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





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# ADAMS COUNTY



Background: Opioid use, hepatitis C (HCV), and overdose deaths are increasing in the United States and Washington State.<sup>1-4</sup> 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,<sup>5</sup> 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.<sup>6</sup> 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.<sup>7</sup>

**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.

		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
	Socioo	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 <i>,</i> 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 Availe	ability & Oເ	itcomes			
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 <sup>1</sup> 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 <sup>2</sup> cases per 100,000	57	59	2	26	5	-21

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

<sup>2</sup> 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

HCV<sup>2</sup> cases per 100,000

Background: Opioid use, hepatitis C (HCV), and overdose deaths are increasing in the United States and Washington State.<sup>1-4</sup> 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,<sup>5</sup> 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.<sup>6</sup> 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.<sup>7</sup>

**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.

	1			r				
		WA State			Benton			
Indicator	2016	2018	Change	2016	2018	Change		
Population & Density								
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 & C	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 <sup>1</sup> per 100,000	8	9	1	10	9	-1
Trar	smissible II	njection-Re	lated Infect	ions		
HIV cases per 100,000	174	181	7	61	78	17

59

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

<sup>2</sup> 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.<sup>1-4</sup> 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,<sup>5</sup> 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.<sup>6</sup> 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.<sup>7</sup>

**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**

		WA State			Chelan				
Indicator	2016	2018	Change	2016	2018	Change			
	Popula	ation & De	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			
Urban-rural classification		N/A		4	4	0			
Sociodemographics									
Unemployment 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%			
Income 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						
In 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 <sup>1</sup> per 100,000	8	9	1	9	8	-2			
Trans	missible In	iection-Rel	ated Infed	tions					
HIV cases per 100,000	174	181	7	72	75	2			
HCV <sup>2</sup> cases per 100,000	57	59	2	14	44	29			

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

<sup>2</sup> 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.<sup>1-4</sup> 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,<sup>5</sup> 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.<sup>6</sup> 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.<sup>7</sup>

**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			
	Sociodemographics								
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 Availd	ability & Ou	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	ler Resourd	ces						
Mental health providers per 100,000	248	293	45	221	257	37			
Specialist providers <sup>1</sup> 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 <sup>2</sup> cases per 100,000	57	59	2	48	93	45			

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

<sup>2</sup> 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.<sup>1-4</sup> 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,<sup>5</sup> 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.<sup>6</sup> 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		Cla	ark				
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			
Sociodemographics									
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	\$32,999	\$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 <sup>1</sup> 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 <sup>2</sup> cases per 100,000	57	59	2	67	70	3			

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

<sup>2</sup> 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.<sup>1-4</sup> 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,<sup>5</sup> 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.<sup>6</sup> 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.<sup>7</sup>

**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 & Dei	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		
Sociodemographics								
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		
	Provi	der Resour	ces					
Mental health providers per 100,000	248	293	45	175	267	93		
Specialist providers <sup>1</sup> per 100,000	8	9	1	7	5	-2		
Transi	missible Inj	ection-Rel	ated Infe	ctions				
HIV cases per 100,000	174	181	7	108	130	23		
HCV <sup>2</sup> cases per 100,000	57	59	2	131	130	0		

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

<sup>2</sup> 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.<sup>1-4</sup> 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,<sup>5</sup> 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.<sup>6</sup> 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.<sup>7</sup>

**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	NA State			Douglas	
Indicator	2016	2018	Change	2016	2018	Change
	Popula	tion & De	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
	Socioo	demograp	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 <i>,</i> 966	\$28,579	\$4,613
% Non-Hispanic White	70%	68%	-2.0%	65.3%	64.5%	-0.8%
	Drug Availa	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 <sup>1</sup> per 100,000	8	9	1	0	2	2
Transı	nissible Inj	ection-Rel	ated Infe	ctions	-	
HIV cases per 100,000	174	181	7	37	36	-1
HCV <sup>2</sup> cases per 100,000	57	59	2	7	59	52

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

<sup>2</sup> 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.<sup>1-4</sup> 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,<sup>5</sup> 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.<sup>6</sup> 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.<sup>7</sup>

**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					
2016	2018	Change	2016	2018	Change				
Population & Density									
7,183,700	7,427,57 0	3.4%	7,700	7,780	1%				
108	112	4	3	4	1				
	N/A		6	6	0				
Sociodemographics									
6.8%	5.3%	-1.5%	9.8%	7.7%	-2.1%				
93%	93%	0%	94%	95%	0.4%				
9.8%	6.8%	-3.0%	11.7%	7.8%	-3.9%				
6.3%	6.0%	-0.3%	9.1%	10.2%	1.1%				
6.7%	6.2%	-0.5%	14.9%	12.1%	-2.8%				
\$32 <i>,</i> 999	\$39,119	\$6,120	\$21,146	\$23,640	\$2 <i>,</i> 494				
70%	68%	-2.0%	73.8%	73.4%	-0.4%				
Drug Avai	lability &	Outcome	5						
	N/A			No					
15	14	-1	0	26	26				
25	19	-6	13	13	0				
10	9	-1	0	1	1				
Prov	ider Resou	ırces							
248	293	45	234	236	3				
8	9	1	0	0	0				
missible In	jection-Re	lated Infe	ections						
174	181	7	52	51	-1				
57	59	2	65	116	51				
	2016 Popul 7,183,700 108 5ocio 6.8% 93% 9.8% 6.3% 6.3% 6.7% \$32,999 70% Drug Avai 15 25 10 Prov 248 8 smissible In 174	Population & Data           Population & Data           7,183,700         7,427,57 0           108         112           N/A         Sociodemograp           6.8%         5.3%           93%         93%           93%         93%           93%         93%           93%         93%           93%         93%           93%         93%           93%         93%           93%         93%           93%         93%           93%         93%           93%         93%           93%         6.8%           6.3%         6.0%           6.7%         6.2%           \$32,999         \$39,119           70%         68%           Drug Availability & a           15         14           25         19           10         9           Provider Resou         248           293         9           8         9           smissible Injection-Ree           174         181	2016         2018         Change           Population & Density           Population & Density           7,183,700 $7,427,57$ $3.4\%$ 108         112         4           N/A           Socioemographics           6.8% $5.3\%$ $-1.5\%$ 93%         93%         0%           93%         93%         0%           93%         93%         0%           93%         93%         0%           93%         93%         0%           93%         93%         0%           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%           Drug Avaibility & Utcomes           15         14         -1           25         19         -6           10         9         -1           Provider Resources           248         293         45           8         9	2016         2018         Change         2016           Population & Density           Population & Density           7,183,700 $7,427,57$ $3.4\%$ $7,700$ 108         112         4 $3$ N/A         6           Socioemogravites           6.8% $5.3\%$ $-1.5\%$ $9.8\%$ 93%         93%         0% $94\%$ 93%         93%         0% $94\%$ 93%         93%         0% $94\%$ 93%         6.8% $-3.0\%$ $11.7\%$ 6.3% $6.2\%$ $-0.5\%$ $14.9\%$ $532,999$ $$39,119$ $$6,120$ $$21,146$ $70\%$ $68\%$ $-2.0\%$ $73.8\%$ Drug Availbility & Utcomest $V$ $110$ $9$ 15 $14$ $-1$ $0$ 25 $19$ $-6$ $13$ 10 $9$ $-1$ $0$ 248 $293$ $45$ $234$	2016         2018         Change         2016         2018           Population & Density           7,183,700         7,427,57 0         3.4%         7,700         7,780           108         112         4         3         4           Image: Solar So				

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

<sup>2</sup> 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.<sup>1-4</sup> 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,<sup>5</sup> 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.<sup>6</sup> 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		
	Populo	ation & Der	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 <sup>1</sup> per 100,000	8	9	1	5	3	-1		
Trans	missible Inj	iection-Rela	ated Infe	ections				
HIV cases per 100,000	174	181	7	71	84	13		
HCV <sup>2</sup> cases per 100,000	57	59	2	5	67	62		

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

<sup>2</sup> 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.<sup>1-4</sup> 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,<sup>5</sup> 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.<sup>6</sup> 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**

	V	VA State			Grant			
Indicator	2016	2018	Change	2016	2018	Change		
	Populat	ion & 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		
Sociodemographics								
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%		
Income 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					
In 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 <sup>1</sup> 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 <sup>2</sup> cases per 100,000	57	59	2	27	34	6		

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

<sup>2</sup> 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.<sup>1-4</sup> 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,<sup>5</sup> 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.<sup>6</sup> 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**

	١	VA State		Gra	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 Avail	ability & C	outcome	s		
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
	Provi	ider Resoui	rces			
Mental health providers per 100,000	248	293	45	121	148	27
Specialist providers <sup>1</sup> per 100,000	8	9	1	3	5	3
Trans	missible In	jection-Rel	ated Infe	ections		
HIV cases per 100,000	174	181	7	104	122	18
HCV <sup>2</sup> cases per 100,000	57	59	2	70	109	39

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

<sup>2</sup> 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.<sup>1-4</sup> 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,<sup>5</sup> 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.<sup>6</sup> 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**

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		NA State			Island	
Indicator	2016	2018	Change	2016	2018	Change
	Popula	tion & Dens	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	lemographi	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%
Income 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%
l	Drug Availa	ıbility & Ou	tcomes			
In 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 <sup>1</sup> per 100,000	8	9	1	0	4	4
Transn	nissible Inje	ection-Rela	ted Infec	tions		
HIV cases per 100,000	174	181	7	92	109	17
HCV <sup>2</sup> cases per 100,000	57	59	2	24	35	10

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

<sup>2</sup> 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.<sup>1-4</sup> 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,<sup>5</sup> 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.<sup>6</sup> 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.<sup>7</sup>

**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
	Socioc	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 <i>,</i> 999	\$39,119	\$6,120	\$30,871	\$34,187	\$3,316
% Non-Hispanic White	70%	68%	-2.0%	88.7%	88.7%	0.0%
I	Drug Availa	ability & Οι	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 Resourc	ces .			
Mental health providers per 100,000	248	293	45	267	295	28
Specialist providers <sup>1</sup> 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 <sup>2</sup> cases per 100,000	57	59	2	19	35	16

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

<sup>2</sup> 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.<sup>1-4</sup> 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,<sup>5</sup> 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.<sup>6</sup> 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.<sup>7</sup>

**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 & D	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				
Sociodemographics										
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 <i>,</i> 629	\$49,298	\$5,669				
% Non-Hispanic White	70%	68%	-2.0%	62.2%	60.4%	-1.8%				
	Drug Ava	ilability &	Outcomes	5						
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	irces		-					
Mental health providers per 100,000	248	293	45	290	343	53				
Specialist providers <sup>1</sup> per 100,000	8	9	1	14	15	1				
Tran	smissible I	njection-Re	lated Infe	ections						
HIV cases per 100,000	174	181	7	322	321	-1				
HCV <sup>2</sup> cases per 100,000	57	59	2	42	38	-4				
<sup>1</sup> Specialists included doo	ctors board	certified in	gastroente	erology, he	patology.					

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

<sup>2</sup> 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.<sup>1-4</sup> 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,<sup>5</sup> 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.<sup>6</sup> 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.<sup>7</sup>

**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			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	\$3,025
% Non-Hispanic White	70%	68%	-2.0%	77.7%	77.0%	-0.7%
Ĺ	Drug Availa	ability & Ou	utcomes			
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 Resourd	ces			
Mental health providers per 100,000	248	293	45	216	267	51
Specialist providers <sup>1</sup> per 100,000	8	9	1	5	4	0
Transn	nissible Inje	ection-Rela	ited Infe	ctions		
HIV cases per 100,000	174	181	7	112	116	4
HCV <sup>2</sup> cases per 100,000	57	59	2	32	35	3

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

<sup>2</sup> 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.<sup>1-4</sup> 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,<sup>5</sup> 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.<sup>6</sup> 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.<sup>7</sup>

**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**

	[			-		
		NA State			Kittitas	
Indicator	2016	2018	Change	2016	2018	Change
	Populat	tion & Den	sity			
Population	7,183,700	7,427,570	3.4%	43,710	45,600	4.3%
Population per square mile	108	112	4	19	20	1
Urban-rural classification		N/A		5	5	0
	Sociod	emograph	ics			
Unemployment rate	6.8%	5.3%	-1.5%	6.7%	6.0%	-0.7%
% With vehicle access	93%	93%	0%	94%	96%	1.7%
% Uninsured	9.8%	6.8%	-3.0%	11.0%	6.6%	-4.4%
% No high school diploma	6.3%	6.0%	-0.3%	5.5%	4.7%	-0.8%
Poverty rate	6.7%	6.2%	-0.5%	7.4%	6.6%	-0.8%
Income per capita	\$32 <i>,</i> 999	\$39,119	\$6,120	\$25,147	\$27,948	\$2 <i>,</i> 801
% Non-Hispanic White	70%	68%	-2.0%	84.6%	84.1%	-0.5%
D	rug Availa	bility & Ou	tcomes			
In Drug Trafficking Zone		N/A		No		
All drug deaths per 100,000	15	14	-1	5	2	-2
Opioid hospitalizations per 100,000	25	19	-6	11	7	-4
Opioid deaths per 100,000	10	9	-1	2	1	-1
	Provid	er Resourc	es			
Mental health providers per 100,000	248	293	45	126	147	21
Specialist providers <sup>1</sup> per 100,000	8	9	1	0	2	2
Transm	issible Inje	ction-Rela	ted Infec	tions		
HIV cases per 100,000	174	181	7	64	55	-9
HCV <sup>2</sup> cases per 100,000	57	59	2	16	29	12

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

<sup>2</sup> 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.<sup>1-4</sup> 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,<sup>5</sup> 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.<sup>6</sup> 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.<sup>7</sup>

**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.

		NA State			Klickitat	
Indicator	2016	2018	Change	2016	2018	Change
	Popul	ation & De				
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	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	\$32,999	\$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	outcome	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	rces			
Mental health providers per 100,000	248	293	45	132	127	-5
Specialist providers <sup>1</sup> 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 <sup>2</sup> cases per 100,000	57	59	2	24	45	22

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

<sup>2</sup> 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.<sup>1-4</sup> 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,<sup>5</sup> 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.<sup>6</sup> 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	demograpi	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 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 <sup>1</sup> 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 <sup>2</sup> cases per 100,000	57	59	2	24	45	22

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

<sup>2</sup> 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.<sup>1-4</sup> 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,<sup>5</sup> 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.<sup>6</sup> 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.<sup>7</sup>

**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

		WA State			Lincoln	
Indicator	2016	2018	Change	2016	2018	Change
	Popula	tion & Den				. <u> </u>
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
	Socio	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 Availe	ability & Oເ	ıtcomes			
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 <sup>1</sup> per 100,000	8	9	1	0	0	0
Transı	nissible Inj	ection-Rela	ted Infe	ctions		
HIV cases per 100,000	174	181	7	75	46	-29
HCV <sup>2</sup> cases per 100,000	57	59	2	28	74	46

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

<sup>2</sup> 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.<sup>1-4</sup> 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,<sup>5</sup> 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.<sup>6</sup> 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.<sup>7</sup>

**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		Mason		
Indicator	2016	2018	Change	2016	2018	Change
	Populat	tion & Den	sity			
Population	7,183,700	7,427,57 0	3.4%	62,320	64,020	2.7%
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%
C	)rug Availa	bility & O	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 Resour	ces			
Mental health providers per 100,000	248	293	45	82	121	39
Specialist providers <sup>1</sup> 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 <sup>2</sup> cases per 100,000	57	59	2	77	347	270

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

<sup>2</sup> 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.<sup>1-4</sup> 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,<sup>5</sup> 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.<sup>6</sup> 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.<sup>7</sup>

**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**

	1	WA State		c	) kanogan					
Indicator	2016	2018	Change	2016	2018	Change				
	Popula	tion & Den	sity							
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				
Sociodemographics										
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%				
L	Drug Availa	ıbility & Oເ	ıtcomes							
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 Resourc	es							
Mental health providers per 100,000	248	293	45	242	260	18				
Specialist providers <sup>1</sup> per 100,000	8	9	1	2	7	5				
Transn	nissible Inje	ection-Rela	ted Infe	ctions						
HIV cases per 100,000	174	181	7	62	56	-6				
HCV <sup>2</sup> cases per 100,000	57	59	2	24	49	25				

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

<sup>2</sup> 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.<sup>1-4</sup> 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,<sup>5</sup> 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.<sup>6</sup> 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.<sup>7</sup>

**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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PAU	CIFIC		

	<u>۱</u>	NA State			Pacific			
Indicator	2016	2018	Change	2016	2018	Change		
	Popula	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		
Sociodemographics								
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%		
	Drug Availa	ıbility & Ou	tcomes					
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	ler Resourc	es					
Mental health providers per 100,000	248	293	45	184	212	28		
Specialist providers <sup>1</sup> per 100,000	8	9	1	0	0	0		
Transn	nissible Inje	ection-Rela	ted Infe	ctions				
HIV cases per 100,000	174	181	7	127	131	3		
HCV <sup>2</sup> cases per 100,000	57	59	2	47	131	84		

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

<sup>2</sup> 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.<sup>1-4</sup> 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,<sup>5</sup> 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.<sup>6</sup> 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.<sup>7</sup>

**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

	WA State			Pe	end Oreill	e	
Indicator	2016	2018	Change	2016	2018	Change	
	Popula	tion & Dens	sity				
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	
Sociodemographics							
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 Availa	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 <sup>1</sup> per 100,000	8	9	1	0	0	0	
Transi	missible Inje	ection-Rela	ted Infec	tions			
HIV cases per 100,000	174	181	7	83	66	-16	
HCV <sup>2</sup> cases per 100,000	57	59	2	45	74	29	

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

<sup>2</sup> 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.<sup>1-4</sup> 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,<sup>5</sup> 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.<sup>6</sup> 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.<sup>7</sup>

**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	
	Popula	ation & Dens	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 <sup>1</sup> 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 <sup>2</sup> cases per 100,000	57	59	2	55	55	0	

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

<sup>2</sup> 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.<sup>1-4</sup> 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,<sup>5</sup> 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.<sup>6</sup> 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.<sup>7</sup>

**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		
Population & Density								
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		
Sociodemographics								
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 <i>,</i> 999	\$39,119	\$6,120	\$40,327	\$42,307	\$1,980		
% Non-Hispanic White	70%	68%	-2.0%	89.1%	88.7%	-0.4%		
	Drug Avail	ability & Oເ	itcomes					
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		
	Provi	der Resourc	es					
Mental health providers per 100,000	248	293	45	337	386	49		
Specialist providers <sup>1</sup> per 100,000	8	9	1	6	0	-6		
Transr	nissible Inj	ection-Rela	ted Infe	ctions				
HIV cases per 100,000	174	181	7	135	131	-4		
HCV <sup>2</sup> cases per 100,000	57	59	2	25	24	-1		

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

<sup>2</sup> 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.<sup>1-4</sup> 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,<sup>5</sup> 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.<sup>6</sup> 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.<sup>7</sup>

**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.

CIZACIT	COLUNITY
SKAGIT	COUNT

	1	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	
Sociodemographics							
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%	
Ĺ	Drug Availa	ability & 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 <sup>1</sup> per 100,000	8	9	1	10	9	-1	
Transn	nissible Inje	ection-Rela	ted Infe	ctions			
HIV cases per 100,000	174	181	7	76	74	-2	
HCV <sup>2</sup> cases per 100,000	57	59	2	51	86	35	

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

<sup>2</sup> 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.<sup>1-4</sup> 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,<sup>5</sup> 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.<sup>6</sup> 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.<sup>7</sup>

**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**

	-	VA State	-		kamania			
Indicator	2016	2018	Change	2016	2018	Change		
	Populat	ion & Dens	ity					
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		
Sociodemographics								
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	\$28,556	\$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 Resource	es					
Mental health providers per 100,000	248	293	45	113	122	9		
Specialist providers <sup>1</sup> per 100,000	8	9	1	0	0	0		
Transn	nissible Inje	ction-Relat	ed Infec	tions				
HIV cases per 100,000	174	181	7	52	59	7		
HCV <sup>2</sup> cases per 100,000	57	59	2	9	67	59		

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

<sup>2</sup> 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.<sup>1-4</sup> 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,<sup>5</sup> 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.<sup>6</sup> 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.<sup>7</sup>

**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**

	WA State				Snohomish				
Indicator	2016	2018	Change		2018	Change			
Population & Density									
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			
Sociodemographics									
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	\$32,999	\$39,119	\$6,120	\$33,883	\$37,671	\$3,788			
% Non-Hispanic White	70%	68%	-2.0%	72.0%	70.3%	-1.7%			
	Drug Availa	bility & Out	tcomes						
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	25						
Mental health providers per 100,000	248	293	45	226	286	60			
Specialist providers <sup>1</sup> per 100,000	8	9	1	4	5	1			
Transı	nissible Inje	ction-Relat	ed Infec	tions					
HIV cases per 100,000	174	181	7	132	142	10			
HCV <sup>2</sup> cases per 100,000	57	59	2	54	56	1			

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

<sup>2</sup> 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.<sup>1-4</sup> 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,<sup>5</sup> 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.<sup>6</sup> 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.<sup>7</sup>

**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.

	1	NA State		Spokane			
Indicator	2016	2018	Change	2016	2018	Change	
	Popula	ition & Den	sity				
Population	7,183,700	7,427,570	3.4%	492,530	507,950	3.1%	
Population per square mile	108	112	4	279	288	9	
Urban-rural classification		N/A		3	3	0	
	Socio	demograph	nics				
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 <sup>1</sup> per 100,000	8	9	1	6	7	1	
Transi	missible Inj	ection-Rela	ited Infe	ctions			
HIV cases per 100,000	174	181	7	119	128	10	
HCV <sup>2</sup> cases per 100,000	57	59	2	96	109	13	

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

<sup>2</sup> 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.<sup>1-4</sup> 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,<sup>5</sup> 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.<sup>6</sup> 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.<sup>7</sup>

**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 0	3.4%	44,100	45,030	2.1%			
Population per square mile	108	112	4	18	18	0			
Urban-rural classification		N/A		3	3	0			
Sociodemographics									
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 Resourd	es						
Mental health providers per 100,000	248	293	45	234	277	43			
Specialist providers <sup>1</sup> per 100,000	8	9	1	2	0	-2			
Transn	nissible Inje	ction-Rela	ted Infed	tions					
HIV cases per 100,000	174	181	7	50	60	10			
HCV <sup>2</sup> cases per 100,000	57	59	2	43	64	21			

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

<sup>2</sup> 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.<sup>1-4</sup> 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,<sup>5</sup> 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.<sup>6</sup> 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.<sup>7</sup>

**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

	WA State				Thurston			
Indicator	2016	2018	Change	2016	2018	Change		
		tion & Den	-			0.10.180		
Population		7,427,570		272,690	281,700	3.3%		
Population per square mile	108	112	4	378	390	12		
Urban-rural classification		N/A		3	3	0		
Sociodemographics								
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%		
L	Drug Availa	ability & Ou	ıtcomes					
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		
	Provid	ler Resourd	ces					
Mental health providers per 100,000	248	293	45	176	231	55		
Specialist providers <sup>1</sup> per 100,000	8	9	1	8	9	0		
Transn	nissible Inje	ection-Rela	ted Infe	ctions				
HIV cases per 100,000	174	181	7	100	113	12		
HCV <sup>2</sup> cases per 100,000	57	59	2	52	47	-4		

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

<sup>2</sup> 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.<sup>1-4</sup> 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,<sup>5</sup> 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.<sup>6</sup> 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.<sup>7</sup>

**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

	WA State			Wahkiakum					
Indicator	2016	2018	Change	2016	2018	Change			
	Popula	tion & Den	sity						
Population	7,183,700	7,427,570	3.4%	4,000	4,100	2.5%			
Population per square mile	108	112	4	15	16	0			
Urban-rural classification		N/A		6	6	0			
Sociodemographics									
Unemployment rate	6.8%	5.3%	-1.5%	7.0%	5.3%	-1.7%			
% With vehicle access	93%	93%	0%	96%	99%	2.7%			
% Uninsured	9.8%	6.8%	-3.0%	8.3%	7.2%	-1.1%			
% No high school diploma	6.3%	6.0%	-0.3%	5.3%	6.9%	1.6%			
Poverty rate	6.7%	6.2%	-0.5%	10.2%	5.8%	-4.4%			
Income per capita	\$32,999	\$39,119	\$6,120	\$27,619	\$29,452	\$1,833			
% Non-Hispanic White	70%	68%	-2.0%	89.7%	87.2%	-2.5%			
	Drug Availa	ability & Ou	ıtcomes						
In Drug Trafficking Zone									
All drug deaths per 100,000	15	14	-1	0	49	49			
Opioid hospitalizations per 100,000	25	19	-6	0	0	0			
Opioid deaths per 100,000	10	9	-1	0	1	1			
	Provid	der Resourc	es						
Mental health providers per 100,000	248	293	45	300	266	-34			
Specialist providers <sup>1</sup> per 100,000	8	9	1	0	0	0			
Transı	nissible Inj	ection-Rela	ted Infe	ctions					
HIV cases per 100,000	174	181	7	100	98	-2			
HCV <sup>2</sup> cases per 100,000	57	59	2	0	49	49			

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

<sup>2</sup> 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.<sup>1-4</sup> 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,<sup>5</sup> 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.<sup>6</sup> 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.<sup>7</sup>

**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

	WA Stat			Walla Walla					
Indicator	2016	2018	Change	2016	2018	Change			
Population & Density									
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%			
	Drug Availd	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			
	Provid	ler Resourc	es						
Mental health providers per 100,000	248	293	45	214	225	11			
Specialist providers <sup>1</sup> 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 <sup>2</sup> cases per 100,000	57	59	2	16	87	71			

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

<sup>2</sup> 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.<sup>1-4</sup> 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,<sup>5</sup> 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.<sup>6</sup> 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.<sup>7</sup>

**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

	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 & Ou	ıtcomes						
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 Resourd	ces						
Mental health providers per 100,000	248	293	45	351	404	54			
Specialist providers <sup>1</sup> per 100,000	8	9	1	8	8	0			
Transn	nissible Inje	ection-Rela	ted Infe	ctions					
HIV cases per 100,000	174	181	7	83	107	24			
HCV <sup>2</sup> cases per 100,000	57	59	2	79	65	-14			

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

<sup>2</sup> 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.<sup>1-4</sup> 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,<sup>5</sup> 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.<sup>6</sup> 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.<sup>7</sup>

**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

	١	NA State		Whitman					
Indicator	2016	2018	Change		2018	Change			
Population & Density									
Population		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 & O	utcomes	5					
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 Resour	ces						
Mental health providers per 100,000	248	293	45	134	145	12			
Specialist providers <sup>1</sup> per 100,000	8	9	1	0	2	2			
Trans	missible Inj	jection-Rel	ated Infe	ections					
HIV cases per 100,000	174	181	7	44	49	5			
HCV <sup>2</sup> cases per 100,000	57	59	2	0	28	28			

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

<sup>2</sup> 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.<sup>1-4</sup> 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,<sup>5</sup> 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.<sup>6</sup> 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.<sup>7</sup>

**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.

γακι	ΜΔ	COL	JNT

WA State Yakima									
	WA State								
Indicator	2016	2018	Change	2016	2018	Change			
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%			
l	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 <sup>1</sup> per 100,000	8	9	1	6	7	1			
Transn	nissible Inje	ction-Rela	ted Infec	tions					
HIV cases per 100,000	174	181	7	92	95	3			
HCV <sup>2</sup> cases per 100,000	57	59	2	36	41	5			

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

<sup>2</sup> 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.<sup>1-4</sup> 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,<sup>5</sup> 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.<sup>6</sup> 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.<sup>7</sup>

**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 <sup>1</sup> 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 <sup>2</sup> cases per 100,000	57	59	2	4	69	66			

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

<sup>2</sup> 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.