# Trillium Health Resources LME-MCO

# OPIOID CRISIS: COUNTY-SPECIFIC DATA PACKET

Excerpts from 2017 Gaps & Needs Report



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# **Trillium 24-County Catchment**

#### **Overdose Deaths**

#### Trillium Catchment Overdose Death - Percentage of Change\*

County (County is based on county of residence of the decedent)	Pois (Any me and/o prima include	Medication & Drug Poisoning Deaths Any mention of a medication and/or drug poisoning as primary cause of death; includes prescription, over- the-counter, and illicit drugs)		Prescription Opioid  Deaths**  (Any mention of other opioids, methadone, and/or other synthetic opioids in the multiple cause of death fields on the death certificate)			Heroin Poisoning Deaths  (Any mention of heroin in the multiple cause of death fields on the death certificate)		
	2014	2015	Change	2014	2015	Change	2014	2015	Change
Beaufort	7	8	14.3%	2	4	50.0%	1	1	0.0%
Bertie	0	2	200.0%	0	1	100.0%	0	1	100.0%
Brunswick	22	29	32.0%	15	20	33.3%	5	10	100.0%
Camden	0	4	400.0%	0	3	300.0%	0	1	100.0%
Carteret	19	18	-5.3%	13	12	-7.7%	1	4	300.0%
Chowan	0	3	300.0%	0	3	300.0%	0	1	100.0%
Craven	18	28	55.6%	9	17	89.0%	2	5	150.0%
Currituck	3	5	66.7%	1	3	200.0%	1	2	100.0%
Dare	10	5	-50.0%	6	3	-50.00%	3	0	-100.0%
Gates	1	1	0.0%	0	1	100.0%	0	1	100.0%
Hertford	1	1	0.0%	0	0	0.0%	0	0	0.0%
Hyde	0	0	0.0%	0	0	0.0%	0	0	0.0%
Jones	1	3	200.0%	0	3	300.0%	0	0	0.0%
Martin	2	3	50.0%	1	1	0.0%	0	0	0.0%
New Hanover	41	52	27.0%	14	32	129.0%	11	23	109.1%
Northampton	2	2	0.0%	2	0	-100.0%	0	1	100.0%
Onslow	20	20	0.0%	13	13	0.0%	1	3	200.0%
Pamlico	4	4	0.0%	3	3	0.0%	0	1	100.0%
Pasquotank	3	3	0.0%	2	2	0.0%	1	1	0.0%
Pender	5	17	240.0%	1	10	900.0%	1	7	600.0%
Perquimans	2	2	0.0%	1	1	0.0%	1	0	-100.0%
Pitt	30	17	-43.3%	17	10	-41.0%	3	4	33.3%
Tyrrell	1	0	-100.0%	1	0	-100.0%	0	0	0.0%
Washington	1	1	0.0%	0	1	100.0%	0	0	0.0%
Trillium Catchment Total	193	228	18.1%	101	143	42.0%	31	66	113.0%
North Carolina Total	1,306	1,498	15.0%	728	854	17.3%	253	369	46.0%

<sup>\*</sup> Note the numbers in the categories above are not mutually exclusive. Those included in Deaths by Prescription Opioids and/or Heroin may also be included in Medication and Drug Poisoning data.

\*\*The

<sup>&#</sup>x27;Prescription Opioid' category currently includes 'other synthetic narcotics' like tramadol and fentanyl. With the rise of illicitly manufactured fentanyl, the 'Prescription Opioid' category will likely exclude 'other synthetic narcotics' in the future.

# **Overdose Deaths Percent Change**

#### Trillium Catchment 3-Year Overdose Death Comparison\*

County (County is based on county of residence of the decedent)	Poiso (Any medica poisonin of d prescr	cation & oning De or mention and/or g as prima eath; incluiption, over, and illicit	eaths of a or drug ry cause des r-the-	(Any r opioi and/o opioid cause c	Deaths* nention of ds, methal r other syr s in the m of death fi eath certif	tother done, nthetic ultiple elds on	(Any me the m	in Poise Deaths ention of h ultiple ca elds on th certificate	neroin in use of ne death
	2013	2014	2015	2013	2014	2015	2013	2014	2015
Beaufort	10	7	8	1	2	4	1	1	1
Bertie	2	0	2	2	0	1	0	0	1
Brunswick	31	22	29	18	15	20	10	5	10
Camden	0	0	4	0	0	3	0	0	1
Carteret	13	19	18	6	13	12	1	1	4
Chowan	6	0	3	2	0	3	0	0	1
Craven	17	18	28	13	9	17	1	2	5
Currituck	0	3	5	0	1	3	0	1	2
Dare	4	10	5	3	6	3	0	3	0
Gates	0	1	1	0	0	1	0	0	1
Hertford	1	1	1	1	0	0	0	0	0
Hyde	0	0	0	0	0	0	0	0	0
Jones	0	1	3	0	0	3	0	0	0
Martin	3	2	3	1	1	1	0	0	0
New Hanover	38	41	52	19	14	32	9	11	23
Northampton	1	2	2	1	2	0	0	0	1
Onslow	19	20	20	13	13	13	1	1	3
Pamlico	2	4	4	0	3	3	0	0	1
Pasquotank	4	3	3	2	2	2	1	1	1
Pender	7	5	17	7	1	10	0	1	7
Perquimans	1	2	2	0	1	1	0	1	0
Pitt	18	30	17	11	17	10	2	3	4
Tyrrell	0	1	0	0	1	0	0	0	0
Washington	0	1	1	0	0	1	0	0	0
Trillium Catchment Total	177	193	228	100	101	143	26	31	66
North Carolina Total	1,215	1,306	1,498	624	728	854	183	253	369

<sup>\*</sup> Note the numbers in the categories above are not mutually exclusive. Those included in Deaths by Prescription Opioids and/or Heroin may also be included in Medication and Drug Poisoning data. \*\*The 'Prescription Opioid' category currently includes 'other synthetic narcotics' like tramadol and fentanyl. With the rise of illicitly manufactured fentanyl, the 'Prescription Opioid' category will likely exclude 'other synthetic narcotics' in the future.

# **Death Rate Among Population**

# 2015 Prescription Opioid Poisoning Death Rates Ranked Highest to Lowest

County	Number of Deaths	Rate of Death per 100,000 Persons
Camden	3	29.0
Jones	3	28.6
Martin	6	25.4
Pamlico	3	22.8
Chowan	3	20.4
Pender	10	17.3
Carteret	12	17.3
Brunswick	20	16.4
Craven	17	16.2
New Hanover	32	14.5
Currituck	3	11.8
Dare	3	8.5
Nash	8	8.5
Beaufort	4	8.4
Gates	1	8.4
Washington	1	7.9
Perquimans	1	7.4
Onslow	13	6.7
Pitt	10	5.7
Pasquotank	2	5.0
Bertie	1	4.9
Hertford	0	0.0
Hyde	0	0.0
Northampton	0	0.0
Tyrrell	0	0.0
North Carolina	854	8.5

Source: N.C. DHHS, Injury Epidemiology and Surveillance Unit, Injury and Violence Prevention Branch, Chronic Disease and Injury Section, Division of Public Health. Received 11/15/16.

#### 2015 Heroin Poisoning Death Rates Ranked Highest to Lowest

County	Number of Deaths	Rate of Death per 100,000 Persons
Pender	7	12.1
New Hanover	23	10.4
Camden	1	9.7
Gates	1	8.4
Brunswick	10	8.2
Currituck	2	7.9
Pamlico	1	7.6
Chowan	1	6.8
Carteret	4	5.8
Bertie	1	4.9
Craven	5	4.8
Northampton	1	4.7
Martin	1	4.2
Nash	4	4.2
Pasquotank	1	2.5
Pitt	4	2.3
Beaufort	1	2.1
Onslow	3	1.5
Dare	0	0.0
Hertford	0	0.0
Hyde	0	0.0
Jones	0	0.0
Perquimans	0	0.0
Tyrrell	0	0.0
Washington	0	0.0
North Carolina	369	3.7

#### 2015 Methadone Poisoning Death Rates

**Ranked Highest to Lowest** 

County	Number of Deaths	Rate of Death per 100,000 Persons
Martin	3	12.7
Chowan	1	6.8
Pender	3	5.2
Brunswick	4	3.3
Nash	3	3.2
Craven	2	1.9
New Hanover	4	1.8
Carteret	1	1.4
Pitt	2	1.1
Onslow	2	1.0
Beaufort	0	0.0
Bertie	0	0.0
Camden	0	0.0
Currituck	0	0.0
Dare	0	0.0
Gates	0	0.0
Hertford	0	0.0
Hyde	0	0.0
Jones	0	0.0
Northampton	0	0.0
Pamlico	0	0.0
Pasquotank	0	0.0
Perquimans	0	0.0
Tyrrell	0	0.0
Washington	0	0.0
North Carolina	110	1.1

Source: N.C. DHHS, Injury Epidemiology and Surveillance Unit, Injury and Violence Prevention Branch, Chronic Disease and Injury Section, Division of Public Health. Received 11/15/16.

# 2015 Medication and Drug Poisoning Death Rates Ranked Highest to Lowest

County	Number of Deaths	Rate of Death per 100,000 Persons
Camden	4	38.7
Martin	8	33.9
Pamlico	4	30.4
Pender	17	29.5
Jones	3	28.6
Craven	28	26.7
Carteret	18	25.9
Brunswick	29	23.9
New Hanover	52	23.6
Chowan	3	20.4
Currituck	5	19.7
Beaufort	8	16.8
Nash	14	14.8
Perquimans	2	14.8
Dare	5	14.1
Onslow	20	10.3
Bertie	2	9.8
Pitt	17	9.7
Northampton	2	9.5
Gates	1	8.4
Washington	1	7.9
Pasquotank	3	7.5
Hertford	1	4.1
Hyde	0	0.0
Tyrrell	0	0.0
North Carolina	1,498	14.9

#### Trillium Catchment ED Visits - 3 Year Comparison\*\*

County	(Any ment and/or drug six diagnos includes pro	tic codes or	dication n the first E-code; over-the-	(Any opioids, other s	ription oisoning mention o methador synthetic o six diagno or E-codes	f other ne, and/or pioids in stic codes	(Any men		oning roin in the odes or E-
	2012	2013	2014	2012	2013	2014	2012	2013	2014
Beaufort	121	99	122	17	*	17	0	*	11
Bertie	42	28	29	0	*	*	0	0	*
Brunswick	272	289	293	44	38	45	12	19	17
Camden	10	14	13	*	0	0	0	0	*
Carteret	204	212	205	41	35	26	*	0	11
Chowan	31	30	41	*	*	*	0	*	0
Craven	287	308	320	32	46	44	*	*	12
Currituck	30	18	37	*	0	*	*	0	*
Dare	79	74	72	*	*	*	*	*	*
Gates	12	13	*	*	*	*	0	0	0
Hertford	46	36	31	*	*	*	0	*	0
Hyde	10	12	*	0	*	0	0	0	0
Jones	30	26	32	*	*	*	0	0	*
Martin	33	48	43	*	*	*	0	0	*
New Hanover	354	351	486	40	35	43	46	68	64
Northampton	57	56	42	*	*	0	0	0	0
Onslow	378	369	409	31	32	29	*	*	11
Pamlico	24	29	41	*	*	*	0	0	*
Pasquotank	63	74	84	*	*	*	*	0	*
Pender	106	89	101	17	*	*	*	*	15
Perquimans	18	22	23	*	*	0	0	0	0
Pitt	402	348	410	40	29	33	*	16	18
Tyrrell	*	*	*	*	*	0	0	0	0
Washington	22	18	19	0	*	0	0	0	0
Trillium Catchment Total	2,631	2,563	2,853	262	215	237	58	103	159
North Carolina Total	20,981	20,371	21,835	2,237	2,036	2,019	474	643	1,127

 $<sup>\</sup>mbox{*}$  data suppressed using state convention >0 and <10

<sup>\*\*</sup> Note the numbers in the categories above are not mutually exclusive. Those included in Prescription Opioids and/or Heroin may also be included in Medication and Drug Poisoning data. Also note that this is the most current data available as of 6/9/17.

<sup>\*\*\*</sup>The 'Prescription Opioid' category currently includes 'other synthetic narcotics' like tramadol and fentanyl. With the rise of illicitly manufactured fentanyl, the 'Prescription Opioid' category will likely exclude 'other synthetic narcotics' in the future.

Source: N.C. DHHS, Injury Epidemiology and Surveillance Unit, Injury and Violence Prevention Branch, Chronic Disease and Injury Section, Division of Public Health. Accessed 11/15/16.

# **Prescription Overdose Deaths**

#### **Prescription Opioid Poisoning Death Rates**

All 100 North Carolina Counties Ranked Highest to Lowest

Natived Highest to Lowest						
County	Number of Deaths	Rate of Death per 100,000 persons				
Burke	30	33.6				
Wilkes	23	32.9				
Camden	3	29.0				
Jones	3	28.6				
Yancey	5	27.9				
Martin	6	25.4				
Mitchell	4	25.3				
Caldwell	20	24.3				
Pamlico	3	22.8				
Graham	2	22.5				
Stokes	10	21.4				
Chowan	3	20.4				
Macon	7	20.1				
Richmond	9	19.8				
Rutherford	13	19.3				
Madison	4	18.4				
Stanly	11	18.0				
Pender	10	17.3				
Carteret	12	17.3				
Avery	3	16.8				
Brunswick	20	16.4				
Craven	17	16.2				
Alexander	6	15.7				
Columbus	9	15.6				
Cleveland	15	15.3				
Rowan	21	15.1				
Randolph	21	14.6				
New Hanover	32	14.5				
Bladen	5	14.2				
Scotland	5	14.0				
Haywood	8	13.3				
Transylvania	4	11.9				
Currituck	3	11.8				
Henderson	13	11.6				
Vance	5	11.1				
Edgecombe	6	10.8				
Rockingham	10	10.8				
Moore	10	10.6				

County	Number of	Rate of Death per
Gaston	Deaths 22	<b>100,000 persons</b> 10.4
Catawba	16	10.2
Polk	2	9.6
Halifax	5	9.5
Cumberland	31	9.4
Johnston	17	9.3
Davidson	15	9.1
Forsyth	33	9.0
Alleghany	1	9.0
Lenoir	5	8.5
Nash	8	8.5
Caswell	2	8.5
Dare	3	8.5
Lee	5	8.4
Beaufort	4	8.4
Gates	1	8.4
Robeson	11	8.3
Surry	6	8.1
Yadkin	3	8.0
Washington	1	7.9
Franklin	5	7.8
Harnett	10	7.8
Sampson	5	7.7
Cabarrus	15	7.7
Person	3	7.6
Buncombe	19	7.5
Perguimans	1	7.4
Ashe	2	7.3
Jackson	3	7.3
Montgomery	2	7.2
Onslow	13	6.7
Swain	1	6.7
Iredell	10	5.9
Union	13	5.9
Pitt	10	5.7
Watauga	3	5.6
Guilford	29	5.6
Granville	3	5.1
Pasquotank	2	5.0
Duplin	3	5.0
Bertie	1	4.9
Davie	2	4.8
Wayne	6	4.8
Durham	13	4.4
L	13	11.1

County	Number of Deaths	Rate of Death per 100,000 persons
Hoke	2	3.9
Wake	38	3.8
Anson	1	3.8
Mecklenburg	39	3.8
Lincoln	3	3.7
Wilson	3	3.7
Cherokee	1	3.7
Alamance	5	3.2
Orange	4	2.8
McDowell	1	2.2
Chatham	1	1.4
Clay	0	0.0
Greene	0	0.0
Hertford	0	0.0
Hyde	0	0.0
Northampton	0	0.0
Tyrrell	0	0.0
Warren	0	0.0
North Carolina	854	8.5

# **Heroin Poising Death Rates**

#### **Heroin Poisoning Death Rates**

All 100 North Carolina Counties Ranked Highest to Lowest

Ranked Highest to Lowest						
County	Number of Deaths	Rate of Death per 100,000 persons				
Pender	7	12.1				
Halifax	6	11.3				
New Hanover	23	10.4				
Camden	1	9.7				
Greene	2	9.4				
Alleghany	1	9.0				
Stokes	4	8.5				
Lee	5	8.4				
Gates	1	8.4				
Randolph	12	8.4				
Brunswick	10	8.2				
Currituck	2	7.9				
Pamlico	1	7.6				
Watauga	4	7.5				
Davie	3	7.2				
Rowan	10	7.2				
Chowan	1	6.8				
Cumberland	22	6.6				
Franklin	4	6.3				
Forsyth	23	6.3				
Carteret	4	5.8				
Yancey	1	5.6				
Buncombe	14	5.5				
Yadkin	2	5.3				
Bertie	1	4.9				
Caldwell	4	4.9				
Wayne	6	4.8				
Craven	5	4.8				
Northampton	1	4.7				
Gaston	10	4.7				
Guilford	23	4.5				
Vance	2	4.4				
Richmond	2	4.4				
Nash	4	4.2				
Martin	1	4.2				
Alamance	6	3.8				
Wilson	3	3.7				
Edgecombe	2	3.6				
Montgomery	1	3.6				

County	Number	Rate of Death per
	of Deaths	100,000 persons
Iredell	6	3.5
Granville 	2	3.4
Lenoir	2	3.4
Johnston	6	3.3
Stanly	2	3.3
Union	7	3.2
Cleveland	3	3.1
Davidson	5	3.0
Durham	9	3.0
Mecklenburg	31	3.0
Wake	30	3.0
Rutherford	2	3.0
Macon	1	2.9
Catawba	4	2.6
Pasquotank	1	2.5
Lincoln	2	2.5
Pitt	4	2.3
Burke	2	2.2
Beaufort	1	2.1
Columbus	1	1.7
Onslow	3	1.5
Cabarrus	3	1.5
Wilkes	1	1.4
Orange	2	1.4
Surry	1	1.4
Rockingham	1	1.1
Moore	1	1.1
Harnett	1	0.8
Robeson	1	0.8
Alexander	0	0.0
Anson	0	0.0
Ashe	0	0.0
Avery	0	0.0
Bladen	0	0.0
Caswell	0	0.0
Chatham	0	0.0
Cherokee	0	0.0
Clay	0	0.0
Dare	0	0.0
Duplin	0	0.0
Graham	0	0.0
Haywood	0	0.0
Henderson	0	0.0
Hertford	0	0.0

County	Number of Deaths	Rate of Death per 100,000 persons
Hoke	0	0.0
Hyde	0	0.0
Jackson	0	0.0
Jones	0	0.0
Madison	0	0.0
McDowell	0	0.0
Mitchell	0	0.0
Perquimans	0	0.0
Person	0	0.0
Polk	0	0.0
Sampson	0	0.0
Scotland	0	0.0
Swain	0	0.0
Transylvania	0	0.0
Tyrrell	0	0.0
Warren	0	0.0
Washington	0	0.0
North Carolina	369	3.7

# **Methadone Poisoning Dearth Rates**

#### **Methadone Poisoning Death Rates**

All 100 North Carolina Counties Ranked Highest to Lowest

Raliked Highest to Lowest				
County	Number of Deaths	Rate of Death per 100,000 persons		
Mitchell	3	18.9		
Martin	3	12.7		
Graham	1	11.2		
Yancey	2	11.2		
Macon	3	8.6		
Person	3	7.6		
Chowan	1	6.8		
Stokes	3	6.4		
Pender	3	5.2		
Madison	1	4.6		
Richmond	2	4.4		
Caldwell	3	3.6		
Rowan	5	3.6		
Columbus	2	3.5		
Lenoir	2	3.4		
Burke	3	3.4		
Brunswick	4	3.3		
Stanly	2	3.3		
Nash	3	3.2		
Cleveland	3	3.1		
Rutherford	2	3.0		
Wilkes	2	2.9		
Bladen	1	2.8		
Scotland	1	2.8		
Jackson	1	2.4		
Robeson	3	2.3		
McDowell	1	2.2		
Rockingham	2	2.2		
Craven	2	1.9		
New Hanover	4	1.8		
Granville	1	1.7		
Haywood	1	1.7		
Buncombe	4	1.6		
Franklin	1	1.6		
Carteret	1	1.4		
Randolph	2	1.4		
Surry	1	1.4		
Catawba	2	1.3		

County	Number of Deaths	Rate of Death per 100,000 persons
Davidson	2	1.2
Pitt	2	1.1
Forsyth	4	1.1
Onslow	2	1.0
Harnett	1	0.8
Guilford	4	0.8
Cumberland	2	0.6
Johnston	1	0.5
Cabarrus	1	0.5
Gaston	1	0.5
Union	1	0.5
Durham	1	0.3
Mecklenburg	3	0.3
Wake	1	0.1
Alamance	0	0.0
Alexander	0	0.0
Alleghany	0	0.0
Anson	0	0.0
Ashe	0	0.0
Avery	0	0.0
Beaufort	0	0.0
Bertie	0	0.0
Camden	0	0.0
Caswell	0	0.0
Chatham	0	0.0
Cherokee	0	0.0
Clay	0	0.0
Currituck	0	0.0
Dare	0	0.0
Davie	0	0.0
Duplin	0	0.0
Edgecombe	0	0.0
Gates	0	0.0
Greene	0	0.0
Halifax	0	0.0
Henderson	0	0.0
Hertford	0	0.0
Hoke	0	0.0
Hyde	0	0.0
Iredell	0	0.0
Jones	0	0.0
Lee	0	0.0
Lincoln	0	0.0
Montgomery	0	0.0

County	Number of Deaths	Rate of Death per 100,000 persons
Moore	0	0.0
Northampton	0	0.0
Orange	0	0.0
Pamlico	0	0.0
Pasquotank	0	0.0
Perquimans	0	0.0
Polk	0	0.0
Sampson	0	0.0
Swain	0	0.0
Transylvania	0	0.0
Tyrrell	0	0.0
Vance	0	0.0
Warren	0	0.0
Washington	0	0.0
Watauga	0	0.0
Wayne	0	0.0
Wilson	0	0.0
Yadkin	0	0.0
North Carolina	110	1.1

# **Medication and Drug Poisoning Death Rates**

#### **Medication and Drug Poisoning Death Rates**

All 100 North Carolina Counties Ranked Highest to Lowest

Name	Ranked Highest to Lowest				
County	Number of Deaths	Rate of Death per 100,000 persons			
Burke	36	40.4			
Wilkes	28	40.0			
Camden	4	38.7			
Mitchell	6	37.9			
Alexander	14	36.6			
Caldwell	29	35.2			
Martin	8	33.9			
Rutherford	21	31.1			
Pamlico	4	30.4			
Stokes	14	29.9			
Cleveland	29	29.5			
Pender	17	29.5			
Jones	3	28.6			
Richmond	13	28.6			
Yancey	5	27.9			
Madison	6	27.6			
Alleghany	3	26.9			
Craven	28	26.7			
Rowan	36	26.0			
Carteret	18	25.9			
Randolph	37	25.8			
Scotland	9	25.1			
Halifax	13	24.6			
Stanly	15	24.5			
Brunswick	29	23.9			
New Hanover	52	23.6			
Macon	8	23.0			
Graham	2	22.5			
Avery	4	22.3			
Chowan	3	20.4			
Haywood	12	19.9			
Gaston	42	19.8			
Currituck	5	19.7			
Henderson	22	19.6			
Lenoir	11	18.7			
Forsyth	67	18.2			
Catawba	28	17.9			
Bladen	6	17.1			

County	Number of Deaths	Rate of Death per 100,000 persons
Lee	10	16.9
Beaufort	8	16.8
Surry	12	16.3
Johnston	29	15.8
Davidson	26	15.8
Vance	7	15.5
Cumberland	51	15.4
Cabarrus	30	15.3
Rockingham	14	15.1
Buncombe	38	14.9
Nash	14	14.8
Transylvania	5	14.8
Perquimans	2	14.8
Ashe	4	14.6
Polk	3	14.4
Dare	5	14.1
Harnett	18	14.1
Sampson	9	13.9
Columbus	8	13.9
Moore	13	13.8
Iredell	23	13.6
Yadkin	5	13.3
Watauga	7	13.1
Person	5	12.7
Edgecombe	7	12.6
Guilford	63	12.2
Robeson	16	12.0
Anson	3	11.3
Lincoln	9	11.1
Wilson	9	11.0
Cherokee	3	11.0
Franklin	7	11.0
Montgomery	3	10.8
Union	23	10.4
Wayne	13	10.3
Granville	6	10.3
Onslow	20	10.3
Alamance	16	10.2
Bertie	2	9.8
Pitt	17	9.7
Jackson	4	9.7
Davie	4	9.6
Northampton	2	9.5
Mecklenburg	98	9.5
Miceriolis	70	٠.٠

County	Number of Deaths	Rate of Death per 100,000 persons
Greene	2	9.4
Caswell	2	8.5
Gates	1	8.4
Duplin	5	8.3
Wake	83	8.3
Washington	1	7.9
Hoke	4	7.8
Pasquotank	3	7.5
Durham	22	7.4
Orange	10	7.1
Swain	1	6.7
McDowell	3	6.6
Warren	1	4.9
Hertford	1	4.1
Chatham	1	1.4
Clay	0	0.0
Hyde	0	0.0
Tyrrell	0	0.0
North Carolina	1,498	14.9

#### NC Cities Among Top 25 U.S. - Opioid Abuse

#### NC Cities Among Top 25 Cities in the U.S. for Opioid Abuse

Trillium Catchment Cities

Rank	City	Percentage
1	Wilmington	11.60%
2	Hickory	9.90%
12	Jacksonville	8.20%
18	Fayetteville	7.90%

The Opioid Crisis in America's Workforce, April, 2016.

http://www.castlighthealth.com/pdf/Castlight-Report-Opioid-Crisis-In-Workforce-web.pdf



#### NC Cities Among Top 25 in U.S. - Prescription Abuse

### NC Cities Among Top 25 Cities in the U.S. for Percentage of Opioid Prescription Abuse

Trillium Catchment Cities Highlighted

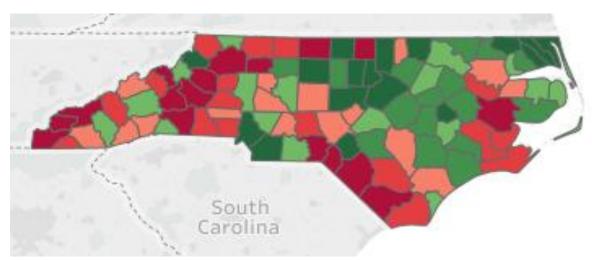
Rank	City	Percentage
4	Wilmington	53.8%
15	Fayetteville	46.5%
16	Hickory	46.1%

The Opioid Crisis in America's Workforce, April, 2016.

http://www.castlighthealth.com/pdf/Castlight-Report-Opioid-Crisis-In-Workforce-web.pdf



# **Prescription Rates**

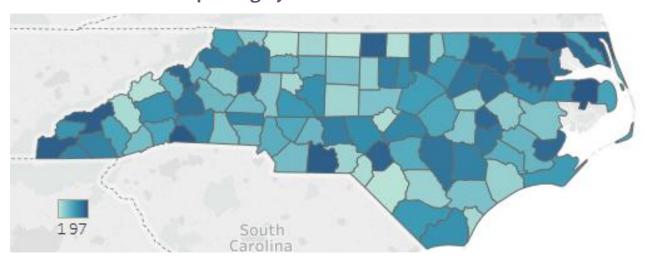


**Trillium Catchment Prescription Rates by County** 

County	Population	Pills Per Residence	Rx Per Residence	Total Pills	Total Rx
Beaufort	47,651	105.0	1.383	5,001,298	65,889
Bertie	20,199	79.1	1.092	1,597,173	22,060
Brunswick	122,765	93.1	1.333	11,432,891	163,670
Camden	10,309	52.3	0.734	539,627	7,566
Carteret	68,879	101.4	1.272	6,982,768	87,620
Chowan	14,394	64.7	0.970	931,959	13,955
Craven	103,451	92.5	1.179	9,566,265	121,967
Currituck	25,263	44.3	0.680	1,118,261	17,174
Dare	35,663	71.8	1.080	2,559,387	38,512
Gates	11,431	39.7	0.569	453,853	6,502
Hertford	24,184	57.8	0.805	1,398,890	19,466
Hyde	5,526	62.5	0.798	345,514	4,410
Jones	10,013	59.9	0.792	599,914	7,932
Martin	23,357	97.8	1.317	2,285,093	30,757
New Hanover	220,358	69.7	1.009	15,355,173	222,355
Northampton	20,426	62.5	0.844	1,276,448	17,240
Onslow	186,311	58.1	0.821	10,827,136	153,014
Pamlico	12,781	89.3	1.107	1,140,921	14,145
Pasquotank	39,829	56.9	0.912	2,265,164	36,336
Pender	57,611	79.8	1.105	4,597,058	63,672
Perquimans	13,440	57.9	0.885	777,682	11,893
Pitt	175,842	60.5	0.871	10,641,769	153,111
Tyrrell	4,070	67.5	0.882	274,623	3,588
Washington	12,385	78.5	1.071	972,566	13,262

N.C. Department of Health & Human Services, NC Controlled Substances Reporting System (CSRS). https://www.ncdhhs.gov/divisions/mhddsas/ncdcu/prescription-rates-by-county

# **NC Controlled Substances Reporting System Utilization**



Trillium NC Controlled Substances Reporting System (CSRS)
Utilization by County - 2016

County	Population	User Count	Queries	Queries per User
Beaufort	47,651	51	634	12.43
Bertie	20,199	0	188	0
Brunswick	122,765	173	2,376	13.72
Camden	10,309	0	47	0
Carteret	68,879	123	2,001	16.27
Chowan	14,394	0	155	0
Craven	103,451	203	4,212	20.75
Currituck	25,263	0	218	0
Dare	35,663	66	635	9.61
Gates	11,431	0	0	0
Hertford	24,184	0	297	0
Hyde	5,526	0	3	0
Jones	10,013	0	74	0
Martin	23,357	0	116	0
New Hanover	220,358	555	11,694	21.06
Northampton	20,426	0	161	0
Onslow	186,311	203	6,165	30.37
Pamlico	12,781	0	25	0
Pasquotank	39,829	53	1,067	20.12
Pender	57,611	59	996	16.87
Perquimans	13,440	0	16	0
Pitt	175,842	431	6,327	14.68
Tyrrell	4,070	0	0	0
Washington	12,385	0	114	0

 $\mbox{N.C.}$  Department of Health & Human Services, NC Controlled Substances Reporting System (CSRS).

https://www.ncdhhs.gov/divisions/mhddsa/ncdcu/csrs-utilization-by-county

# Northern Region

#### **Overdose Deaths**

#### Trillium Northern Region Overdose Death Comparison\*

County (County is based on county of residence of the decedent)	Medication & Drug Poisoning Deaths (Any mention of a medication and/or drug poisoning as primary cause of death - includes prescription, over-the- counter, and illicit drugs)			(Any n opioid and/o opioid cause d	Deaths* nention of ds, methal r other syr s in the m of death file eath certif	tother done, nthetic ultiple elds on	Heroin Poisoning Deaths (Any mention of heroin in the multiple cause of death fields on the death certificate)			
	2013	2014	2015	2013	2014	2015	2013	2014	2015	
Bertie	2	0	2	2	0	1	0	0	1	
Camden	0	0	4	0	0	3	0	0	1	
Chowan	6	0	3	2	0	3	0	0	1	
Currituck	0	3	5	0	1	3	0	1	2	
Gates	0	1	1	0	0	1	0	0	1	
Hertford	1	1	1	1	0	0	0	0	0	
Martin	3	2	3	1	1	1	0	0	0	
Northampton	1	2	2	1	2	0	0	0	1	
Pasquotank	4	3	3	2	2	2	1	1	1	
Perquimans	1 2 2			0	1	1	0	1	0	
Northern Region Total	18 14 26			9	7	15	1	3	8	
Trillium Catchment Total	177	193	228	100	101	143	26	31	66	
North Carolina Total	1,215	1,306	1,498	624	728	854	183	253	369	

<sup>\*</sup> Note the numbers in the categories above are not mutually exclusive. Those included in Deaths by Prescription Opioids and/or Heroin may also be included in Medication and Drug Poisoning data.

<sup>\*\*</sup>The 'Prescription Opioid' category currently includes 'other synthetic narcotics' like tramadol and fentanyl. With the rise of illicitly manufactured fentanyl, the 'Prescription Opioid' category will likely exclude 'other synthetic narcotics' in the future.

# **Overdose Deaths Percent Change**

#### Northern Region Overdose Deaths - Percentage of Change\*

County (County is based on county of residence of the decedent)	ed on county of poisoning as primary cause				15** (An opioids, reference of the manner of	n Opioid y mention of methadone, synthetic ultiple cause on the death	Heroin Poisoning Deaths (Any mention of heroin in the multiple cause of death fields on the death certificate)			
		prescription, over-the-counter, and illicit drugs)  2014			certifica	ate)				
	2014				2015	Change	2014	2015	Change	
Bertie	0	2	200.0%	0	1	100.0%	0	1	100.0%	
Camden	0	4	400.0%	0	3	300.0%	0	1	100.0%	
Chowan	0	3	300.0%	0	3	300.0%	0	1	100.0%	
Currituck	3	5	66.7%	1	3	200.0%	1	2	100.0%	
Gates	1	1	0.0%	0	1	100.0%	0	1	100.0%	
Hertford	1	1	0.0%	0	0	0.0%	0	0	0.0%	
Martin	2	3	50.0%	1	1	0.0%	0	0	0.0%	
Northampton	2	2	0.0%	2	0	-100.0%	0	1	100.0%	
Pasquotank	3	3	0.0%	2	2	0.0%	1	1	0.0%	
Perquimans	2	2	0.0%	1	1	0.0%	1	0	- 100.0%	
Northern Region Total	14	26	85.7%	7	15	114.3%	3	8	167.0%	
Trillium Catchment Total	193	228	18.1%	101	143	42.0%	31	66	113.0%	
North Carolina Total	1,306	1,498	15.0%	728	854	17.3%	253	369	46.0%	

<sup>\*</sup> Note the numbers in the categories above are not mutually exclusive. Those included in Deaths by Prescription Opioids and/or Heroin may also be included in Medication and Drug Poisoning data.

<sup>\*\*</sup>The 'Prescription Opioid' category currently includes 'other synthetic narcotics' like tramadol and fentanyl. With the rise of illicitly manufactured fentanyl, the 'Prescription Opioid' category will likely exclude 'other synthetic narcotics' in the future.

# **Central Region**

#### **Overdose Deaths**

#### Trillium Central Region Overdose Death Comparison\*

County (County is based on county of residence of the decedent)	Medication & Drug Poisoning Deaths (Any mention of a medication and/or drug poisoning as primary cause of death - includes prescription, over-the- counter, and illicit drugs)			(Any n opioid and/or opioid cause of	Deaths* nention of ds, methal r other syr s in the m death field th certifica	tother done, nthetic ultiple ds on the	Heroin Poisoning Deaths  (Any mention of heroin in the multiple cause of death fields on the death certificate)			
	2013	13 <b>2014 2015</b> 2013 <b>2014</b>					2013	2014	2015	
Beaufort	10	7	8	1	2	4	1	1	1	
Craven	17	18	28	13	9	17	1	2	5	
Dare	4	10	10 5		6	3	0	3	0	
Hyde	0	0	0	0	0	0	0	0	0	
Pamlico	2	4	4	0	3	3	0	0	1	
Pitt	18	30	17	11	17	10	2	3	4	
Tyrrell	0	1	0	0	1	0	0	0	0	
Washington	0	1 1		0	0	1	0	0	0	
Central Region Total	51 71 63			28	38	38	4	9	11	
Trillium Catchment Total	177 193 228		100	101	143	26	31	66		
North Carolina Total	1,215	1,306	1,498	624	728	854	183	253	369	

<sup>\*</sup> Note the numbers in the categories above are not mutually exclusive. Those included in Deaths by Prescription Opioids and/or Heroin may also be included in Medication and Drug Poisoning data.

<sup>\*\*</sup>The 'Prescription Opioid' category currently includes 'other synthetic narcotics' like tramadol and fentanyl. With the rise of illicitly manufactured fentanyl, the 'Prescription Opioid' category will likely exclude 'other synthetic narcotics' in the future.

# **Overdose Deaths Percent Change**

#### Central Region Overdose Deaths - Percentage of Change\*

County (County is based on county of residence of the decedent)	Medication & Drug Poisoning Deaths (Any mention of a medication and/or drug poisoning as primary cause of death; includes prescription, over-the- counter, and illicit drugs)			(An opioids other s multiple	Death y mention s, methac ynthetic ce e cause o	n Opioid IS** In of other Idone, and/or Ippioids in the If death fields Iterrificate)	Heroin Poisoning Deaths  (Any mention of heroin in the multiple cause of death fields on the death certificate)			
	2014	4 2015 Change 2014 2015 Change						2015	Change	
Beaufort	7	8	14.3%	2	4	50.0%	1	1	0.0%	
Craven	18	28	55.6%	9	17	89.0%	2	5	150.0%	
Dare	10	5	-50.0%	6	3	-50.00%	3	0	- 100.0%	
Hyde	0	0	0.0%	0	0	0.0%	0	0	0.0%	
Pamlico	4	4	0.0%	3	3	0.0%	0	1	100.0%	
Pitt	30	17	-43.3%	17	10	-41.0%	3	4	33.3%	
Tyrrell	1	0	- 100.0%	1	0	-100.0%	0	0	0.0%	
Washington	1	1	0.0%	0	1	100.0%	0	0	0.0%	
Central Region Total	71	63	-11.3%	38	38	0.0%	9	11	22.2%	
Trillium Catchment Total	193	228	18.1%	101	143	42.0%	31	66	113.0%	
North Carolina Total	1,306	1,498	15.0%	728	854	17.3%	253	369	46.0%	

<sup>\*</sup> Note the numbers in the categories above are not mutually exclusive. Those included in Deaths by Prescription Opioids and/or Heroin may also be included in Medication and Drug Poisoning data.

<sup>\*\*</sup>The 'Prescription Opioid' category currently includes 'other synthetic narcotics' like tramadol and fentanyl. With the rise of illicitly manufactured fentanyl, the 'Prescription Opioid' category will likely exclude 'other synthetic narcotics' in the future.

# Southern Region

#### **Overdose Deaths**

#### **Trillium Southern Region Overdose Death Comparison\***

County (County is based on county of residence of the decedent)	Medication & Drug Poisoning Deaths (Any mention of a medication and/or drug poisoning as primary cause of death - includes prescription, over-the- counter, and illicit drugs)			(Any r opioi and/o opioid cause of	ription ( Deaths* mention of ds, methad r other syr ls in the m death field th certifica	*  done, nthetic ultiple ds on the	Heroin Poisoning Deaths (Any mention of heroin in the multiple cause of death fields on the death certificate)			
	2013	2014	2015	2013	2014	2015	2013	2014	2015	
Brunswick	31	22	29	18	15	20	10	5	10	
Carteret	13	19	18	6	13	12	1	1	4	
Jones	0	1	3	0	0	3	0	0	0	
New Hanover	38	41	52	19	14	32	9	11	23	
Onslow	19	20	20	13	13	13	1	1	3	
Pender	7	5	17	7	1	10	0	1	7	
Southern Region Total	108	108	139	63	63 56 9		21	19	47	
Trillium Catchment Total	177	193	228	100	101	143	26	31	66	
North Carolina Total	1,215	1,306	1,498	8 624 728 854			183	253	369	

<sup>\*</sup> Note the numbers in the categories above are not mutually exclusive. Those included in Deaths by Prescription Opioids and/or Heroin may also be included in Medication and Drug Poisoning data.

<sup>\*\*</sup>The 'Prescription Opioid' category currently includes 'other synthetic narcotics' like tramadol and fentanyl. With the rise of illicitly manufactured fentanyl, the 'Prescription Opioid' category will likely exclude 'other synthetic narcotics' in the future.

# **Overdose Deaths Percent Change**

#### Southern Region Overdose Deaths - Percentage of Change\*

<b>County</b> (County is based on county of residence of the decedent)	Pois (Ar medic poisoni of presc	oning D ny mention cation and	n of a /or drug nary cause ludes ver-the-	(Any opioids other sy multiple	<b>Death</b> y mention  s, methad  ynthetic of  e cause of	n Opioid S** n of other one, and/or opioids in the f death fields certificate)	Heroin Poisoning Deaths (Any mention of heroin in the multiple cause of death fields on the death certificate)			
	2014	2015	Change	2014	2015	Change	2014	2015	Change	
Brunswick	22	29	32.0%	15	20	33.3%	5	10	100.0%	
Carteret	19	18	-5.3%	13	12	-7.7%	1	4	300.0%	
Jones	1	3	200.0%	0	3	300.0%	0	0	0.0%	
New Hanover	41	52	27.0%	14	32	129.0%	11	23	109.1%	
Onslow	20	20	0.0%	13	13	0.0%	1	3	200.0%	
Pender	5	17	240.0%	1	10	900.0%	1	7	600.0%	
Southern Region Total	108	139	29.0%	56	90	61.0%	19	47	147.3%	
Trillium Catchment Total	193	228	18.1%	101	143	42.0%	31	66	113.0%	
North Carolina Total	1,306	1,498	15.0%	728	854	17.3%	253	369	46.0%	

<sup>\*</sup> Note the numbers in the categories above are not mutually exclusive. Those included in Deaths by Prescription Opioids and/or Heroin may also be included in Medication and Drug Poisoning data.

<sup>\*\*</sup>The 'Prescription Opioid' category currently includes 'other synthetic narcotics' like tramadol and fentanyl. With the rise of illicitly manufactured fentanyl, the 'Prescription Opioid' category will likely exclude 'other synthetic narcotics' in the future.