White Paper

Taxes Lost due to Suicide in Japan 1998-2020

August 10th 2022

(updated)

日本語訳付き

Researcher: Christopher Earnshaw PhD Waseda University School of Social Sciences

Contents

Taxes Lost due to Suicide in Japan – 1998-2020
Suicide numbers by age group in Japan 1998-20204
Notes to suicide numbers by age group 1998-20205
Government tax revenues lost to suicide 1998-20206
Notes to government tax revenues lost to suicide 1998-20208
Microcosm cohort 1998/2021 analysis9
Suicide Prevention in Japan - Background data10
Final Calculations of Taxes lost to the Japanese government $\dots 11$
Multi-cohort study of compounded tax losses

Taxes Lost due to Suicide in Japan – 1998-2020 Executive Summary

- When a suicide dies he/she no longer pays taxes. The lost taxes are especially large in the case of young people's deaths. This study calculates the lost revenue to the Japanese government 1998-2020.
- Over the 23-year period of the study, the cumulative loss to the Japanese government due to suicide was approx. ¥ 7tr (\$53bn).
- Government data on suicide numbers are not consistent.
- The government has still not been able to introduce an easy-toremember single phone number for a nationwide helpline. The USA uses a 3-digit number 988 similar to the number for an ambulance.
- The 660,000 people who took their own lives over the study period exceed the total population of Funabashi city.
- On the positive side, the government action of involving prefectures in suicide prevention programs seems to be successful.
- The fact that children and youths under 20-years old still die in the hundreds every year (778 in 2020) is a regrettable situation.
- Life Management NPO suggests introducing a textbook discussing suicide and the signs of suicide into the junior-high school Social Science curriculum.

Researcher: Christopher Earnshaw PhD Lecturer at Waseda University School of Social Sciences earnshaw@aoni.waseda.jp



Research supported by Life Management (Suicide Prevention) NPO

http://life-management.org

Suicide numbers by age group in Japan 1998-2020 (reevaluated)

	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
Age										
0-19	725	680	603	591	507	618	594	612	628	551
20-29	3498	3504	3328	3121	3042	3379	3271	3430	3417	3326
30-39	3644	3829	3715	3651	3962	4632	4359	4629	4521	4795
40-49	5407	5415	4917	4691	4857	5467	5145	5246	5048	5128
50-59	7968	8363	8316	7952	8526	8683	7835	7586	7304	7089
60-69	5468	5286	5252	5224	4331	5529	5276	5237	5339	5710
70-79	3749	3615	3587	3549	3622	3756	3580	3544	3618	3909
80+	2355	2260	2238	2194	2238	2320	2207	2174	2226	2488
TTL	32,814		31,956	30,973	31,085	34,384	32,267	32,458		32,996
	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Age										
0-19	614	568	554	624	589	549	539	556	520	568
20-29	3456	3488	3255	3319	3013	2810	2691	2361	2242	2217
30-39	4880	4824	4621	4480	3802	3721	3424	3099	2833	2705
40-49	5005	5296	5194	5082	4640	4607	4246	4098	3750	3676
50-59	6410	6538	5998	5414	4701	4509	4198	4008	3642	3601
60-69	5770	5993	5937	5576	4000	4734	4337	4002	3637	3347
70-79	3717	3691	3690	3702	3675	3795	3515	3463	2992	2932
80+	2371	2415	2410	2438	2419	2538	2461	2467	2268	2260
TTL	32,223	32,813	31,659	30,635	26,839	27,263	25,411	24,054		21,306
	2018	2019	2020	23yr TTL	%age					
Age										
0-19	600	660	778	13,828	2.1%					
20-29	2156	2121	2525	68,970	10.4%					
30-39	2603	2532	2616	87,877	13.3%					
40-49	3506	3434	3576	-	16.3%					
50-59	3583	3443			21.1%					
60-69	3087	2910	2803	108,785	16.5%					
70-79	3004	2923	3032	80,660	12.2%					
80+	2294	2138	2309	53,488	8.1%					
TTL	20,833			660,139						
	,		,	,						

Suicide data Refs:

https://www8.cao.go.jp/jisatsutaisaku/toukei/h20.html https://www.npa.go.jp/safetylife/seianki/jisatsu/H19/H19_jisatunogaiyou.pdf https://nsearch.cao.go.jp/cao/search.x?page=1&ie=utf8&ref=www.cao.go.jp https://www.mhlw.go.jp/content/r1h-s5.pdf

Notes to suicide numbers by age group in Japan 1998-2020 (reevaluated)

1. Data sources are not compatible. The National Police Agency (NPA) data does not include figures for youths 0-19 or suicides aged 60 and older before 1998, secondly the data the NPA provided to the MHLW is different from that published on its own website.

2. For the missing NPA data, linear approximation was used to estimate the missing data. The data were correlated with data from CAO and MHLW to find more reliable numbers. The difference between the three data sets was as many as 1,000 suicide victims (平成 26 年 2014). The only year that the NPA data were accurate was in 令和 2 年 2020.

3. In 1998 there was a sudden increase in suicides, as much as 35% on the year before.

Ref 1: https://hgpi.org/wp-content/uploads/Suicide%20Issue%20HGPI%

20English%20v2.pdf.

Ref 2: https://www.jstor.org/stable/24721397

4. The start year of the study was chosen as 1998 due to the sudden increase in deaths, and the end year 2020 because this was the final year for data from NPA, CAO and MHLW, which are at least two years late in producing data.

Government tax revenues lost to suicide 1998-2020

Yen/ Billions		1998	1999	2000	2001
Total tax revenue	¥	135,025	131,527	136,236	134,667
Individual Tax on income	¥	26,516	24,761	28,677	27,538
Employees Social Security (SSC)	¥	19,734	19,440	19,830	20,244
Taxes on property	¥	14,886	14,787	14,294	14,158
Taxes on production, sale, transfer, etc	¥	22,293	22,738	21,990	21,838
Taxes on use of goods and perform activities	¥	2,964	3,018	3 , 047	3,062
Total Individual tax revenue W/O suicide contrib.	¥	86,394	84,745	87,838	86,840
Percentage of total	%	64%	64%	64%	64%
Total population (000s)	\checkmark	126,400	126,631	126,843	127,149
Total suicides	\mathbf{k}	32,814	32 , 952	31,956	30,973
Suicides as % of population	%	0.026%	0.026%	0.025%	0.024%
Non-suicide population %ge	%	99.97%	99.97%	99.97%	99.98%
Total taxes INCLUDING missing suicide contrib	¥	86,416	84,767	87,860	86,861
Total taxes NOT paid by Suicides TTL	¥	22.43	22.06	22.13	21.16
Total taxes and SSC NOT paid by a Suicide (¥1)	¥	683,672	669 , 402	692,671	683,143

2002	2003	2004	2005	2006	2007	2008	2009
128,270	127,007	131,137	137,943	143,005	146,248	139,621	127,754
23,620	22,239	23,295	25,222	26,375	28,600	27,790	25,518
20,111	20,099	20,353	20,982	21,580	21,975	23,252	22,486
13,837	13,119	13,104	13,327	12,990	13,138	13,111	12,949
21,638	21,632	22,158	22,672	22,609	22,322	21,203	20,643
3,062	3,060	3,006	3,064	3,009	3,015	2,949	2,803
82,268	80,149	81,915	85,267	86,561	89,050	88,305	84,400
64%	63%	62%	62%	61%	61%	63%	66%
127,445	127,718	127,761	127,773	127,854	128,001	128,063	128,047
31,085	34,384	32,267	32,458	32,101	32,996	32,223	32,813
0.024%	0.027%	0.025%	0.025%	0.025%	0.026%	0.025%	0.026%
99.98%	99.97%	99.97%	99.97%	99.97%	99.97%	99.97%	99.97%
82,288	80,171	81,936	85,289	86,583	89,073	88,327	84,422
20.07	21.58	20.69	21.67	21.74	22.96	22.22	21.63
645,678	627,718	641,320	667,503	677,204	695,875	689,718	659,301

Refs:

Jp Population data: World Bank, https://data.worldbank.org/indicator/SP.POP.TOTL? locations=JP

Government revenue data: https://stats.oecd.org/Index.aspx?DataSetCode=REVJPN Individual tax breakdown: https://www.mof.go.jp/tax_policy/summary/condition/a01.htm Taxes per individual https://www.soumu.go.jp/main_content/000795494.pdf

132,484 135,671 139,598 146,405 156,886 163,533 164,970 171,80 24,663 24,951 25,946 28,150 29,655 30,847 30,670 32,32 23,593 24,432 25,192 25,984 27,168 28,224 29,312 30,34 12,878 13,100 12,716 12,940 13,306 13,400 13,772 14,07 21,229 21,485 21,648 22,378 27,663 30,937 30,306 32,62 2,570 2,557 2,464 2,431 2,404 2,416 2,457 2,455 84,932 86,525 87,966 91,882 100,195 105,824 106,516 111,81 64% 64% 63% 63% 64% 65% 65% 65 65 128,070 127,833 127,629 127,445 127,276 127,141 127076 126,99 31,659 30,635 26,839 27,263 25,411 24,054 21,884 21,30 0.025% 0.024% 0.021% 0.0									
24,663 24,951 25,946 28,150 29,655 30,847 30,670 32,323 23,593 24,432 25,192 25,984 27,168 28,224 29,312 30,33 12,878 13,100 12,716 12,940 13,306 13,400 13,772 14,07 21,229 21,485 21,648 22,378 27,663 30,937 30,306 32,62 2,570 2,557 2,464 2,431 2,404 2,416 2,457 2,455 84,932 86,525 87,966 91,882 100,195 105,824 106,516 111,81 64% 64% 63% 63% 64% 65% 65% 65 128,070 127,833 127,629 127,445 127,276 127,141 127076 126,99 31,659 30,635 26,839 27,263 25,411 24,054 21,884 21,300 0.025% 0.024% 0.021% 0.020% 0.019% 0.017% 0.017 99,98% 99,98% 99,98% 99,98% 99,98% 99,98		2010	2011	2012	2013	2014	2015	2016	2017
23,593 24,432 25,192 25,984 27,168 28,224 29,312 30,3 12,878 13,100 12,716 12,940 13,306 13,400 13,772 14,07 21,229 21,485 21,648 22,378 27,663 30,937 30,306 32,62 2,570 2,557 2,464 2,431 2,404 2,416 2,457 2,45 84,932 86,525 87,966 91,882 100,195 105,824 106,516 111,81 64% 64% 63% 63% 64% 65% 65% 65 128,070 127,833 127,629 127,445 127,276 127,141 127076 126,93 31,659 30,635 26,839 27,263 25,411 24,054 21,884 21,330 0.025% 0.024% 0.021% 0.020% 0.019% 0.017% 0.017% 0.017% 0.017% 0.017% 0.017% 0.017% 0.017% 0.017% 0.017% 0.017% 0.017% 0.020% 0.019% 0.017% 0.017% 0.020%	ĺ	132,484	135,671	139,598	146,405	156,886	163,533	164,970	171,805
12,878 13,100 12,716 12,940 13,306 13,400 13,772 14,07 21,229 21,485 21,648 22,378 27,663 30,937 30,306 32,62 2,570 2,557 2,464 2,431 2,404 2,416 2,457 2,45 84,932 86,525 87,966 91,882 100,195 105,824 106,516 111,81 64% 64% 63% 63% 64% 65% 65 128,070 127,833 127,629 127,445 127,276 127,141 127076 126,93 31,659 30,635 26,839 27,263 25,411 24,054 21,884 21,300 0.025% 0.024% 0.021% 0.020% 0.019% 0.017% 0.017 99,98% 111,83 111,83		24,663	24,951	25,946	28,150	29,655	30,847	30,670	32,325
21,229 21,485 21,648 22,378 27,663 30,937 30,306 32,62 2,570 2,557 2,464 2,431 2,404 2,416 2,457 2,455 84,932 86,525 87,966 91,882 100,195 105,824 106,516 111,81 64% 64% 63% 63% 64% 65% 65% 65 128,070 127,833 127,629 127,445 127,276 127,141 127076 126,93 31,659 30,635 26,839 27,263 25,411 24,054 21,884 21,30 0.025% 0.024% 0.021% 0.020% 0.019% 0.017% 0.017 99.98% 111.8% 111.8% 117.8% 111.8% 117.8% 111.8% 117.5% 117.38% 187.4% 111.8%		23,593	24,432	25,192	25,984	27,168	28,224	29,312	30,348
2,570 2,557 2,464 2,431 2,404 2,416 2,457 2,455 84,932 86,525 87,966 91,882 100,195 105,824 106,516 111,81 64% 64% 63% 63% 64% 65% 65% 655 128,070 127,833 127,629 127,445 127,276 127,141 127076 126,93 31,659 30,635 26,839 27,263 25,411 24,054 21,884 21,30 0.025% 0.024% 0.021% 0.020% 0.019% 0.017% 0.017 99.98% 838,350 880,80 12.00 20.74 18.50 175,380 178,000 33,492 32,947 32,321 31,243 31,954		12,878	13,100	12,716	12,940	13,306	13,400	13,772	14,073
84,932 86,525 87,966 91,882 100,195 105,824 106,516 111,81 64% 64% 63% 63% 64% 65% 65% 655 128,070 127,833 127,629 127,445 127,276 127,141 127076 126,97 31,659 30,635 26,839 27,263 25,411 24,054 21,884 21,300 0.025% 0.024% 0.021% 0.021% 0.020% 0.019% 0.017% 0.017 99.98% 838,350 880,800 175,564 175,380 175,300 175,543 175,380 178,000 33,492 32,947 32,321 31,243 31,243 31,2694 2,498 2,553 2,585 112,238		21,229	21,485	21,648	22,378	27,663	30,937	30,306	32,623
64% 64% 63% 63% 64% 65% 65% 65% 128,070 127,833 127,629 127,445 127,276 127,141 127076 126,9 31,659 30,635 26,839 27,263 25,411 24,054 21,884 21,30 0.025% 0.024% 0.021% 0.021% 0.020% 0.019% 0.017% 0.017 99.98% 98.8350 880,80 663,333 677,020 689,381 721,112 787,387 832,490 838,350 880,80 175,564 175,380 178,000 33,492 32,947 32,321		2,570	2,557	2,464	2,431	2,404	2,416	2,457	2,450
128,070 127,833 127,629 127,445 127,276 127,141 127076 126,9 31,659 30,635 26,839 27,263 25,411 24,054 21,884 21,330 0.025% 0.024% 0.021% 0.020% 0.019% 0.017% 0.017 99.98% 838,350 880,80 880,80 663,333 677,020 689,381 721,112 787,387 832,490 838,350 880,80 880,80 175,564 175,380 178,000 33,492 32,947 32,321 31,243 31,943 32,694 2,498 2,553 2,585 112,238 112,937 113,719 660,139 = Total suicides over 23 yrs <td></td> <td>84,932</td> <td>86,525</td> <td>87,966</td> <td>91,882</td> <td>100,195</td> <td>105,824</td> <td>106,516</td> <td>111,818</td>		84,932	86,525	87,966	91,882	100,195	105,824	106,516	111,818
31,659 30,635 26,839 27,263 25,411 24,054 21,884 21,30 0.025% 0.024% 0.021% 0.020% 0.019% 0.017% 0.017 99.98% 838,350 880,80 663,333 677,020 689,381 721,112 787,387 832,490 838,350 880,80 175,564 175,380 178,000 33,492 32,947 32,321 31,243 31,954 32,000 14,196 14,340 14,119 30,809 31,143 32,694 2,498 2,553 2,585 112,238 112,937 113,719 660,139 = Total suicid		64%	64%	63%	63%	64%	65%	65%	65%
0.025% 0.024% 0.021% 0.021% 0.020% 0.019% 0.017% 0.017 99.98% 99.98% 99.98% 99.98% 99.98% 99.98% 99.98% 99.98 84,953 86,546 87,985 91,902 100,215 105,844 106,534 111,8 21.00 20.74 18.50 19.66 20.01 20.02 18.35 18.7 663,333 677,020 689,381 721,112 787,387 832,490 838,350 880,80 2018 2019 2020 175,564 175,380 178,000 33,492 32,947 32,321 31,243 31,954 32,000 14,196 14,340 14,119 30,809 31,143 32,694 2,498 2,553 2,585 112,238 112,937 113,719 64% 64% 64% 126,811 126,633 126,262 20,833 20,161 21,072 0.016% 0.016% 0.017% 99.98% 99.98% 99.98% 112,256 112,955 113,738 18.44 17.98 18.98		128,070	127,833	127,629	127,445	127,276	127,141	127076	126,972
99.98% 660,139 = Total suicides over 23 yrs 0.016% 0.016% 0.017% 99.98% 99.98% 99.98% 112,256 112,955 113,738 18.98 660,139 = Total suicides over 23 yrs	ĺ	31,659	30,635	26,839	27,263	25,411	24,054	21,884	21,306
84,953 86,546 87,985 91,902 100,215 105,844 106,534 111,85 21.00 20.74 18.50 19.66 20.01 20.02 18.35 18.7 663,333 677,020 689,381 721,112 787,387 832,490 838,350 880,80 663,333 677,020 689,381 721,112 787,387 832,490 838,350 880,80 105,564 175,564 175,380 178,000 33,492 32,947 32,321 31,243 31,954 32,000 14,196 14,340 14,119 30,809 31,143 32,694 2,498 2,553 2,585 112,238 112,937 113,719 660,139 = Total suicides over 23 yrs 0.016% 0.016% 0.017% 99.98% 99.98% 12,256 112,955 113,738 18.44 17.98 18.98 18.98 18.98 143.98 143.98		0.025%	0.024%	0.021%	0.021%	0.020%	0.019%	0.017%	0.017%
21.00 20.74 18.50 19.66 20.01 20.02 18.35 18.7 663,333 677,020 689,381 721,112 787,387 832,490 838,350 880,80 2018 2019 2020 175,564 175,380 178,000 33,492 32,947 32,321 31,243 31,954 32,000 14,196 14,340 14,119 30,809 31,143 32,694 2,498 2,553 2,585 112,238 112,937 113,719 64% 64% 64% 64% 64% 64% 6222 20,833 20,161 21,072 0.016% 0.016% 0.017% 99.98% 99.98% 99.98% 112,256 112,955 113,738 18.98 112,256 112,955 113,738 18.44 17.98 18.98		99.98%	99.98%	99.98%	99.98%	99.98%	99.98%	99.98%	99.98%
663,333 677,020 689,381 721,112 787,387 832,490 838,350 880,80 2018 2019 2020 175,564 175,380 178,000 33,492 32,947 32,321 31,243 31,954 32,000 14,196 14,340 14,119 30,809 31,143 32,694 2,498 2,553 2,585 112,238 112,937 113,719 64% 64% 64% 126,811 126,633 126,262 20,833 20,161 21,072 0.016% 0.016% 0.017% 99.98% 99.98% 99.98% 112,256 112,955 113,738 18.44 17.98 18.98		84 , 953	86,546	87,985	91,902	100,215	105,844	106,534	111,837
2018 2019 2020 175,564 175,380 178,000 33,492 32,947 32,321 31,243 31,954 32,000 14,196 14,340 14,119 30,809 31,143 32,694 2,498 2,553 2,585 112,238 112,937 113,719 64% 64% 64% 126,811 126,633 126,262 20,833 20,161 21,072 0.016% 0.016% 0.017% 99.98% 99.98% 99.98% 112,256 112,955 113,738 18.44 17.98 18.98		21.00	20.74	18.50	19.66	20.01	20.02	18.35	18.77
2018 2019 2020 175,564 175,380 178,000 33,492 32,947 32,321 31,243 31,954 32,000 14,196 14,340 14,119 30,809 31,143 32,694 2,498 2,553 2,585 112,238 112,937 113,719 64% 64% 64% 126,811 126,633 126,262 20,833 20,161 21,072 0.016% 0.016% 0.017% 99.98% 99.98% 99.98% 112,256 112,955 113,738 18.44 17.98 18.98									
175,564 175,380 178,000 33,492 32,947 32,321 31,243 31,954 32,000 14,196 14,340 14,119 30,809 31,143 32,694 2,498 2,553 2,585 112,238 112,937 113,719 64% 64% 64% 126,811 126,633 126,262 20,833 20,161 21,072 0.016% 0.016% 0.017% 99.98% 99.98% 99.98% 112,256 112,955 113,738 18.44 17.98 18.98		663,333	677,020	689,381	721,112	787,387	832,490	838,350	880,801
885,223 891,983 900,812			175,564 33,492 31,243 14,196 30,809 2,498 112,238 64% 126,811 20,833 0.016% 99.98% 112,256 18.44	175,380 32,947 31,954 14,340 31,143 2,553 112,937 64% 126,633 20,161 0.016% 99.98% 112,955 17.98	178,000 32,321 32,000 14,119 32,694 2,585 113,719 64% 126,262 21,072 0.017% 99.98% 113,738 18.98	660,139	= Total su	icides over	23 yrs
			885,223	891,983	900,812				

Notes to government tax revenues lost to suicide 1998-2020

Notes:

- 1. Total Tax Revenue is for individual payers, without contributions from suicides
- 2. Income tax includes prefectural and municipal inhabitants' taxes
- 3. Recurrent taxes on immovable property includes prefectural property tax, municipal property tax, City planning tax and land value tax
- 4. Taxes on financial and capital transactions includes securities transactions, Bank of Japan note issue tax, stamp revenues and property acquisition taxes
- 5. Taxes on specific goods and services includes excise duty on liquor, local gasoline tax, LPG tax, national gasoline tax, prefectural tobacco tax, municipal tobacco tax, electricity and gas tax, vehicle acquisition tax, special tobacco tax, customs and import duties, golf course utilization tax and bathing facility tax. Diesel oil tax is excluded as it is seen to be a business charge rather than an individual one.
- 6. Taxes on use of goods and perform activities includes Recurrent taxes such as Automobile tax, Light vehicle tax and Motor vehicle tonnage tax
- 7. Taxes on specific goods and services are unspecified.
- 8. Nursing Care Tax (Kaigo Hoken) introduced April 1 2000
- 9. 1997, Value Added Tax (consumption tax) was raised to 5%, in 2014 it was increased to 8%, in October of 2019 was raised to the current rate of 10%.
- 10. 2014 to 2037 additional per capita tax, 1,000 yen is imposed as a Special Reconstruction Tax.
- 11. 2020 Data for total tax revenue and Employees Social Security had to be estimated as the actual figure had not been reported as of date of publication
- 12. Average salary in Japan (2015) =¥4,140,00. Total deductions = SSC (Insurance+Pension) ¥610,920, Income Tax ¥222,000, Resident Tax ¥314,900: total taxes = ¥1,147,820 (27.7%) ref. https://japantaxcalculator.com
- 13. The reason why the per person taxes LOST pa (¥683,672 from 1998 onwards) looks low compared to the national average of taxes paid is because the number is diluted by the number of not-working youths, the elderly and that 30% of suicides are by women, many of whom are NEET status. Accounting for these results in a similar figure to the yearly one.
- 14. Total deaths 1998-2020 exceed the population of Funabashi City, which was 644,682 in 2021. Ref: https://uub.jp/rnk/cktv_j.html
- 15. Exchange rate as of 13 June 2022 (1 USD = 135.00 JPY)

Microcosm cohort 1998/2021 analysis

Populat	ion ('000)s) 1998						
0-19	20-29	30-39	40-49	50-59	60-69	70-79	80+	Total
26,867	18,991	16,343	18,166	19,443	13,027	9,208	4,446	126,491
21.2%	15.0%	12.9%	14.4%	15.4%	10.3%	7.3%	3.5%	1
Populat	ion ('000)s) 2021*	¢					
0-19	20-29	30-39	40-49	50-59	60-69	70-79	80+	Total
20,431	11,866	13,591	17,939	16,379	15,523	16,171	11,500	123,399
16.6%	9.6%	11.0%	14.5%	13.3%	12.6%	13.1%	9.3%	1
Suicides	(Individ	uals) 199	8					
0-19	20-29	30-39	40-49	50-59	60-69	70-79	80+	
725	3,498	3,644	5,407	7,968	5,468	3,749	2,355	32,814
2.2%	10.7%	11.1%	16.5%	24.3%	16.7%	11.4%	7.2%	1

*Both data for 1998 and 2021 are from the same source, but for 2021 non-Japanese citizens have been excluded - though the 2.2% makes a negligible difference.

Source: https://www.e-stat.go.jp/en/stat-search?page=1&query=Japanese%20

total%20Population%20by%20Age%20(single%20year)%202020

Notes:

The Japanese population increased 1998-2010 (increase of 1.6mn in 2020) this has now returned to 1998 levels. Youth population 0-19 have decreased 4.6% 1998/2020; at the same time, the number of elderly (70yo+) has doubled.

There is no correlation between 0-19yo suicides and their weight in the population, but as this cadre rarely pays tax, it is not important for this analysis. However other age groups/suicide percentages are compatible.

Suicide is unproportionably high in the 50-59yo group compared to its weight in the total population (24%/15%)

Per policy at Waseda University School of Social Science, ethical review and informed consent were not required because no individual level data were used and no data could be linked to any individual.

Assumption:

As the ratio of suicide to weight in the population of tax paying individuals is similar, it is reasonable to use the group of suicides as a representative cohort for the population of Japan as a whole. This cohort was used to calculate the financial data.

Suicide Prevention in Japan - Background data

- Mental health consultation phone number, times vary by prefecture 0570-064-556. In the USA "988" is the three-digit, nationwide phone number to connect directly to the 988 Suicide and Crisis Lifeline. Calling or texting 988, connects with mental health professionals.
- Suicide in Japan is 50% more than the rate of USA and 2.5 times higher than the UK. (2015 data)
- Suicide is the leading cause of death for all age groups under 35yo (except the 0-19yo age group where it ranks 2nd.) https://ova-japan.org/?page_id=7222
- To work out how many more people died 1998-2020, we modeled all deaths over the period and subtracted a baseline of expected deaths which resulted in estimated excess death rates meaning the increase in mortality above expected levels. The result is that by 2020, using the 1990-1997 parameters with a suicide rate of 18:100,000, the baseline of deaths ought to be 22,726 which is above the actual figure of 21,072. Which suggests that the government suicide prevention policy is working. https://www.thelancet.com/journals/lancet/article/PIIS0140-6736%2811%2961130-6/fulltext
- List of major items in the FY2020 Ministry of Health, Labor and Welfare budget proposal; Part 6 Community development and securing of peace of mind for living toward the realization of a community-based society: 5 Promotion of comprehensive suicide countermeasures ¥3,299,000,000 https://www.mhlw.go.jp/wp/yosan/yosan/20syokanyosan/dl/01-07.pdf
- 270 million yen was allocated to expand support systems such as SNS consultations by private organizations and telephone consultations by prefectures. 870 million yen was appropriated for support for environmental improvement such as maintenance and isolation of consultation booths. ref: Ministry of Health, Labor and Welfare, Social Affairs and Relief Bureau, General Affairs Division; Suicide Countermeasure Promotion Office; https://www.shugiin.go.jp/internet/itdb_gian.nsf/html/gian/gian_hokoku/20211102jisatsugaiyo.pdf/\$File/20211102jisatsugaiyo.pdf cf. House of Representatives Nov. 2021
- In the Cabinet Office budget for 2020, suicide is not listed. "Cabinet Office Head Office, budget request summary etc. FY2020" https://www.cao.go.jp/yosan/soshiki/r02/gaiyou_r02.pdf
- A 1996 Canadian study, each suicide cost \$850,000 (yen 91,800,000 @1996 \$/Y108) in costs to hospital and burials, and secondary issues such as work related problems. Given that the MHLW has reported that as many as 35,156 (2020) people a year attempt suicide, this is an enormous cost to society and the government. https://www.mhlw.go.jp/content/r2h-1-8.pdf. Ref: Chronic Diseases in Canada, Vol 20, No3 2000; The Public Health Agency of Canada (PHAC) The Cost of Suicide Mortality in New Brunswick, 1996 https://pubmed.ncbi.nlm.nih.gov/10455041
- Research by the Nippon Foundation shows that as many as 500,000 contemplated suicide in 2015 and the World Happiness Index (2021) ranks UK 17th, USA 19th but Japan 55th. https://worldpopulationreview.com/country-rankings/happiest-countries-in-the-world; https://www.nippon-foundation.or.jp/en/news/articles/2016/20160915-21072.html
- Ministry of Education, Culture, Sports, Science and Technology (MEXT) reported that 479 teens died by suicide in 2020 which was the highest ever recorded since 1978 (actual deaths were 778, which excludes 0-10yo children). https://ova-japan.org/?page_id=7222

Final Calculations of Taxes lost to the Japanese government 1998-2020

(see next page)

Two calculations are important to understand the problem of tax loss due to suicide: compounded growth and cohort degradation.

1) Compounded growth. A single point in time does not adequately show the total taxes lost. A man committing suicide aged fifty will not pay taxes until his planned retirement in fifteen years' time. Moreover, a youth committing suicide at 20 does not pay the next 45 years' worth of tax. So, the taxes lost in 1998 include those of suicides in 1997, 1996 and all the way back to 1955, but due to poor quality data, we started our calculations in 1965.

2) Cohort degradation. We calculated the life expectancy of the cohort, for example in 1998, 32,814 people died of suicide, the very young and very elderly do not contribute much in way of taxes. The remainder we call the Life Earning Expectancy (LEE). In the first five years, this cohort diminishes as the elderly leave the group (die), at the same time, those in the 0-20 age group enter the workforce. The result is still a large negative number. The cohorts 1965-1997 are the Inherited Tax Loss Burden (ABCD), and those in the group being studied, 1998-2020, are the New Tax Loss Burden (BDEF).

We made a statistical model to calculate the 1,215 data points. The model illustrates the decline in taxpayers in the cohort over time. In years 1-5, 80% of the cohort should have paid taxes, years 6-15 = 48%, 16-25 = 40%, 26 -35 = 24% and finally years 36-45 = 12%.

Among the variables accounted for in this calculation are changes in national population, government policy such as changes in VAT, growth of tax and SSC revenue, at the same time the decline in the cohorts are shown as the Inherited Tax Loss Burden. Many variables have not been accounted for such as unemployment and NEET status, but this is reflected in the National Tax and Social Security Income.

The lower part of the table has both a larger and older cohort, whereas the upper right of the table represents the smaller number of youth suicides, resulting in less tax loss overall. However, these suicides still represent part of the Inherited Tax Loss Burden. The cohort is in 8 age groups, which leads to uneven calculations, but the granular details are not that important as it is the scale of the problem which is important.

Assumption: retirement age is 65yo.

SUMMARY

- In total between 1998 to 2020, 7 trillion yen's worth of taxes (\$53bn) was lost to suicide.
- In 2020, though the nominal loss was ¥ 15bn (\$112mn), when the Inherited Tax Loss Burden is included, the loss was ¥ 400bn (\$3bn). (13th June 2022 exchange rate used \$/ ¥ 135)

suicide data for 1965-1997 based on MHLW ref: https://www.mhlw.go.jp/content/s2.pdf

Multi-cohort study of compounded tax losses to

Г	(1mn)	COHORT	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	200
A	1965	14,440	2,369	2,320	2,401	1,184	1,119	1,088	1,111	1,157	1,173	1,206	1,19
	1966	15,050	2,469	2,418	2,502	2,468	1,166	1,134	1,158	1,206	1,223	1,257	1,24
	1967	14,121	2,317	2,269	2,347	2,315	2,188	1,064	1,087	1,131	1,148	1,179	1,16
	1968	14,601	2,396	2,346	2,427	2,394	2,263	2,200	1,124	1,170	1,187	1,219	1,20
	1969	14,844	2,436	2,385	2,468	2,434	2,300	2,236	2,285	1,189	1,206	1,240	1,22
	1970	15,728	2,581	2,527	2,615	2,579	2,437	2,369	2,421	2,520	1,278	1,313	1,30
	1971	16,239	2,665	2,609	2,700	2,662	2,516	2,446	2,499	2,601	2,639	1,356	1,34
	1972	18,015	2,956	2,894	2,995	2,954	2,792	2,714	2,773	2,886	2,928	3,009	1,49
	1973	18,859	5,157	3,030	3,135	3,092	2,922	2,841	2,903	3,021	3,065	3,150	3,12
	1974	19,105	5,225	5,116	3,176	3,132	2,961	2,878	2,941	3,061	3,105	3,191	3,16
	1975	19,975	5,463	5,349	5,534	3,275	3,095	3,009	3,074	3,200	3,247	3,336	3,30
	1976	19,786	5,411	5,298	5,482	5,407	3,066	2,981	3,045	3,170	3,216	3,304	3,27
	1977	20,269	5,543	5,427	5,616	5,539	5,235	3,054	3,120	3,247	3,294	3,385	3,35
	1978	20,199	5,524	5,408	5,597	5,520	5,217	5,072	3,109	3,236	3,283	3,373	3,34
	1979	20,823	5,694	5,576	5,769	5,690	5,378	5,228	5,342	3,336	3,384	3,478	3,44
	1980	20,542	5,618	5,500	5,692	5,613	5,305	5,158	5,270	5,485	3,339	3,431	3,40
	1981	20,096	5,496	5,381	5,568	5,491	5,190	5,046	5,155	5,366	5,444	3,356	3,32
	1982	20,668	5,652	5,534	5,726	5,648	5,338	5,189	5,302	5,518	5,599	5,753	3,42
	1983	24,985	8,199	6,690	6,923	6,827	6,453	6,273	6,409	6,671	6,768	6,955	6,89
	1984	24,344	7,989	, 7,822	6,745	6,652	6,287	6,112	6,245	6,500	6,594	6,776	6,71
	1985	23,383	7,673	, 7,513	, 7,774	6,390	6,039	, 5,871	5,998	6,243	6,334	6,509	6,45
	1986	25,667	8,423	, 8,247	8,534	, 8,416	6,629	, 6,445	6,584	6,853	6,953	, 7,144	, 7,08
	1987	23,831	, 7,820	, 7,657	, 7,923	, 7,814	7,386	, 5,984	6,113	6,363	6,455	6,633	6,57
	1988	22,795	7,480	7,324	7,579	7,475	7,065	6,868	5,848	6,086	6,175	6,345	6,28
	1989	21,125	6,932	6,788	7,024	6,927	6,547	6,365	6,503	5,640	5,722	5,880	
	1990	20,088	6,592	6,455	6,679	6,587	6,226	6,053	6,184	6,436	5,441	5,591	5,54
	1991	19,875	6,522	6,386	6,608	6,517	6,160	5,988	6,118	6,368	6,461	5,532	5,48
	1992	20,893	6,856	6,713	6,947	6,851	6,475	6,295	6,432	6,694	6,791	6,979	5,76
	1993	20,516	11,221	6,592	6,821	6,727	6,358	6,182	6,316	6,573	6,669	6,853	6,79
	1994	20,923	11,444	11,205	6,957	6,861	6,485	6,304	6,441	6,704	6,801	6,989	6,92
	1995	21,420	11,715	11,471	11,870	7,024	6,639	6,454	6,594	6,863	6,963	7,155	7,09
	1996	22,138	12,108	11,855	12,267	12,099	6,861	6,670	6,815	7,093	7,196	7,395	7,32
в	1997	23,494	12,850	12,582	13,019	12,840	12,136	7,079	7,232	7,528	7,637	7,847	7,77
- F	1998	32,814	17,947	17,573	18,183	17,933	16,950	16,478	10,101	10,514	10,666	10,961	10,86
	1999	32,952	17,547	17,646	18,183	18,009	17,021	16,548	16,906	10,558	10,000	11,007	10,90
	2000	31,956		17,040	17,708	17,464	16,507	16,047	16,395	17,065	10,711	10,674	10,50
	2000	30,973			17,708	16,927	15,999		15,891	16,540		10,346	10,38
	2001	31,085				10,927	16,057		15,948			17,305	
	2002	34,384					10,037	17,267	17,641			19,142	
								17,207					
	2004 2005	32,267							16,555			17,963	
		32,458								17,333		18,069	
	2006	32,101									17,391	17,871	
	2007	32,996										18,369	
	2008	32,223											17,78
	2009	32,813											
	2010	31,659											
	2011	30,635											
	2012	26,839											
	2013	27,263											
	2014	25,411											
	2015	24,054											
	2016	21,884											
	2017	21,306											
	2018	20,833											
	2019	20,161											
	2020	21,072											

Έ

the Japanese government from suicide 1998-2020

1,174 1,183 1,244 1,255 1,285 1,293 1,425 1,433 1,492 1,503 3,023 1,523 3,161 3,181 3,131 3,151 3,207 3,221 3,196 3,210 3,250 3,270 3,250 3,270 3,953 3,973 6,420 3,870 6,6167 6,200 6,769 6,810 6,285 6,323 6,012 6,044 5,571 5,600 5,298 5,330 5,241 5,271 5,510 5,544 5,410 5,444 6,621 5,551 6,779 6,820 7,006 7,042 7,035 7,484 10,384 10,443 10,428 10,443 10,413 10,172 9,802 9,861 9,837 9,892 10,881 10,943	1,27 1,31 134 1,46 101 1,53 121 1,55 80 1,62 150 3,21 127 3,22 116 3,28 115 3,33 99 3,26 90 3,35 106 6,95 107 3,99 108 6,01 100 6,95 101 6,95 102 6,45 103 5,38 104 5,572 1030 5,44 1030 5,44 1030 5,44 1030 5,44 1030 5,44 1030 5,44 1030 5,44 1030 5,44 1030 5,44 1030 5,44 1030 5,44 1030 5,44 1030 5,46	78 1,301 19 1,343 64 1,490 32 1,560 52 1,580 23 1,652 15 1,637 93 3,354 82 3,342 83 3,445 38 3,399 65 3,325 58 3,420 60 4,134 56 4,028 99 3,869 51 4,247 54 6,571 73 6,286 21 5,825 40 5,539 82 5,761 58 5,761 56 5,657 66 5,770	1,361 1,405 1,559 1,632 1,653 1,729 1,712 1,754 3,496 3,604 3,555 3,478 3,577 4,324 4,213 4,047 4,421 4,124 6,575 6,093 5,794 5,733 6,026 5,918 6,035	1,403 1,486 1,534 1,702 1,782 1,805 1,887 1,870 1,915 1,909 3,935 3,882 3,798 3,906 4,721 4,600 4,419 4,850 4,503 4,308 6,653 6,327 6,260 6,580 6,462 6,590	1,571 1,622 1,800 1,884 1,909 1,995 1,977 2,025 2,018 2,080 4,104 4,015 4,129 4,992 4,864 4,672 5,128 4,672 5,128 4,761 4,554 4,554 4,554 4,554 6,689 6,618 6,957 6,832	1,634 1,812 1,897 1,922 2,010 1,991 2,039 2,032 2,095 2,067 4,043 4,158 5,027 4,898 4,705 5,164 4,795 4,586 4,250 4,042 6,665 7,006 6,880	1,904 1,993 2,019 2,111 2,091 2,142 2,135 2,201 2,171 2,124 4,369 5,282 5,146 4,943 5,426 5,038 4,819 4,466 4,246 4,201 7,361	2,003 2,029 2,122 2,102 2,153 2,146 2,212 2,135 2,195 5,308 5,172 4,968 5,453 5,063 4,843 4,488 4,268 4,223 4,439	2,045 2,138 2,118 2,170 2,162 2,229 2,199 2,151 2,212 2,674 5,211 5,006 5,495 5,102 4,880 4,522 4,300 4,255 4,473	2,159 2,139 2,191 2,183 2,251 2,221 2,270 2,234 2,701 2,632 5,055 5,549 5,152 4,928 4,567 4,343 4,297 4,517
1,285 1,293 1,425 1,433 1,492 1,503 3,023 1,523 3,161 3,181 3,121 3,151 3,207 3,221 3,196 3,211 3,250 3,271 5,210 5,541 5,510 5,541 5,510 5,541 5,411 <td>133 1,31 134 1,46 101 1,52 102 1,52 103 1,62 105 3,21 127 3,22 116 3,22 115 3,33 99 3,26 190 3,32 190 3,32 190 3,32 103 6,92 104 3,72 105 5,72 1030 5,44 1030 5,44 1030 5,44 1030 5,44 1030 5,44 1030 5,44 1030 5,44 1030 5,44 1030 5,44 1030 5,44 1030 5,44 1030 5,44 1030 5,44 1030 5,44 1030 5,44 1030 5,56</td> <td>1,343 64 1,490 32 1,560 52 1,580 23 1,652 15 1,637 93 3,354 82 3,342 83 3,445 38 3,399 65 3,325 58 3,420 60 4,134 56 4,028 99 3,869 51 4,247 54 6,571 73 6,286 21 5,825 40 5,539 82 5,481 58 5,761 56 5,657 66 5,770</td> <td>1,405 1,559 1,632 1,653 1,729 1,712 1,754 3,496 3,604 3,555 3,478 3,577 4,324 4,213 4,047 4,324 4,213 4,047 4,442 4,124 6,575 6,093 5,794 5,733 6,026 5,918 6,035</td> <td>1,534 1,702 1,782 1,805 1,877 1,915 1,909 3,935 3,882 3,798 3,906 4,721 4,600 4,721 4,600 4,419 4,850 4,503 4,308 6,653 6,327 6,260 6,580 6,580 6,462</td> <td>1,622 1,800 1,884 1,909 1,995 1,977 2,025 2,018 2,080 4,104 4,015 4,129 4,992 4,864 4,672 5,128 4,672 5,128 4,761 4,554 4,554 4,221 6,689 6,618 6,957 6,832</td> <td>1,812 1,897 1,922 2,010 1,991 2,039 2,032 2,095 2,067 4,043 4,158 5,027 4,898 4,705 5,164 4,795 4,586 4,250 4,042 6,665 7,006</td> <td>1,993 2,019 2,111 2,091 2,142 2,135 2,201 2,171 2,124 4,369 5,282 5,146 4,943 5,426 5,038 4,819 4,466 4,246 4,201 7,361</td> <td>2,029 2,122 2,102 2,153 2,146 2,212 2,182 2,135 2,195 5,308 5,172 4,968 5,453 5,453 5,063 4,843 4,488 4,268 4,223</td> <td>2,138 2,118 2,170 2,162 2,229 2,199 2,151 2,212 2,674 5,211 5,006 5,495 5,102 4,880 4,522 4,300 4,255</td> <td>2,139 2,191 2,183 2,251 2,221 2,234 2,701 2,632 5,055 5,549 5,152 4,928 4,567 4,343 4,297</td>	133 1,31 134 1,46 101 1,52 102 1,52 103 1,62 105 3,21 127 3,22 116 3,22 115 3,33 99 3,26 190 3,32 190 3,32 190 3,32 103 6,92 104 3,72 105 5,72 1030 5,44 1030 5,44 1030 5,44 1030 5,44 1030 5,44 1030 5,44 1030 5,44 1030 5,44 1030 5,44 1030 5,44 1030 5,44 1030 5,44 1030 5,44 1030 5,44 1030 5,44 1030 5,56	1,343 64 1,490 32 1,560 52 1,580 23 1,652 15 1,637 93 3,354 82 3,342 83 3,445 38 3,399 65 3,325 58 3,420 60 4,134 56 4,028 99 3,869 51 4,247 54 6,571 73 6,286 21 5,825 40 5,539 82 5,481 58 5,761 56 5,657 66 5,770	1,405 1,559 1,632 1,653 1,729 1,712 1,754 3,496 3,604 3,555 3,478 3,577 4,324 4,213 4,047 4,324 4,213 4,047 4,442 4,124 6,575 6,093 5,794 5,733 6,026 5,918 6,035	1,534 1,702 1,782 1,805 1,877 1,915 1,909 3,935 3,882 3,798 3,906 4,721 4,600 4,721 4,600 4,419 4,850 4,503 4,308 6,653 6,327 6,260 6,580 6,580 6,462	1,622 1,800 1,884 1,909 1,995 1,977 2,025 2,018 2,080 4,104 4,015 4,129 4,992 4,864 4,672 5,128 4,672 5,128 4,761 4,554 4,554 4,221 6,689 6,618 6,957 6,832	1,812 1,897 1,922 2,010 1,991 2,039 2,032 2,095 2,067 4,043 4,158 5,027 4,898 4,705 5,164 4,795 4,586 4,250 4,042 6,665 7,006	1,993 2,019 2,111 2,091 2,142 2,135 2,201 2,171 2,124 4,369 5,282 5,146 4,943 5,426 5,038 4,819 4,466 4,246 4,201 7,361	2,029 2,122 2,102 2,153 2,146 2,212 2,182 2,135 2,195 5,308 5,172 4,968 5,453 5,453 5,063 4,843 4,488 4,268 4,223	2,138 2,118 2,170 2,162 2,229 2,199 2,151 2,212 2,674 5,211 5,006 5,495 5,102 4,880 4,522 4,300 4,255	2,139 2,191 2,183 2,251 2,221 2,234 2,701 2,632 5,055 5,549 5,152 4,928 4,567 4,343 4,297
1,4251,431,4921,503,0231,523,1613,183,1313,153,2073,223,1963,213,2953,313,2503,2703,9533,976,4203,876,4206,816,4206,816,2856,326,0126,045,5715,545,5105,545,4105,545,4105,545,5105,545,4105,546,7796,827,0067,047,4357,4810,38410,4410,42810,4410,11310,179,8029,869,8379,8910,88110,9417,12017,2216,93117,0017,40317,51017,40317,61017,30717,41	34 1,46 001 1,53 221 1,55 3221 1,55 323 1,62 50 3,22 127 3,22 116 3,28 127 3,22 135 3,33 99 3,26 99 3,26 99 3,26 99 3,26 99 3,26 99 3,26 99 3,26 90 3,35 106 3,95 1078 4,06 103 6,45 104 3,79 105 5,72 130 5,44 173 5,38 144 5,55 152 5,66	64 1,490 32 1,560 52 1,580 23 1,652 15 1,637 93 3,354 82 3,342 83 3,445 38 3,399 65 3,325 58 3,420 60 4,134 56 4,028 99 3,869 51 4,247 54 6,571 73 6,286 21 5,825 40 5,539 82 5,481 58 5,761 56 5,657 66 5,770	1,559 1,632 1,653 1,729 1,712 1,754 3,496 3,604 3,555 3,478 3,577 4,324 4,213 4,047 4,422 4,124 6,575 6,093 5,794 5,733 6,026 5,918 6,035	1,702 1,782 1,805 1,870 1,915 1,909 3,935 3,882 3,798 3,906 4,721 4,600 4,419 4,850 4,503 4,503 4,308 6,653 6,327 6,260 6,580 6,580 6,462	1,800 1,884 1,909 1,995 1,977 2,025 2,018 2,080 4,104 4,015 4,129 4,992 4,864 4,672 5,128 4,672 5,128 4,671 4,554 4,554 4,221 6,689 6,618 6,957 6,832	1,812 1,897 1,922 2,010 1,991 2,039 2,032 2,095 2,067 4,043 4,158 5,027 4,898 4,705 5,164 4,795 4,586 4,250 4,042 6,665 7,006	1,993 2,019 2,111 2,091 2,142 2,135 2,201 2,171 2,124 4,369 5,282 5,146 4,943 5,426 5,038 4,819 4,466 4,246 4,201 7,361	2,029 2,122 2,102 2,153 2,146 2,212 2,182 2,135 2,195 5,308 5,172 4,968 5,453 5,453 5,063 4,843 4,488 4,268 4,223	2,138 2,118 2,170 2,162 2,229 2,199 2,151 2,212 2,674 5,211 5,006 5,495 5,102 4,880 4,522 4,300 4,255	2,139 2,191 2,183 2,251 2,221 2,234 2,701 2,632 5,055 5,549 5,152 4,928 4,567 4,343 4,297
1,492 1,50 3,023 1,52 3,161 3,180 3,131 3,150 3,207 3,22 3,196 3,210 3,295 3,311 3,250 3,270 3,270 3,290 3,953 3,973 6,420 3,870 6,167 6,200 6,769 6,810 6,285 6,323 6,012 6,042 5,571 5,540 5,541 5,271 5,510 5,544 5,510 5,544 6,621 5,553 6,779 6,820 7,036 7,488 10,384 10,443 10,428 10,443 10,428 10,443 10,428 10,443 10,428 10,443 10,428 10,443 10,428 10,443 10,428 10,443 10,431 10,703	1,53 21 1,55 80 1,62 50 3,21 27 3,22 16 3,28 15 3,33 99 3,26 90 3,35 90 3,35 90 3,35 90 3,35 90 3,35 90 3,35 90 3,35 90 3,35 90 3,35 90 3,35 90 3,35 90 3,35 90 3,35 910 3,35 92 3,40 93 6,45 94 6,17 95 5,38 444 5,55 952 5,66	32 1,560 52 1,580 23 1,652 15 1,637 93 3,354 82 3,342 83 3,445 38 3,399 65 3,325 58 3,420 60 4,134 56 4,028 99 3,869 51 4,247 54 6,571 73 6,286 21 5,825 40 5,539 82 5,481 58 5,761 56 5,657 66 5,770	1,632 1,653 1,729 1,712 1,754 3,496 3,604 3,555 3,478 3,577 4,324 4,213 4,047 4,422 4,124 6,575 6,093 5,794 5,733 6,026 5,918 6,035	1,782 1,805 1,887 1,915 1,909 3,935 3,882 3,798 3,906 4,721 4,600 4,419 4,850 4,503 4,308 6,653 6,327 6,260 6,580 6,580 6,462	1,884 1,909 1,995 1,977 2,025 2,018 2,080 4,104 4,015 4,129 4,992 4,864 4,672 5,128 4,672 5,128 4,671 4,554 4,554 4,221 6,689 6,618 6,957 6,832	1,897 1,922 2,010 1,991 2,039 2,032 2,095 2,067 4,043 4,158 5,027 4,898 4,705 5,164 4,795 4,586 4,250 4,042 6,665 7,006	1,993 2,019 2,111 2,091 2,142 2,135 2,201 2,171 2,124 4,369 5,282 5,146 4,943 5,426 5,038 4,819 4,466 4,246 4,201 7,361	2,029 2,122 2,102 2,153 2,146 2,212 2,182 2,135 2,195 5,308 5,172 4,968 5,453 5,453 5,063 4,843 4,488 4,268 4,223	2,138 2,118 2,170 2,162 2,229 2,199 2,151 2,212 2,674 5,211 5,006 5,495 5,102 4,880 4,522 4,300 4,255	2,139 2,191 2,183 2,251 2,221 2,234 2,701 2,632 5,055 5,549 5,152 4,928 4,567 4,343 4,297
3,023 1,52 3,161 3,180 3,131 3,150 3,207 3,221 3,196 3,210 3,295 3,311 3,250 3,270 3,180 3,190 3,270 3,291 3,270 3,291 3,270 3,291 3,270 3,291 3,270 3,291 3,270 3,291 3,270 3,291 3,270 3,291 3,270 3,291 3,270 3,291 3,270 3,291 3,270 3,291 3,270 3,291 3,270 3,291 3,270 3,291 3,270 3,81 3,270 3,81 5,241 5,271 5,510 5,544 5,241 5,551 6,779 6,821 7,435 7,481 10,428 10,441 10,428 <td>221 1,55 800 1,62 500 3,21 227 3,22 116 3,28 115 3,38 700 3,32 990 3,26 900 3,35 778 4,06 760 3,99 723 6,45 744 5,55 752 5,66</td> <td>52 1,580 23 1,652 15 1,637 93 3,354 82 3,342 83 3,445 38 3,399 65 3,325 58 3,420 60 4,134 56 4,028 99 3,869 51 4,247 54 6,571 73 6,286 21 5,825 40 5,539 82 5,481 58 5,761 56 5,657 66 5,770</td> <td>1,653 1,729 1,712 1,754 3,496 3,604 3,555 3,478 3,577 4,324 4,213 4,047 4,422 4,124 6,575 6,093 5,794 5,733 6,026 5,918 6,035</td> <td>1,805 1,887 1,915 1,909 3,935 3,882 3,798 3,906 4,721 4,600 4,419 4,850 4,503 4,503 4,503 4,503 6,653 6,327 6,260 6,580 6,580 6,462</td> <td>1,909 1,995 1,977 2,025 2,018 2,080 4,104 4,015 4,129 4,992 4,864 4,672 5,128 4,672 5,128 4,761 4,554 4,221 6,689 6,618 6,957 6,832</td> <td>1,922 2,010 1,991 2,039 2,032 2,095 2,067 4,043 4,158 5,027 4,898 4,705 5,164 4,795 4,586 4,250 4,042 6,665 7,006</td> <td>2,019 2,111 2,091 2,142 2,135 2,201 2,171 2,124 4,369 5,282 5,146 4,943 5,426 5,038 4,819 4,466 4,246 4,201 7,361</td> <td>2,029 2,122 2,102 2,153 2,146 2,212 2,182 2,135 2,195 5,308 5,172 4,968 5,453 5,453 5,063 4,843 4,488 4,268 4,223</td> <td>2,138 2,118 2,170 2,162 2,229 2,199 2,151 2,212 2,674 5,211 5,006 5,495 5,102 4,880 4,522 4,300 4,255</td> <td>2,139 2,191 2,183 2,251 2,221 2,234 2,701 2,632 5,055 5,549 5,152 4,928 4,567 4,343 4,297</td>	221 1,55 800 1,62 500 3,21 227 3,22 116 3,28 115 3,38 700 3,32 990 3,26 900 3,35 778 4,06 760 3,99 723 6,45 744 5,55 752 5,66	52 1,580 23 1,652 15 1,637 93 3,354 82 3,342 83 3,445 38 3,399 65 3,325 58 3,420 60 4,134 56 4,028 99 3,869 51 4,247 54 6,571 73 6,286 21 5,825 40 5,539 82 5,481 58 5,761 56 5,657 66 5,770	1,653 1,729 1,712 1,754 3,496 3,604 3,555 3,478 3,577 4,324 4,213 4,047 4,422 4,124 6,575 6,093 5,794 5,733 6,026 5,918 6,035	1,805 1,887 1,915 1,909 3,935 3,882 3,798 3,906 4,721 4,600 4,419 4,850 4,503 4,503 4,503 4,503 6,653 6,327 6,260 6,580 6,580 6,462	1,909 1,995 1,977 2,025 2,018 2,080 4,104 4,015 4,129 4,992 4,864 4,672 5,128 4,672 5,128 4,761 4,554 4,221 6,689 6,618 6,957 6,832	1,922 2,010 1,991 2,039 2,032 2,095 2,067 4,043 4,158 5,027 4,898 4,705 5,164 4,795 4,586 4,250 4,042 6,665 7,006	2,019 2,111 2,091 2,142 2,135 2,201 2,171 2,124 4,369 5,282 5,146 4,943 5,426 5,038 4,819 4,466 4,246 4,201 7,361	2,029 2,122 2,102 2,153 2,146 2,212 2,182 2,135 2,195 5,308 5,172 4,968 5,453 5,453 5,063 4,843 4,488 4,268 4,223	2,138 2,118 2,170 2,162 2,229 2,199 2,151 2,212 2,674 5,211 5,006 5,495 5,102 4,880 4,522 4,300 4,255	2,139 2,191 2,183 2,251 2,221 2,234 2,701 2,632 5,055 5,549 5,152 4,928 4,567 4,343 4,297
3,161 3,181 3,121 3,122 3,207 3,221 3,216 3,211 3,250 3,211 3,250 3,211 3,250 3,212 3,180 3,192 3,250 3,221 3,250 3,221 3,250 3,221 3,250 3,229 3,250 3,291 3,250 3,291 3,250 3,291 3,250 3,291 6,420 3,871 6,420 3,871 6,420 3,871 6,285 6,321 5,510 5,544 5,241 5,551 6,779 6,821 7,006 7,043 7,435 7,481 10,428 10,443 10,428 10,443 10,428 10,443 10,428 10,443 10,434 10,443 10,435 10,443 10,438 10,443 10,701 10,274 <	80 1,62 50 3,21 227 3,22 116 3,28 115 3,38 170 3,33 99 3,26 190 3,35 178 4,06 176 3,95 178 4,06 170 6,95 123 6,45 148 6,17 130 5,44 173 5,38 144 5,55 152 5,66	23 1,652 15 1,637 93 3,354 82 3,342 83 3,445 38 3,399 65 3,325 58 3,420 60 4,134 56 4,028 99 3,869 51 4,247 54 6,571 73 6,286 21 5,825 40 5,539 82 5,481 58 5,761 56 5,657 66 5,770	1,729 1,712 1,754 3,496 3,604 3,555 3,478 3,577 4,324 4,213 4,047 4,422 4,124 6,575 6,093 5,794 5,733 6,026 5,918 6,035	1,887 1,870 1,915 1,909 3,935 3,882 3,798 3,906 4,721 4,600 4,419 4,850 4,503 4,308 6,653 6,327 6,260 6,580 6,580 6,462	1,995 1,977 2,025 2,018 2,080 4,104 4,015 4,129 4,992 4,864 4,672 5,128 4,672 5,128 4,761 4,554 4,221 6,689 6,618 6,957 6,832	2,010 1,991 2,039 2,032 2,095 2,067 4,043 4,158 5,027 4,898 4,705 5,164 4,795 4,586 4,250 4,042 6,665 7,006	2,111 2,091 2,142 2,135 2,201 2,171 2,124 4,369 5,282 5,146 4,943 5,426 5,038 4,819 4,466 4,246 4,201 7,361	2,122 2,102 2,153 2,146 2,212 2,182 2,135 2,195 5,308 5,172 4,968 5,453 5,063 4,843 4,488 4,268 4,223	2,138 2,118 2,170 2,162 2,229 2,199 2,151 2,212 2,674 5,211 5,006 5,495 5,102 4,880 4,522 4,300 4,255	2,139 2,191 2,183 2,251 2,221 2,234 2,701 2,632 5,055 5,549 5,152 4,928 4,567 4,343 4,297
3,131 3,151 3,207 3,221 3,196 3,211 3,250 3,211 3,250 3,271 3,250 3,270 3,250 3,270 3,250 3,270 3,250 3,270 3,250 3,270 3,250 3,270 3,250 3,270 3,250 3,270 3,250 3,270 3,250 3,270 3,250 3,270 3,250 3,270 3,250 3,270 3,250 3,270 3,250 3,270 3,250 3,270 6,420 3,870 6,420 3,871 6,285 6,321 5,510 5,541 5,510 5,541 5,541 5,541 6,621 5,555 6,779 6,821 7,435 7,481 10,428 10,442 10,428 10,442 10,429 10,442	50 3,21 227 3,22 116 3,28 115 3,38 119 3,28 110 3,32 111 3,32 112 3,33 113 3,32 114 3,32 115 3,32 110 3,99 110 6,99 123 6,45 148 6,17 1505 5,72 130 5,44 173 5,38 144 5,55 152 5,66	15 1,637 93 3,354 82 3,342 83 3,445 38 3,399 65 3,325 58 3,420 60 4,134 56 4,028 99 3,869 51 4,247 54 6,571 73 6,286 21 5,825 40 5,539 82 5,481 58 5,761 56 5,657 66 5,770	1,712 1,754 3,496 3,604 3,555 3,478 3,577 4,324 4,213 4,047 4,442 4,124 6,575 6,093 5,794 5,733 6,026 5,918 6,035	1,870 1,915 1,909 3,935 3,882 3,798 3,906 4,721 4,600 4,419 4,850 4,503 4,308 6,653 6,327 6,260 6,580 6,580 6,462	1,977 2,025 2,018 2,080 4,104 4,015 4,129 4,992 4,864 4,672 5,128 4,672 5,128 4,761 4,554 4,221 6,689 6,618 6,957 6,832	1,991 2,039 2,032 2,095 2,067 4,043 4,158 5,027 4,898 4,705 5,164 4,795 4,586 4,250 4,042 6,665 7,006	2,091 2,142 2,135 2,201 2,171 2,124 4,369 5,282 5,146 4,943 5,426 5,038 4,819 4,466 4,246 4,201 7,361	2,102 2,153 2,146 2,212 2,182 2,135 2,195 5,308 5,172 4,968 5,453 5,063 4,843 4,843 4,488 4,268 4,223	2,118 2,170 2,162 2,229 2,199 2,151 2,212 2,674 5,211 5,006 5,495 5,102 4,880 4,522 4,300 4,255	2,139 2,191 2,183 2,251 2,221 2,234 2,701 2,632 5,055 5,549 5,152 4,928 4,567 4,343 4,297
3,207 3,22 3,196 3,21 3,250 3,21 3,250 3,27 3,180 3,19 3,270 3,29 3,953 3,97 6,420 3,87 6,420 3,87 6,420 3,87 6,420 3,87 6,420 3,87 6,420 3,87 6,420 3,87 6,420 3,87 6,420 3,87 6,420 3,87 6,420 3,87 6,420 3,87 6,420 3,87 6,521 5,54 5,510 5,54 5,510 5,54 5,510 5,54 6,621 5,55 6,779 6,82 7,006 7,043 10,384 10,49 10,384 10,49 10,384 10,49 10,831 10,94 17,010 10,27<	227 3,22 116 3,28 115 3,38 129 3,26 190 3,26 190 3,26 190 3,35 178 4,06 176 3,99 100 6,95 123 6,45 148 6,17 1505 5,72 130 5,44 173 5,38 144 5,55 152 5,66	93 3,354 82 3,342 83 3,445 38 3,399 65 3,325 58 3,420 60 4,134 56 4,028 99 3,869 51 4,247 54 6,571 73 6,286 21 5,825 40 5,539 82 5,481 58 5,761 56 5,657 66 5,770	1,754 3,496 3,604 3,555 3,478 3,577 4,324 4,213 4,047 4,442 4,124 6,575 6,093 5,794 5,733 6,026 5,918 6,035	1,915 1,909 3,935 3,882 3,798 3,906 4,721 4,600 4,419 4,850 4,503 4,308 6,653 6,327 6,260 6,580 6,580 6,462	2,025 2,018 2,080 4,104 4,015 4,129 4,992 4,864 4,672 5,128 4,761 4,554 4,221 6,689 6,618 6,957 6,832	2,039 2,095 2,067 4,043 4,158 5,027 4,898 4,705 5,164 4,795 4,586 4,250 4,042 6,665 7,006	2,142 2,135 2,201 2,171 2,124 4,369 5,282 5,146 4,943 5,426 5,038 4,819 4,466 4,246 4,201 7,361	2,153 2,146 2,212 2,182 2,135 2,195 5,308 5,172 4,968 5,453 5,063 4,843 4,488 4,268 4,223	2,170 2,162 2,229 2,199 2,151 2,212 2,674 5,211 5,006 5,495 5,102 4,880 4,522 4,300 4,255	2,191 2,183 2,251 2,221 2,234 2,701 2,632 5,055 5,549 5,152 4,928 4,567 4,343 4,297
3,196 3,210 3,295 3,210 3,250 3,270 3,180 3,190 3,270 3,290 3,953 3,970 6,420 3,870 6,420 3,870 6,420 3,870 6,420 3,870 6,420 3,870 6,420 3,870 6,420 3,870 6,420 3,870 6,420 3,870 6,420 3,870 6,420 3,870 6,420 3,870 6,420 6,810 5,571 5,600 5,541 5,541 5,541 5,541 5,541 5,542 7,043 7,482 10,384 10,442 10,428 10,442 10,428 10,442 10,428 10,442 10,831 10,943 17,010 10,274 17,403 17,510	116 3,28 115 3,38 170 3,33 99 3,26 190 3,35 178 4,06 176 3,99 104 3,79 101 6,95 102 6,45 103 5,72 1030 5,44 173 5,38 164 5,55 152 5,66	82 3,342 83 3,445 38 3,399 65 3,325 58 3,420 60 4,134 56 4,028 99 3,869 51 4,247 54 6,571 73 6,286 21 5,825 40 5,539 82 5,481 58 5,761 56 5,657 66 5,770	3,496 3,604 3,555 3,478 3,577 4,324 4,213 4,047 4,442 4,124 6,575 6,093 5,794 5,733 6,026 5,918 6,035	1,909 3,935 3,882 3,798 3,906 4,721 4,600 4,419 4,850 4,503 4,308 6,653 6,327 6,260 6,580 6,580 6,462	2,018 2,080 4,104 4,015 4,129 4,992 4,864 4,672 5,128 4,761 4,554 4,221 6,689 6,618 6,957 6,832	2,032 2,095 2,067 4,043 4,158 5,027 4,898 4,705 5,164 4,795 4,586 4,250 4,042 6,665 7,006	2,135 2,201 2,171 2,124 4,369 5,282 5,146 4,943 5,426 5,038 4,819 4,466 4,246 4,246 4,201 7,361	2,146 2,212 2,182 2,135 2,195 5,308 5,172 4,968 5,453 5,063 4,843 4,488 4,268 4,223	2,162 2,229 2,199 2,151 2,212 2,674 5,211 5,006 5,495 5,102 4,880 4,522 4,300 4,255	2,183 2,251 2,221 2,172 2,234 2,701 2,632 5,055 5,549 5,152 4,928 4,567 4,343 4,297
3,295 3,311 3,250 3,274 3,180 3,193 3,270 3,294 3,953 3,973 6,420 3,874 6,167 6,204 6,769 6,814 6,285 6,323 6,012 6,044 5,571 5,604 5,298 5,334 5,210 5,544 5,410 5,444 6,621 5,555 6,779 6,824 7,006 7,044 7,435 7,488 10,384 10,444 10,428 10,499 10,113 10,177 9,802 9,863 9,837 9,899 10,881 10,944 17,019 10,274 17,120 17,224 16,931 17,033 17,403 17,514 16,996 17,100 17,307 17,414	3,38 15 3,38 70 3,33 99 3,26 90 3,35 178 4,06 176 3,95 104 3,79 105 5,72 106 5,54 1073 5,38 104 5,55 105 5,72 106 5,54 1073 5,38 104 5,55 105 5,72 106 5,54 1073 5,38 104 5,55 105 5,54	83 3,445 38 3,399 65 3,325 58 3,420 60 4,134 56 4,028 99 3,869 51 4,247 54 6,571 73 6,286 21 5,825 40 5,539 82 5,481 58 5,761 56 5,657 66 5,770	3,604 3,555 3,478 3,577 4,324 4,213 4,047 4,442 4,124 6,575 6,093 5,794 5,733 6,026 5,918 6,035	3,935 3,882 3,798 3,906 4,721 4,600 4,419 4,850 4,503 4,308 6,653 6,327 6,260 6,580 6,580 6,462	2,080 4,104 4,015 4,129 4,992 4,864 4,672 5,128 4,761 4,554 4,221 6,689 6,618 6,618 6,957 6,832	2,095 2,067 4,043 4,158 5,027 4,898 4,705 5,164 4,795 4,586 4,250 4,042 6,665 7,006	2,201 2,171 2,124 4,369 5,282 5,146 4,943 5,426 5,038 4,819 4,466 4,246 4,201 7,361	2,212 2,182 2,135 2,195 5,308 5,172 4,968 5,453 5,063 4,843 4,488 4,268 4,223	2,229 2,199 2,151 2,212 2,674 5,211 5,006 5,495 5,102 4,880 4,522 4,300 4,255	2,251 2,221 2,172 2,234 2,701 2,632 5,055 5,549 5,152 4,928 4,567 4,343 4,297
3,250 3,270 3,180 3,190 3,270 3,290 3,953 3,973 6,420 3,870 6,167 6,200 6,769 6,810 6,285 6,323 6,012 6,044 5,571 5,600 5,298 5,330 5,241 5,271 5,510 5,544 6,621 5,555 6,779 6,820 7,006 7,042 7,435 7,483 10,384 10,443 10,428 10,443 10,428 10,443 10,428 10,443 10,428 10,443 10,428 10,443 10,413 10,173 9,802 9,863 9,837 9,893 10,881 10,944 17,019 10,274 17,403 17,510 16,931 17,033 17,403 17,510 <	70 3,33 99 3,26 90 3,35 78 4,06 76 3,95 804 3,75 810 6,95 823 6,45 848 6,17 805 5,72 830 5,44 773 5,38 844 5,65 852 5,66	38 3,399 65 3,325 58 3,420 60 4,134 56 4,028 99 3,869 51 4,247 54 6,571 73 6,286 21 5,825 40 5,539 82 5,481 58 5,761 56 5,657 66 5,770	3,555 3,478 3,577 4,324 4,213 4,047 4,442 4,124 6,575 6,093 5,794 5,733 6,026 5,918 6,035	3,882 3,798 3,906 4,721 4,600 4,419 4,850 4,503 4,503 4,308 6,653 6,327 6,260 6,580 6,580 6,462	4,104 4,015 4,129 4,992 4,864 4,672 5,128 4,761 4,554 4,554 4,221 6,689 6,618 6,957 6,832	2,067 4,043 4,158 5,027 4,898 4,705 5,164 4,795 4,586 4,250 4,042 6,665 7,006	2,171 2,124 4,369 5,282 5,146 4,943 5,426 5,038 4,819 4,466 4,246 4,201 7,361	2,182 2,135 2,195 5,308 5,172 4,968 5,453 5,063 4,843 4,488 4,268 4,223	2,199 2,151 2,212 2,674 5,211 5,006 5,495 5,102 4,880 4,522 4,300 4,255	2,221 2,172 2,234 2,701 2,632 5,055 5,549 5,152 4,928 4,567 4,343 4,297
3,270 3,291 3,953 3,971 6,420 3,871 6,167 6,204 6,769 6,811 6,285 6,323 6,012 6,044 5,571 5,600 5,241 5,271 5,510 5,544 6,621 5,551 6,779 6,820 7,006 7,043 7,435 7,481 10,428 10,443 10,428 10,443 10,428 10,443 10,428 10,443 10,428 10,443 10,428 10,443 10,428 10,443 10,428 10,443 10,428 10,443 10,831 10,943 17,019 10,274 17,120 17,224 16,931 17,033 17,403 17,100 17,307 17,414	90 3,35 78 4,06 76 3,95 704 3,75 810 6,95 823 6,45 848 6,17 805 5,72 830 5,44 773 5,38 844 5,55 552 5,66	58 3,420 60 4,134 56 4,028 99 3,869 51 4,247 54 6,571 73 6,286 21 5,825 40 5,539 82 5,481 58 5,761 56 5,657 66 5,770	3,577 4,324 4,213 4,047 4,442 4,124 6,575 6,093 5,794 5,733 6,026 5,918 6,035	3,906 4,721 4,600 4,419 4,850 4,503 4,308 6,653 6,327 6,260 6,580 6,580 6,462	4,129 4,992 4,864 4,672 5,128 4,761 4,554 4,221 6,689 6,618 6,957 6,832	4,158 5,027 4,898 4,705 5,164 4,795 4,586 4,250 4,042 6,665 7,006	4,369 5,282 5,146 4,943 5,426 5,038 4,819 4,466 4,246 4,201 7,361	2,195 5,308 5,172 4,968 5,453 5,063 4,843 4,488 4,268 4,223	2,212 2,674 5,211 5,006 5,495 5,102 4,880 4,522 4,300 4,255	2,234 2,701 2,632 5,055 5,549 5,152 4,928 4,567 4,343 4,297
3,953 3,974 6,420 3,874 6,167 6,204 6,769 6,810 6,285 6,323 6,012 6,044 5,571 5,600 5,298 5,330 5,241 5,277 5,510 5,544 6,621 5,555 6,779 6,820 7,006 7,043 7,435 7,480 10,428 10,443 10,428 10,443 10,428 10,443 10,428 10,443 10,413 10,173 9,802 9,861 9,837 9,892 10,881 10,943 17,019 10,274 17,120 17,224 16,931 17,033 17,403 17,100 17,307 17,414	778 4,00 776 3,99 704 3,79 810 6,99 823 6,45 848 6,17 805 5,72 830 5,44 773 5,38 844 5,55 552 5,66	60 4,134 56 4,028 99 3,869 51 4,247 54 6,571 73 6,286 21 5,825 40 5,539 82 5,481 58 5,761 56 5,657 66 5,770	4,324 4,213 4,047 4,442 4,124 6,575 6,093 5,794 5,733 6,026 5,918 6,035	4,721 4,600 4,419 4,850 4,503 4,308 6,653 6,327 6,260 6,580 6,580 6,462	4,992 4,864 4,672 5,128 4,761 4,554 4,221 6,689 6,618 6,957 6,832	5,027 4,898 4,705 5,164 4,795 4,586 4,250 4,042 6,665 7,006	5,282 5,146 4,943 5,426 5,038 4,819 4,466 4,246 4,201 7,361	5,308 5,172 4,968 5,453 5,063 4,843 4,488 4,268 4,223	2,674 5,211 5,006 5,495 5,102 4,880 4,522 4,300 4,255	2,701 2,632 5,055 5,549 5,152 4,928 4,567 4,343 4,297
6,420 3,87 6,167 6,20 6,769 6,81 6,285 6,32 6,012 6,04 5,571 5,60 5,298 5,33 5,211 5,57 5,510 5,54 6,621 5,55 6,779 6,82 7,006 7,043 7,435 7,48 10,428 10,49 10,428 10,49 10,413 10,17 9,802 9,86 9,837 9,89 10,881 10,943 17,019 10,27 17,120 17,22 16,931 17,03 17,403 17,100 17,307 17,41	376 3,95 004 3,75 100 6,95 123 6,45 148 6,17 1505 5,72 1300 5,44 173 5,38 144 5,55 152 5,66	56 4,028 99 3,869 51 4,247 54 6,571 73 6,286 21 5,825 40 5,539 82 5,481 58 5,761 56 5,657 66 5,770	4,213 4,047 4,442 4,124 6,575 6,093 5,794 5,733 6,026 5,918 6,035	4,600 4,419 4,850 4,503 4,308 6,653 6,327 6,260 6,580 6,580 6,462	4,864 4,672 5,128 4,761 4,554 4,221 6,689 6,618 6,957 6,832	4,898 4,705 5,164 4,795 4,586 4,250 4,042 6,665 7,006	5,146 4,943 5,426 5,038 4,819 4,466 4,246 4,201 7,361	5,172 4,968 5,453 5,063 4,843 4,488 4,268 4,223	5,211 5,006 5,495 5,102 4,880 4,522 4,300 4,255	2,632 5,055 5,549 5,152 4,928 4,567 4,343 4,297
6,167 6,200 6,769 6,810 6,285 6,323 6,012 6,044 5,571 5,600 5,298 5,330 5,241 5,273 5,510 5,544 5,410 5,444 6,621 5,555 6,779 6,820 7,006 7,043 10,384 10,449 10,384 10,449 10,384 10,449 10,384 10,449 10,384 10,449 10,384 10,449 10,384 10,449 10,384 10,449 10,384 10,449 10,384 10,949 10,881 10,949 17,010 17,220 16,931 17,031 17,403 17,510 16,996 17,100 17,307 17,411	3,79 10 6,99 223 6,44 48 6,17 505 5,72 300 5,44 773 5,38 444 5,55 552 5,66	99 3,869 51 4,247 54 6,571 73 6,286 21 5,825 40 5,539 82 5,481 58 5,761 56 5,657 66 5,770	4,047 4,442 4,124 6,575 6,093 5,794 5,733 6,026 5,918 6,035	4,419 4,850 4,503 4,308 6,653 6,327 6,260 6,580 6,580 6,462	4,672 5,128 4,761 4,554 4,221 6,689 6,618 6,957 6,832	4,705 5,164 4,795 4,586 4,250 4,042 6,665 7,006	4,943 5,426 5,038 4,819 4,466 4,246 4,201 7,361	4,968 5,453 5,063 4,843 4,488 4,268 4,223	5,006 5,495 5,102 4,880 4,522 4,300 4,255	5,055 5,549 5,152 4,928 4,567 4,343 4,297
6,769 6,810 6,285 6,323 6,012 6,044 5,571 5,600 5,298 5,330 5,214 5,271 5,510 5,544 5,410 5,444 6,621 5,555 6,779 6,820 7,006 7,044 7,435 7,480 10,384 10,442 10,384 10,442 10,428 10,442 10,428 10,442 10,384 10,442 10,413 10,173 9,802 9,886 9,837 9,899 10,881 10,943 17,019 10,274 17,120 17,224 16,931 17,033 17,403 17,510 16,996 17,100 17,307 17,413	310 6,95 223 6,45 448 6,17 505 5,72 330 5,44 773 5,38 444 5,65 452 5,66	51 4,247 54 6,571 73 6,286 21 5,825 40 5,539 82 5,481 58 5,761 56 5,657 66 5,770	4,442 4,124 6,575 6,093 5,794 5,733 6,026 5,918 6,035	4,850 4,503 4,308 6,653 6,327 6,260 6,580 6,462	5,128 4,761 4,554 4,221 6,689 6,618 6,957 6,832	5,164 4,795 4,586 4,250 4,042 6,665 7,006	5,426 5,038 4,819 4,466 4,246 4,201 7,361	5,453 5,063 4,843 4,488 4,268 4,223	5,495 5,102 4,880 4,522 4,300 4,255	5,549 5,152 4,928 4,567 4,343 4,297
6,285 6,32: 6,012 6,04: 5,571 5,60: 5,298 5,33: 5,211 5,54: 5,410 5,44: 6,621 5,55: 6,779 6,82: 7,006 7,04: 7,435 7,48: 10,384 10,44: 10,428 10,49: 10,113 10,17: 9,802 9,86: 9,837 9,89: 10,881 10,94: 17,019 10,27: 17,120 17,22: 16,931 17,51: 16,996 17,100 17,307 17,41:	23 6,45 148 6,17 105 5,72 130 5,44 173 5,38 144 5,65 144 5,55 152 5,66	54 6,571 73 6,286 21 5,825 40 5,539 82 5,481 58 5,761 56 5,657 66 5,770	4,124 6,575 6,093 5,794 5,733 6,026 5,918 6,035	4,503 4,308 6,653 6,327 6,260 6,580 6,462	4,761 4,554 4,221 6,689 6,618 6,957 6,832	4,795 4,586 4,250 4,042 6,665 7,006	5,038 4,819 4,466 4,246 4,201 7,361	5,063 4,843 4,488 4,268 4,223	5,102 4,880 4,522 4,300 4,255	5,152 4,928 4,567 4,343 4,297
6,012 6,043 5,571 5,603 5,298 5,333 5,241 5,273 5,510 5,544 5,410 5,444 6,621 5,555 6,779 6,820 7,006 7,043 7,435 7,483 10,384 10,443 10,428 10,443 10,413 10,173 9,802 9,863 9,837 9,892 10,881 10,944 17,019 10,274 17,120 17,224 16,931 17,033 17,403 17,514 16,996 17,100 17,307 17,414	448 6,17 605 5,72 830 5,44 773 5,38 644 5,65 652 5,66	73 6,286 21 5,825 40 5,539 82 5,481 58 5,761 56 5,657 66 5,770	6,575 6,093 5,794 5,733 6,026 5,918 6,035	4,308 6,653 6,327 6,260 6,580 6,462	4,554 4,221 6,689 6,618 6,957 6,832	4,586 4,250 4,042 6,665 7,006	4,819 4,466 4,246 4,201 7,361	4,843 4,488 4,268 4,223	4,880 4,522 4,300 4,255	4,928 4,567 4,343 4,297
5,571 5,600 5,298 5,331 5,241 5,271 5,510 5,544 5,410 5,444 6,621 5,555 6,779 6,820 7,006 7,044 7,435 7,484 10,384 10,444 10,428 10,492 10,113 10,172 9,802 9,863 9,837 9,892 10,881 10,944 17,019 10,274 17,120 17,224 16,931 17,033 17,403 17,514 16,996 17,100 17,307 17,414	605 5,72 605 5,44 673 5,38 644 5,55 645 5,55 652 5,66	21 5,825 40 5,539 82 5,481 58 5,761 56 5,657 66 5,770	6,093 5,794 5,733 6,026 5,918 6,035	6,653 6,327 6,260 6,580 6,462	4,221 6,689 6,618 6,957 6,832	4,250 4,042 6,665 7,006	4,466 4,246 4,201 7,361	4,488 4,268 4,223	4,522 4,300 4,255	4,567 4,343 4,297
5,298 5,330 5,241 5,271 5,510 5,544 5,410 5,444 6,621 5,555 6,779 6,820 7,006 7,044 7,435 7,481 10,384 10,444 10,428 10,492 10,113 10,173 9,802 9,861 9,837 9,892 10,881 10,944 17,019 10,274 17,120 17,224 16,931 17,033 17,403 17,510 16,996 17,100 17,307 17,413	30 5,44 73 5,38 44 5,65 44 5,55 52 5,66	40 5,539 82 5,481 58 5,761 56 5,657 66 5,770	5,794 5,733 6,026 5,918 6,035	6,327 6,260 6,580 6,462	6,689 6,618 6,957 6,832	4,042 6,665 7,006	4,246 4,201 7,361	4,268 4,223	4,300 4,255	4,343 4,297
5,241 5,27 5,510 5,544 6,621 5,55 6,779 6,824 7,006 7,043 7,435 7,480 10,384 10,444 10,384 10,444 10,428 10,444 10,413 10,173 9,802 9,861 9,837 9,892 10,881 10,944 17,019 10,274 17,120 17,224 16,931 17,033 17,403 17,514 16,996 17,100 17,307 17,414	273 5,38 344 5,65 344 5,55 352 5,66	82 5,481 58 5,761 56 5,657 66 5,770	5,733 6,026 5,918 6,035	6,260 6,580 6,462	6,618 6,957 6,832	6,665 7,006	4,201 7,361	4,223	4,255	4,297
5,510 5,544 5,410 5,444 6,621 5,555 6,779 6,824 7,006 7,048 7,435 7,480 10,384 10,443 10,428 10,443 10,113 10,173 9,802 9,867 9,837 9,897 10,881 10,943 17,019 10,274 17,120 17,222 16,931 17,514 16,996 17,100 17,403 17,514 16,996 17,100	44 5,65 44 5,55 52 5,66	58 5,761 56 5,657 66 5,770	6,026 5,918 6,035	6,580 6,462	6,957 6,832	7,006	7,361			
5,410 5,44 6,621 5,55 6,779 6,820 7,006 7,049 7,435 7,480 10,384 10,443 10,428 10,443 10,413 10,173 9,802 9,860 9,837 9,899 10,881 10,943 17,019 10,274 17,120 17,224 16,931 17,510 17,403 17,510 16,996 17,100 17,307 17,413	44 5,55 52 5,66	56 5,657 66 5,770	5,918 6,035	6,462	<mark>6,832</mark>			'		
6,621 5,55 6,779 6,824 7,006 7,044 7,435 7,484 10,384 10,444 10,428 10,494 10,413 10,174 9,802 9,866 9,837 9,899 10,881 10,944 17,019 10,274 17,120 17,224 16,931 17,033 17,403 17,510 16,996 17,100 17,307 17,414	52 5,66	66 5,770	6,035				7,228	7,264	4,392	4,435
6,779 6,820 7,006 7,043 7,435 7,480 10,384 10,443 10,428 10,493 10,113 10,173 9,802 9,863 9,837 9,899 10,881 10,943 17,019 10,274 16,931 17,033 17,403 17,514 16,996 17,100 17,307 17,414		01 5 907		-,0	6,967	7,016	7,372	7,409	7,465	4,523
7,435 7,481 10,384 10,443 10,428 10,493 10,113 10,173 9,802 9,863 9,837 9,893 10,881 10,943 17,019 10,274 16,931 17,033 17,403 17,514 16,996 17,100 17,307 17,414	320 5,80	5,507	6,178	6,746	7,133	7,183	7,547	7,585	7,643	7,718
10,384 10,443 10,428 10,493 10,113 10,173 9,802 9,863 9,837 9,893 10,881 10,943 17,019 10,274 17,120 17,222 16,931 17,033 17,403 17,510 16,996 17,100 17,307 17,413	49 7,19	94 6,105	<mark>6,38</mark> 6	6,972	7,372	7,424	7,800	7,839	7,899	7,977
10,428 10,49 10,113 10,17 9,802 9,86 9,837 9,89 10,881 10,94 17,019 10,27 17,120 17,22 16,931 17,03 17,403 17,510 16,996 17,100 17,307 17,413	80 7,63	35 7,774	6,777	7,400	7,823	7,878	8,277	8,319	8,382	8,465
10,113 10,173 9,802 9,863 9,837 9,899 10,881 10,943 17,019 10,274 17,120 17,224 16,931 17,033 17,403 17,514 16,996 17,100 17,307 17,414	48 10,66	64 10,858	11,358	10,335	10,927	11,004	11,561	11,619	11,708	11,824
9,802 9,867 9,837 9,897 10,881 10,944 17,019 10,274 17,120 17,224 16,931 17,033 17,403 17,510 16,996 17,100 17,307 17,411				12,454	10,973	11,050	11,610	11,668	11,757	11,873
9,837 9,89 10,881 10,94 17,019 10,27 17,120 17,22 16,931 17,033 17,403 17,510 16,996 17,100 17,307 17,413				12,078	12,769	10,716	11,259	11,315	11,402	11,515
10,881 10,943 17,019 10,274 17,120 17,224 16,931 17,033 17,403 17,514 16,996 17,104 17,307 17,413	10,06		10,721							11,160
17,019 10,27 17,120 17,22 16,931 17,03 17,403 17,510 16,996 17,100 17,307 17,411				11,748	12,421	12,509	13,142	11,007	11,091	11,201
17,120 17,22 16,931 17,03 17,403 17,510 16,996 17,100 17,307 17,41				12,995	13,740	13,836	14,537	14,610	12,268	12,389
16,93117,0317,40317,5116,99617,1017,30717,41				12,195	12,894	12,984	13,642	13,710	13,815	11,627
17,403 17,510 16,996 17,100 17,307 17,41				12,267 12,132	12,970 12,827	13,061 12,918	13,723 13,572	13,792 13,640	13,897 13,744	14,035 13,880
16,996 17,10 17,307 17,41				12,132	13,185	13,278	13,950	14,020	14,127	14,267
17,307 17,41				12,179	12,876	12,967	13,623	13,692	13,796	13,933
				20,669	13,112	13,204	13,873	13,942	14,049	14,188
				19,942	21,085	12,740	, 13,385	13,452	13,555	13,689
	16,59			19,297	20,403	20,546	12,952	13,017	13,116	13,246
		14,802	15,483	16,906	17,875	18,000	18,912	11,404	11,491	11,605
			15,728	17,173	18,157	18,285	19,211	19,307	11,673	11,788
				16,007	16,924	17,043	17,906	17,996	18,133	10,987
					16,020	16,133	16,949	17,035	17,165	17,335
						14,677	15,420	15,498	15,616	15,771
							15,013	15,088	15,204	15,354
								14,753	14,866	15,013
									14,387	14,529 15,186

TOTAL = 7,161,395mn