

NC Department of Health and Human Services North Carolina Communicable Disease Data Dashboard: An Introduction

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Objectives

- The old way of displaying communicable disease data
- Why we made the switch to an interactive data dashboard
- Features of the new dashboard
- Reviews from users
- Demonstration of the dashboard

The Old Way

- Multiple static tables
- Data by county was not always available
- Data was not analyzable
- No way to visualize data

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Inductade dath (<18 years old) 1 8 2 1 2		Hepatitis C - Acute	4	159	122	202	122		

The Old Way

- Multiple static tables
- Data by county was not always available
- Data was not analyzable
- No way to visualize data

Reportabl																			per 100,000 populat									
	1991		1992		1993		1994			95	1996		1997		1998		1999						20		2003		2004	
DISEASE		INC.		INC.			CAS.			INC.	CAS.		CAS.	INC.	CAS.		CAS.	INC.		INC.	CAS.	INC.		INC.		INC.		IN
Amebiasis	16	0.24	9	0.13	11	0.16	19	0.27	8	0.11	7	0.1	10	0.13	7	0.09	NR		NR		NR		NR		NR		NR	
Anthrax																												
Blastomycosis	3	0.04	2	0.03	12	0.17	14	0.2	13	0.2	9	0.12	6	0.08	2	0.03	NR		NR		NR		NR		NR		NR	
Botulism			1	0.01									1	0.01														
Botulism infant															2	0.03	2	0.03										
Botulism other																			1	0.01								
Brucellosis	5	0.07	19	0.28	27	0.39	3	0.04	3	0.04	2	0.03	3	0.04	1	0.01			3	0.04	2	0.02	2	0.02	1	0.01		
Campylobacteriosis	557	8.26	655	9.64	738	10.69	794	11.39	705	9.84	650	8.88	529	7.11	492	6.52	544	7.1	533	6.62	480	5.86	683	8.2	839	9.97	618	1
CJD @																							1	0.01	4	0.05	1	0
Cryptosporidiosis #															5#	0.07	35	0.46	28	0.35	31	0.38	40	0.48	57	0.68	76	0
Cyclosporiasis	-															0.01		0.10		0.00		0.00		0.10		0.00	1	t c
Dengue	+		1	0.01	1	0.01			1	0.01			6	0.08		<u> </u>	1	0.01	3	0.04	2	0.02	3	0.04	2	0.04	5	
E. coli O157:H7 Infection	-		<u> </u>	0.01	- '	0.01	6*		45	0.63	47	0.64	74	0.00	186	2.47	74	0.97	93		59		244	2.93	38		158	
Endichiosis Granulocitic #	-						0		40	0.00		0.04	14	- 1	100	2.91	14	0.01	33	0.02	33	V.12	244	0.01	30	0.43	10	
Ehrlichiosis Granulocitic # Ehrlichiosis Monocytic #																<u> </u>	12	0.16	44	0.02	11	0.13	13		28	0.02	35	
	35	0.52	-	0.20	- 24	0.45	45	0.64	21	0.00	35	0.47	25	0.34	23	0.2		0.10	11	0.14	NR	0.15	NR	0.10		0.55	NR SS	
Encephalitis	30	0.32	26	0.38	31	0.40	40	0.04	21	0.29	30	0.47	20	0.34	23	0.3			NR		NK			0.40	NR			
Encephalitis, California #																	10	0.13	1	0.09	y	0.11	13	0.16	26	0.31	13	(
Encephalitis, Eastern Equ.#																			2	0.02					1	0.01		
Encephalitis, West Nile V. @@																									19		4	0
Foodborne: Clostrid. perfr.	6	0.09	2		98						1	0.01	1	0.01	2			0.61	1	0.01			1	0.01	2	0.02	4	× ۱
Foodborne: other	12	0.18	11	0.16	27	0.39	27	0.39	12	0.17	24	0.33	110	1.48	18			0.09	11	0.14	9	0.11	281	3.37	35		571	6
Foodborne: Staphyloccal	3	0.04	5	0.07	2	0.03	3	0.04	4	0.06	2	0.03	26	0.35	10			0.76	2	0.02	2	0.02	75			1.01	9	× ۱
Haemophilus Influenzae	168	2.49	64	0.94	23	0.33	32	0.46	34	0.47	26	0.36	21	0.28	24	0.32	36	0.47	23	0.29	50	0.61	33	0.4	41	0.49	62	0
Hepatitis A	163	2.42	110	1.62	94	1.36	145	2.08	111	1.55	204	2.79	211	2.84	128	1.7	167	2.18	154	1.91	242	2.96	209	2.51	126	1.5	105	1
Hepatitis B, Acute	563	8.35	431	6.34	315	4.56	291	4.17	311	4.34	337	4.6	265	3.56	243	3.22	224	2.92	256	3.18	221	2.7	233	2.79	163	1.94	182	2
Hepatitis B Carrier \$	705		755		681		652		639		713		636		606		735		636		650		896		1022		756	1
Hepatitis B Perinatal																							1	0.01	4	0.05	6	0
Hepatitis, non A-non B	114	1.69	91	1.34	80	1.16	59	0.85	64	0.89	46	0.63	51	0.69	26	0.35	NR		NR		NR		NR		NR		NR	
Hepatitis C. Acute #																	33	0.43	20	0.25	22	0.27	29	0.35		0.15	12	0
Hemol, Urem, Syn, / TTP #																	10		2	0.02		0.02	2			0.04	10	
Influenza Pediatric Death \$\$	NR	-	NR	-	NR		NR		NR		NR		NR		NR	-	NR		NR	0.02	NR	0.02	NR	v.vL	NR	0.04	1	0
Kawasaki Svndrome	20	0.3	15	0.22	8	0.12	14	0.2	14	0.2	15	0.2	8	0.11	7	0.09		-	NR		NR		NR		NR		NR	+
Legionellosis	20	0.3	48	0.22	27	0.39	28	0.2	34	0.47	12		14	0.19	14			02	16	02		0.13	13	0.16		0.5	40	1
Legrosy	21	0.4	40	0.11	- 21	0.01	20	0.4	- 34	0.91	12	0.10	14	0.01	2			0.2	NR	0.2	NR	V. 13	NR	0.10	NR 42	0.5	40 NR	–
Leprosy Leptospirosis			2	0.03		0.01	4	0.01					- ·	0.01	4	0.03	NIK 4	0.01	NK	0.01	NIX 4	0.01	NIX	<u> </u>		0.01	ININ	-
	-	<u> </u>	2	0.03		0.01	- 1	0.01					<u> </u>			0.01	 	0.01		0.01		0.01		0.40	10		00	-
Listeriosis ##		4.00		—		4.05	77		-	4.47				0.00			74	0.07	6	0.50	6		8			0.21	26	
Lyme disease	73		68		86	1.25	77	1.1	84	1.17	66		34	0.46	63		74	0.97	47	0.58	41	0.5	137	1.64	156	1.85	122	1
Malaria	15		34	0.5	145	2.1	12	0.17	20	0.28	30		21	0.28	30		36	0.47	36	0.45	19	0.23	22	0.26	25	0.3	23	
Measles	44		24		1	0.01	3	0.04			2	0.03	2	0.03	1	0.01									1	0.01	2	(
Meningococcal Disease	58		87	1.28	67	0.97	57	0.82	86	1.2	79	1.08	97	1.3	- 59	0.78	49	0.64	39	0.48	63	0.77	35			0.44	37	(
Meningitis, Pneumococcal	49		40		48	0.7			1.1	0	0				~	0		0	50	0.62	51	0.62	38	0.46	25	0.3	29	(
Meningitis, Viral	341	5.06	232	3.41	273	3.95			i, 1	\odot) 🕢		1 /		Θ)		S	NR		NR		NR		NR		NR	
Mumps	269	3.99	219	3.22	231	3.35													9	0.11	5	0.06	2	0.02	2	0.02	5	1

Why We Made the Switch

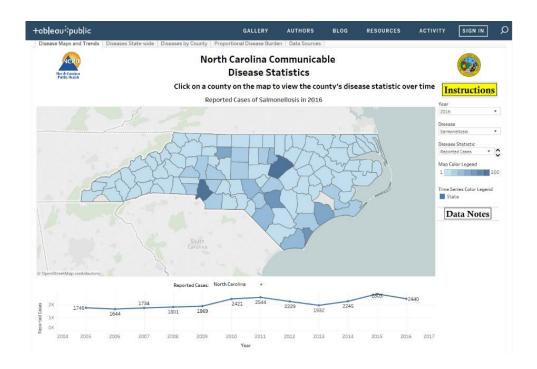
	North Carolina Electronic Disease Surveillance System
NED SES Electronic disease surveillance system	North Carolina Electronic Disease Surveillance System
<section-header><section-header><section-header><section-header></section-header></section-header></section-header></section-header>	Welcome to the North Carolina Electronic Disease Surveillance System (NC EDSS), a secure site for North Carolina healthcare workers. NC EDSS is provided by the <u>North Carolina Division of Public Health</u> , a division of the <u>North Carolina Department of Health and Human Services</u> . + User Privacy - NOTICE + Use Policy + Quick Help LOGIN Username: Password: Application: Main V Login Reset password

NC EDSS limitations

- Producing visualizations
- Data extraction
- Facilitate data requests

Features of the Data Dashboard

- · Longitudinal view of data
- Extractable data
- More meaningful
- Publicly available
- Interactive visualizations



Reviews From the Field

 "We get a lot of data requests and the time it takes to fulfill them becomes burdensome. Now that we have Tableau we direct these individuals to the website and it saves everyone time."

> -Nicole Lee, MPH State Foodborne Epidemiologist

> -Frances Vick, RN Communicable Disease Nurse

 "This is a thing of beauty! ...There is a wealth of information here, and the displays are great. I especially love love love the proportional disease burden figures! (Now that is something only a public health person would say.) I am proud of you all, and grateful that you are still doing everything you can to protect the health of everyone in my state."

> -Dr. Megan Davies, MD Former State Epidemiologist

Demonstration of the Dashboard

http://epi.publichealth.nc.gov/

Questions? Comments? Concerns?

Email us! Tableau.CDB@dhhs.nc.gov

