern for rapid dissemination of HIV, HCV, and opioid overdose among people who inject drugs (PWID). Following an HIV outbreak among PWID in Scott County, Indiana in 2015,⁵ the US Centers for Disease Control and Prevention (CDC) conducted a study to identify indicator variables associated with injection drug use in order to determine which counties may be vulnerable to new or increasing rates of HIV or HCV among PWID.⁶ In 2019, Washington performed a similar analysis and added opioid overdose as an outcome since injection drug use is associated with a higher risk of overdose than non-injection use.⁷

Results: Select indicators used in the CDC and Washington State models are shown in the table, with the corresponding values for Washington State and the profiled county.

Next Steps: Indicators can be tracked on the county level to inform prevention efforts within WA, and to better understand how social determinants impact county-level health outcomes. Strategic approaches, including increased HIV and HCV testing, should be supported at the county level as needed. Future work will assess additional years of data and changes in indicators and outcomes over time.

PIERCE COUNTY

		WA State		Pierce			
Indicator	2016	2018	Change	2016	2018	Change	
	Populo	ition & Den	sity				
Population	7,183,700	7,427,570	3.4%	844,490	872,220	3.3%	
Population per square mile	108	112	4	506	522	17	
Urban-rural classification		N/A		2	2	0	
Sociodemographics							
Unemployment rate	6.8%	5.3%	-1.5%	7.8%	5.8%	-2.0%	
% With vehicle access	93%	93%	0%	94%	95%	0.4%	
% Uninsured	9.8%	6.8%	-3.0%	9.4%	6.5%	-2.9%	
% No high school diploma	6.3%	6.0%	-0.3%	5.9%	5.8%	-0.1%	
Poverty rate	6.7%	6.2%	-0.5%	6.8%	6.2%	-0.6%	
Income per capita	\$32,999	\$39,119	\$6,120	\$29,750	\$32,874	\$3,124	
% Non-Hispanic White	70%	68%	-2.0%	68.6%	67.3%	-1.3%	
	Drug Avail	ability & Ou	tcomes				
In Drug Trafficking Zone		N/A			Yes		
All drug deaths per 100,000	15	14	-1	18	13	-4	
Opioid hospitalizations per 100,000	25	19	-6	27	26	-1	
Opioid deaths per 100,000	10	9	-1	94	72	-22	
	Provi	der Resourc	es				
Mental health providers per 100,000	248	293	45	342	388	46	
Specialist providers ¹ per 100,000	8	9	1	5	7	1	
Trans	missible Inj	ection-Rela	ted Infec	tions			
HIV cases per 100,000	174	181	7	161	170	9	
HCV ² cases per 100,000	57	59	2	55	55	0	

¹ Specialists included doctors board certified in gastroenterology, hepatology, infectious disease, or addiction medicine.

² HCV cases included all acute cases and chronic cases in persons born after 1965.

Pierce County has certain vulnerabilities, including a higher rate of unemployment and opioid-related hospitalizations than Washington State.

The rate of drug-related deaths and opioid-related hospitalizations declined in Washington State and Pierce County from 2016 to 2018.



Background: Opioid use, hepatitis C (HCV), and overdose deaths are increasing in the United States and Washington State.¹⁻⁴ There is concern for rapid dissemination of HIV, HCV, and opioid overdose among people who inject drugs (PWID). Following an HIV outbreak among PWID in Scott County, Indiana in 2015,⁵ the US Centers for Disease Control and Prevention (CDC) conducted a study to identify indicator variables associated with injection drug use in order to determine which counties may be vulnerable to new or increasing rates of HIV or HCV among PWID.⁶ In 2019, Washington performed a similar analysis and added opioid overdose as an outcome since injection drug use is associated with a higher risk of overdose than non-injection use.⁷

Results: Select indicators used in the CDC and Washington State models are shown in the table, with the corresponding values for Washington State and the profiled county.

Next Steps: Indicators can be tracked on the county level to inform prevention efforts within WA, and to better understand how social determinants impact county-level health outcomes. Strategic approaches, including increased HIV and HCV testing, should be supported at the county level as needed. Future work will assess additional years of data and changes in indicators and outcomes over time.

SAN JUAN COUNTY

		WA State		San Juan		
Indicator	2016	2018	Change	2016	2018	Change
	Popula	tion & Den	sity			
Population	7,183,700	7,427,570	3.4%	16,320	16,810	3%
Population per square mile	108	112	4	94	97	3
Urban-rural classification		N/A		6	6	0
	Socioo	demograph	ics			
Unemployment rate	6.8%	5.3%	-1.5%	5.1%	3.0%	-2.1%
% With vehicle access	93%	93%	0%	96%	96%	0.2%
% Uninsured	9.8%	6.8%	-3.0%	10.8%	6.9%	-3.8%
% No high school diploma	6.3%	6.0%	-0.3%	3.7%	3.2%	-0.5%
Poverty rate	6.7%	6.2%	-0.5%	7.1%	8.1%	1.0%
Income per capita	\$32,999	\$39,119	\$6,120	\$40 <i>,</i> 327	\$42 <i>,</i> 307	\$1,980
% Non-Hispanic White	70%	68%	-2.0%	89.1%	88.7%	-0.4%
	Drug Availe	ability & Ou	ıtcomes			
In Drug Trafficking Zone		N/A			Yes	
All drug deaths per 100,000	15	14	-1	25	18	-7
Opioid hospitalizations per 100,000	25	19	-6	12	12	0
Opioid deaths per 100,000	10	9	-1	2	3	1
	Provid	der Resourc	es			
Mental health providers per 100,000	248	293	45	337	386	49
Specialist providers ¹ per 100,000	8	9	1	6	0	-6
Transr	nissible Inj	ection-Rela	ted Infed	tions		
HIV cases per 100,000	174	181	7	135	131	-4
HCV ² cases per 100,000	57	59	2	25	24	-1

¹ Specialists included doctors board certified in gastroenterology, hepatology, infectious disease, or addiction medicine.

² HCV cases included all acute cases and chronic cases in persons born after 1965.

San Juan County has certain vulnerabilities, including a higher rate of poverty and drug-related deaths than Washington State.

The rate of drug-related deaths declined in Washington State and San Juan County from 2016 to 2018.



Background: Opioid use, hepatitis C (HCV), and overdose deaths are increasing in the United States and Washington State.¹⁻⁴ There is concern for rapid dissemination of HIV, HCV, and opioid overdose among people who inject drugs (PWID). Following an HIV outbreak among PWID in Scott County, Indiana in 2015,⁵ the US Centers for Disease Control and Prevention (CDC) conducted a study to identify indicator variables associated with injection drug use in order to determine which counties may be vulnerable to new or increasing rates of HIV or HCV among PWID.⁶ In 2019, Washington performed a similar analysis and added opioid overdose as an outcome since injection drug use is associated with a higher risk of overdose than non-injection use.⁷

Results: Select indicators used in the CDC and Washington State models are shown in the table, with the corresponding values for Washington State and the profiled county.

Next Steps: Indicators can be tracked on the county level to inform prevention efforts within WA, and to better understand how social determinants impact county-level health outcomes. Strategic approaches, including increased HIV and HCV testing, should be supported at the county level as needed. Future work will assess additional years of data and changes in indicators and outcomes over time.

CVA	CIT	COI	INIT
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	<u> </u>	WA State			Skagit	
Indicator	2016	2018	Change	2016	2018	Change
	Popula	tion & Den	sity			
Population	7,183,700	7,427,570	3.4%	122,270	126,520	3.5%
Population per square mile	108	112	4	71	73	2
Urban-rural classification		N/A		4	4	0
	Socioa	lemograph	ics			
Unemployment rate	6.8%	5.3%	-1.5%	7.2%	5.8%	-1.4%
% With vehicle access	93%	93%	0%	95%	95%	0.1%
% Uninsured	9.8%	6.8%	-3.0%	10.9%	7.4%	-3.5%
% No high school diploma	6.3%	6.0%	-0.3%	7.6%	7.1%	-0.5%
Poverty rate	6.7%	6.2%	-0.5%	8.1%	7.2%	-0.9%
Income per capita	\$32,999	\$39,119	\$6,120	\$28,586	\$31,822	\$3,236
% Non-Hispanic White	70%	68%	-2.0%	75.5%	74.6%	-0.9%
Ľ	Drug Availa	ibility & Ou	itcomes			
In Drug Trafficking Zone		N/A			Yes	
All drug deaths per 100,000	15	14	-1	17	15	-2
Opioid hospitalizations per 100,000	25	19	-6	16	19	3
Opioid deaths per 100,000	10	9	-1	11	14	3
	Provid	ler Resourc	es			
Mental health providers per 100,000	248	293	45	262	348	86
Specialist providers ¹ per 100,000	8	9	1	10	9	-1
Transm	nissible Inje	ection-Rela	ted Infed	ctions		
HIV cases per 100,000	174	181	7	76	74	-2
HCV ² cases per 100,000	57	59	2	51	86	35

¹ Specialists included doctors board certified in gastroenterology, hepatology, infectious disease, or addiction medicine.

² HCV cases included all acute cases and chronic cases in persons born after 1965.

Skagit County has certain vulnerabilities, including a higher rate of unemployment and opioid-related deaths than Washington State.

While the rate of opioid-related deaths declined in Washington from 2016 to 2018, it increased in Skagit County.



Background: Opioid use, hepatitis C (HCV), and overdose deaths are increasing in the United States and Washington State.¹⁻⁴ There is concern for rapid dissemination of HIV, HCV, and opioid overdose among people who inject drugs (PWID). Following an HIV outbreak among PWID in Scott County, Indiana in 2015,⁵ the US Centers for Disease Control and Prevention (CDC) conducted a study to identify indicator variables associated with injection drug use in order to determine which counties may be vulnerable to new or increasing rates of HIV or HCV among PWID.⁶ In 2019, Washington performed a similar analysis and added opioid overdose as an outcome since injection drug use is associated with a higher risk of overdose than non-injection use.⁷

Results: Select indicators used in the CDC and Washington State models are shown in the table, with the corresponding values for Washington State and the profiled county.

Next Steps: Indicators can be tracked on the county level to inform prevention efforts within WA, and to better understand how social determinants impact county-level health outcomes. Strategic approaches, including increased HIV and HCV testing, should be supported at the county level as needed. Future work will assess additional years of data and changes in indicators and outcomes over time.

SKAMANIA COUNTY

	V	VA State		S	kamania	
Indicator	2016	2018	Change	2016	2018	Change
	Populat	ion & Dens	sity			
Population	7,183,700	7,427,570	3.4%	11,500	11,890	3.4%
Population per square mile	108	112	4	7	7	0
Urban-rural classification		N/A		2	2	0
	Sociod	emographi	ics			
Unemployment rate	6.8%	5.3%	-1.5%	7.7%	4.8%	-2.9%
% With vehicle access	93%	93%	0%	94%	94%	0.4%
% Uninsured	9.8%	6.8%	-3.0%	9.4%	4.6%	-4.8%
% No high school diploma	6.3%	6.0%	-0.3%	6.8%	6.2%	-0.5%
Poverty rate	6.7%	6.2%	-0.5%	8.8%	7.8%	-1.0%
Income per capita	\$32,999	\$39,119	\$6,120	\$28 <i>,</i> 556	\$30,217	\$1,661
% Non-Hispanic White	70%	68%	-2.0%	88.3%	87.9%	-0.4%
L	Drug Availa	bility & Ou	tcomes			
In Drug Trafficking Zone		N/A			No	
All drug deaths per 100,000	15	14	-1	9	0	-9
Opioid hospitalizations per 100,000	25	19	-6	9	8	-1
Opioid deaths per 100,000	10	9	-1	0	0	0
	Provid	er Resourc	es			
Mental health providers per 100,000	248	293	45	113	122	9
Specialist providers ¹ per 100,000	8	9	1	0	0	0
Transn	nissible Inje	ction-Rela	ted Infec	tions		
HIV cases per 100,000	174	181	7	52	59	7
HCV ² cases per 100,000	57	59	2	9	67	59

¹ Specialists included doctors board certified in gastroenterology, hepatology, infectious disease, or addiction medicine.

² HCV cases included all acute cases and chronic cases in persons born after 1965.

Skamania County has certain vulnerabilities, including a higher rate of unemployment and opioid-related deaths than Washington State.

While the rate of opioid-related deaths declined in Washington from 2016 to 2018, it increased in Skamania County.



Background: Opioid use, hepatitis C (HCV), and overdose deaths are increasing in the United States and Washington State.¹⁻⁴ There is concern for rapid dissemination of HIV, HCV, and opioid overdose among people who inject drugs (PWID). Following an HIV outbreak among PWID in Scott County, Indiana in 2015,⁵ the US Centers for Disease Control and Prevention (CDC) conducted a study to identify indicator variables associated with injection drug use in order to determine which counties may be vulnerable to new or increasing rates of HIV or HCV among PWID.⁶ In 2019, Washington performed a similar analysis and added opioid overdose as an outcome since injection drug use is associated with a higher risk of overdose than non-injection use.⁷

Results: Select indicators used in the CDC and Washington State models are shown in the table, with the corresponding values for Washington State and the profiled county.

Next Steps: Indicators can be tracked on the county level to inform prevention efforts within WA, and to better understand how social determinants impact county-level health outcomes. Strategic approaches, including increased HIV and HCV testing, should be supported at the county level as needed. Future work will assess additional years of data and changes in indicators and outcomes over time.

SNOHOMISH COUNTY

	١	NA State		Snohomish		
Indicator	2016	2018	Change	2016	2018	Change
	Populat	ion & Dens	itv			8-
Population	7,183,700	7,427,570	3.4%	772,860	805,120	4.2%
Population per square mile	108	112	4	370	386	15
Urban-rural classification		N/A		2	2	0
	Sociod	emographi	cs			
Unemployment rate	6.8%	5.3%	-1.5%	6.2%	4.6%	-1.6%
% With vehicle access	93%	93%	0%	95%	95%	0.2%
% Uninsured	9.8%	6.8%	-3.0%	9.0%	6.2%	-2.8%
% No high school diploma	6.3%	6.0%	-0.3%	5.5%	5.2%	-0.3%
Poverty rate	6.7%	6.2%	-0.5%	5.2%	4.7%	-0.5%
Income per capita	\$32 <i>,</i> 999	\$39,119	\$6,120	\$33 <i>,</i> 883	\$37,671	\$3,788
% Non-Hispanic White	70%	68%	-2.0%	72.0%	70.3%	-1.7%
	Drug Availa	bility & Out	comes			
In Drug Trafficking Zone		N/A			Yes	
All drug deaths per 100,000	15	14	-1	15	20	5
Opioid hospitalizations per 100,000	25	19	-6	30	20	-10
Opioid deaths per 100,000	10	9	-1	90	124	34
	Provid	er Resource	es			
Mental health providers per 100,000	248	293	45	226	286	60
Specialist providers ¹ per 100,000	8	9	1	4	5	1
Transr	nissible Inje	ction-Relat	ed Infec	tions		
HIV cases per 100,000	174	181	7	132	142	10
HCV ² cases per 100,000	57	59	2	54	56	1

¹ Specialists included doctors board certified in gastroenterology, hepatology, infectious disease, or addiction medicine.

² HCV cases included all acute cases and chronic cases in persons born after 1965.

Snohomish County has certain vulnerabilities, including a higher rate of opioid-related hospitalizations and deaths than Washington State.

While the rate of opioid-related deaths declined in Washington from 2016 to 2018, it increased in Snohomish County.

SPOKANE COUNTY



Background: Opioid use, hepatitis C (HCV), and overdose deaths are increasing in the United States and Washington State.¹⁻⁴ There is concern for rapid dissemination of HIV, HCV, and opioid overdose among people who inject drugs (PWID). Following an HIV outbreak among PWID in Scott County, Indiana in 2015,⁵ the US Centers for Disease Control and Prevention (CDC) conducted a study to identify indicator variables associated with injection drug use in order to determine which counties may be vulnerable to new or increasing rates of HIV or HCV among PWID.⁶ In 2019, Washington performed a similar analysis and added opioid overdose as an outcome since injection drug use is associated with a higher risk of overdose than non-injection use.⁷

Results: Select indicators used in the CDC and Washington State models are shown in the table, with the corresponding values for Washington State and the profiled county.

Next Steps: Indicators can be tracked on the county level to inform prevention efforts within WA, and to better understand how social determinants impact county-level health outcomes. Strategic approaches, including increased HIV and HCV testing, should be supported at the county level as needed. Future work will assess additional years of data and changes in indicators and outcomes over time.

	١	WA State		Spokane		
Indicator	2016	2018	Change	2016	2018	Change
	Popula	ition & Den	sity			
Population	7,183,700	7,427,570	3.4%	492 <i>,</i> 530	507,950	3.1%
Population per square mile	108	112	4	279	288	9
Urban-rural classification		N/A		3	3	0
	Socio	demograph	ics			
Unemployment rate	6.8%	5.3%	-1.5%	7.2%	5.6%	-1.6%
% With vehicle access	93%	93%	0%	92%	93%	0.3%
% Uninsured	9.8%	6.8%	-3.0%	8.8%	5.4%	-3.3%
% No high school diploma	6.3%	6.0%	-0.3%	4.6%	4.2%	-0.4%
Poverty rate	6.7%	6.2%	-0.5%	7.9%	7.6%	-0.4%
Income per capita	\$32,999	\$39,119	\$6,120	\$26,860	\$29,982	\$3,122
% Non-Hispanic White	70%	68%	-2.0%	85.6%	84.9%	-0.7%
	Drug Avail	ability & O	utcomes			
In Drug Trafficking Zone		N/A			Yes	
All drug deaths per 100,000	15	14	-1	23	12	-10
Opioid hospitalizations per 100,000	25	19	-6	37	22	-15
Opioid deaths per 100,000	10	9	-1	57	29	-28
	Provi	der Resour	ces			
Mental health providers per 100,000	248	293	45	219	270	51
Specialist providers ¹ per 100,000	8	9	1	6	7	1
Transı	missible Inj	ection-Rela	ted Infe	ctions		
HIV cases per 100,000	174	181	7	119	128	10
HCV ² cases per 100,000	57	59	2	96	109	13

¹ Specialists included doctors board certified in gastroenterology, hepatology, infectious disease, or addiction medicine.

² HCV cases included all acute cases and chronic cases in persons born after 1965.

Spokane County has certain vulnerabilities, including a higher rate of opioid-related hospitalizations and deaths than Washington State.

The rate of opioid-related hospitalizations and deaths declined in Washington and Spokane County from 2016 to 2018.





Background: Opioid use, hepatitis C (HCV), and overdose deaths are increasing in the United States and Washington State.¹⁻⁴ There is concern for rapid dissemination of HIV, HCV, and opioid overdose among people who inject drugs (PWID). Following an HIV outbreak among PWID in Scott County, Indiana in 2015,⁵ the US Centers for Disease Control and Prevention (CDC) conducted a study to identify indicator variables associated with injection drug use in order to determine which counties may be vulnerable to new or increasing rates of HIV or HCV among PWID.⁶ In 2019, Washington performed a similar analysis and added opioid overdose as an outcome since injection drug use is associated with a higher risk of overdose than noninjection use.⁷

Results: Select indicators used in the CDC and Washington State models are shown in the table, with the corresponding values for Washington State and the profiled county.

Next Steps: Indicators can be tracked on the county level to inform prevention efforts within WA, and to better understand how social determinants impact county-level health outcomes. Strategic approaches, including increased HIV and HCV testing, should be supported at the county level as needed. Future work will assess additional years of data and changes in indicators and outcomes over time.

	V	VA State		Stevens		
Indicator	2016	2018	Change	2016	2018	Change
	Populat	ion & Den	sity			
Population	7,183,700	7,427,57	3.4%	44,100	45,030	2.1%
		0				
Population per square mile	108	112	4	18	18	0
Urban-rural classification		N/A		3	3	0
	Sociod	emograph	ics			
Unemployment rate	6.8%	5.3%	-1.5%	8.9%	6.7%	-2.2%
% With vehicle access	93%	93%	0%	96%	96%	-0.1%
% Uninsured	9.8%	6.8%	-3.0%	10.2%	7.4%	-2.8%
% No high school diploma	6.3%	6.0%	-0.3%	7.1%	6.6%	-0.5%
Poverty rate	6.7%	6.2%	-0.5%	9.8%	9.6%	-0.3%
Income per capita	\$32,999	\$39,119	\$6,120	\$22,745	\$25,197	\$2,452
% Non-Hispanic White	70%	68%	-2.0%	87.1%	86.7%	-0.4%
Ľ	Drug Availa	bility & Oı	ıtcomes			
In Drug Trafficking Zone		N/A			No	
All drug deaths per 100,000	15	14	-1	23	9	-14
Opioid hospitalizations per 100,000	25	19	-6	32	18	-14
Opioid deaths per 100,000	10	9	-1	6	2	-4
	Provid	er Resourc	es			
Mental health providers per 100,000	248	293	45	234	277	43
Specialist providers ¹ per 100,000	8	9	1	2	0	-2
Transm	nissible Inje	ction-Rela	ted Infec	tions		
HIV cases per 100,000	174	181	7	50	60	10
HCV^2 cases per 100 000	57	59	2	43	64	21

¹ Specialists included doctors board certified in gastroenterology, hepatology, infectious disease, or addiction medicine.

² HCV cases included all acute cases and chronic cases in persons born after 1965.

Stevens County has certain vulnerabilities, including a higher rate of unemployment and HCV infections than Washington State.

The rate of opioid-related hospitalizations and deaths declined in Washington and Stevens County from 2016 to 2018.



Background: Opioid use, hepatitis C (HCV), and overdose deaths are increasing in the United States and Washington State.¹⁻⁴ There is concern for rapid dissemination of HIV, HCV, and opioid overdose among people who inject drugs (PWID). Following an HIV outbreak among PWID in Scott County, Indiana in 2015,⁵ the US Centers for Disease Control and Prevention (CDC) conducted a study to identify indicator variables associated with injection drug use in order to determine which counties may be vulnerable to new or increasing rates of HIV or HCV among PWID.⁶ In 2019, Washington performed a similar analysis and added opioid overdose as an outcome since injection drug use is associated with a higher risk of overdose than non-injection use.⁷

Results: Select indicators used in the CDC and Washington State models are shown in the table, with the corresponding values for Washington State and the profiled county.

Next Steps: Indicators can be tracked on the county level to inform prevention efforts within WA, and to better understand how social determinants impact county-level health outcomes. Strategic approaches, including increased HIV and HCV testing, should be supported at the county level as needed. Future work will assess additional years of data and changes in indicators and outcomes over time.

THURSTON COUNTY

	_			-	_	
	۱	NA State		-	Thurston	
Indicator	2016	2018	Change	2016	2018	Change
	Popula	tion & Den	sity			
Population	7,183,700	7,427,570	3.4%	272,690	281,700	3.3%
Population per square mile	108	112	4	378	390	12
Urban-rural classification		N/A		3	3	0
	Socioa	lemograph	ics			
Unemployment rate	6.8%	5.3%	-1.5%	8.4%	6.9%	-1.5%
% With vehicle access	93%	93%	0%	95%	95%	0.4%
% Uninsured	9.8%	6.8%	-3.0%	8.3%	5.3%	-3.0%
% No high school diploma	6.3%	6.0%	-0.3%	4.3%	4.1%	-0.3%
Poverty rate	6.7%	6.2%	-0.5%	6.7%	6.3%	-0.4%
Income per capita	\$32,999	\$39,119	\$6,120	\$30,583	\$33,901	\$3,318
% Non-Hispanic White	70%	68%	-2.0%	76.4%	75.4%	-1.0%
Ĺ	Drug Availa	ıbility & Oı	utcomes			
In Drug Trafficking Zone		N/A			Yes	
All drug deaths per 100,000	15	14	-1	10	10	0
Opioid hospitalizations per 100,000	25	19	-6	22	19	-3
Opioid deaths per 100,000	10	9	-1	14	20	6
	Provia	ler Resourd	ces			
Mental health providers per 100,000	248	293	45	176	231	55
Specialist providers ¹ per 100,000	8	9	1	8	9	0
Transn	nissible Inje	ection-Rela	ited Infe	ctions		
HIV cases per 100,000	174	181	7	100	113	12
HCV ² cases per 100,000	57	59	2	52	47	-4

¹ Specialists included doctors board certified in gastroenterology, hepatology, infectious disease, or addiction medicine.

² HCV cases included all acute cases and chronic cases in persons born after 1965.

Thurston County has certain vulnerabilities, including a higher rate of unemployment and opioid-related hospitalizations than Washington State.

The rate of opioid-related hospitalizations declined in Washington and Thurston County from 2016 to 2018.



Background: Opioid use, hepatitis C (HCV), and overdose deaths are increasing in the United States and Washington State.¹⁻⁴ There is concern for rapid dissemination of HIV, HCV, and opioid overdose among people who inject drugs (PWID). Following an HIV outbreak among PWID in Scott County, Indiana in 2015,⁵ the US Centers for Disease Control and Prevention (CDC) conducted a study to identify indicator variables associated with injection drug use in order to determine which counties may be vulnerable to new or increasing rates of HIV or HCV among PWID.⁶ In 2019, Washington performed a similar analysis and added opioid overdose as an outcome since injection drug use is associated with a higher risk of overdose than noninjection use.⁷

Results: Select indicators used in the CDC and Washington State models are shown in the table, with the corresponding values for Washington State and the profiled county.

Next Steps: Indicators can be tracked on the county level to inform prevention efforts within WA, and to better understand how social determinants impact county-level health outcomes. Strategic approaches, including increased HIV and HCV testing, should be supported at the county level as needed. Future work will assess additional years of data and changes in indicators and outcomes over time.

WAHKIAKUM COUNTY

١	Wahkiakum								
2016	2018	Change	2016	2018	Change				
Population & Density									
7,183,700	7,427,570	3.4%	4,000	4,100	2.5%				
108	112	4	15	16	0				
	N/A		6	6	0				
Sociodemographics									
6.8%	5.3%	-1.5%	7.0%	5.3%	-1.7%				
93%	93%	0%	96%	99%	2.7%				
9.8%	6.8%	-3.0%	8.3%	7.2%	-1.1%				
6.3%	6.0%	-0.3%	5.3%	6.9%	1.6%				
6.7%	6.2%	-0.5%	10.2%	5.8%	-4.4%				
\$32,999	\$39,119	\$6,120	\$27 <i>,</i> 619	\$29,452	\$1,833				
70%	68%	-2.0%	89.7%	87.2%	-2.5%				
Drug Availa	ability & Ou	ıtcomes							
	N/A			No					
15	14	-1	0	49	49				
25	19	-6	0	0	0				
10	9	-1	0	1	1				
Provid	der Resourc	es							
248	293	45	300	266	-34				
8	9	1	0	0	0				
nissible Inj	ection-Rela	ted Infed	tions						
174	181	7	100	98	-2				
57	59	2	0	49	49				
	2016 Popula 7,183,700 108 Socioc 6.8% 93% 9.8% 6.3% 6.3% 6.3% 6.3% 6.7% \$32,999 70% Drug Availa 15 25 10 Provia 248 8 missible Inji 174 57	WA State 2016 2018 Popul=ton & Dem 7,183,700 7,427,570 108 112 N/A N/A Socio=mograph 6.8% 5.3% 93% 93% 9.8% 6.8% 6.3% 6.0% 6.3% 6.0% 6.3% 6.0% 6.3% 6.2% 93% 9.3% 9.8% 6.8% 6.3% 6.0% 6.3% 6.1% 70% 6.8% Drug Avail 112 70% 59 15 14 25 19 10 9 Provier Resource 248 293 8 9 missible Injection-Relation 174 181 57 59	VA State 2016 2018 Change Popul/Constant 3.4% 108 112 4 108 112 4 N/A XA 4 Socio/Constant 4 5 6.8% 5.3% -1.5% 93% 93% 0% 93% 6.8% -3.0% 6.3% 6.0% -0.5% 6.3% 6.2% -0.5% 6.3% 6.0% -0.5% 6.3% 6.12% -0.5% 6.3% 6.2% -0.5% 532,999 \$39,119 \$6,120 70% 68% -2.0% 70% 68% -2.0% 715 14 -1 15 14 -1 15 14 -1 25 19 -6 10 9 -1 248 293 45 8 9 1	WA State W 2016 2018 Change 2016 Population & Density 7,183,700 7,427,570 3.4% 4,000 108 112 4 15 108 112 4 15 5.00 MA 6 5 6.8% 5.3% -1.5% 7.0% 93% 93% 0% 96% 93% 6.8% -3.0% 8.3% 6.3% 6.0% -0.3% 5.3% 6.3% 6.0% -0.3% 5.3% 6.3% 6.2% -0.5% 10.2% 532,999 \$39,119 \$6,120 \$27,619 70% 68% -2.0% 89.7% 70% 68% -2.0% 89.7% 70% 14 -1 0 25 19 -6 0 10 9 -1 0 248 293 45 300	VA StateWater20162018Change20162018Population & Descent7,183,7007,427,5703.4%4,0004,10010811241516N/A66SocioerographiceSocioerographice6.8%5.3%7.0%5.3%93%0%96%99%93%0%96%99%6.8%-3.0%8.3%7.2%6.3%6.0%-0.3%5.3%6.9%6.3%6.0%-0.3%5.3%6.9%6.3%6.0%-0.3%5.3%6.9%6.3%6.2%-0.5%10.2%5.8%6.3%6.2%20.089.7%87.2%70%68%-2.0%89.7%87.2%70%5.3%10.2%5.8%300491514-10492519-600109-101Proverererererererererererererererererere				

¹ Specialists included doctors board certified in gastroenterology, hepatology, infectious disease, or addiction medicine.

² HCV cases included all acute cases and chronic cases in persons born after 1965.

Wahkiakum County has certain vulnerabilities, including a higher rate of drug deaths than Washington State.

While drug deaths declined in Washington State from 2016 to 2018, they increased in Wahkiakum County.



Background: Opioid use, hepatitis C (HCV), and overdose deaths are increasing in the United States and Washington State.¹⁻⁴ There is concern for rapid dissemination of HIV, HCV, and opioid overdose among people who inject drugs (PWID). Following an HIV outbreak among PWID in Scott County, Indiana in 2015,⁵ the US Centers for Disease Control and Prevention (CDC) conducted a study to identify indicator variables associated with injection drug use in order to determine which counties may be vulnerable to new or increasing rates of HIV or HCV among PWID.⁶ In 2019, Washington performed a similar analysis and added opioid overdose as an outcome since injection drug use is associated with a higher risk of overdose than non-injection use.⁷

Results: Select indicators used in the CDC and Washington State models are shown in the table, with the corresponding values for Washington State and the profiled county.

Next Steps: Indicators can be tracked on the county level to inform prevention efforts within WA, and to better understand how social determinants impact county-level health outcomes. Strategic approaches, including increased HIV and HCV testing, should be supported at the county level as needed. Future work will assess additional years of data and changes in indicators and outcomes over time.

WALLA WALLA COUNTY

W/A State					Walla Walla				
Indicator	2016 2019 Change			2016 2019 Chan					
Indicator	2010 Dopula	2010	change	2010	2010	Change			
Fopulation Z 192 700 Z 427 570 2 49/ C0 720 C1 900 1 90									
Population	7,183,700	7,427,570	3.4%	60,730	61,800	1.8%			
Population per square mile	108	112	4	48	49	1			
Urban-rural classification		N/A		4	4	0			
Sociodemographics									
Unemployment rate	6.8%	5.3%	-1.5%	6.4%	5.2%	-1.2%			
% With vehicle access	93%	93%	0%	92%	93%	0.9%			
% Uninsured	9.8%	6.8%	-3.0%	10.1%	7.4%	-2.7%			
% No high school diploma	6.3%	6.0%	-0.3%	7.3%	7.8%	0.5%			
Poverty rate	6.7%	6.2%	-0.5%	6.9%	6.0%	-0.9%			
Income per capita	\$32,999	\$39,119	\$6,120	\$24,736	\$27 <i>,</i> 835	\$3,099			
% Non-Hispanic White	70%	68%	-2.0%	72.6%	71.9%	-0.7%			
Ĺ	Drug Availa	ıbility & Ou	tcomes						
In Drug Trafficking Zone		N/A			No				
All drug deaths per 100,000	15	14	-1	15	18	3			
Opioid hospitalizations per 100,000	25	19	-6	25	18	-7			
Opioid deaths per 100,000	10	9	-1	5	5	0			
	Provia	ler Resourc	es						
Mental health providers per 100,000	248	293	45	214	225	11			
Specialist providers ¹ per 100,000	8	9	1	3	6	3			
Transn	nissible Inje	ection-Rela	ted Infec	tions					
HIV cases per 100,000	174	181	7	84	89	5			
HCV ² cases per 100,000	57	59	2	16	87	71			

¹ Specialists included doctors board certified in gastroenterology, hepatology, infectious disease, or addiction medicine.

² HCV cases included all acute cases and chronic cases in persons born after 1965.

Walla Walla County has certain vulnerabilities, including a higher rate of drug deaths and HCV infections than Washington State.

While drug deaths declined in Washington State from 2016 to 2018, they increased in Walla Walla County.



Background: Opioid use, hepatitis C (HCV), and overdose deaths are increasing in the United States and Washington State.¹⁻⁴ There is concern for rapid dissemination of HIV, HCV, and opioid overdose among people who inject drugs (PWID). Following an HIV outbreak among PWID in Scott County, Indiana in 2015,⁵ the US Centers for Disease Control and Prevention (CDC) conducted a study to identify indicator variables associated with injection drug use in order to determine which counties may be vulnerable to new or increasing rates of HIV or HCV among PWID.⁶ In 2019, Washington performed a similar analysis and added opioid overdose as an outcome since injection drug use is associated with a higher risk of overdose than non-injection use.⁷

Results: Select indicators used in the CDC and Washington State models are shown in the table, with the corresponding values for Washington State and the profiled county.

Next Steps: Indicators can be tracked on the county level to inform prevention efforts within WA, and to better understand how social determinants impact county-level health outcomes. Strategic approaches, including increased HIV and HCV testing, should be supported at the county level as needed. Future work will assess additional years of data and changes in indicators and outcomes over time.

WHATCOM COUNTY

	١	WA State			Whatcom				
Indicator	2016	2018	Change	2016	2018	Change			
Population & Density									
Population	7,183,700	7,427,570	3.4%	212,540	220,350	3.7%			
Population per square mile	108	112	4	101	105	4			
Urban-rural classification		N/A		4	4	0			
Sociodemographics									
Unemployment rate	6.8%	5.3%	-1.5%	7.7%	6.3%	-1.4%			
% With vehicle access	93%	93%	0%	93%	93%	0.2%			
% Uninsured	9.8%	6.8%	-3.0%	9.7%	6.3%	-3.3%			
% No high school diploma	6.3%	6.0%	-0.3%	5.6%	5.0%	-0.6%			
Poverty rate	6.7%	6.2%	-0.5%	7.6%	6.9%	-0.6%			
Income per capita	\$32 <i>,</i> 999	\$39,119	\$6,120	\$27,810	\$30,586	\$2,776			
% Non-Hispanic White	70%	68%	-2.0%	80.1%	79.3%	-0.8%			
L	Drug Availa	ability & O	utcomes						
In Drug Trafficking Zone		N/A			Yes				
All drug deaths per 100,000	15	14	-1	6	3	-3			
Opioid hospitalizations per 100,000	25	19	-6	20	10	-10			
Opioid deaths per 100,000	10	9	-1	11	4	-7			
	Provid	ler Resour	ces						
Mental health providers per 100,000	248	293	45	351	404	54			
Specialist providers ¹ per 100,000	8	9	1	8	8	0			
Transn	Transmissible Injection-Related Infections								
HIV cases per 100,000	174	181	7	83	107	24			
HCV ² cases per 100,000	57	59	2	79	65	-14			

¹ Specialists included doctors board certified in gastroenterology, hepatology, infectious disease, or addiction medicine.

² HCV cases included all acute cases and chronic cases in persons born after 1965.

Whatcom County has certain vulnerabilities, including a higher rate of opioid-related hospitalizations and HCV infections than Washington State.

Drug deaths declined in Washington State and Whatcom County from 2016 to 2018.



Background: Opioid use, hepatitis C (HCV), and overdose deaths are increasing in the United States and Washington State.¹⁻⁴ There is concern for rapid dissemination of HIV, HCV, and opioid overdose among people who inject drugs (PWID). Following an HIV outbreak among PWID in Scott County, Indiana in 2015,⁵ the US Centers for Disease Control and Prevention (CDC) conducted a study to identify indicator variables associated with injection drug use in order to determine which counties may be vulnerable to new or increasing rates of HIV or HCV among PWID.⁶ In 2019, Washington performed a similar analysis and added opioid overdose as an outcome since injection drug use is associated with a higher risk of overdose than non-injection use.⁷

Results: Select indicators used in the CDC and Washington State models are shown in the table, with the corresponding values for Washington State and the profiled county.

Next Steps: Indicators can be tracked on the county level to inform prevention efforts within WA, and to better understand how social determinants impact county-level health outcomes. Strategic approaches, including increased HIV and HCV testing, should be supported at the county level as needed. Future work will assess additional years of data and changes in indicators and outcomes over time.

WHITMAN COUNTY

	WA State			Whitman					
Indicator	2016	2018	Change	2016	2018	Change			
Population & Density									
Population	7,183,700	7,427,570	3.4%	47,940	49,210	2.6%			
Population per square mile	108	112	4	22	23	1			
Urban-rural classification		N/A		5	5	0			
Sociodemographics									
Unemployment rate	6.8%	5.3%	-1.5%	8.9%	9.0%	0.1%			
% With vehicle access	93%	93%	0%	92%	92%	-0.4%			
% Uninsured	9.8%	6.8%	-3.0%	7.2%	4.3%	-3.0%			
% No high school diploma	6.3%	6.0%	-0.3%	2.0%	2.3%	0.3%			
Poverty rate	6.7%	6.2%	-0.5%	6.6%	6.1%	-0.6%			
Income per capita	\$32,999	\$39,119	\$6,120	\$20,957	\$22,585	\$1,628			
% Non-Hispanic White	70%	68%	-2.0%	79.8%	78.9%	-0.9%			
	Drug Avail	ability & C	utcomes	;	-	-			
In Drug Trafficking Zone		N/A			No				
All drug deaths per 100,000	15	14	-1	8	6	-2			
Opioid hospitalizations per 100,000	25	19	-6	10	4	-6			
Opioid deaths per 100,000	10	9	-1	2	2	0			
	Provi	der Resoui	rces						
Mental health providers per 100,000	248	293	45	134	145	12			
Specialist providers ¹ per 100,000	8	9	1	0	2	2			
Trans	missible In	jection-Rel	ated Infe	ections					
HIV cases per 100,000	174	181	7	44	49	5			
HCV ² cases per 100,000	57	59	2	0	28	28			

¹ Specialists included doctors board certified in gastroenterology, hepatology, infectious disease, or addiction medicine.

² HCV cases included all acute cases and chronic cases in persons born after 1965.

Whitman County has certain vulnerabilities, including a higher rate unemployment than Washington State.

Drug deaths declined in Washington State and Whitman County from 2016 to 2018.



Background: Opioid use, hepatitis C (HCV), and overdose deaths are increasing in the United States and Washington State.¹⁻⁴ There is concern for rapid dissemination of HIV, HCV, and opioid overdose among people who inject drugs (PWID). Following an HIV outbreak among PWID in Scott County, Indiana in 2015,⁵ the US Centers for Disease Control and Prevention (CDC) conducted a study to identify indicator variables associated with injection drug use in order to determine which counties may be vulnerable to new or increasing rates of HIV or HCV among PWID.⁶ In 2019, Washington performed a similar analysis and added opioid overdose as an outcome since injection drug use is associated with a higher risk of overdose than non-injection use.⁷

Results: Select indicators used in the CDC and Washington State models are shown in the table, with the corresponding values for Washington State and the profiled county.

Next Steps: Indicators can be tracked on the county level to inform prevention efforts within WA, and to better understand how social determinants impact county-level health outcomes. Strategic approaches, including increased HIV and HCV testing, should be supported at the county level as needed. Future work will assess additional years of data and changes in indicators and outcomes over time.

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W/A State				Vakima					
	WA State			такіта					
Indicator	2016	2018	Change	2016	2018	Change			
Population & Density									
Population	7,183,700	7,427,570	3.4%	250,900	254,500	1.4%			
Population per square mile	108	112	4	58	59	1			
Urban-rural classification		N/A		4	4	0			
Sociodemographics									
Unemployment rate	6.8%	5.3%	-1.5%	8.3%	6.6%	-1.7%			
% With vehicle access	93%	93%	0%	95%	95%	0.0%			
% Uninsured	9.8%	6.8%	-3.0%	17.9%	13.1%	-4.8%			
% No high school diploma	6.3%	6.0%	-0.3%	16.3%	15.9%	-0.4%			
Poverty rate	6.7%	6.2%	-0.5%	8.9%	8.0%	-0.9%			
Income per capita	\$32,999	\$39,119	\$6,120	\$20,653	\$22,459	\$1,806			
% Non-Hispanic White	70%	68%	-2.0%	45.0%	43.7%	-1.3%			
Ĺ	Drug Availa	bility & Ou	tcomes						
In Drug Trafficking Zone		N/A			Yes				
All drug deaths per 100,000	15	14	-1	10	15	5			
Opioid hospitalizations per 100,000	25	19	-6	27	31	4			
Opioid deaths per 100,000	10	9	-1	15	26	11			
	Provid	ler Resourc	es						
Mental health providers per 100,000	248	293	45	217	251	34			
Specialist providers ¹ per 100,000	8	9	1	6	7	1			
Transmissible Injection-Related Infections									
HIV cases per 100,000	174	181	7	92	95	3			
HCV ² cases per 100,000	57	59	2	36	41	5			

¹ Specialists included doctors board certified in gastroenterology, hepatology, infectious disease, or addiction medicine.

² HCV cases included all acute cases and chronic cases in persons born after 1965.

Yakima County has certain vulnerabilities, including a higher rate of unemployment and opioid-related hospitalizations and deaths than Washington State.

While drug deaths and opioid-related hospitalizations declined in Washington State from 2016 to 2018, they increased in Yakima County.

GARFIELD, ASOTIN, & COLUMBIA COUNTY



Background: Opioid use, hepatitis C (HCV), and overdose deaths are increasing in the United States and Washington State.¹⁻⁴ There is concern for rapid dissemination of HIV, HCV, and opioid overdose among people who inject drugs (PWID). Following an HIV outbreak among PWID in Scott County, Indiana in 2015,⁵ the US Centers for Disease Control and Prevention (CDC) conducted a study to identify indicator variables associated with injection drug use in order to determine which counties may be vulnerable to new or increasing rates of HIV or HCV among PWID.⁶ In 2019, Washington performed a similar analysis and added opioid overdose as an outcome since injection drug use is associated with a higher risk of overdose than non-injection use.⁷

Results: Select indicators used in the CDC and Washington State models are shown in the table, with the corresponding values for Washington State and the profiled county.

Next Steps: Indicators can be tracked on the county level to inform prevention efforts within WA, and to better understand how social determinants impact county-level health outcomes. Strategic approaches, including increased HIV and HCV testing, should be supported at the county level as needed. Future work will assess additional years of data and changes in indicators and outcomes over time.

	WA State			Garfield/Asotin/Columbia					
Indicator	2016	2018	Change	2016	2018	Change			
Population & Density									
Population	7,183,700	7,427,570	3.4%	28,400	28,780	1.3%			
Population per square mile	108	112	4	13	13	0			
Urban-rural classification		N/A		5	5	0			
	Sociodemographics								
Unemployment rate	6.8%	5.3%	-1.5%	8.1%	6.6%	-1.5%			
% With vehicle access	93%	93%	0%	94%	95%	1.5%			
% Uninsured	9.8%	6.8%	-3.0%	9.4%	171.8%	162.3%			
% No high school diploma	6.3%	6.0%	-0.3%	6.8%	6.7%	-0.2%			
Poverty rate	6.7%	6.2%	-0.5%	7.9%	7.3%	-0.7%			
Income per capita	\$32,999	\$39,119	\$6,120	\$25,681	\$28,076	\$2,395			
% Non-Hispanic White	70%	68%	-2.0%	91.0%	90.1%	-0.9%			
	Drug Avai	lability & O	utcomes						
In Drug Trafficking Zone		N/A			No				
All drug deaths per 100,000	15	14	-1	32	7	-25			
Opioid hospitalizations per 100,000	25	19	-6	35	24	-11			
Opioid deaths per 100,000	10	9	-1	4	0	-4			
	Provi	ider Resour	ces						
Mental health providers per 100,000	248	293	45	194	0	-194			
Specialist providers ¹ per 100,000	8	9	1	11	14	3			
Tran	smissible In	jection-Rela	ated Infec	tions					
HIV cases per 100,000	174	181	7	109	97	-12			
HCV ² cases per 100,000	57	59	2	4	69	66			

¹ Specialists included doctors board certified in gastroenterology, hepatology, infectious disease, or addiction medicine.

² HCV cases included all acute cases and chronic cases in persons born after 1965.

Garfield, Asotin, and Columbia counties have certain vulnerabilities, including a higher rate of unemployment and HCV infections than Washington State.

Drug deaths declined in Washington State and Garfield, Asotin, and Columbia counties from 2016 to 2018.