

Traffic Volumes

Calendar Year	Total Traffic Volumes ¹	Automobile Traffic Volumes 99.27%	Truck Traffic Volumes ² 0.73%	Volume of Business Travel (21.4% of Auto) 21.40%	Volume of Personal Travel (78.6% of Auto) 78.60%	Volume of Truck Travel (100% of Truck)
2016						
2017						
2018						
2019						
2020	1599	1587	12	340	1247	12
2021	1607	1595	12	341	1254	12
2022	1616	1604	12	343	1261	12
2023	1624	1613	12	345	1268	12
2024	1633	1621	12	347	1274	12
2025	1642	1630	12	349	1281	12
2026	1650	1638	12	351	1288	12
2027	1659	1647	12	352	1295	12
2028	1668	1656	12	354	1301	12
2029	1676	1664	12	356	1308	12
2030	1685	1673	12	358	1315	12
2031	1694	1681	12	360	1322	12
2032	1702	1690	12	362	1328	12
2033	1711	1699	12	363	1335	12
2034	1720	1707	13	365	1342	13
2035	1728	1716	13	367	1349	13
2036	1737	1724	13	369	1355	13
2037	1746	1733	13	371	1362	13
2038	1754	1741	13	373	1369	13
2039	1763	1750	13	375	1376	13
2040	1772	1759	13	376	1382	13

Implicit Price Deflators for Gross Domestic Product

Base Year	Multiplier to Adjust to Real \$2017 ¹
2009	1.1342
2010	1.1205
2011	1.0978
2012	1.0780
2013	1.0609
2014	1.0421
2015	1.0310
2016	1.0180
2017	1.0000

1. Source: Bureau of Economic Analysis, National Income and Product Accounts Table 1.1.9 "Implicit Price Deflators for Gross Domestic Product" (March 2016)

Value of Life Crash Cost by Type

Relative Disutility Factor by AIS for use with 3 or 7% discount rate				
AIS Level	Severity	Fraction of VSL	Cost (\$2016)	Cost (\$2017)
1	Minor	0.003	\$28,800	\$29,318
2	Moderate	0.047	\$451,200	\$459,322
3	Serious	0.105	\$1,008,000	\$1,026,144
4	Severe	0.266	\$2,553,600	\$2,599,565
5	Critical	0.593	\$5,692,800	\$5,795,270
6	Fatal	1	\$9,600,000	\$9,772,800

Source: Guidance on Treatment of Economic Value of a Statistical Life (VSL) in U.S. Department of Transportation Analyses - 2016 Adjustment

Kabco - AIS Data Conversion for Kabco "0" Accident (i.e. PDO)				
		Cost (\$2016)	Cost (\$2016)	Cost (\$2017)
AIS 0	0.92534	\$0	\$0	\$0
AIS 1	0.07257	\$28,800	\$2,090	\$2,128
AIS 2	0.00198	\$451,200	\$893	\$909
AIS 3	0.00008	\$1,008,000	\$81	\$82
AIS 4	0.00000	\$2,553,600	\$0	\$0
AIS 5	0.00003	\$5,692,800	\$171	\$174
AIS 6	0.00000	\$9,600,000	\$0	\$0
		Total	\$3,235	\$3,293

Source: Guidance on Treatment of Economic Value of a Statistical Life (VSL) in U.S. Department of Transportation Analyses - 2016 Adjustment

Type	Cost (\$2017)
PDO	\$4,252
Injury	\$459,322
Fatality	\$9,772,800

Source: The Economic and Societal Impact of Motor Vehicle Crashes, 2010

Observed Crashes (2013-2018) ¹	Average per year
Total	200
PDO	162
Injury	38
Fatal	1

1.) Source: Hudson Police Department for the years 2013-2018 which is the newest data available at major intersection along three major routes.

Cost of crashes per year	
Type	Cost (\$2017)
PDO	\$114,804.00
Injury	\$2,909,036.80
Fatal	\$1,628,800.00
Total per year	\$4,652,640.80

Expected Crashes per year based on % increase in traffic volume per year based on No-Build Scenario						Expected Reduction in crashes per year			
Year	Traffic Volume	% increase in traffic volume	PDO Crashes	Injury Crashes	Fatal Crashes	PDO Crashes	Injury Crashes	Fatal Crashes	Cost Savings (\$2017)
2017	368045	0	27	6.3	0.2	0	0	0	
2018	370174	0.58%	27.2	6.4	0.2	0	0	0	
2019	372303	0.57%	27.4	6.5	0.2	0	0	0	
2020	374432	0.57%	27.6	6.6	0.2	0	0	0	\$0.00
2021	376561	0.57%	27.8	6.7	0.2	0	0	0	\$0.00
2022	378690	0.56%	28	6.8	0.2	0	0	0	\$0.00
2023	380820	0.56%	28.2	6.9	0.2	0	0	0	\$0.00
2024	382949	0.56%	28.4	7.0	0.2	0	0	0	\$0.00
2025	385078	0.55%	28.6	7.1	0.2	1.9	0.5	0.1	\$1,533,238.67
2026	387207	0.55%	28.8	7.2	0.2	1.9	0.5	0.1	\$1,533,238.67
2027	389336	0.55%	29	7.3	0.2	1.9	0.5	0.1	\$1,533,238.67
2028	391465	0.54%	29.2	7.4	0.2	1.9	0.5	0.1	\$1,533,238.67
2029	393594	0.54%	29.4	7.5	0.2	1.9	0.5	0.1	\$1,533,238.67
2030	395723	0.54%	29.6	7.6	0.2	1.9	0.5	0.1	\$1,533,238.67
2031	397852	0.54%	29.8	7.7	0.2	1.9	0.5	0.1	\$1,533,238.67
2032	399981	0.53%	30	7.8	0.2	1.9	0.5	0.1	\$1,533,238.67
2033	402110	0.53%	30.2	7.9	0.2	1.9	0.5	0.1	\$1,533,238.67
2034	404239	0.53%	30.4	8.0	0.2	1.9	0.5	0.1	\$1,533,238.67
2035	406369	0.52%	30.6	8.1	0.2	1.9	0.5	0.1	\$1,533,238.67
2036	408498	0.52%	30.8	8.2	0.2	1.9	0.5	0.1	\$1,533,238.67
2037	410627	0.52%	31	8.3	0.2	1.9	0.5	0.1	\$1,533,238.67
2038	412756	0.52%	31.2	8.4	0.2	1.9	0.5	0.1	\$1,533,238.67
2039	414885	0.51%	31.4	8.5	0.2	1.9	0.5	0.1	\$1,533,238.67
2040	417014	0.51%	31.6	8.6	0.2	1.9	0.5	0.1	\$1,533,238.67
						Total			\$24,531,819

1. Reduction in crashes is directly related to the reduction in volume on the congested roads after the construction of Hudson Boulevard as the traffic will now be distributed over an additional roadway which will reduce the likelihood of crashes at the existing congested intersections. However this is not assumed to be a 1:1 relationship so the reduction has been adjusted to 2/3 ratio to account for variability in the data and type of roadway. It is anticipated that additional reductions at minor intersections and along the segments may also occur but were not quantified for this analysis. Since the likelihood of crashes is based on total VMT through the study area, the shift of the traffic to the new roadway accounts for the likelihood of crashes on the new roadway no additional calculation to account for new crashes on the new roadway are required.

Expected Crashes based on % decrease in traffic volume per year based on Build Scenario					
Year	Traffic Volume	% increase in traffic volume	PDO Crashes	Injury Crashes	Fatal Crashes
2017	368045	0%	0	0	0
2018	334719	0%	0	0	0
2019	320532	0%	0	0	0
2020	322276	0%	0	0	0
2021	324019	0%	0	0	0
2022	325763	0%	0	0	0
2023	327507	0%	0	0	0
2024	329251	0%	0	0	0
2025	330994	0.53%	25.7	6.4	0.1
2026	332738	0.52%	25.9	6.5	0.1
2027	334482	0.52%	26.1	6.6	0.1
2028	336226	0.52%	26.3	6.7	0.1
2029	337969	0.52%	26.5	6.8	0.1
2030	339713	0.51%	26.7	6.9	0.1
2031	341457	0.51%	26.9	7.0	0.1
2032	343201	0.51%	27.1	7.1	0.1
2033	344945	0.51%	27.3	7.2	0.1
2034	346688	0.50%	27.5	7.3	0.1
2035	348432	0.50%	27.7	7.4	0.1
2036	350176	0.50%	27.9	7.5	0.1
2037	351920	0.50%	28.1	7.6	0.1
2038	353663	0.49%	28.3	7.7	0.1
2039	355407	0.49%	28.5	7.8	0.1
2040	357151	0.49%	28.7	7.9	0.1

1.) Reduction in volumes based on calculations provided in Volume Calculations

Value of Travel Time (Hours)

Calendar Year	Project Year	Affected Population ¹	Total Travel Time Saved ²	Business Travel Time Saved	Personal Travel Time Saved	Truck Travel Time Saved	Value of Time Saved (\$2017)
2016							
2017							
2018							
2019							
2020	1	0	0.0	\$0	\$0	\$0	\$0
2021	2	0	0.0	\$0	\$0	\$0	\$0
2022	3	0	0.0	\$0	\$0	\$0	\$0
2023	4	0	0.0	\$0	\$0	\$0	\$0
2024	5	0	0.0	\$0	\$0	\$0	\$0
2025	6	2,277	61,680	\$395,912	\$2,027,037	\$12,468	\$2,435,417
2026	7	2,289	62,005	\$397,998	\$2,037,716	\$12,533	\$2,448,248
2027	8	2,301	62,330	\$400,084	\$2,048,395	\$12,599	\$2,461,078
2028	9	2,313	62,655	\$402,170	\$2,059,074	\$12,665	\$2,473,909
2029	10	2,325	62,980	\$404,255	\$2,069,753	\$12,730	\$2,486,739
2030	11	2,337	63,305	\$406,341	\$2,080,433	\$12,796	\$2,499,570
2031	12	2,349	63,630	\$408,427	\$2,091,112	\$12,862	\$2,512,400
2032	13	2,361	63,955	\$410,513	\$2,101,791	\$12,927	\$2,525,231
2033	14	2,373	64,280	\$412,598	\$2,112,470	\$12,993	\$2,538,061
2034	15	2,385	64,605	\$414,684	\$2,123,149	\$13,059	\$2,550,892
2035	16	2,397	64,930	\$416,770	\$2,133,828	\$13,124	\$2,563,722
2036	17	2,409	65,255	\$418,856	\$2,144,507	\$13,190	\$2,576,553
2037	18	2,421	65,580	\$420,942	\$2,155,186	\$13,256	\$2,589,383
2038	19	2,433	65,905	\$423,027	\$2,165,865	\$13,322	\$2,602,214
2039	20	2,445	66,229	\$425,113	\$2,176,544	\$13,387	\$2,615,044
2040	21	2,457	66,554	\$427,199	\$2,187,223	\$13,453	\$2,627,874
Totals			1,025,877				\$40,506,334

Notes

1. Assuming average occupancy rate of 1.39 people per passenger vehicle and 1.00 per Truck * volume of traffic du Source: Federal Highway Administration Highway Statistics 2015, Table VM1.
2. 6.5 Minute improvement in trip time based on Hudson Boulevard Traffic Analysis by Nashua Regional Planning Commission, 2018. based on average daily traffic during peak hours, accounts for 250 days of the year

Recommended Hourly Values of Travel Time Savings		
Category - Intercity Travel	Surface Modes (\$2016)	Surface Modes (\$2017)
Personal	\$27.20	\$27.69
Business	\$25.40	\$25.86
Truck	\$27.20	\$27.69

Estimated Percentage of Personal and Business Travel	
Business	21.40%
Personal	78.60%

Source: Intercity Travel All purposes - Based on "The Value of Travel Time Savings: Departmental Guidance for Conducting Economic Evaluations Revision 2 (2016 Update) - US DOT 2015 monetized to \$2017

Volumes Calculations

Street Name ¹	Volume ² 2017	Build Volume ² 2040	No-Build Volume ² 2040	Change Per Year (No-Build)	% Change Base to Build	No-Build Volume 2018	Build Volume 2018	No-Build Volume 2019	Build Volume 2019	No-Build Volume 2020	Build Volume 2020	No-Build Volume 2021	Build Volume 2021	No-Build Volume 2022	Build Volume 2022	No-Build Volume 2023	Build Volume 2023	No-Build Volume 2024	Build Volume 2024	No-Build Volume 2025	Build Volume 2025	No-Build Volume 2026	Build Volume 2026	No-Build Volume 2027	Build Volume 2027	No-Build Volume 2028
Taylor Falls Bridge	36820	38732	42833	0.0071	-9.57%	37081	49463	37343	33768	37604	34004	37866	34240	38127	34477	38389	34713	38650	34950	38911	35186	39173	35422	39434	35659	39696
Sagamore Bridge	49150	63524	56340	0.00636	12.75%	49463	55770	49775	56122	50088	56475	50400	56827	50713	57180	51026	57532	51338	57884	51651	58237	51963	58589	52276	58942	52589
NH 111 Central St.	17555	13175	19082	0.003782	-30.96%	17621	12167	17688	12212	17754	12258	17821	12304	17887	12350	17953	12396	18020	12442	18086	12487	18153	12533	18219	12579	18285
NH 111 Central St.	23140	20209	25095	0.003673	-19.47%	23225	18703	23310	18772	23395	18840	23480	18908	23565	18977	23650	19045	23735	19114	23820	19182	23905	19251	23990	19319	24075
NH 111 Burnham Rd.	13130	12036	13741	0.002023	-12.41%	13157	11524	13183	11547	13210	11571	13236	11594	13263	11617	13289	11640	13316	11664	13343	11687	13369	11710	13396	11734	13422
NH 111 Ferry St.	14560	14077	15640	0.003225	-9.99%	14607	13147	14654	13189	14701	13232	14748	13274	14795	13316	14842	13359	14889	13401	14936	13443	14983	13485	15030	13528	15077
NH 3A/102 Derry St.	26330	27324	28284	0.003227	-3.39%	26415	25518	26500	25600	26585	25683	26670	25765	26755	25847	26840	25929	26925	26011	27010	26093	27095	26175	27180	26257	27265
NH 3A/102 Derry St.	15750	16811	18008	0.006233	-6.65%	15848	14795	15946	14886	16045	14978	16143	15070	16241	15161	16339	15253	16437	15345	16535	15436	16634	15528	16732	15620	16830
NH 3A Lowell Rd.	22640	21222	23390	0.00144	-9.27%	22673	20571	22705	20601	22738	20630	22770	20660	22803	20689	22836	20719	22868	20749	22901	20778	22933	20808	22966	20837	22999
NH 3A Lowell Rd.	25400	23289	27492	0.003581	-15.29%	25491	21594	25582	21671	25673	21748	25764	21825	25855	21902	25946	21979	26037	22056	26128	22133	26219	22210	26310	22287	26401
NH 3A Lowell Rd.	39700	33939	44936	0.005734	-24.47%	39928	30156	40155	30328	40383	30500	40611	30672	40838	30844	41066	31016	41294	31188	41521	31360	41749	31532	41977	31704	42204
Library St.	9000	9392	9934	0.004512	-5.46%	9041	8547	9081	8586	9122	8624	9162	8663	9203	8701	9244	8739	9284	8778	9325	8816	9365	8854	9406	8893	9447
Speare Rd.	1830	2038	2931	0.026158	-30.47%	1878	1306	1926	1339	1974	1372	2021	1406	2069	1439	2117	1472	2165	1505	2213	1539	2261	1572	2309	1605	2357
Greeley St.	5310	5833	5850	0.004422	-0.29%	5333	5318	5357	5341	5380	5365	5404	5388	5427	5412	5451	5435	5474	5458	5498	5482	5521	5505	5545	5529	5568
Central St.	5770	3957	6293	0.003941	-37.12%	5793	3642	5815	3657	5838	3671	5861	3685	5884	3700	5906	3714	5929	3728	5952	3743	5975	3757	5997	3771	6020
Melendy Rd.	1970	2187	2595	0.013794	-15.72%	1997	1683	2024	1706	2052	1729	2079	1752	2106	1775	2133	1798	2160	1821	2187	1843	2215	1866	2242	1889	2269
Belknap Rd.	5470	5944	6548	0.008568	-9.22%	5517	5008	5564	5051	5611	5093	5657	5136	5704	5178	5751	5221	5798	5263	5845	5306	5892	5348	5939	5391	5986
County Rd.	4520	4950	5523	0.009648	-10.37%	4564	4090	4607	4129	4651	4168	4694	4207	4738	4246	4782	4286	4825	4325	4869	4364	4912	4403	4956	4442	5000
Kimball Hill Rd.	4960	4194	5448	0.004278	-23.02%	4981	3835	5002	3851	5024	3867	5045	3884	5066	3900	5087	3916	5109	3933	5130	3949	5151	3965	5172	3982	5193
Kimball Hill Rd.	8200	8488	9278	0.005716	-8.51%	8247	7545	8294	7588	8341	7630	8387	7673	8434	7716	8481	7759	8528	7802	8575	7845	8622	7888	8669	7931	8716
Bush Hill Rd.	5470	2201	6040	0.004531	-63.56%	5495	2002	5520	2011	5544	2020	5569	2029	5594	2038	5619	2047	5643	2057	5668	2066	5693	2075	5718	2084	5743
Bush Hill Rd.	6760	3340	8335	0.01013	-59.93%	6828	2736	6897	2764	6965	2791	7034	2819	7102	2846	7171	2874	7239	2901	7308	2928	7376	2956	7445	2983	7513
Bush Hill Rd.	1280	1164	2073	0.026936	-43.85%	1314	738	1349	757	1383	777	1418	796	1452	816	1487	835	1521	854	1556	874	1590	893	1625	912	1659
Pelham Rd.	2150	2269	2934	0.015854	-22.67%	2184	1689	2218	1715	2252	1742	2286	1768	2320	1795	2355	1821	2389	1847	2423	1874	2457	1900	2491	1926	2525
Burns Hill Rd.	2780	4126	3109	0.005145	32.71%	2794	3708	2809	3727	2823	3746	2837	3765	2852	3784	2866	3803	2880	3822	2894	3841	2909	3860	2923	3879	2937
Wason Rd.	9330	6576	13875	0.02118	-52.61%	9528	4516	9725	4609	9923	4703	10120	4797	10318	4890	10516	4984	10713	5078	10911	5171	11108	5265	11306	5358	11504
Wason Rd.	9070	6154	11407	0.011203	-46.05%	9172	4948	9273	5003	9375	5058	9476	5112	9578	5167	9680	5222	9781	5277	9883	5332	9984	5387	10086	5441	10188
Total	368045	357151	417014	--	--	370174	334719	372303	320532	374432	322276	376561	324019	378690	325763	380820	327507	382949	329251	385078	330994	387207	332738	389336	334482	391465

- Street names that are repeated are due to the street being broken up into different segments. Please refer to the NRPC Hudson Boulevard Traffic Analysis to see Street segments.
- Volumes from NRPC Traffic Analysis.
- Volumes Calculated in spreadsheet.

Build Scenario Volume Hudson Boulevard																					
Hudson Boulevard	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
NH 3A to Musquash Rd.	21314	21429	21544	21659	21775	21890	22005	22121	22236	22351	22467	22582	22697	22813	22928	23043	23159	23274	23389	23505	23620
Musquash Rd. to Bush Hill Rd.	19617	19723	19829	19936	20042	20148	20254	20360	20466	20572	20679	20785	20891	20997	21103	21209	21315	21422	21528	21634	21740
Bush Hill Rd. to Kimball Hill Rd.	18390	18489	18589	18688	18788	18887	18987	19086	19186	19285	19385	19484	19584	19683	19783	19882	19982	20081	20181	20280	20380
Kimball Hill Rd. to NH 111	11726	11789	11853	11916	11980	12043	12107	12170	12234	12297	12361	12424	12487	12551	12614	12678	12741	12805	12868	12932	12995
Avg.	17762	17858	17954	18050	18146	18242	18338	18434	18530	18627	18723	18819	18915	19011	19107	19203	19299	19395	19492	19588	19684

Build Volume 2028	No-Build Volume 2029	Build Volume 2029	No-Build Volume 2030	Build Volume 2030	No-Build Volume 2031	Build Volume 2031	No-Build Volume 2032	Build Volume 2032	No-Build Volume 2033	Build Volume 2033	No-Build Volume 2034	Build Volume 2034	No-Build Volume 2035	Build Volume 2035	No-Build Volume 2036	Build Volume 2036	No-Build Volume 2037	Build Volume 2037	No-Build Volume 2038	Build Volume 2038	No-Build Volume 2039	Build Volume 2039	No-Build Volume 2040	Build Volume 2040
35895	39957	36132	40219	36368	40480	36604	40742	36841	41003	37077	41264	37314	41526	37550	41787	37786	42049	38023	42310	38259	42572	38496	42833	38732
59294	52901	59647	53214	59999	53527	60352	53839	60704	54152	61057	54464	61409	54777	61762	55090	62114	55402	62467	55715	62819	56027	63172	56340	63524
12625	18352	12671	18418	12717	18484	12762	18551	12808	18617	12854	18684	12900	18750	12946	18816	12992	18883	13037	18949	13083	19016	13129	19082	13175
19388	24160	19456	24245	19524	24330	19593	24415	19661	24500	19730	24585	19798	24670	19867	24755	19935	24840	20004	24925	20072	25010	20141	25095	20209
11757	13449	11780	13475	11803	13502	11827	13528	11850	13555	11873	13582	11896	13608	11920	13635	11943	13661	11966	13688	11989	13714	12013	13741	12036
13570	15123	13612	15170	13654	15217	13697	15264	13739	15311	13781	15358	13823	15405	13866	15452	13908	15499	13950	15546	13992	15593	14035	15640	14077
26339	27349	26421	27434	26503	27519	26585	27604	26667	27689	26749	27774	26832	27859	26914	27944	26996	28029	27078	28114	27160	28199	27242	28284	27324
15711	16928	15803	17026	15895	17124	15986	17223	16078	17321	16169	17419	16261	17517	16353	17615	16444	17713	16536	17812	16628	17910	16719	18008	16811
20867	23031	20897	23064	20926	23097	20956	23129	20985	23162	21015	23194	21044	23227	21074	23260	21104	23292	21133	23325	21163	23357	21192	23390	21222
22364	26491	22441	26582	22518	26673	22596	26764	22673	26855	22750	26946	22827	27037	22904	27128	22981	27219	23058	27310	23135	27401	23212	27492	23289
31876	42432	32048	42659	32220	42887	32392	43115	32563	43342	32735	43570	32907	43798	33079	44025	33251	44253	33423	44481	33595	44708	33767	44936	33939
8931	9487	8970	9528	9008	9569	9046	9609	9085	9650	9123	9690	9162	9731	9200	9772	9238	9812	9277	9853	9315	9893	9354	9934	9392
1639	2404	1672	2452	1705	2500	1738	2548	1772	2596	1805	2644	1838	2692	1872	2740	1905	2787	1938	2835	1971	2883	2005	2931	2038
5552	5592	5575	5615	5599	5639	5622	5662	5646	5686	5669	5709	5693	5733	5716	5756	5739	5780	5763	5803	5786	5827	5810	5850	5833
3785	6043	3800	6066	3814	6088	3828	6111	3843	6134	3857	6157	3871	6179	3886	6202	3900	6225	3914	6248	3928	6270	3943	6293	3957
1912	2296	1935	2323	1958	2350	1981	2378	2004	2405	2027	2432	2050	2459	2072	2486	2095	2513	2118	2541	2141	2568	2164	2595	2187
5433	6032	5476	6079	5519	6126	5561	6173	5604	6220	5646	6267	5689	6314	5731	6361	5774	6407	5816	6454	5859	6501	5901	6548	5944
4481	5043	4520	5087	4559	5131	4598	5174	4637	5218	4676	5261	4715	5305	4755	5349	4794	5392	4833	5436	4872	5479	4911	5523	4950
3998	5215	4014	5236	4031	5257	4047	5278	4063	5299	4080	5321	4096	5342	4112	5363	4129	5384	4145	5406	4161	5427	4178	5448	4194
7973	8762	8016	8809	8059	8856	8102	8903	8145	8950	8188	8997	8231	9044	8274	9091	8316	9137	8359	9184	8402	9231	8445	9278	8488
2093	5767	2102	5792	2111	5817	2120	5842	2129	5867	2138	5891	2147	5916	2156	5941	2165	5966	2174	5990	2183	6015	2192	6040	2201
3011	7582	3038	7650	3066	7719	3093	7787	3120	7856	3148	7924	3175	7993	3203	8061	3230	8130	3258	8198	3285	8267	3313	8335	3340
932	1694	951	1728	970	1763	990	1797	1009	1832	1028	1866	1048	1901	1067	1935	1087	1970	1106	2004	1125	2039	1145	2073	1164
1953	2559	1979	2593	2005	2627	2032	2661	2058	2695	2084	2729	2111	2764	2137	2798	2164	2832	2190	2866	2216	2900	2243	2934	2269
3898	2952	3917	2966	3936	2980	3955	2995	3974	3009	3993	3023	4012	3037	4031	3052	4050	3066	4069	3080	4088	3095	4107	3109	4126
5452	11701	5546	11899	5639	12097	5733	12294	5827	12492	5920	12689	6014	12887	6108	13085	6201	13282	6295	13480	6389	13677	6482	13875	6576
5496	10289	5551	10391	5606	10493	5661	10594	5715	10696	5770	10797	5825	10899	5880	11001	5935	11102	5990	11204	6044	11305	6099	11407	6154
336226	393594	337969	395723	339713	397852	341457	399981	343201	402110	344945	404239	346688	406369	348432	408498	350176	410627	351920	412756	353663	414885	355407	417014	357151