



NH Bureau of EMS Monthly Narcan Use Data Report

January 1st 2012 through December 31st 2015



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).

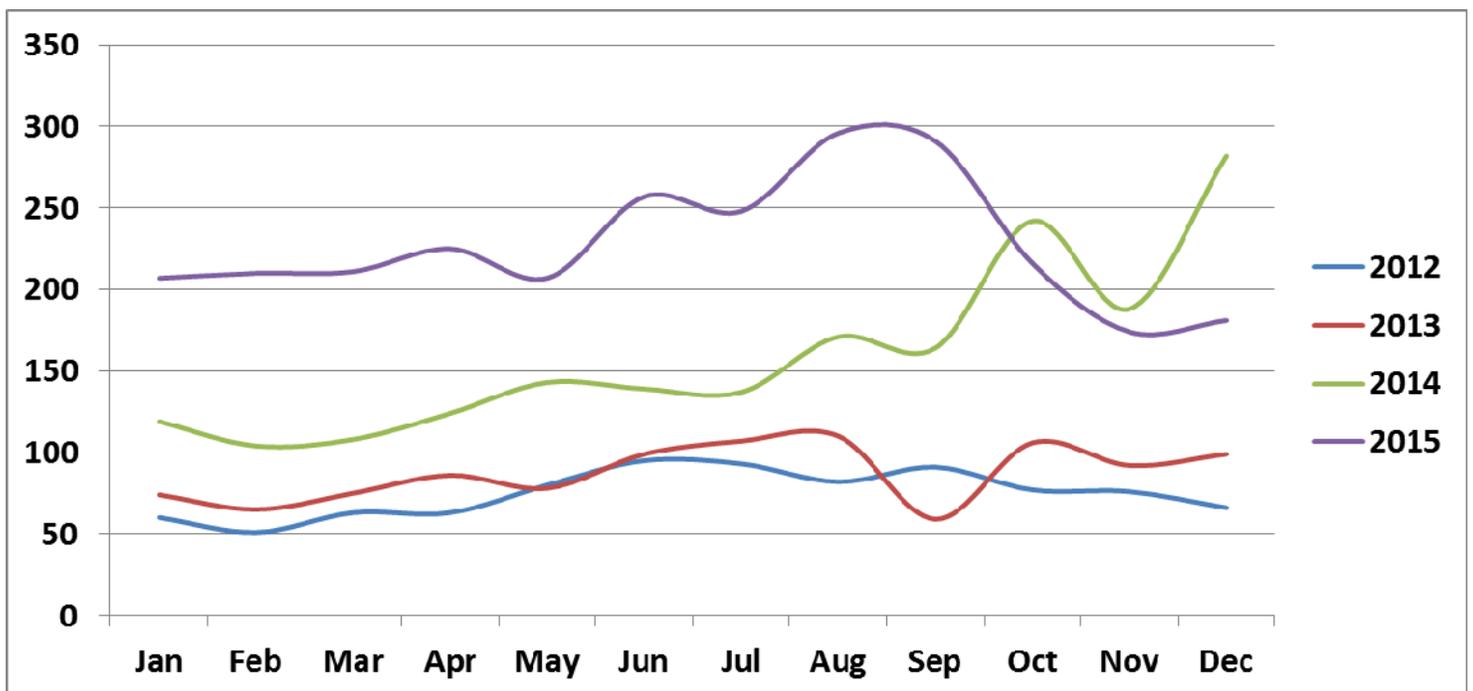


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Cases per Month	2012	2013	2014	2015	Grand Total
January	60	74	119	207	460
February	51	65	104	210	430
March	63	75	108	211	457
April	63	86	124	225	498
May	80	78	143	207	508
June	95	99	139	257	590
July	93	107	137	248	585
August	82	110	171	296	659
September	91	59	164	291	605
October	77	106	242	216	641
November	76	92	188	174	535
December	66	99	282	181	628
Grand Total	897	1050	1921	2723	6591





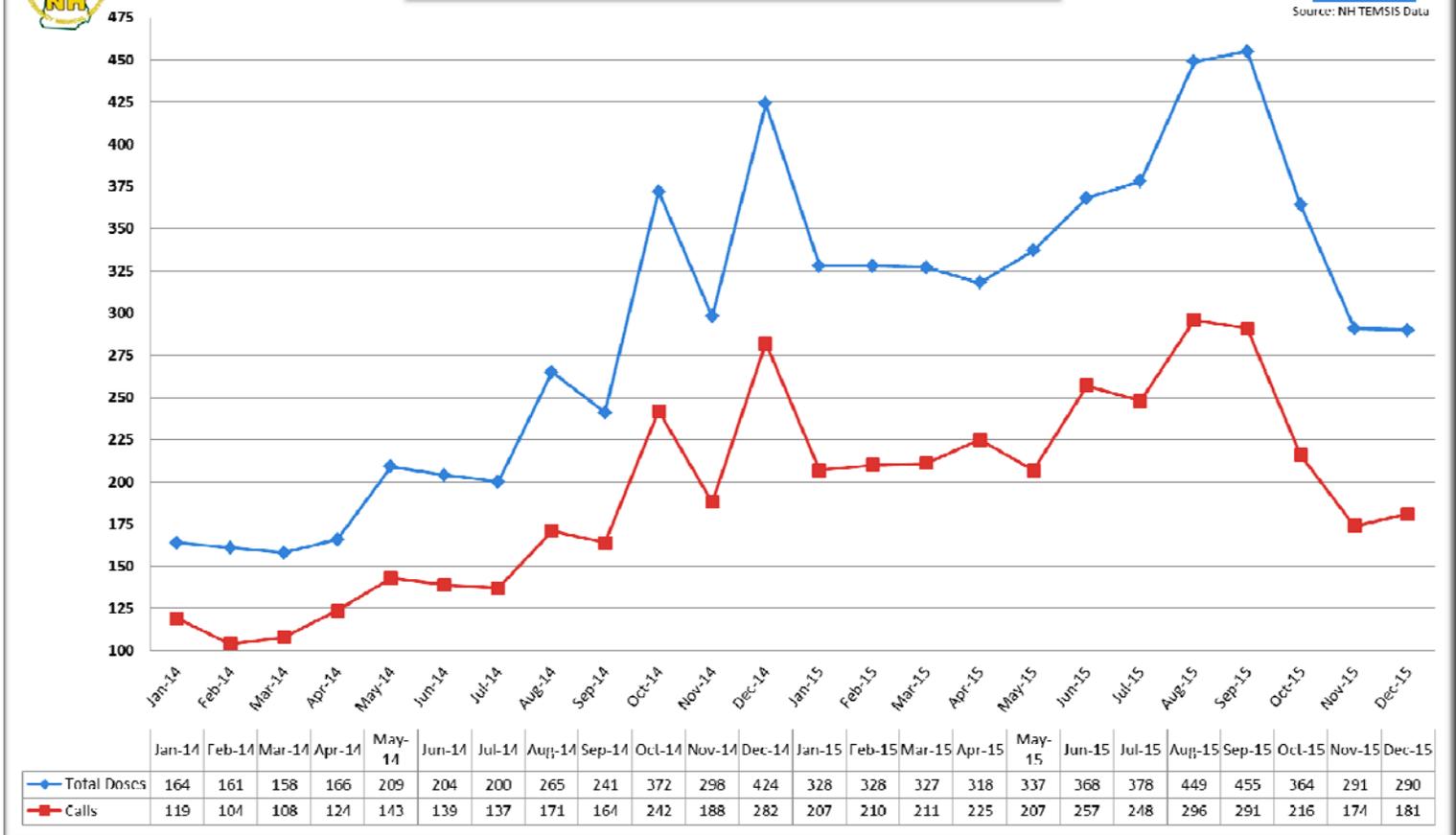
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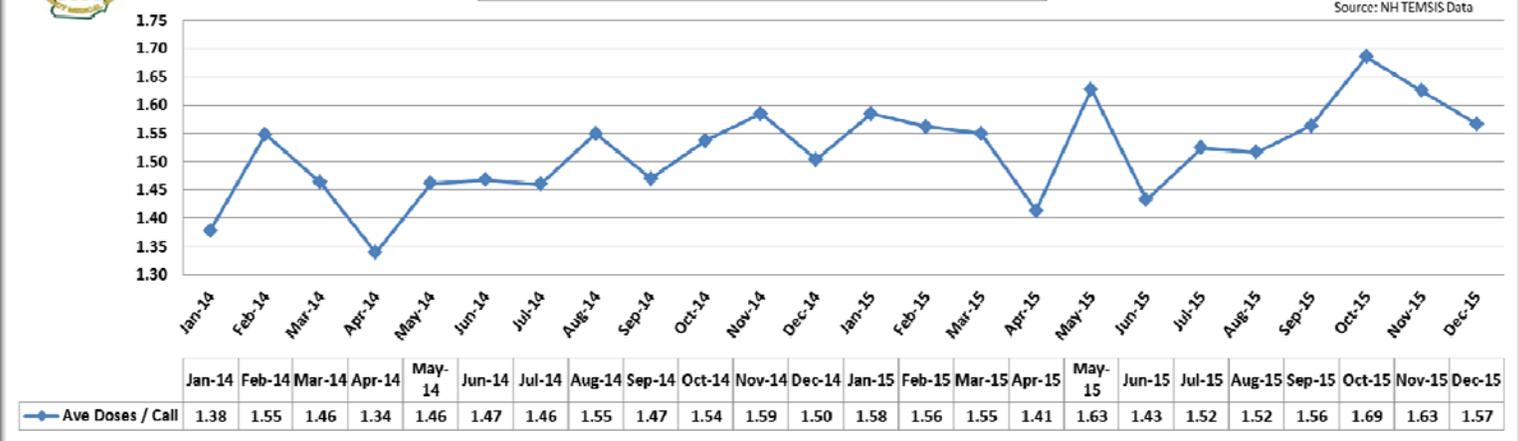
Total EMS Narcan Doses vs. Total EMS Narcan Calls 2014-2015

Source: NH TEMS Data



Average EMS Narcan Doses per Narcan Call 2014-2015

Source: NH TEMS Data



Date Range of Data Reported: 1/1/2012 through 12/31/2015

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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 Rec-orded	Other EMS	Non EMS Health Care	Family or Bystander	Unknown	Total Doses	Total Events	Ave Doses / Event		
January				33	99	2		33					167	119	1.4		
February				31	105			23				2	161	104	1.5		
March				25	99			33				1	158	108	1.5		
April				34	101			30				1	166	124	1.3		
May				44	132			31				2	209	143	1.5		
June			2	29	139			30	1			3	204	139	1.5		
July			4	34	118	2		31	2			9	200	137	1.5		
August			3	41	152			65				4	265	171	1.5		
September			8	48	125			52				8	241	164	1.5		
October		3	20	46	175	2		110	2			14	372	242	1.5		
November			28	55	125			74	3			13	298	188	1.6		
December		1	27	60	188			128	2			18	424	282	1.5		
2014 Totals		4	92	480	1558	6		640	10			75	2865	1921	1.5		
2015	LEO	EMR	EMT	AEMT / EMT-I	Medic	Student	On-Scene Physician	Not Rec-orded	Other EMS	Non EMS Health Care	Family or Bystander	Unknown	Total Doses	Total Events	Ave Doses / Event		
January			21	57	134			100	1			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		110	7	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		18	290	181	1.6		
2015 Totals		2	281	749	1670	4	2	1210	58	4	3	252	4235	2723	1.6		
Total Doses		6	373	1229	3228	10	2	1850	68	4	3	327	7100	4644	1.5		



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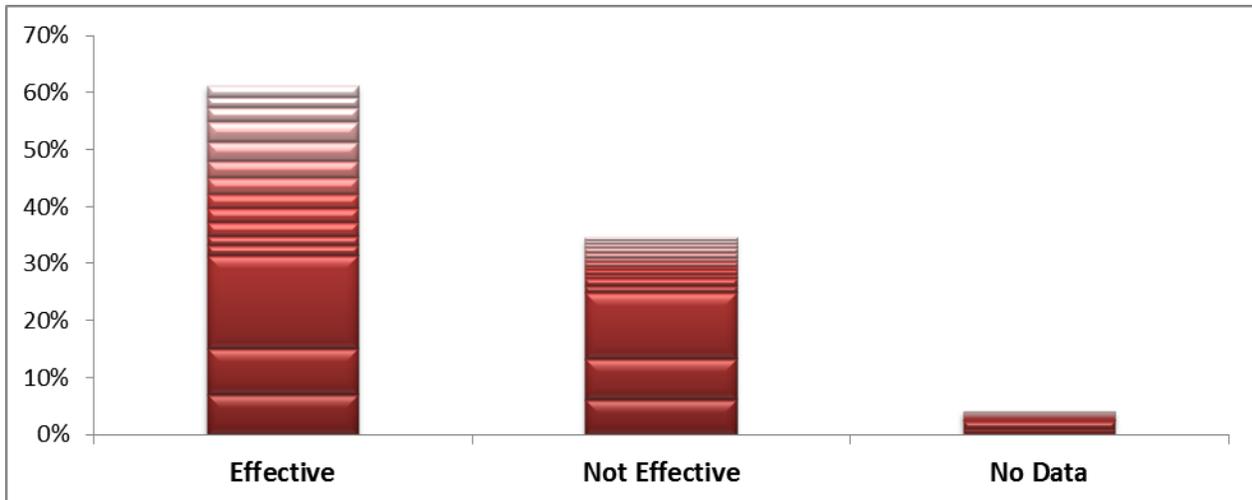
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Narcan Cases By NH County	2012	2013	2014	2015												2015 Total	Total
				Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
Belknap	61	46	69	10	13	10	6	13	16	8	8	9	8	10	9	120	296
Carroll	51	52	62	8	11	8	*	7	6	5	*	16	17	6	7	97	262
Cheshire	42	34	65	*	*	5	7	10	6	*	11	*	9	6	9	77	218
Coos	24	18	41	*	*	5	6	8	10	5	6	9	4	5	*	65	148
Grafton	32	47	56	5	6	6	*	5	*	8	*	5	*	*	5	56	191
Hillsborough	269	398	759	86	72	109	94	73	94	114	109	143	93	68	84	1139	2565
Merrimack	100	131	185	19	19	16	19	23	23	14	38	24	8	7	17	227	643
Rockingham	215	180	381	49	50	25	43	39	40	31	50	46	43	36	35	487	1263
Strafford	85	132	292	21	29	22	42	28	57	57	65	34	28	28	9	420	930
Sullivan	18	12	11	*	*	5	*	*	*	*	*	*	*	*	5	35	76
Grand Total	897	1050	1921	207	210	211	225	207	257	248	296	291	216	174	181	2723	6592

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

Narcan Use Effectiveness	2012	2013	2014	2015												2015 Total	Total
				Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
Effective	463	534	1072	122	112	159	158	164	186	196	227	226	162	120	137	1969	4038
Not Effective	412	474	757	79	91	43	54	32	56	45	58	57	44	43	40	642	2285
No Data	22	42	92	6	7	9	13	11	15	7	11	8	10	11	4	112	268
Grand Total	897	1050	1921	207	210	211	225	207	257	248	296	291	216	174	181	2723	6591





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N=Impressions With Narcan	2012		2013		2014		2015		Totals	
	N	A	N	A	N	A	N	A	N	A
A=All 911 Impressions										
Provider Impressions										
Drug Overdose / Misuse of Medications	389	999	494	1258	1277	2732	2007	3346	4167	8335
Altered Level of Consciousness	175	4570	171	3979	150	3930	160	3901	656	16380
Unconscious	130	782	146	992	169	1171	173	1268	618	4213
Cardiac Arrest	68	1220	104	1309	160	1345	214	1557	546	5431
Respiratory Arrest or Distress	17	5526	19	5600	32	5910	59	6404	127	23440
Poisoning / Adverse Effects of Prescribed Meds	3	1141	2	949	1	714	11	822	17	3626
Psychiatric / Behavioral Disorder	7	5563	4	5367	4	6517	4	6819	19	24266
Other Illness or Injury	108		110		128		95		441	0
Grand Totals	897	19801	1050	19454	1921	20974	2368	16306	6236	76535



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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	Jan 14-Dec 14	Jan 15-Dec 15
Acworth	891		*
Albany	735	*	*
Alexandria	1613		*
Allenstown	4322	5	6
Alstead	1937		
Alton	5250	*	5
Amherst	11201	*	8
Andover	2371	*	
Antrim	2637	*	5
Ashland	2076	*	5
Atkinson	6751	*	*
Auburn	4953	6	6
Barnstead	4593	5	*
Barrington	8576	12	9
Bartlett	2788	*	5
Bath	1077	*	*
Bedford	21203	13	17
Belmont	7356	14	20
Bennington	1476	*	*
Berlin	10051	14	27
Bethlehem	2526	*	
Boscawen	3965	9	*
Bow	7519	7	*
Brentwood	4486	*	9
Bridgewater	1083	*	*
Bristol	3054	*	5
Brookfield	712		*
Brookline	4991		*
Campton	3333	*	*
Canaan	3909	*	
Candia	3909	*	*
Canterbury	2352	*	*
Carroll	763	8	*
Center Harbor	1096	*	*
Charlestown	5114		*
Chester	4768	*	6
Chesterfield	3604		

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Incident City	Population	Jan 14-Dec 14	Jan 15-Dec 15
Chichester	2523	*	*
Claremont	13355	*	8
Clarksville	265		*
Colebrook	2301	*	*
Concord	42695	93	101
Conway	10115	17	25
Cornish	1640		*
Dalton	979	*	*
Danbury	1164		
Danville	4387	*	*
Deerfield	4280	5	*
Deering	1912		*
Derry	33109	60	74
Dover	29987	64	77
Dublin	1597		*
Dunbarton	2758	*	*
Durham	14638	8	*
Effingham	1465	*	6
Ellsworth	83		*
Enfield	4582	*	*
Epping	6411	*	19
Epsom	4566	*	*
Exeter	14306	10	12
Farmington	6786	27	42
Fitzwilliam	2396	*	*
Francestown	1562	*	*
Franconia	1104	*	
Franklin	8477	13	28
Freedom	1489		*
Fremont	4283	6	5
Gilford	7126	5	11
Gilmanton	3777	*	*
Goffstown	17651	9	18
Gorham	2848	*	*
Goshen	810		*
Grafton	1340		*
Grantham	2985	*	*
Greenfield	1749	*	*
Greenland	3549	*	*

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Incident City	Population	Jan 14-Dec 14	Jan 15-Dec 15
Greenville	2105	*	*
Hampstead	8523	*	8
Hampton	14976	41	47
Hampton Falls	2236	*	*
Hancock	1654	*	*
Hanover	11260	*	*
Haverhill	4697	7	6
Hebron	602	*	*
Henniker	4836	6	*
Hill	1089		*
Hillsborough	6011	5	7
Hinsdale	4046	*	*
Holderness	2108	*	*
Hollis	7684	5	*
Hooksett	13451	9	21
Hopkinton	5589	*	*
Hudson	24467	26	30
Jaffrey	5457	8	7
Jefferson	1107		*
Keene	23409	30	34
Kensington	2124	*	
Kingston	6025	19	17
Laconia	15951	28	59
Lancaster	3507	*	8
Lebanon	13151	9	5
Lee	4330	*	*
Lempster	1154		*
Lincoln	1662	*	*
Lisbon	1595	*	
Litchfield	8271	*	9
Littleton	5928	9	6
Londonderry	24129	17	36
Loudon	5317	*	5
Lyman	533		
Lyndeborough	1683	*	*
Madbury	1771	*	
Madison	2502		*
Manchester	109565	433	676
Marlborough	2063	*	*
Mason	1382	*	

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Incident City	Population	Jan 14-Dec 14	Jan 15-Dec 15
Meredith	6241	7	6
Merrimack	25494	19	20
Middleton	1783	*	*
Milan	1337	*	*
Milford	15115	17	16
Millsfield	23	*	
Milton	4598	10	27
Monroe	788	*	
Mont Vernon	2409		*
Moultonborough	4044	5	*
Nashua	86494	180	277
New Boston	5321	*	*
New Castle	968		
New Durham	2638	*	*
New Hampton	2165	*	6
New Ipswich	5099	*	5
New London	4397	*	*
Newbury	2072	*	
Newfields	1680		*
Newington	753	5	*
Newmarket	8936	9	30
Newport	6507	6	12
Newton	4603	*	*
North Hampton	4301	*	*
Northfield	4829	8	7
Northumberland (Groveton)	2288	*	*
Northwood	4241	7	10
Nottingham	4785	6	*
Orford	1237	*	
Ossipee	4345	13	19
Pelham	12897	14	16
Pembroke	7115	6	12
Peterborough	6284	6	*
Pittsburg	869		*
Pittsfield	4106	5	16
Plainfield	2364		*
Plaistow	7609	14	14
Plymouth	6990	*	*
Portsmouth	21233	36	38
Raymond	10138	13	19

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Richmond	1155	*	
Rindge	6014	*	
Rochester	29752	125	202
Rollinsford	2527		
Rumney	1480	*	*
Rye	5298	*	5
Salem	28776	55	47
Salisbury	1382		*
Sanbornton	2966	*	
Sandown	5986	*	*
Sandwich	1326	*	*
Seabrook	8693	23	40
Sharon	352	*	*
Somersworth	11766	35	50
Springfield	1311		
Stark	556		*
Stewartstown	1004		
Stoddard	1232		
Strafford	3991	*	5
Stratford	746	*	*
Stratham	7255	*	
Sugar Hill	563	*	
Sullivan	677		*
Sunapee	3365	*	*
Sutton	1837	*	
Swanzey	7230	6	12
Tamworth	2856	5	5
Temple	1366		
Thornton	2490	*	*
Tilton	3567	*	9
Troy	2145		*
Tuftonboro	2387	*	*
Unity	1671	*	
Wakefield	5078	*	8
Walpole	3734	*	*
Warner	2833		*
Warren	904	*	*
Waterville Valley	247		
Weare	8785	*	6
Webster	1872		*

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Incident City	Population	Jan14-Dec 14	Jan 15-Dec15
Wentworth	911		*
Westmoreland	1874	*	
Whitefield	2306	5	7
Wilton	3677	5	*
Winchester	4341	7	6
Windham	13592	10	11
Wolfeboro	6269	*	11
Grand Total		1921	2712

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