



NH Bureau of EMS Monthly Narcan Use Data Report

January 1st 2012 through May 31st 2016



Data Source: NH Trauma and Emergency Medical Services Information System (TEMSIS found at www.nhtemsis.org)

Requests for further information or questions can be submitted through the Bureau Helpdesk system for the timeliest response: <https://nhoodle.nh.gov> > Technology Helpdesk

FAQs and Caveats of This Data

Does the TEMSIS System reliably capture ALL NH EMS patients who received Narcan by EMS?

The data reported is based on what NH licensed EMS providers have reported into the TEMSIS system. If EMS providers administer Narcan to a patient and do not record the administration under the specific medication fields established by the National EMS Information System (NEMSIS) dataset, then that Narcan administration essentially did not occur from a state and statistical perspective. There is no realistic means to identify patients who receive Narcan when the EMS provider does not document the administration in the "Medications Given" section.

How often is this data updated?

This data is updated monthly through the end of the previous month. The updates occur approximately in the middle of the month.

What Data about Narcan Use and Overdoses is available in this report?

- Count of Narcan *Events* by EMS Provider Impression
- Count of all relevant 911 Provider Impressions for Comparison (with or without Narcan)
- Narcan *Events* by City (Reported in last 12 months and 12-24 Months)
- Count of Narcan *Events* by County
- Narcan *Event* Effectiveness (Count of "Got better" or "Didn't Change")
- Narcan *Dose* administration by Provider Level (may be multiple doses per event/patient)

Are these numbers Narcan Doses or Unique Patient encounters?

>The following data is expressed in *Unique Patient Encounters* where one or more doses of Narcan may have been given to a patient in a single event:

- Count of Narcan Events by Provider Impression
- Count of all 911 Provider Impressions for Comparison (with or without Narcan)
- Narcan Events by City (Reported in last 12 months and 12-24 Months)
- Count of Narcan Events by County
- Narcan *Event* Effectiveness (Count of "Got better" or "Didn't Change")

>The following data is expressed in the number of *DOSES*. This is because more than one dose of Narcan may be given to a patient by different EMS providers of different levels.

- Narcan *Dose* administration by Provider Level (may be multiple doses per event/patient)

What is a "Provider Impression"?

The Provider Impression is the EMS provider's working diagnosis. The EMS provider can currently record a primary and secondary impression and all treatment is guided by the impressions that an



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EMS provider has formed for a patient. The Provider Impression list is a limited list (currently 73 options) and does not always provide as much detail as desired in broad areas such as overdose.

Is there any linkage of this EMS data to Hospital data for these patients?

No, there is currently no linkage with hospital data or Medical Examiner available.

Can this data tell me how many overdoses were definitely from opiates in general or specific opiates such as Heroin or Fentanyl?

No, for several reasons:

The EMS dataset is not designed to be any more specific than generally identifying a patient as an intentional "Overdose". Note that the Provider Impression (EMS version of a diagnosis) term is simply "Overdose". This means all types of overdoses-from aspirin to heroin.

The only definitive means to identify whether a patient has overdosed on an opiate is a laboratory test of blood or urine, which is only available in the hospital.

EMS providers must rely on the clinical presentation of the patient to decide if Narcan should be given. If EMS is lucky, there may be drug paraphernalia near the patient that provides a clue as to the type of overdose, or a bystander may be willing to tell the providers that the patient has overdosed.

The closest EMS providers can come to identifying whether an overdose was likely from an opiate was if Narcan was given and the patient got better (woke up or started breathing suddenly). Note that patient improvement is not always due to administration of Narcan, but may be the result of other concurrent treatments such as oxygen and IV fluids when the patient problem is related to other medical issues such as a stroke or low blood sugar.

Are all Cardiac arrests where Narcan was given a result of an overdose?

No. Narcan was a long-standing part of the list of medications that a patient in cardiac arrest received. The old thinking was to try several possible fixes that could reverse the cause of a cardiac arrest. Many experienced paramedics still administer Narcan as a matter of course during a cardiac arrest despite a significant de-emphasis of this treatment in a cardiac arrest by the American Heart Association, except when there is a known opiate overdose. Some of the cardiac arrests where Narcan was given were the result of opiate overdoses, but some are not. Determining which is which has proven extremely labor intensive and the results are not statistically reliable at this point.

Is each patient treated with Narcan counted as a single case for each "Event"?

Not necessarily. In some cases, the same patient may be treated by two EMS services for the same overdose event. For example, a first responder service may initially respond to an incident and administer Narcan to a patient. The transporting EMS service will then arrive shortly thereafter and need to administer additional doses to the patient. Each service is required to submit a separate report about their patient treatment, resulting in two separate reports for the same patient for the same event. Separating these cases out is difficult and not statistically reliable at this point.

What are the NH EMS Provider Levels?

Medic=Paramedic, AEMT/EMT-I= both the Advanced EMT and EMT-Intermediate Levels together, EMT=Emergency Medical Technician (formerly EMT-Basic), EMR=Emergency Medical Responder (formerly First Responder), LE=Law Enforcement Provider (NH specific level created April 2015).

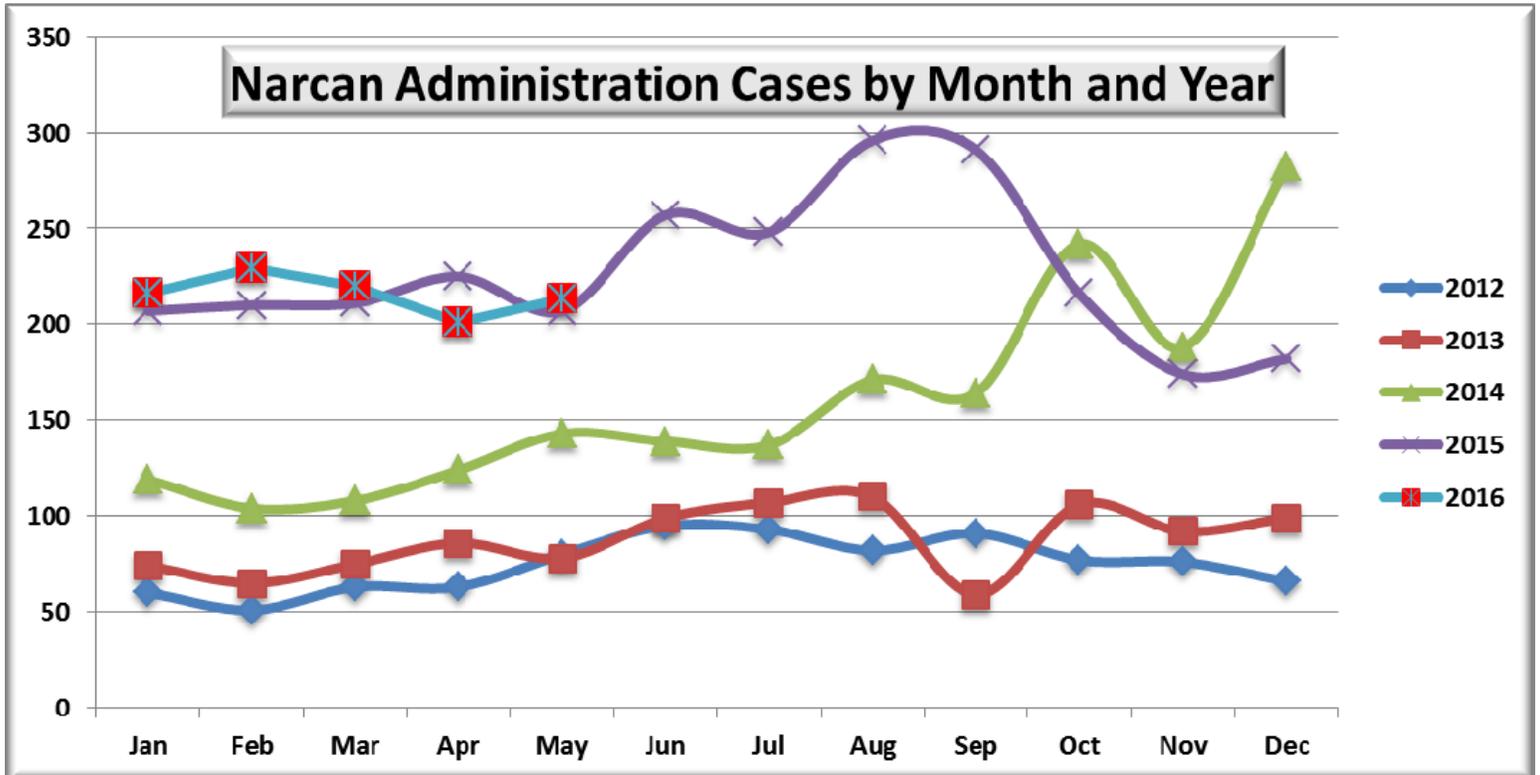


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Cases per Month	2012	2013	2014	2015	2016	Grand Total
January	60	74	119	207	216	676
February	51	65	104	210	229	659
March	63	75	108	211	220	677
April	63	86	124	225	201	699
May	80	78	143	207	213	721
June	95	99	139	257	-	590
July	93	107	137	248	-	585
August	82	110	171	296	-	659
September	91	59	164	291	-	605
October	77	106	242	216	-	641
November	76	92	188	174	-	530
December	66	99	282	182	-	629
Grand Total	897	1050	1921	2724	1079	7671



Date Range of Data Reported: 1/1/2012 through 5/31/16

Data Source: NH Trauma and Emergency Medical Services Information System (TEMSIS)



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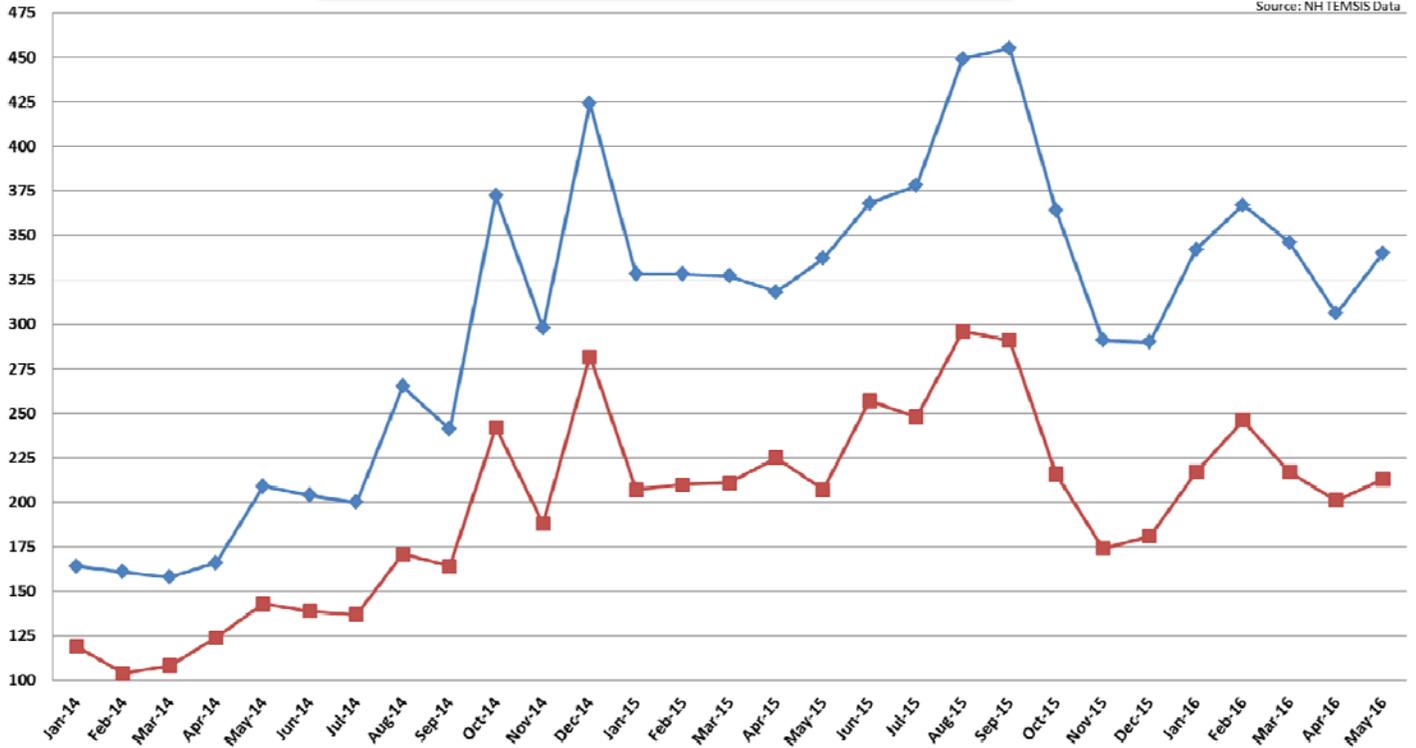
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Total EMS Narcan Doses vs. Total EMS Narcan Calls 2014-2016



Source: NH TEMSIS Data

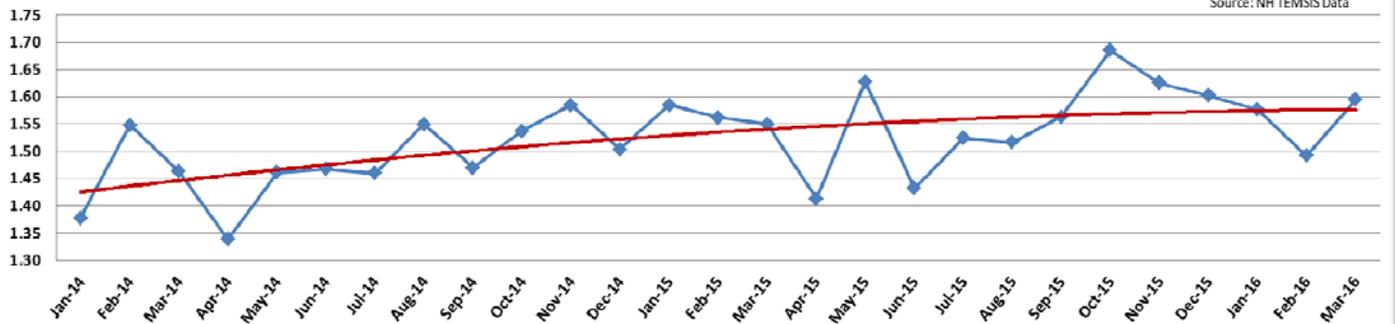


	Jan-14	Feb-14	Mar-14	Apr-14	May-14	Jun-14	Jul-14	Aug-14	Sep-14	Oct-14	Nov-14	Dec-14	Jan-15	Feb-15	Mar-15	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15	Jan-16	Feb-16	Mar-16	Apr-16	May-16
Total Doses	164	161	158	166	209	204	200	265	241	372	298	424	328	328	327	318	337	368	378	449	455	364	291	290	342	367	346	306	340
Calls	119	104	108	124	143	139	137	171	164	242	188	282	207	210	211	225	207	257	248	296	291	216	174	181	217	246	217	201	213

Average EMS Narcan Doses per Narcan Call 2014-2016



Source: NH TEMSIS Data



	Jan-14	Feb-14	Mar-14	Apr-14	May-14	Jun-14	Jul-14	Aug-14	Sep-14	Oct-14	Nov-14	Dec-14	Jan-15	Feb-15	Mar-15	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15	Jan-16	Feb-16	Mar-16
Ave Doses / Call	1.38	1.55	1.46	1.34	1.46	1.47	1.46	1.55	1.47	1.54	1.59	1.50	1.58	1.56	1.55	1.41	1.63	1.43	1.52	1.52	1.56	1.69	1.63	1.60	1.58	1.49	1.59

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Narcan DOSES By EMS													Narcan Doses Given PRIOR to EMS Arrival		Totals	
Dates	DOSES												Events			
2014	LEO	EMR	EMT	AEMT / EMT-I	Medic	Student	On-Scene Physician	Not Recorded	Other EMS	Non EMS Health Care	Family or Bystander	Unknown	Total Doses	Total Events	Ave Doses / Event	
2014		4	92	480	1558	7		640	12	1		75	2865	1921	1.5	
2015	LEO	EMR	EMT	AEMT / EMT-I	Medic	Student	On-Scene Physician	Not Recorded	Other EMS	Non EMS Health Care	Family or Bystander	Unknown	Total Doses	Total Events	Ave Doses / Event	
January			21	57	134			100	2			15	328	207	1.6	
February		2	18	47	162			86	3	1		9	328	210	1.6	
March			31	42	121			119				16	329	211	1.6	
April			24	52	125	2		98				17	318	225	1.4	
May			14	68	137			96	1			21	337	207	1.6	
June			15	61	170			97	9			16	368	257	1.4	
July			28	75	128			115	8		1	23	378	248	1.5	
August			30	70	197	2	1	110	8	1		32	449	295	1.5	
September			35	70	163		2	140	13		1	31	455	291	1.6	
October			25	88	113			92	12	1	1	32	364	216	1.7	
November			12	60	109			85	3			22	291	174	1.7	
December			28	59	111			72	1	1		19	290	181	1.6	
2015		2	281	749	1670	4	3	1210	60	4	3	253	4235	2724	1.6	
2016	LEO	EMR	EMT	AEMT / EMT-I	Medic	Student	On-Scene Physician	Not Recorded	Other EMS	Non EMS Health Care	Family or Bystander	Unknown	Total Doses	Total Events	Ave Doses / Event	
January			34	65	120			95	1	1	3	23	342	216	1.6	
February			28	105	123			79	3	1		28	367	243	1.5	
March			38	71	102			106	1	2		26	346	217	1.6	
April			30	59	93	1		70	1			52	306	201	1.5	
May		1	32	69	135			61	1		2	39	340	213	1.6	
2016	0	1	162	369	573	1	0	411	7	4	5	168	1701	1090	1.6	
Total Doses	0	7	535	1598	3801	12	3	2261	79	9	8	496	8801	5735	1.5	



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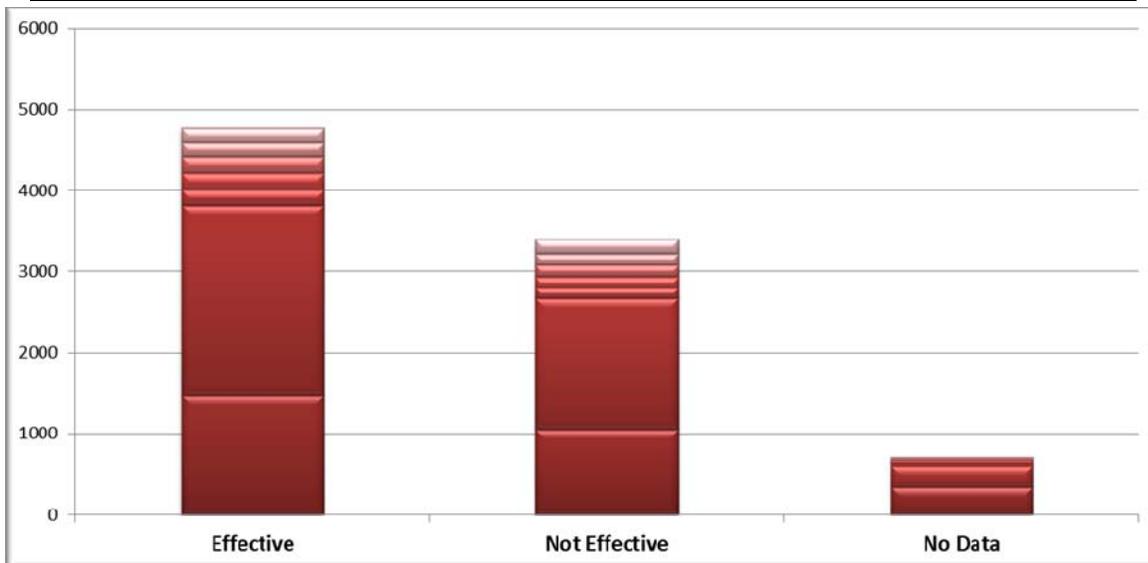
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Narcan Cases By NH County	2012	2013	2014	2015	2016					2016 Total	Total	
					Jan	Feb	Mar	Apr	May			
Counties												
Belknap	61	46	69	120	8	*	6	12	13	44	44	
Carroll	51	52	62	97	9	13	10	5	10	42	42	
Cheshire	42	34	65	77	9	24	9	7	9	62	62	
Coos	24	18	41	65	*	6	*	*	7	23	23	
Grafton	32	47	56	56	*	8	*	7	9	31	31	
Hillsborough	269	398	759	1139	107	101	102	95	87	487	487	
Merrimack	100	131	185	227	10	25	9	18	22	87	87	
Rockingham	215	180	381	487	47	43	57	35	34	206	206	
Strafford	85	132	292	421	16	18	14	19	21	89	89	
Sullivan	18	12	11	35	*	*	*	*	*	8	8	
Grand Total	897	1050	1921	2724	217	246	217	201	213	1079	7671	

***Values Suppressed for cases less than 5 due to low statistical reliability and to meet privacy rules**

Narcan Use Effectiveness	2014	2015	2016					2016 Total
			Jan	Feb	Mar	Apr	May	
Effectiveness								
Effective	1475	2349	190	198	206	168	185	962
Not Effective	1053	1618	132	129	147	142	174	738
No Data	337	268	20	43	20	19	16	118
Grand Total	2865	4235	342	370	373	329	375	1818



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N=Impressions With Narcan A=All 911 Impressions	2012		2013		2014		2015		2016 To Date		Totals	
	N	A	N	A	N	A	N	A	N	A	N	A
Provider Impressions												
Drug Overdose / Misuse of Medications	389	999	494	1258	1277	2732	2008	3346	822	1472	4990	9807
Altered Level of Consciousness	175	4570	171	3979	150	3930	160	3901	46	1500	702	17880
Unconscious	130	782	146	992	169	1171	173	1268	69	471	687	4684
Cardiac Arrest	68	1220	104	1309	160	1345	214	1557	85	619	631	6050
Respiratory Arrest or Distress	17	5526	19	5600	32	5910	59	6404	20	2721	147	26161
Poisoning / Adverse Effects of Prescribed Meds	3	1141	2	949	1	714	11	822		210	17	3836
Psychiatric / Behavioral Disorder	7	5563	4	5367	4	6517	4	6819	1	2934	20	27200
Other Illness or Injury	108		110		128		95		36		477	0
Grand Totals	897	19801	1050	19454	1921	20974	2724	16306	1079	9927	7671	86462



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***Values Suppressed for population less than 248, or cases less than 5 to meet privacy rules**

Blank fields have no cases during the reporting period

Incident City	Population	June 2014 - May 2015	June 2015- May 2016
Acworth	891	*	
Albany	735	*	
Alexandria	1613		*
Allenstown	4322	*	10
Alstead	1937		*
Alton	5250	*	5
Amherst	11201	5	5
Andover	2371	*	*
Antrim	2637	*	*
Ashland	2076	*	*
Atkinson	6751	5	*
Auburn	4953	7	7
Barnstead	4593	*	*
Barrington	8576	14	*
Bartlett	2788	5	*
Bath	1077		*
Bedford	21203	17	14
Belmont	7356	16	20
Bennington	1476		*
Berlin	10051	14	29
Bethlehem	2526		
Boscawen	3965	7	6
Bow	7519	*	*
Bradford	1650		*
Brentwood	4486	7	7
Bridgewater	1083	*	
Bristol	3054	*	*
Brookfield	712		*
Brookline	4991	*	*
Campton	3333	*	5
Canaan	3909		*
Candia	3909	*	*
Canterbury	2352	*	
Carroll	763	6	*
Center Harbor	1096	*	
Charlestown	5114		*
Chester	4768	*	*
Chesterfield	3604		*

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Incident City	Population	June 2014 - May 2015	June 2015- May 2016
Chichester	2523	*	*
Claremont	13355	*	7
Clarksville	265		*
Colebrook	2301	*	5
Concord	42695	100	93
Conway	10115	24	29
Cornish	1640		*
Dalton	979	*	*
Danbury	1164		*
Danville	4387	5	6
Deerfield	4280	6	
Deering	1912		*
Derry	33109	66	74
Dover	29987	66	90
Dublin	1597	*	*
Dunbarton	2758	*	*
Durham	14638	10	*
East Kingston	2357		*
Effingham	1465	*	5
Ellsworth	83		*
Enfield	4582	*	
Epping	6411	9	21
Epsom	4566	*	*
Exeter	14306	10	9
Farmington	6786	32	36
Fitzwilliam	2396		*
Francestown	1562	*	*
Franconia	1104	*	
Franklin	8477	22	18
Freedom	1489		*
Fremont	4283	5	7
Gilford	7126	8	8
Gilmanton	3777	*	*
Glen	813		*
Goffstown	17651	11	22
Gorham	2848	*	7
Goshen	810		*
Grafton	1340		*
Grantham	2985	*	
Greenfield	1749	*	*

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Incident City	Population	June 2014 - May 2015	June 2015- May 2016
Greenland	3549	*	*
Greenville	2105	*	*
Groveton	593		*
Hampstead	8523	*	8
Hampton	14976	43	45
Hampton Falls	2236	*	6
Hancock	1654		*
Hanover	11260	*	*
Harrisville	961		*
Haverhill	4697	9	8
Hebron	602	*	*
Henniker	4836	*	*
Hill	1089		*
Hillsboro	1089	5	9
Hinsdale	4046	*	5
Holderness	2108		*
Hollis	7684	*	*
Hooksett	13451	13	24
Hopkinton	5589	*	6
Hudson	24467	30	37
Jaffrey	5457	9	5
Jefferson	1107	*	
Keene	23409	33	48
Kensington	2124	*	*
Kingston	6025	20	15
Laconia	15951	45	57
Lancaster	3507	7	*
Lebanon	13151	7	7
Lee	4330	*	*
Lempster	1154	*	*
Lincoln	1662	*	*
Lisbon	1595	*	*
Litchfield	8271	9	5
Littleton	5928	9	7
Londonderry	24129	29	31
Loudon	5317	5	5
Lyman	533		
Lyndeborough	1683	*	*
Madbury	1771	*	*
Madison	2502	*	*

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Incident City	Population	June 2014 - May 2015	June 2015- May 2016
Manchester	109565	603	651
Marlborough	2063	*	*
Mason	1382		
Meredith	6241	7	6
Merrimack	25494	21	21
Middleton	1783	*	*
Milan	1337	*	*
Milford	15115	20	20
Millsfield	23	*	
Milton	4598	19	18
Monroe	788	*	*
Mont Vernon	2409		*
Moultonborough	4044	*	*
Nashua	86494	215	332
New Boston	5321	*	*
New Castle	968		
New Durham	2638		*
New Hampton	2165	*	5
New Ipswich	5099	*	7
New London	4397	*	*
Newbury	2072	*	*
Newfields	1680		*
Newington	753	6	*
Newmarket	8936	18	20
Newport	6507	7	8
Newton	4603	5	*
North Hampton	4301	*	5
Northfield	4829	6	*
Northumberland (Groveton)	2288	*	
Northwood	4241	10	7
Nottingham	4785	*	*
Orford	1237	*	
Ossipee	4345	19	20
Pelham	12897	17	15
Pembroke	7115	8	7
Peterborough	6284	5	5
Piermont	790		*
Pittsburg	869		*
Pittsfield	4106	9	16
Plainfield	2364		*

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Plaistow	7609	19	16
Plymouth	6990	*	*
Portsmouth	21233	41	43
Raymond	10138	19	17
Richmond	1155	*	
Rindge	6014	*	*
Rochester	29752	166	147
Rollinsford	2527		
Rumney	1480	*	*
Rye	5298	5	6
Salem	28776	51	55
Salisbury	1382	*	*
Sanbornton	2966	*	
Sandown	5986	*	10
Sandwich	1326	*	*
Seabrook	8693	29	35
Sharon	352	*	*
Shelburne	372		*
Somersworth	11766	43	59
Springfield	1311		
Stark	556	*	*
Stewartstown	1004		*
Stoddard	1232		
Strafford	3991	7	*
Stratford	746	*	
Stratham	7255	*	*
Sugar Hill	563	*	
Sullivan	677	*	*
Sunapee	3365	*	*
Sutton	1837	*	*
Swanzey	7230	8	18
Tamworth	2856	5	7
Temple	1366		
Thornton	2490	*	*
Tilton	3567	6	8
Troy	2145		*
Tuftonboro	2387	5	
Unity	1671		*
Wakefield	5078	*	14
Walpole	3734	*	*

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Incident City	Population	June 2014 - May 2015	June 2015- May 2016
Warren	904	*	*
Washington	1123		*
Waterville Valley	247		
Weare	8785	5	10
Webster	1872		*
Wentworth	911		*
Westmoreland	1874		*
Whitefield	2306	10	*
Wilton	3677	5	*
Winchester	4341	7	7
Windham	13592	12	9
Wolfeboro	6269	5	12
Woodstock	1374		*
Grand Total		2383	2743
*Values Suppressed for population less than 248, or cases less than 5 to meet privacy rules			
Blank fields have no cases during the reporting period			