

UPDATING THE NEW PROGRESSIVE VOTING INDEX (PVI), WITH TABLES, MAP, AND PRECINCT SCORES

by

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This report updates the Progressive Voting Index (PVI) for San Francisco precincts with new maps and a new listing of precinct PVI scores along with some new graphical and statistical analysis of recent elections.

Since publication of the original PVI, (1) the PVI itself was updated from a 12-item index to a 22-item index incorporating data from more recent elections; (2) the Board of Supervisors district boundaries have changed, and (3) the Department of Elections (DOE) recently implemented a new precinct numbering system with many precinct boundary changes.

Thanks to Marc Solomon, the new PVI scores have been converted to the new precinct boundaries and numbering system, and the updated precinct listing of PVI scores found in Appendix B at the end of this report should be of interest to those of you who use the PVI in campaign consulting and targeting work. Our analysis below also shows (in particular, see Table 3 and Figures 1-10) that the PVI continues to be a very good single-number summary of San Francisco's overall liberal-conservative voting patterns and a useful predictor of precinct-level voting tendencies on a wide range of issues and political races.

The Progressive Voting Index

The new PVI scores for San Francisco precincts are based on a 22-item summative scale constructed from SF DOE election returns for 553 precincts (December 2003 boundaries) on 22 local and statewide ballot propositions presented to SF voters over five elections from March 2000 to November 2002. The 22 index items (see list in Table 1 below) include the 12 items used in DeLeon's original PVI plus 10 new items selected from the March 2000, March 2002, and November 2002 elections. All index items were purposively selected to tap the several key facets of DeLeon's conceptual definition of urban progressivism as "a system of values, beliefs, and ideas that encourages an expanded role for local government in achieving distributive justice, limits on growth, neighborhood preservation, and ethnic-cultural diversity under conditions of public accountability and direct citizen participation" (DeLeon, *Left Coast City*, 1992: 33).

TABLE 1: The 22 ballot proposition items used to construct the new Progressive Voting Index (PVI) scores. (See Technical Note below.)

Precinct % Yes Vote on Proposition:

Original Items

1. D (Nov 00) Extend Children's Fund to 2016
2. F (Nov 00) JFK/GG Park Saturday Closure
3. H (Nov 00) Limit Tenant Pass-Through Costs
4. L (Nov 00) Office Develop. & Live-Work Cntrls
5. N (Nov 00) Limit on TIC Condo Conversions
6. O (Nov 00) Pub Financing Bd of Supes Elections
7. 36 (Nov 00) Drugs, Probation & Treatment
8. 39 (Nov 00) 55% Local Vote on School Bonds
9. B (Nov 01) Revenue Bonds Local Renewable Energy
10. D (Nov 01) Require Voter Approval Bay Land Fill
11. E (Nov 01) Ethics, Elections, Outside Counsel
12. F (Nov 01) Municipal Water & Power Agency

New Items

13. 22 (Mar 00) Limit on Marriages (-)
14. A (Mar 02) Instant Runoff Voting
15. C (Mar 02) Non-Citizens on Commissions
16. B (Nov 02) Affordable Housing Bonds
17. D (Nov 02) Energy
18. L (Nov 02) Real Property Transfer Tax
19. N (Nov 02) Care Not Cash (-)
20. O (Nov 02) Exits from Homelessness
21. R (Nov 02) HOPE Condo Conversion (-)
22. S (Nov 02) Medical Marijuana

(-) Reverse scoring for items negatively correlated with the factor ("progressivism") being measured.

Data sources: San Francisco Department of Elections, Statements of Vote for elections of March 7, 2000; November 7, 2000; November 6, 2001; March 5, 2002, and November 5, 2002. The numbered ballot measures were statewide propositions, the lettered ones local only.

Technical Note

The raw precinct scale scores were computed from standardized data for precinct voting on each of the 22 items and then re-scaled to a minimum of 0 and a maximum of 100 to yield the new PVI scores for the old precinct boundaries. Following Marc Solomon's conversion of these scores to the new precinct boundaries, the range is now from 3.22 (lowest) to 97.35 (highest). The Cronbach's Alpha scale reliability coefficient for the new PVI is .985 (very high), with an average inter-item correlation of .753. These statistics mean we can be confident that the 22 items that make up the new PVI are highly correlated with one another and are each measuring different facets of the same underlying thing, which we have labeled progressivism.

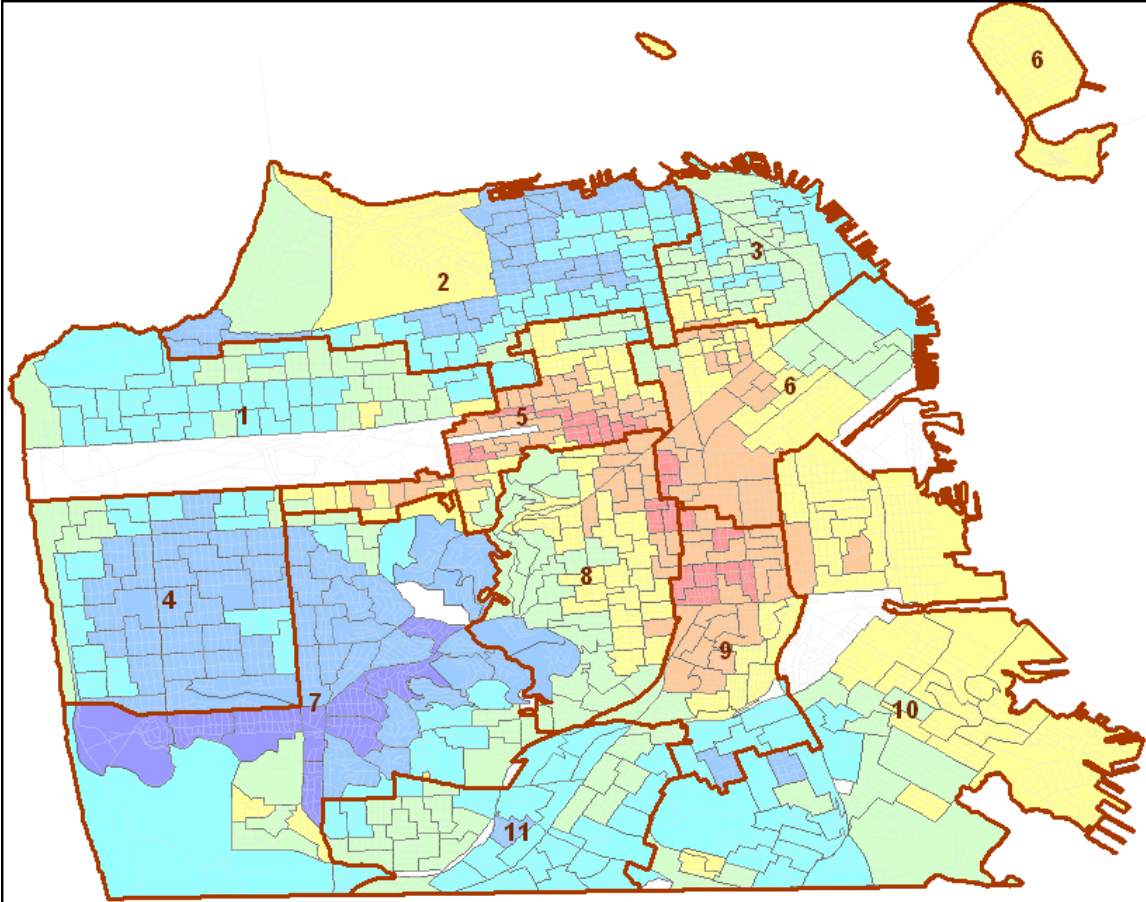
Map of New Progressive Voting Index (PVI) Scores

The following map shows the PVI for each precinct. Seven classifications were chosen for mapping because that was best able to delineate general distinctions among precincts without creating too many categories. The map also shows district lines and streets for reference.

One can quickly see that Districts 5, 6, and 9 are the most progressive (red). The eastern portion of D8 is also quite progressive. These areas correspond to most of the Haight, Mission, SOMA, the Tenderloin, and Noe Valley. The least progressive districts (blue) include 2 and 7, as well as much of 4 and some of 11. These more conservative neighborhoods include the Marina, West of Twin Peaks, St. Francis Wood, and the Outer Sunset. District 1 – the Richmond, and District 3 – North Beach are quite mixed, as is District 10. (Also see the map in Appendix A.).

Other interesting trends visible from the map include:








- The west to east gradation from high PVI precincts to low PVI precincts in District 6
- The colloquially named “Conservative Crescent,” representing the C-shaped line of hills including West of Twin Peaks, Diamond Heights, and Buena Vista Terrace – is indeed more conservative than the precincts below it.
- Inner Sunset - the western portion of D5 – is much more progressive than the adjacent parts of D4 and D7.
- Visually, at least, D4 is remarkably homogeneous.



New PVI Scores - April, 2004

SF Precincts

Progressive Voter Index (PVI)

-  Less than 15.0
-  15.1 - 30.0
-  30.1 - 45.0
-  45.1 - 60.0
-  60.1 - 75.0
-  75.1 - 90.0
-  Greater than 90.0

Breakdown Analysis of PVI Scores by BOS District

The following chart shows a comparison of boxplots of precinct PVI scores by district.

Interpretation: In the chart, the left-hand scale shows the PVI score. The bottom axis shows the district number. In the boxplot shown for each district, the white horizontal line in the middle of the box is that district's median precinct PVI score, which can be read off the left scale. The top of each box gives the 75th percentile PVI score (meaning that 25% of that district's precincts score higher, 75% lower), and the bottom gives the 25th percentile (75% higher, 25% lower). The height of each box is equal to the interquartile range (IQR), which is a widely used measure of dispersion or spread. Thus, the taller the box, the greater the ideological diversity across district precincts, and the shorter the box, the more homogeneous. The whiskers that extend from the top and bottom of each box bracket the normal range of precinct scores with respect to each district's PVI norm, and any symbols shown above or below those whiskers are statistical and political outliers (extreme values) relative to that norm.

With that as background, the chart (with more detail shown in Table 2 and by the map in Appendix A) provides a useful one-shot visual comparison of districts on the PVI scale. For example, this picture shows that District 9 is the city's most politically progressive district (highest median PVI), followed closely by Districts 5 and 6. Note the cluster of low outliers (precincts 2901-2906) for District 9, however, which are significantly more conservative as a group than the rest of District 9 and which bring down District 9's overall mean PVI score. (Indeed, if you compare mean PVI scores instead of median PVI scores, District 5 is the most progressive by that measure, followed by District 9.) District 7 is the city's most politically conservative district (lowest median PVI), followed closely by District 4, although those rankings are swapped if mean PVI is used as the measure of comparison. On the other hand, if you compare the District 7 and District 4 boxplots, you can see that District 4's precinct electorates are more homogeneously conservative (shorter box) and District 7's are more spread out across a wider ideological spectrum (much taller box). District 11 precincts are most alike (shortest box) and voters living there tend to vote pretty much the same way from election to election. This kind of analysis might have import for those who do exit polls with district breakdowns based on a representative selection of precincts. In District 11, almost any precinct would do, but exit pollsters might want to sample voters in several precincts in District 7 and in District 9 to capture the wider range.

Future work can include augmenting demographics derived from the U.S. Census to the PVI values for each precinct. For example, precincts with very high or very low PVI values can be examined for their key demographic constituencies. While this would not be a direct substitute for polling, detailed investigation of consistent demographic patterns with PVI trends can lend insight to how certain groups vote (vis-à-vis their precincts) and how that may change over time. Conversely, certain demographics (i.e., race, age, gender, renter/homeowner, etc.) can be chosen to see what is the PVI of their precincts. Much of this work would require generalizations, but could nonetheless prove valuable in political targeting and future policy decisions.

Boxplots of New PVI Scores by BOS District San Francisco Precincts

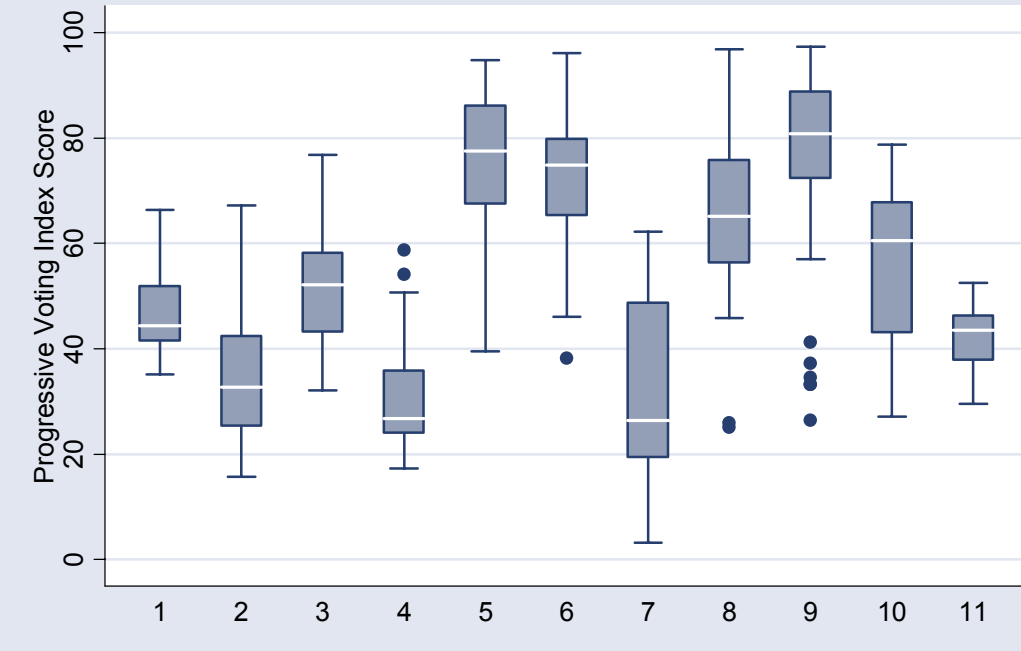


TABLE 2: Median precinct PVI score and IQR by BOS District

District	Median* PVI	Rank	IQR**	Rank	
1	44.4	7	10.4	10	
2	32.8	9	17.1	5	
3	52.2	6	15.0	7	
4	26.8	10	11.8	9	
5	77.5	2	18.9	4	
6	74.9	3	14.6	8	
7	26.4	11	29.4	1	Dist 7 lowest PVI
8	65.2	4	19.5	3	Dist 7 highest diversity
9	80.9	1	16.4	6	Dist 9 highest PVI
10	60.5	5	24.8	2	
11	43.5	8	8.5	11	Dist 11 lowest diversity

NOTES:

* Median = 50th percentile PVI score in each district, i.e., half the precincts in that district score above it and half below it. In the boxplot graph, the median for each district is shown as a white horizontal line within each box. The top of the box is the 75th percentile and the bottom is the 25th percentile, which can be read off the left axis scale. The "whiskers" for each box show the normal range of precinct scores for that district. Any dots above or below the whiskers are statistical outliers (extreme values) relative to that district's norm. For example, the low outliers shown for District 9 are for precincts 2901-2906 - they are much less "progressive" than the other precincts located in District 9.

** IQR = Interquartile range (75th minus the 25th percentile, also known as the "midspread") among precincts within each district. In the boxplot graph, the height of each box is equal to that district's IQR. In this application, the IQR is a measure of each district's ideological diversity across precincts - the higher the IQR, the more diverse.

A Statistical Tidbit for Determining Bragging Rights:

The 5 Highest PVI Scores

Prec	District	PVI	% Gonzalez Dec 03	% Newsom Dec 03	% Yes M Nov 03	% Yes L Nov 03
3901	9	97.35	83	17	40	85
3834	8	96.84	76	24	37	80
3644	6	96.14	79	21	39	84
3542	5	94.80	80	19	38	80
3917	9	93.26	80	20	35	85

The 5 Lowest PVI Scores

Prec	District	PVI	% Gonzalez Dec 03	% Newsom Dec 03	% Yes M Nov 03	% Yes L Nov 03
2731	7	6.68	20	80	74	34
2735	7	6.22	17	83	80	25
2729	7	5.16	19	80	77	39
2728	7	3.25	14	85	80	31
2734	7	3.22	17	82	87	28

ASSESSING THE PVI AS A SUMMARY MEASURE OF IDEOLOGICAL TENDENCIES AND VOTING PATTERNS IN RECENT ELECTIONS

Table 3 and the ten graphs that follow show that the PVI continues to serve well as a single-number summary of precinct ideological tendencies and voting patterns in San Francisco. As can be seen in Table 3, the PVI correlates strongly with nine of the ten items selected from the last four elections. The correlation coefficient r can vary from -1.00 (maximum negative or inverse correlation) to +1.00 (maximum positive correlation), with a coefficient of zero indicating no correlation at all on the assumption of a linear relationship. Most of the coefficients in Table 3 are high negative or high positive, indicating a strong correlation with the PVI and validating its use as a predictor of precinct voting tendencies on this scale of political ideology. In the case of precinct voting on Prop. J in the March 2004 election, however, the coefficient of -.14 (close to zero) indicates there was no correlation between the PVI and voting on that issue – a finding that is supported by a look at Figure 10. For whatever reasons (have fun!), voting on that proposition was not ideologically structured in any obvious way by San Francisco's dominant axis of polarization between progressives and conservatives.

The sequence of scatterplots shown in Figures 1-10 provide graphical backup for the conclusions drawn from Table 3. In each scatterplot, the scale of PVI scores is shown on the bottom axis and

the scale for the item of interest is shown on the left axis. The data points in each plot are for precincts, with BOS district numbers used as plotting symbols. We'll leave the interpretation of these graphs to you, but two points seem especially worth making here. (1) Figure 2, a scatterplot of the November 2003 Yes vote on Prop. L (Minimum Wage) versus the PVI, reveals a distinct branching of District 10 and District 11 precincts from the overall pattern, which is: the higher the PVI, the higher the % Yes vote, and the lower the PVI, the lower the % Yes vote on this issue. Whatever the level of PVI, voters in Districts 10 and 11 were much more inclined to support the proposed minimum wage increase than were voters in other districts. (2) Figure 6, a scatterplot of the December 2003 % absentee vote versus the PVI, provides a graphical picture of what everyone knows: The more progressive the precinct (as measured by the PVI), the lower the rate of absentee voting. (Conversely, the more progressive the precinct, the greater the reliance on election-day voting to determine the outcome in those areas.)

TABLE 3: ASSESSING THE PVI AS AN INDICATOR OF LIBERAL/PROGRESSIVE VOTING IN SF PRECINCTS IN THE OCTOBER 2003, NOVEMBER 2003, DECEMBER 2003, AND MARCH 2004 ELECTIONS

Item	Correlation with PVI (<i>r</i>)	
Pct Yes Gov Recall October 2003	-.79	See Fig. 1
Pct Yes Prop L Nov 2003	+.85	See Fig. 2
Pct Yes Prop M Nov 2003	-.85	See Fig. 3
Pct Vote Gonzalez Dec 2003 of Total Votes Cast	+.90	See Fig. 4
Pct Vote Newsom Dec 2003 of Total Votes Cast	-.91	See Fig. 5
Pct Absentee of Total Votes Cast Dec 2003	-.67	See Fig. 6
Pct Yes Prop 55 March 2004	+.87	See Fig. 7
Pct Yes Prop 56 March 2004	+.89	See Fig. 8
Pct Yes Prop E March 2004	+.91	See Fig. 9
Pct Yes Prop J March 2004	-.14	See Fig. 10

FIGURES 1-10

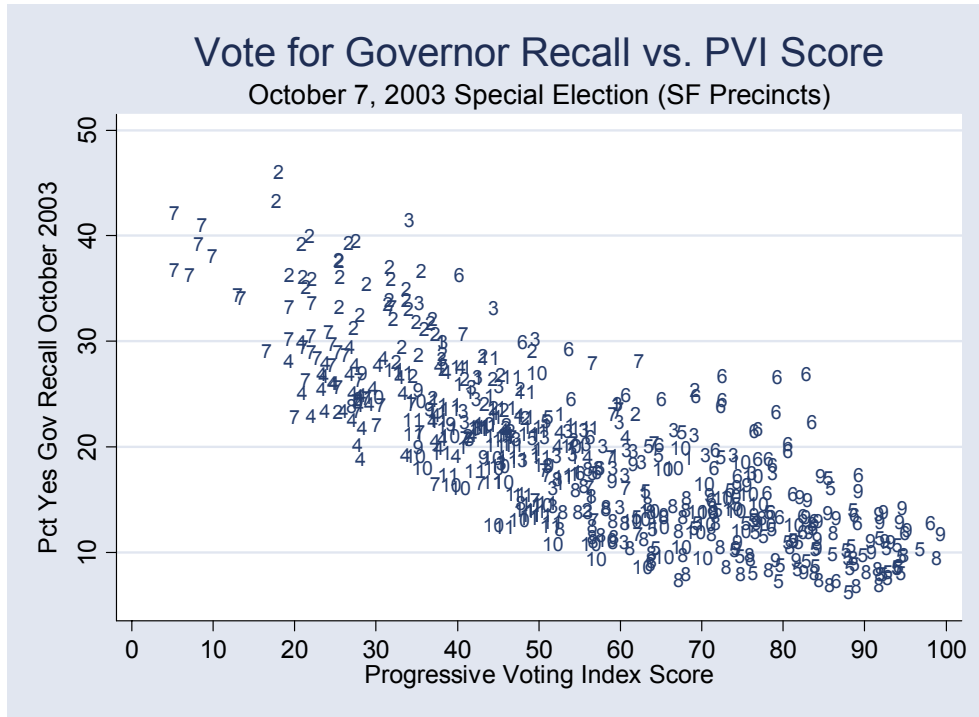


FIGURE 1

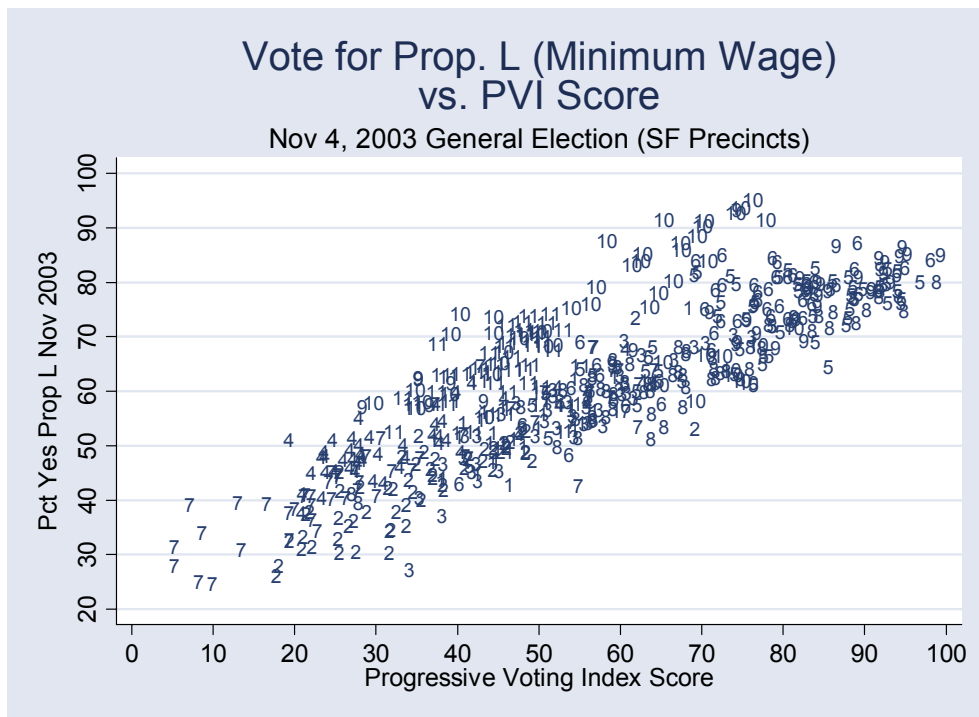


FIGURE 2

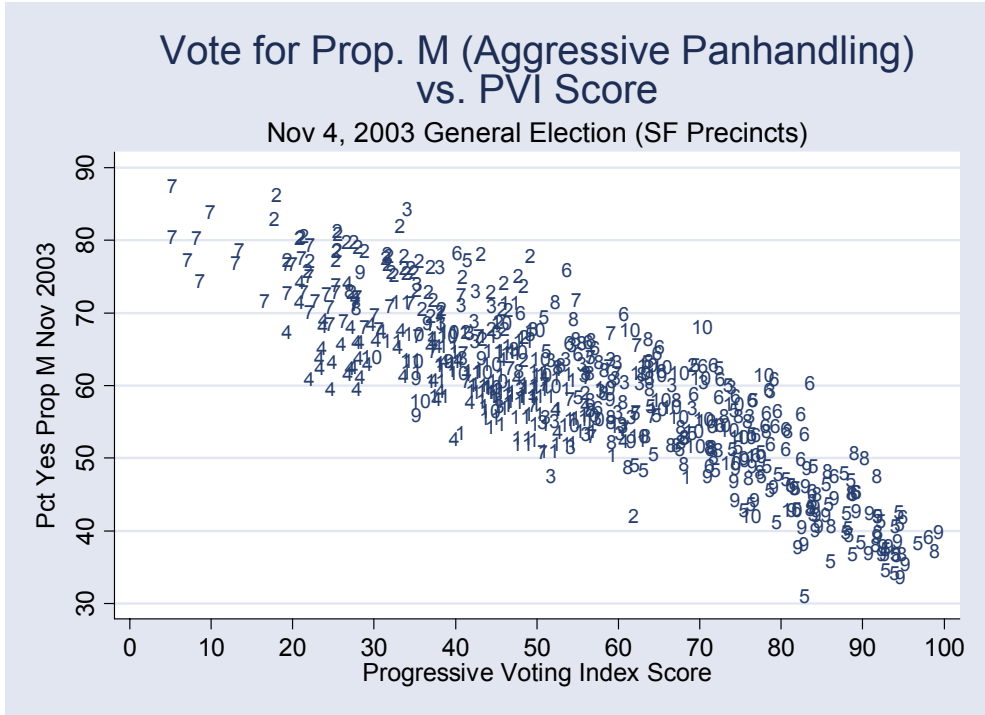


FIGURE 3

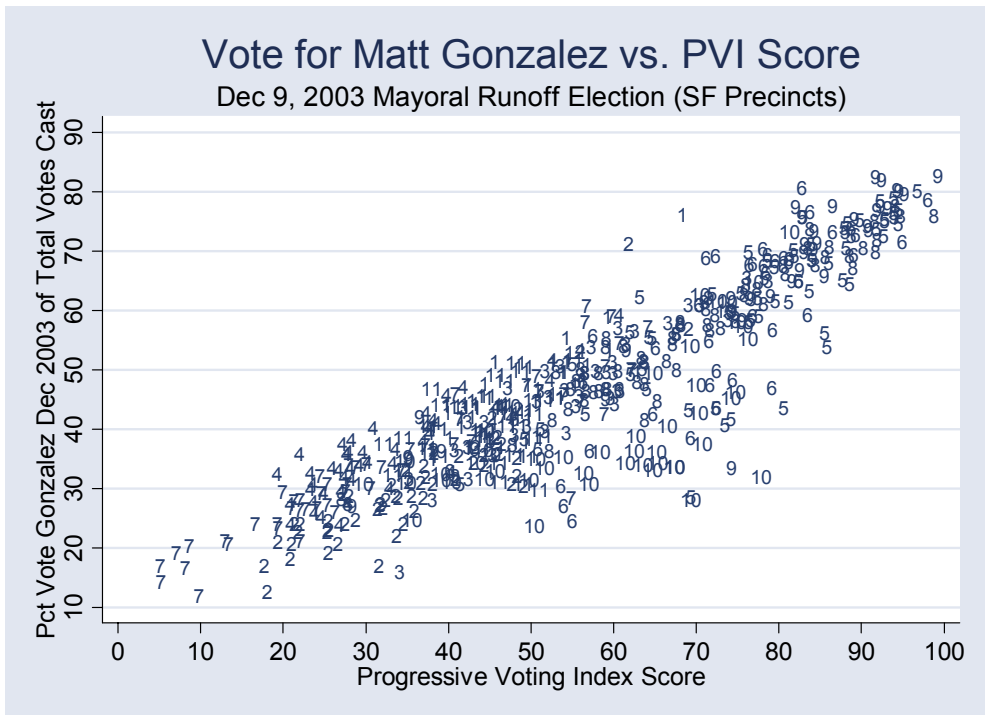


FIGURE 4

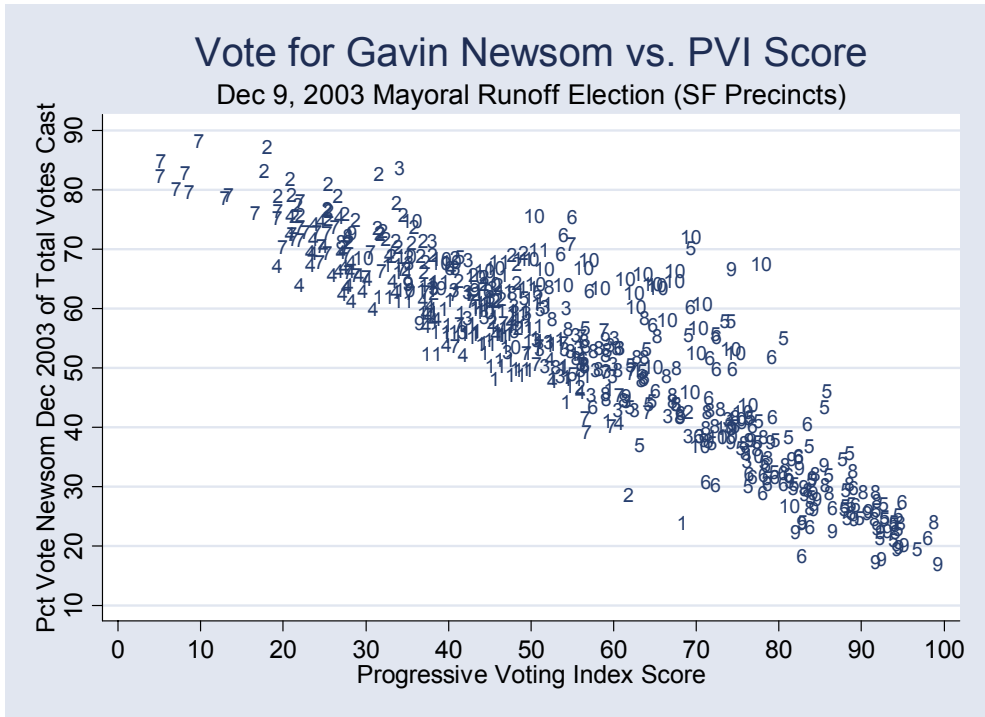


FIGURE 5

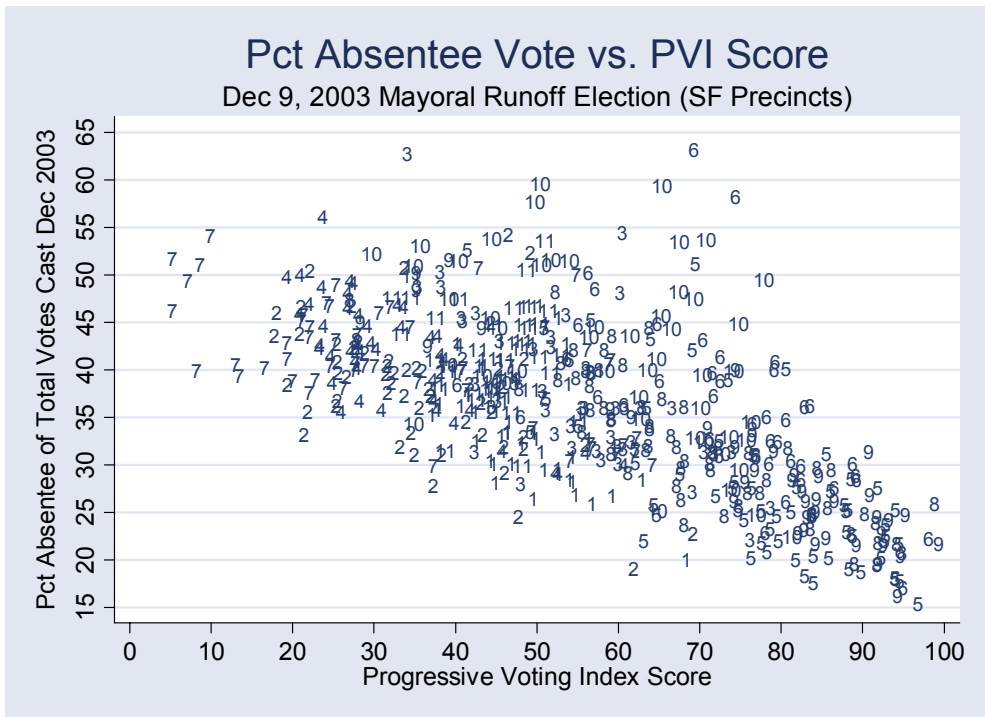


FIGURE 6

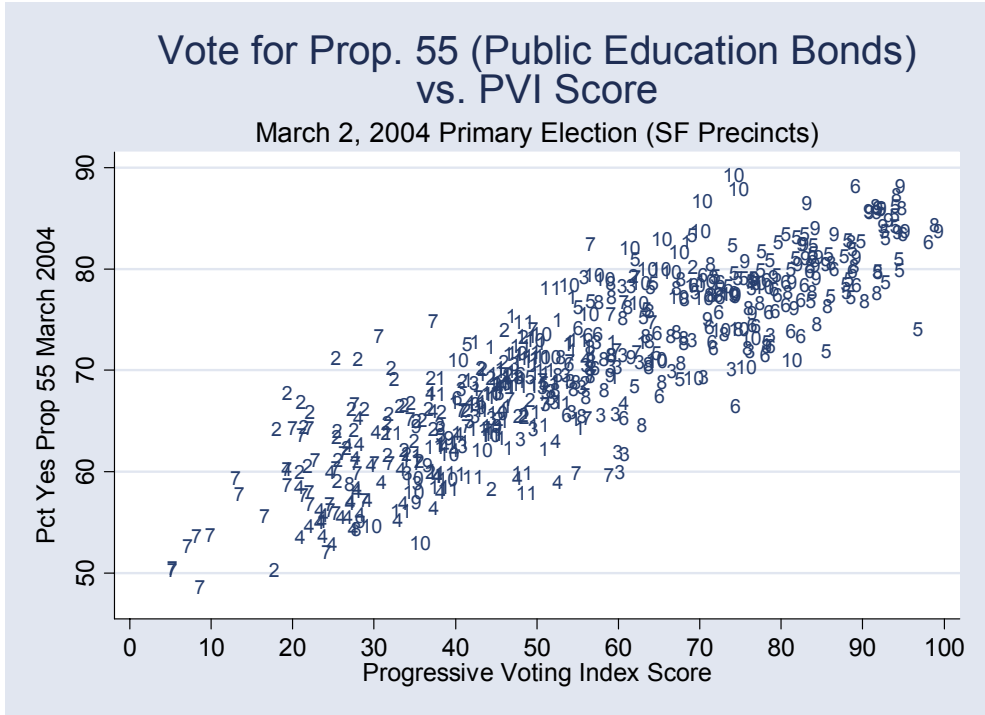


FIGURE 7

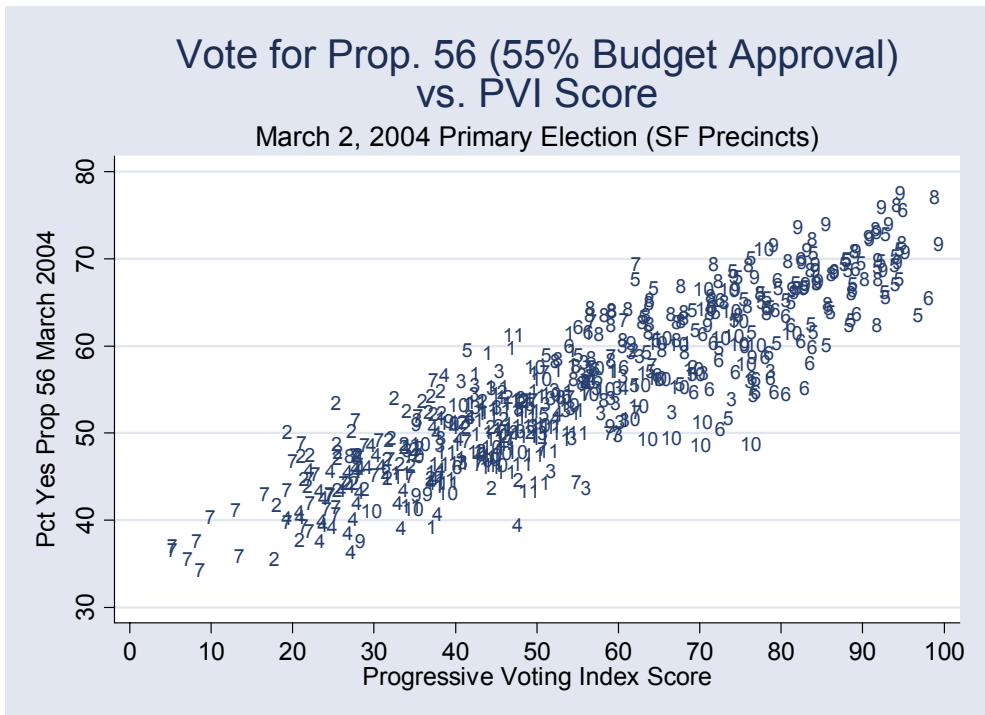


FIGURE 8

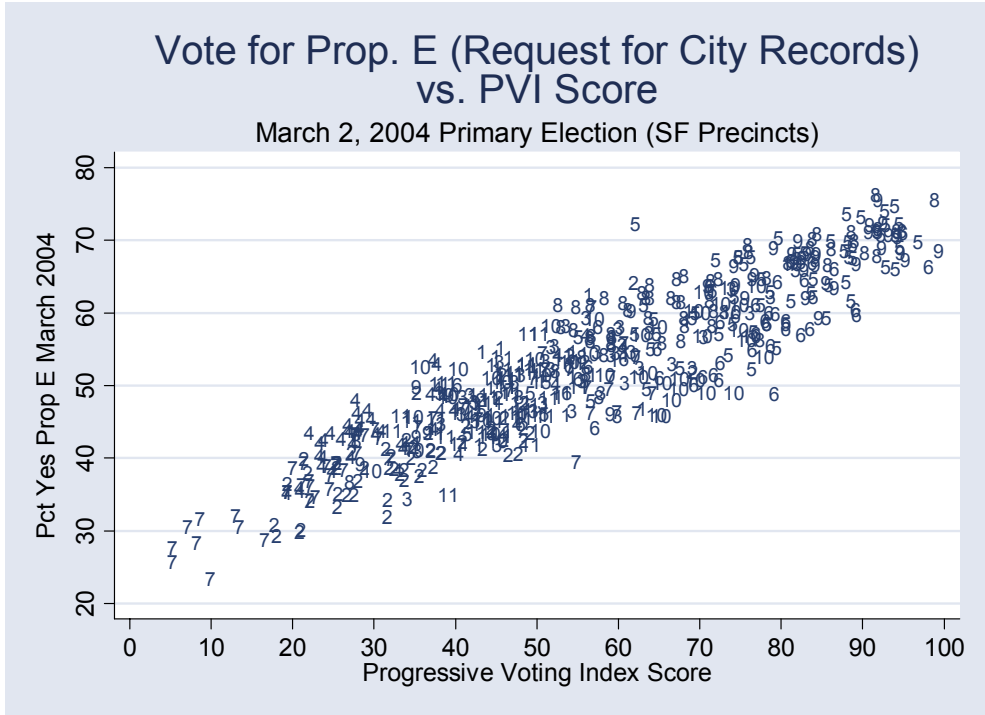


FIGURE 9

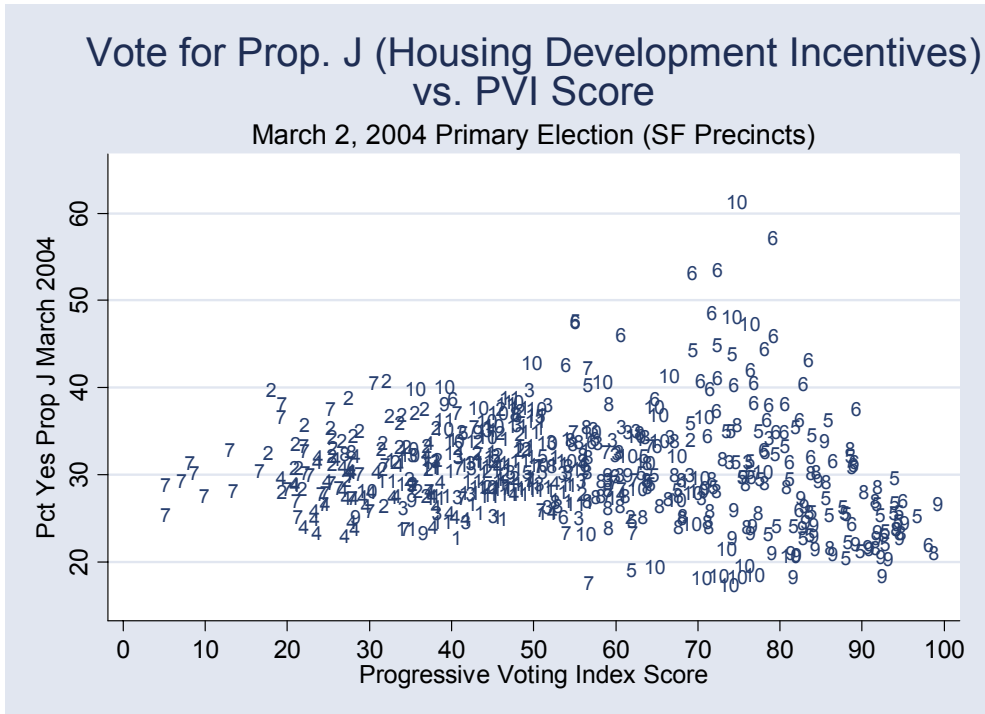


FIGURE 10

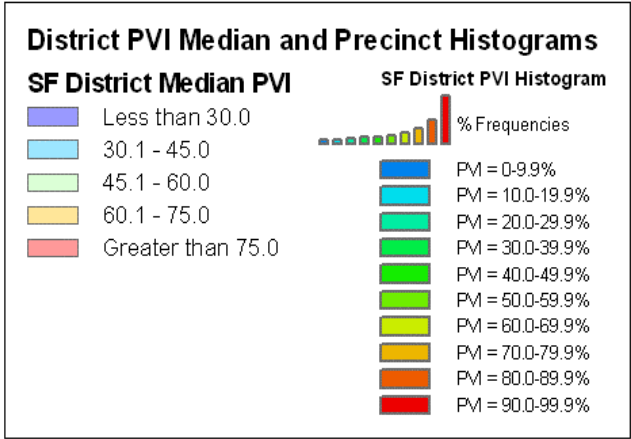
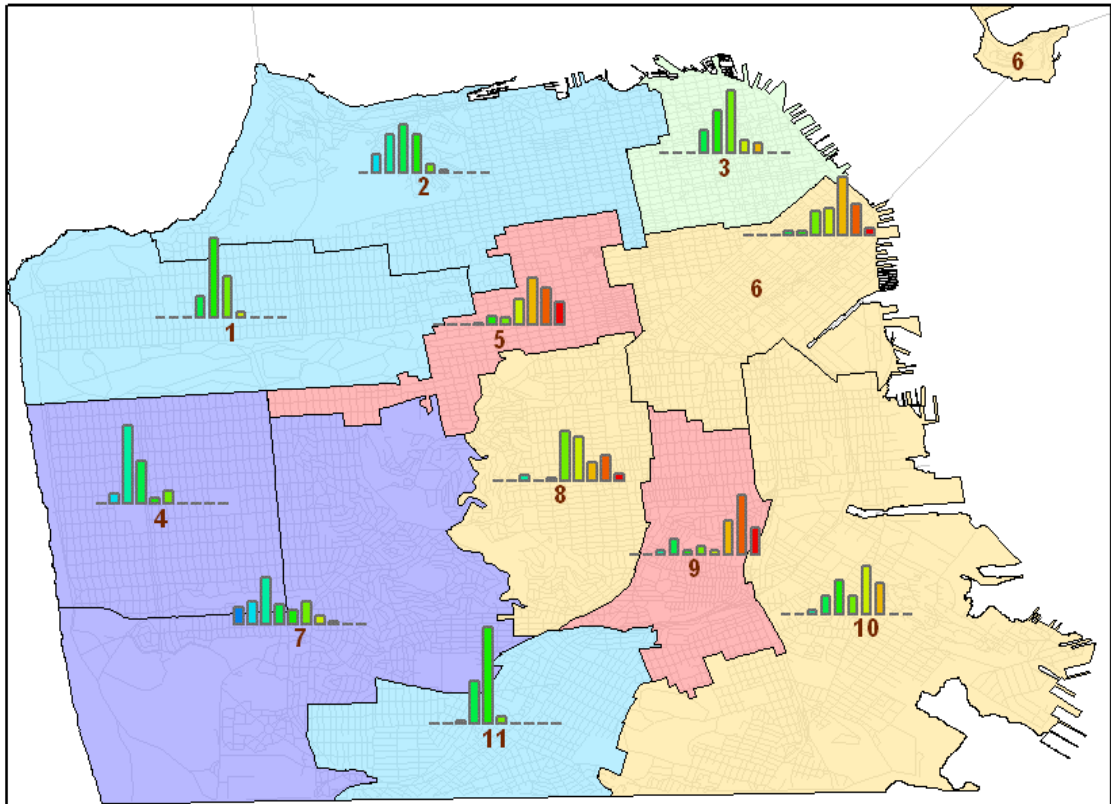
APPENDIX A

Map of District PVI Median and Precinct Frequencies

The following is a San Francisco district map. The underlying color is the median PVI score. The color code corresponds to the left-hand legend column. The bar chart is a histogram that shows the percentage of precincts that fall within the PVI categories in that district. The y-axis is the percentage of count while the x-axis – shown in the right hand legend column – is the PVI bin. The more columns shown, the larger the variance in precinct PVI scores within the district (like D7). Where there are fewer and taller columns, like in D11, there is more homogeneity within the precinct. The raw data is shown below.

TABLE 4: RAW DATA FOR DISTRICT MAP

DISTRICT	MEDIAN_PVI	IQR	PVI bins (bin range is header value to 9.9 percentage points higher).									
			0%	10%	20%	30%	40%	50%	60%	70%	80%	90%
1	44.4	10.4	0.0	0.0	0.0	14.9	53.2	27.7	4.3	0.0	0.0	0.0
2	32.8	17.1	0.0	11.7	25.0	31.7	25.0	5.0	1.7	0.0	0.0	0.0
3	52.2	15.0	0.0	0.0	0.0	15.2	28.3	41.3	8.7	6.5	0.0	0.0
4	26.8	11.8	0.0	6.5	52.2	28.3	4.3	8.7	0.0	0.0	0.0	0.0
5	77.5	18.9	0.0	0.0	0.0	1.5	6.2	4.6	16.9	30.8	24.6	15.4
6	74.9	14.6	0.0	0.0	0.0	2.2	2.2	15.6	17.8	37.8	20.0	4.4
7	26.4	29.4	10.9	14.5	30.9	12.7	9.1	14.5	5.5	1.8	0.0	0.0
8	65.2	19.5	0.0	0.0	3.1	0.0	1.5	32.3	29.2	12.3	16.9	4.6
9	80.9	16.4	0.0	0.0	2.4	9.8	2.4	4.9	2.4	22.0	39.0	17.1
10	60.5	24.8	0.0	0.0	2.0	12.0	22.0	12.0	32.0	20.0	0.0	0.0
11	43.5	8.5	0.0	0.0	2.4	28.6	64.3	4.8	0.0	0.0	0.0	0.0



APPENDIX B PRECINCT PVI SCORES

Prec	District	PVI
1101	11	42.02
1102	11	39.58
1103	11	47.65
1104	11	39.95
1105	11	44.26
1106	11	50.35
1107	11	52.49
1108	11	46.53
1109	11	43.15
1111	11	41.69
1112	11	45.58
1113	11	43.57
1114	11	43.53
1115	11	46.44
1116	11	46.11
1117	11	46.35
1118	11	44.51
1119	11	31.95
1121	11	44.06
1122	11	46.14
1123	11	45.61
1124	11	41.99
1125	11	47.01
1126	11	48.41
1127	11	45.41
1128	11	47.71
1129	11	48.78
1131	11	49.05
1133	11	29.58
1134	11	37.80
1135	11	36.31
1136	11	36.47
1137	11	36.14
1138	11	40.15
1139	11	45.73
1141	11	43.45
1142	11	34.84
1143	11	41.28
1144	11	34.98
1145	11	31.94
1146	11	35.42
1147	11	30.63
2001	10	37.73
2002	10	41.80
2003	10	27.10
2004	10	42.54
2005	10	47.97

2006	10	43.06
2007	10	44.95
2008	10	32.18
2011	10	47.16
2012	10	71.59
2013	10	72.16
2014	10	55.77
2015	10	36.57
2016	10	36.46
2017	10	32.29
2018	10	41.67
2019	10	40.67
2101	1	40.86
2102	1	40.56
2103	1	42.67
2104	1	51.86
2105	1	46.09
2106	1	44.86
2107	1	48.86
2108	1	42.30
2109	1	48.55
2111	1	47.84
2112	1	47.69
2113	1	54.32
2114	1	57.30
2115	1	52.04
2116	1	54.79
2117	1	50.62
2118	1	43.58
2119	1	38.67
2121	1	35.10
2122	1	41.25
2123	1	39.55
2124	1	44.52
2125	1	43.62
2126	1	44.37
2127	1	42.95
2128	1	41.95
2129	1	53.25
2131	1	52.73
2132	1	51.59
2133	1	42.40
2134	1	36.20
2135	1	42.96
2136	1	37.88
2137	1	41.50
2138	1	38.16
2139	1	36.00
2141	1	47.58
2142	1	44.34
2143	1	43.97
2144	1	42.35
2145	1	40.43
2146	1	50.60
2147	1	60.92
2148	1	52.37
2149	1	52.29

2150	1	57.51
2151	1	66.39
2200	2	20.15
2201	2	23.36
2202	2	25.30
2203	2	39.32
2204	2	46.39
2205	2	36.18
2206	2	19.10
2207	2	26.06
2208	2	29.67
2209	2	30.13
2211	2	36.35
2212	2	35.07
2213	2	42.44
2214	2	44.11
2215/2216	2	46.40
2217	2	53.97
2218/2219	2	46.50
2401	4	58.76
2402	4	50.67
2403	4	35.42
2404	4	35.83
2405	4	29.00
2406	4	37.85
2407	4	43.81
2408	4	54.08
2409	4	50.38
2411	4	45.65
2412	4	35.06
2413	4	25.78
2414	4	38.49
2415	4	39.81
2416	4	35.35
2417	4	21.64
2418	4	22.95
2419	4	18.93
2421	4	21.85
2422	4	25.48
2423	4	28.30
2424	4	22.70
2425	4	25.23
2426	4	26.18
2427	4	26.37
2428	4	35.76
2429	4	25.09
2431	4	25.91
2432	4	24.82
2433	4	30.94
2434	4	20.11
2435	4	36.68
2436	4	25.96
2437	4	21.77
2438	4	21.38
2439	4	21.36
2441	4	36.23
2442	4	31.36

2443	4	17.33
2444	4	24.01
2445	4	27.27
2446	4	27.69
2447	4	31.68
2448	4	24.86
2449	4	18.99
2451	4	26.32
2501/2502	5	53.10
2503	5	83.61
2504	5	62.71
2505	5	60.02
2506	5	65.56
2507	5	69.98
2508	5	76.31
2509	5	61.17
2511	5	73.48
2512	5	75.65
2513/2514	5	75.50
2515	5	72.05
2701	7	48.72
2702	7	58.75
2703	7	60.18
2704	7	25.97
2705	7	39.41
2706	7	52.07
2707	7	38.94
2708	7	29.99
2709	7	20.12
2711	7	24.35
2712	7	22.55
2713	7	47.55
2714	7	18.02
2715	7	20.80
2717	7	19.34
2718	7	26.85
2719	7	22.18
2721	7	17.41
2722	7	14.66
2723	7	23.39
2724	7	22.68
2725	7	23.36
2726	7	19.14
2727	7	28.10
2728	7	3.25
2729	7	5.16
2731	7	6.68
2732	7	7.89
2733	7	11.47
2734	7	3.22
2735	7	6.22
2736	7	25.65
2737	7	25.79
2738	7	20.19
2739	7	17.32
2741	7	33.45
2742	7	32.48

2743	7	49.03
2744	7	38.74
2745	7	54.62
2746	7	11.02
2747	7	20.11
2748	7	35.31
2749	7	28.62
2751/2754	7	52.90
2752	7	44.72
2753	7	54.19
2755	7	54.83
2756	7	62.21
2757	7	57.84
2758	7	60.35
2759	7	57.10
2761	7	40.84
2901	9	37.24
2902	9	41.25
2903	9	34.58
2904	9	26.38
2905	9	33.25
2906	9	33.24
3001	10	73.06
3002	10	71.21
3003	10	78.71
3004	10	62.17
3005	10	72.23
3006	10	67.85
3007	10	69.97
3008	10	70.95
3009	10	75.30
3010	10	66.62
3011	10	74.31
3013	10	62.10
3014	10	68.14
3015	10	67.47
3016	10	73.71
3017	10	47.81
3018	10	49.08
3019	10	63.91
3020	10	64.83
3021	10	59.87
3022	10	60.99
3023	10	41.79
3024	10	54.41
3025	10	60.10
3026	10	62.76
3027	10	67.67
3028	10	33.04
3031	10	51.36
3032	10	58.81
3033	10	66.81
3034	10	62.59
3035	10	64.75
3036	10	53.76
3200	2	59.87
3201	2	67.18

3202	2	18.93
3203	2	24.67
3204	2	29.71
3205	2	33.28
3206	2	29.87
3207	2	15.76
3208	2	19.43
3209	2	31.74
3210	2	19.89
3211	2	33.95
3212	2	35.00
3213	2	23.51
3214	2	23.62
3215	2	23.54
3216	2	32.57
3217	2	31.24
3218	2	35.30
3219	2	45.75
3221	2	42.41
3222	2	31.77
3223	2	16.11
3224	2	17.40
3225	2	25.53
3226	2	26.87
3227	2	33.59
3228	2	32.96
3229	2	43.37
3231	2	30.50
3232	2	29.50
3233	2	23.47
3234	2	32.03
3235	2	44.00
3236	2	41.36
3237	2	34.72
3238	2	38.88
3239	2	41.17
3241	2	43.75
3242	2	44.53
3243	2	47.18
3301	3	51.62
3302	3	40.39
3303	3	53.53
3304	3	43.16
3305	3	40.47
3306	3	38.78
3307	3	45.21
3308	3	52.16
3309	3	39.81
3311	3	32.16
3312	3	53.86
3313	3	40.42
3314	3	52.35
3315	3	36.12
3316	3	49.75
3317	3	54.09
3318	3	58.02
3319	3	59.60

3321	3	58.57
3322	3	48.73
3323	3	49.14
3324	3	50.20
3325	3	46.04
3326	3	49.80
3327	3	58.48
3328/3337	3	58.20
3329	3	42.44
3331	3	58.79
3332	3	60.60
3333	3	55.35
3334	3	36.30
3335	3	33.32
3336	3	43.43
3338	3	71.91
3339	3	68.52
3341	3	55.90
3342	3	57.96
3343	3	47.55
3344	3	38.88
3345	3	74.17
3346	3	57.14
3347	3	64.67
3348	3	57.69
3349	3	76.77
3351	3	67.12
3501	5	61.54
3502	5	47.24
3503	5	49.19
3504	5	48.87
3505	5	54.68
3506	5	39.47
3507	5	62.02
3508	5	70.40
3509	5	67.15
3510	5	71.55
3511	5	80.92
3512	5	84.09
3513	5	79.25
3514	5	79.94
3515	5	78.66
3516	5	90.74
3517	5	87.84
3518	5	85.98
3519	5	72.26
3521	5	77.50
3522	5	67.44
3523	5	74.64
3524	5	76.63
3525	5	81.71
3526	5	79.77
3527	5	90.30
3528	5	83.92
3529	5	90.90
3531	5	86.09
3532	5	81.98

3533	5	86.60
3534	5	92.56
3535	5	86.34
3536	5	85.77
3537	5	86.20
3538	5	74.36
3539	5	90.88
3541	5	91.98
3542	5	94.80
3543	5	92.05
3544	5	92.49
3545	5	89.85
3546	5	92.04
3547	5	86.83
3548	5	77.66
3549	5	74.39
3551	5	82.00
3552	5	72.74
3553	5	62.35
3554/3555	5	60.10
3601	6	78.67
3602	6	76.11
3603	6	79.22
3604	6	74.48
3605	6	69.73
3606/3607	6	68.40
3608	6	55.13
3609	6	54.37
3611	6	74.90
3612	6	69.56
3613	6	70.51
3614	6	77.19
3615	6	77.60
3616	6	72.46
3617	6	76.22
3618	6	76.71
3619	6	70.52
3620	6	76.51
3621	6	77.29
3622	6	84.52
3623	6	80.46
3624	6	78.60
3625	6	80.90
3626	6	67.36
3627	6	53.10
3628	6	58.72
3629	6	38.24
3630	6	74.90
3631	6	70.37
3632	6	93.03
3633	6	87.14
3634	6	81.83
3635	6	69.23
3636	6	81.54
3637	6	62.81
3638	6	52.00
3639	6	63.12

3640	6	51.71
3641	6	55.55
3642	6	46.04
3644	6	96.14
3645	6	86.82
3646	6	87.34
3647	6	80.43
3703	7	56.92
3801	8	52.82
3802	8	71.04
3803	8	89.92
3804	8	88.27
3805	8	70.32
3806	8	86.63
3807	8	82.46
3808	8	54.48
3809	8	57.28
3811	8	73.90
3812	8	87.04
3813	8	89.76
3814	8	83.71
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3821	8	65.23
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3833	8	92.16
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3837	8	56.26
3838	8	54.57
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3842	8	65.75
3843	8	84.16
3844	8	89.62
3845	8	57.10
3846	8	65.19
3847	8	66.07
3848	8	74.02
3849	8	81.59
3851	8	69.77
3852	8	50.27
3853	8	63.38
3854	8	50.64

3855	8	65.71
3856	8	69.52
3857	8	25.08
3858	8	51.03
3859	8	69.37
3861	8	75.43
3862	8	25.87
3863	8	45.80
3864	8	61.40
3865	8	66.20
3866	8	55.65
3867	8	57.10
3868	8	59.24
3869/3871	8	57.20
3872	8	54.60
3901	9	97.35
3902	9	89.92
3903	9	83.54
3904	9	90.38
3905	9	81.18
3906	9	89.82
3907	9	87.24
3908	9	82.33
3909	9	84.53
3911	9	91.25
3912	9	92.61
3913	9	92.36
3914	9	90.53
3915	9	80.85
3916	9	81.06
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3933	9	73.61
3934	9	68.99
3935	9	59.58
3936	9	57.08
3937	9	74.48
3938	9	72.35