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The reliability of hospital scores for the Cancer Patient Experience Survey: analysis of publicly reported patient survey data

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Declarations.

Competing Interests. The authors report grants from MacMillan Cancer Support, during the conduct of the study. GA and GL have acted as academic consultants providing methodological advice to NHS England Insight team regarding the Cancer Patient Experience Survey.

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Ethical Approval. This study is entirely based on publically available data and so ethical approval is not required.

Guarantor. GA is guarantor for this paper

Contributorship. GA and GL conceived and designed the study. GA developed the methodological framework. MGC performed the analysis. All authors contributed to the interpretation of findings and the drafting of the manuscript.

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Data sharing statement. This study is based entirely on publically available data which can be found at http://www.ncpes.co.uk/reports/2016-reports/local-reports-1/data-tables-1

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Abstract

Objectives To assess the degree to which variations in publicly reported hospital scores arising from the English Cancer Patient Experience Survey (CPES) are subject to chance.

Design Secondary analysis of publically reported data.

Setting English National Health Service hospitals

Participants Patients who were recently treated for cancer in one of 146 hospitals and responded to the 2016 English Cancer Patient Experience Survey

Main outcome measures Spearman-Brown reliability of hospital scores on 51 evaluative questions regarding cancer care.

Results Hospitals varied in respondent sample size with a median hospital sample size of 419 responses (range 31 - 1972). There were some hospitals with generally highly reliable scores across most questions, whereas other hospitals had generally unreliable scores (the median reliability of question scores within individual hospitals varied between 0.11 and 0.86). Similarly, there were some questions with generally high reliability across most hospitals whereas other questions had generally low reliability. Of the 7,377 individual hospital scores publically reported (146 hospitals by 51 questions, minus 69 suppressed scores), only 34% reached a reliability of 0.7, the minimum generally considered to be useful. In order for 80% of the individual hospital scores to reach a reliability of 0.7, some hospital would require a four-fold increase in number of respondents; although in a few other hospitals sample sizes could be reduced.

Conclusions The English Patient Experience Survey represents a globally unique source for understanding cancer patient experience, but in its present form it is not reliable for high stakes comparisons of the performance of different hospitals. Revised sampling strategies and survey questions could help increase the reliability of hospital scores, and thus make the survey fit for use in performance comparisons.

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Strengths and limitations of this study

- Although there are thousands of healthcare quality indicators in current use, most are bereft of any evaluation of their statistical reliability. This paper addresses this lack of evidence for a globally unique patient experience survey.
- By making use of the actual data used in public reporting of a high profile survey with a high response rate we are able make direct inferences about the quality indicators under consideration.
- By understanding the different reasons behind hospital scores lacking in reliability we are able to suggest ways of increasing the reliability of the items in the relevant survey.
- This study only considers the crude hospital scores and not those adjusted for patient case-mix which have recently been reported. However, as we expect any such adjustment to result in lower reliabilities the conclusions of the study remain valid.

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Introduction

'Before you can improve it you first have to measure it' is a common adage of the quality improvement movement. Coupled with a tendency towards greater public accountability, this maxim has led to an ever-increasing number of measurement initiatives, typically underpinned by public reporting of scores of healthcare organisations.[1, 2]

Together with patient safety and clinical effectiveness, patient experience is being increasingly accepted as a distinct dimension of care quality. Relatedly, policy-makers regularly commission large scale nationwide patient surveys in the US and the UK.[3-5] Most such surveys are aimed at patients with diverse range of conditions. However, a repeatable disease-specific survey for cancer patients was launched in England in 2010, and its findings are reported publicly and used by healthcare improvement teams in constructing and evaluating action plans.

The statistical reliability of measures of care quality remains a concern, as often the sample sizes involved in organisational comparisons are small. Ideally, measurement initiatives should follow prior examination the statistical properties of indicators, but this is rarely the case. Some previous UK work has examined the reliability of indicators of stage at diagnosis, diagnostic activity, general practice patient experience and general practice high risk prescribing, on the whole providing cautionary findings indicating the risk of unreliability of organisational rankings.[6-10] Similar approaches and findings have been reported from the US and Dutch settings.[11-17]

These considerations highlight the need for examining the reliability of hospital scores for the Cancer Patient Experience survey, and have motivated us to examine this question empirically in this study. Its aim was to provide a detailed profile of the statistical reliability (and therefore of the role of chance) in hospital scores derived from the Cancer Patient Experience Survey.

Methods

Data

Data were analysed relating to respondents to the 2016 National Cancer Patient Experience Survey. Respondents comprised patients aged 16 years and above who were treated for cancer in English National Health Service (NHS) hospitals during April-June 2016. The patients had relevant ICD10 codes for cancer (C00-99 excluding C44 and C84, and D05) and were known to be alive on the day of survey mail out. Questionnaires were sent by post and responses could be made by post, online or using a telephone translation service. Details of

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the survey and method of administration have been published previously[18]. In this study we make use of publically reported hospital level data[19].

Survey questions have up to 7 response options which are dichotomised for public reporting such that hospitals scores represent the percentage of patients reporting a positive experience for each question. Scores are produced for hospital trusts and Clinical Commissioning Groups (CCG). Further details are given in the Technical Documentation [20].

We calculated the Spearman-Brown (inter-unit) reliability of each hospital score. This is equivalent to the proportion of variation in hospital-level mean scores (for a given hospital sample size) attributable to the true (underlying) variation between them. Following previous work, we estimated reliability by partitioning the observed variability in hospital scores into two components, variability between hospitals and variability within hospitals, using mixed effects logistic regression models[6, 21]. For each question, a random intercept model (with no fixed effects other than the constant) was used to estimate the between hospital variance on the log-odds scale. This variance is a measure of the true (underlying) variation which can be thought of as that which would be seen with very large sample sizes in each hospital, such that the influence of sampling variation would be minimal [6, 21]. Since our scores are binary measures, the within hospital variance also depends on the level of achievement at each hospital, and can be described by the binomial distribution. In this context, for each question the reliability λ of hospital i is given by

$$\lambda_i = \frac{\sigma_b^2}{\sigma_b^2 + \frac{1}{p_i(1-p_i)n_i}} \quad (1)$$

Where σ_b^2 is the true (underlying) between hospital variance on the log-odds scale, p_i is the observed proportion of patients reporting a positive experience in hospital i and n_i is the sample size of hospital i.

Where less than 21 responses were received for an individual question for a hospital, results were not publicly reported. Of the 148 hospitals included in the survey there were two hospitals with less than 21 responses for every question. We excluded these two hospitals from our analysis. However there remained 69 suppressed scores (from 18 hospitals) in the publically reported data due to low numbers of respondents to certain questions applicable to only some patients. These scores were excluded from the analysis.

We calculated reliability for every hospital score on each question (a total of 146 hospitals multiplied by 51 questions = 7,446 individual scores, minus 69 suppressed scores = 7,377 individual scores).

Additionally, the model outputs were used to estimate the increase in sample size required for each hospital to reach a reliability of 0.7 for each question [6, 21]. We used R version 3.4.4 for all analyses.

Patient involvement

The Cancer Patient Experience Survey development and administration are supported by an advisory group which includes patient advocates. The present study forms part of a wider project funded by MacMillan Cancer Support for which there is an advisory group with patient representative participation.

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Results

Overall, there were 72,756 respondents to the National Cancer Patient Experience Survey in 2016 (response rate 66.3%) who were treated at the 146 hospitals included in our analysis. Hospitals varied in respondent sample size with a median of 419 responses (range 31 - 1972). Due to different sections of the questionnaire corresponding to different care pathways, not all questions were applicable to all patients and so the number of respondents varied considerably for each of the 51 questions. The number of respondents answering individual questions varied between 15,968 (22%) and 71,773 (99%) with a median of 52,786 (73%). The number of respondents for each question in each hospital is shown in Figure 1 and supplementary material Table 1.

[Insert Figure 1.]

The percentage of patients reporting a positive experience was highly variable between questions and between hospitals (Figure 2 and supplementary material Table 2). The median percentage of patients reporting positive experience across individual questions was 79% (range 29% - 96%) while the corresponding median across individual hospitals was 75% (range 51% - 82%).

[Insert Figure 2.]

Figure 3 (and supplementary material Table 3) shows the reliability of the score for each question at each hospital. There were some hospitals with generally high reliability across most questions, whereas others had generally low reliability across survey items. The median reliability of question scores within individual hospitals was 0.60 (range 0.11 – 0.86). Similarly there were some questions with generally high reliability whereas others had generally low reliability. The median reliability of hospital scores within individual questions was 0.58 (range 0.21 – 0.93).

[Insert Figure 3.]

Given that reliability depends on the sample size, the between hospital variance and the hospital performance, we can examine how these factors influence reliability. Hospitals which tended to have low reliability also had small sample sizes. Also questions with low reliability tended to be those where the between-hospital variance is low. However, there are some exceptions to this which can be seen as the horizontal lines composed mostly of red squares in Figure 3. Some CPES questions are unreliable across all hospitals because they have, across all hospitals, a small number of respondents to that particular question. Examples include questions only applicable to patients treated by radiotherapy (questions 44 and 45). In general, questions with small sample sizes relate to patients on a particular care pathway. Other cases of low reliability can be seen in questions for which hospitals performance is consistently high (questions 5 and 25).

Overall the reliability of hospitals scores for the survey is low. Of the 7,377 individual hospital-question pairs, only 34 % reached a reliability of 0.7, the minimum generally considered to be useful. As it is possible to improve reliability by increasing the sample size we calculated how many multiples of the current sample size would be required to reach a reliability of 0.7 for each question. 80% of the individual hospital scores would have

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achieved a reliability of 0.7 or more with 4 times as much data (or within 4 years of data collection, assuming yearly surveys).

Discussion

In this study we have profiled the reliability of a high-profile national patient experience survey for cancer patients. Our findings show that about two-thirds of hospital scores in this survey do not meet reliability levels generally accepted as useful. In practical terms this means that identification of hospitals that are performing well in specific aspects of care is hampered due to the influence of chance. The lack of reliability can be attributed to different factors which have variable influence.

Although there are thousands of healthcare quality indicators in current use, most are bereft of any evaluation of their statistical reliability. Patient experience scores of English general practices arising from early waves of the GPPS survey were found to have very high reliability, enabling subsequent reductions in the survey sample. [7, 8] In contrast, the present study, examining the reliability of CPES hospital scores for the first time, suggests the need for increases in the survey samples (see below). The present study forms part of an emerging body of literature examining the reliability of a diverse range of quality indicators, including from the UK, the US and The Netherlands[6-17, 20, 21]; we would nonetheless like to re-emphasise the mismatch between the very large number of indicators in current use and the small number of indicators that have been profiled for their reliability.

The key strength of this study is the use of the actual data used in public reporting of a high profile survey with a high response rate. Its main limitation is that our analysis does not take into account the influence of patient case-mix. Certain patient groups have systematic tendencies towards reporting positive experiences compared to others[22, 23] and for this reason the results of the survey are reported in both adjusted and unadjusted form. Nonetheless, as patient case-mix explains some of the variability between hospitals[24], had we calculated the reliability of case-mix adjusted scores we would have found the reliability would have been even lower than that presented here.

There are some hospitals that have low reliability for most questions as they treat a small number of patients, meaning that the uncertainty on their scores is inherently high. Further, there are some questions with low reliability due to limited true (underlying) variation between hospitals. In such cases, it is very hard to distinguish between hospitals since they are all performing at a similar level. As a consequence, in the absence of very large sample sizes, the observed variability between hospitals will be dominated by chance. A particular example of this phenomenon occurs for questions whose performance is consistently high/low across hospitals. It is harder to distinguish hospitals when performance is close to 0% or 100%. Lastly, there are other questions with a small number of respondents as they are applicable to only subsets of patients. In brief the key mechanisms leading to low reliability are small hospital-level respondent sample, limited variability between hospitals (including because of ceiling/flooring effects) and small survey-level respondent sample.

Given one of the main uses of NCPES is to inform hospital level performance, one might suggest that in its current form the survey is not fit for one of its main intended purposes (though it should be noted that the reliability limitations we report do not affect the use of the survey for providing national-level intelligence about the experience of cancer patients across

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English hospitals). It could be argued that rather than suppressing score made on the basis of less than 20 respondents as is currently done, all scores which have a reliability below 0.7 should be suppressed. Work in other contexts have shown that when reliability of metrics is low there is a large amount of misclassification of performance.[21, 25] At the very least we believe that users of the survey results should be made aware of the reliability of the hospital scores (with such reliability estimates accompanying the publicly reported scores) so that an informed interpretation can be made by patients, clinicians, managers and members of the public. There is a range of reasons why such transparent reporting of reliability of hospital scores may be useful. For example, a hospital may chose to focus improvement efforts on those questions where they perform worse than average *and* where they know their scores to be reliable. As we already noted, hospital comparisons are not the only purpose of the NCPES. National assessments of patient experiences are supported by CPES and these data have been used to investigate variation and disparities in care between patient groups[22, 23]. For these uses that do not involve organisational comparisons, concerns about the lack of inter-unit reliability are not applicable.

There are various ways in which the survey could be changed in response to these findings. Firstly, by redesigning the survey instrument or related reporting conventions. For example, questions where the variability between hospitals is very low could be considered as candidates for removal from subsequent survey waves as there is little point in classifying hospitals on aspects of care for which they have no tangible differences between them. A similar approach could be taken for questions where hospital performance is very high, although it may also be possible to add to or redesign the response options (or associated reporting conventions) to bring the mean reported scores closer to 50% - which will increase the reliability of these items. We do note that in both these situations there is something to be celebrated as a lack of variability suggests equitable healthcare delivery and -in the context of 'ceiling' effects, a high performance implies high quality health care delivery. However, continued measurement of such aspect may not be the best use of patient survey resources. It is not without irony that the aims of quality improvement efforts underpinned by patient surveys are to improve service and reduce disparities, both of which reduce reliability and in turn reduce the usefulness of such survey items.

Another way by which reliability could be increased is to increase the sample size. Currently the NCPES sample consists of all patients treated in a particular three-month period. If a whole year sample was used instead we would have up to four times as many patients available. Our findings suggest that the vast majority of hospitals-level scores in such a case would be reliable, though of course there would be an increase in cost of delivering the survey. Rather than continuing with the current 'census' approach (whereby all patients who fit eligibility criteria during the survey sampling period form part of the sampling frame), probability sampling could be used. This would mean surveying more patients than is currently done in hospitals treating small numbers of cancer patients and fewer than currently done in those treating many cancer patients, potentially having little impact on the total sample size. Fixed target respondent numbers per unit of assessment are already used in a number of NHS and international surveys[4, 5]. Aggregating multiple years of survey results will also improve reliability, though it will reduce the timeliness of scores and potentially reduce the usability of the findings.

Conclusion

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The English Patient Experience Survey represents a globally unique source for understanding cancer patient experience, but in its present form it is not reliable for high stakes comparisons of the performance of different hospitals. In profiling the survey we have found that around two-thirds of hospital scores are not reliable. This severely hampers the use of this survey for hospital comparisons and raises questions over the suitability of its current design. Classifying hospitals as being a poor performer on an unreliable question may lead to unfair reputational loss and misplaced quality improvement efforts resulting in an opportunity cost. Classifying hospitals as high performers on unreliable questions may lead to false reassurance in related areas thus missing the opportunity for improvement. Redesigning the questions and sampling strategy used could dramatically improve the percentage of reliable hospital scores and thus making the survey far more useful.

Figure legends

Figure 1 Sample sizes for each of the 146 hospitals included in the analysis by question (CPES 2016). Each rectangle corresponds to a single hospital and question. Its colour indicates one of five sample size categories as shown on the legend. The exact values for each cell in this plot are provided in supplementary material Table 1.

Figure 2 Proportions of patients reporting a positive experience by question and for each of the 146 hospitals included in the analysis (CPES 2016). Each rectangle corresponds to a single hospital and question. Its colour indicates one of five proportions categories as shown on the legend. The exact values for each cell in this plot are provided in supplementary material Table 2.

Figure 3 Main central grid: Reliability of hospital scores for each of the 146 hospitals included in the analysis (CPES 2016). Each rectangle corresponds to a single hospital and question. Its colour indicates one of four reliability categories as shown on the legend. Left hand side plot: The variance for each question on the log odds scale. The order of the questions has the same order than that of the main grid and is sorted from the question with lowest between hospital variance to the question with greatest between hospital variance. Bottom plot: The sample size for each hospital in terms of the total number of responders. The order of the hospitals has the same order than that of the main grid and is sorted from the hospital with the smallest sample size to the hospital with greatest sample size. The exact values for each cell in this plot are provided in the supplementary material Table 3.

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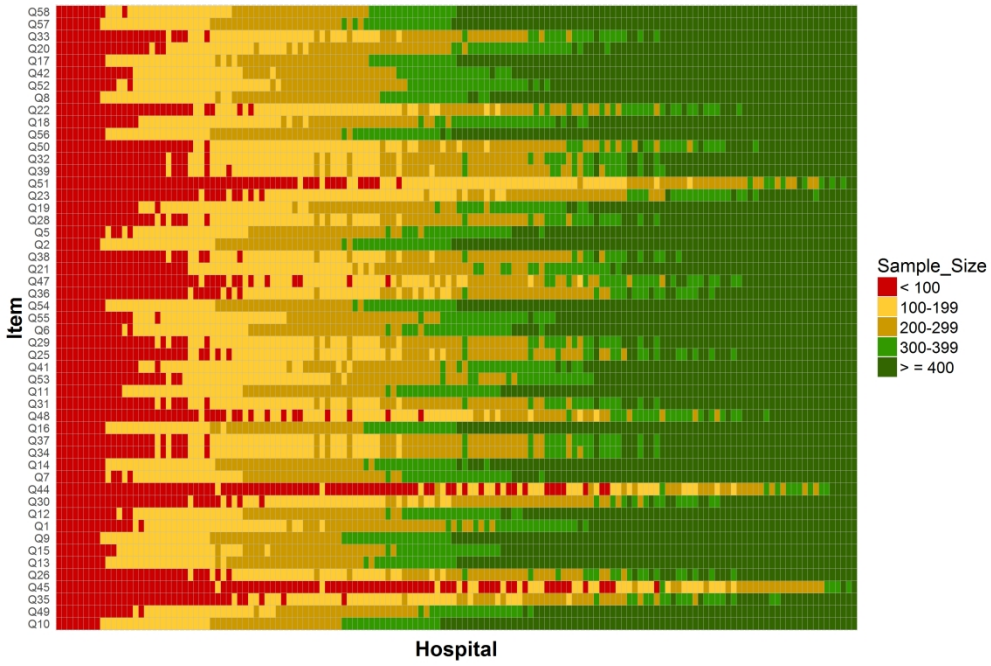

Figure 1 Sample sizes for each of the 146 hospitals included in the analysis by question (CPES 2016). Each rectangle corresponds to a single hospital and question. Its colour indicates one of five sample size categories as shown on the legend. The exact values for each cell in this plot are provided in supplementary material Table 1.

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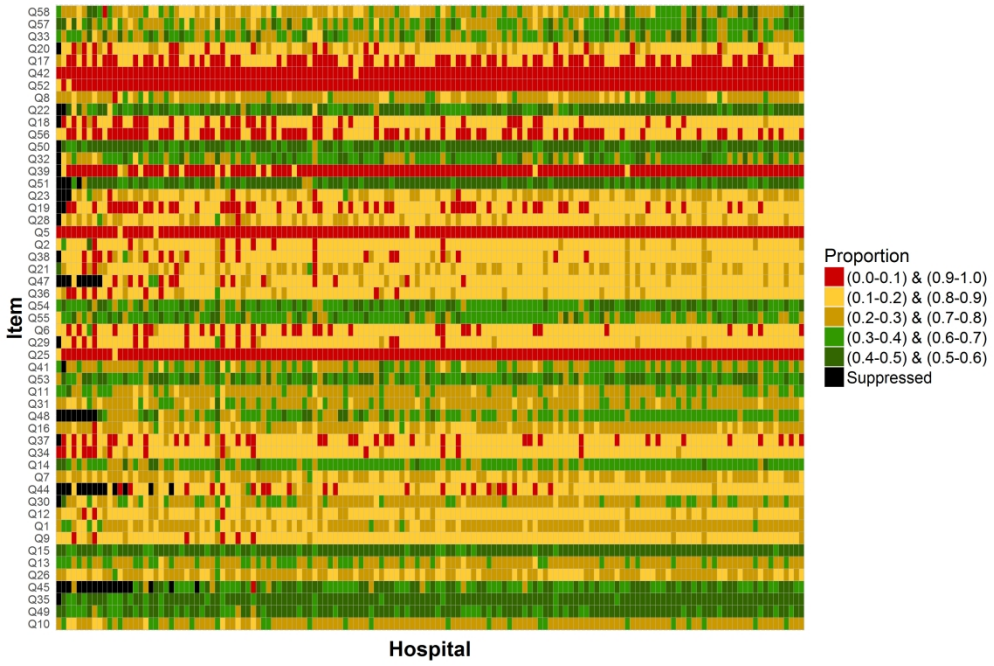

Figure 2 Proportions of patients reporting a positive experience by question and for each of the 146 hospitals included in the analysis (CPES 2016). Each rectangle corresponds to a single hospital and question. Its colour indicates one of five proportions categories as shown on the legend. The exact values for each cell in this plot are provided in supplementary material Table 2.

304x203mm (300 x 300 DPI)

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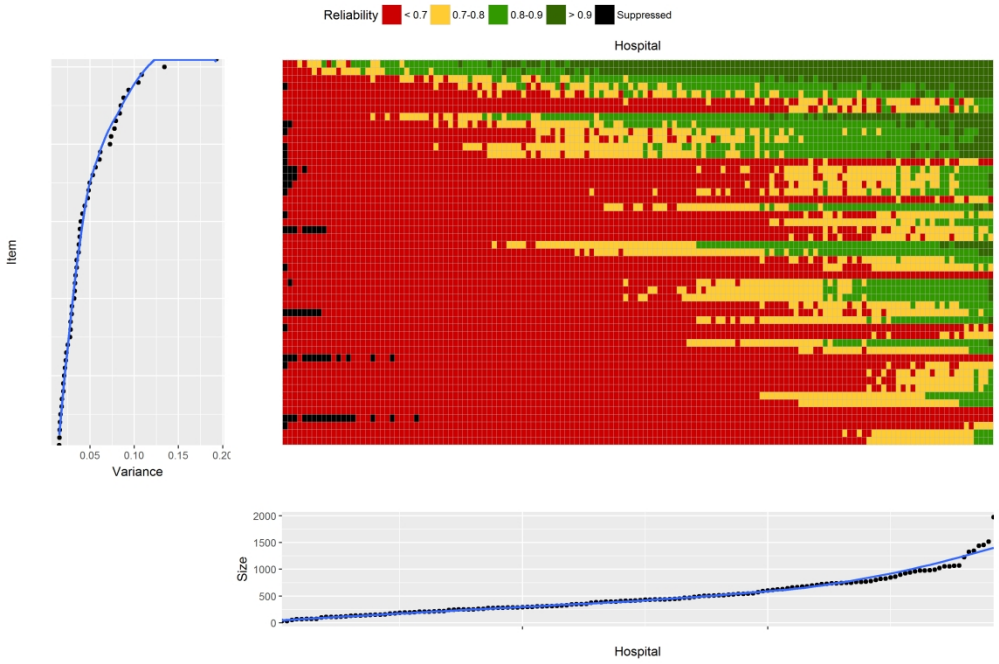

Figure 3 Main central grid: Reliability of hospital scores for each of the 146 hospitals included in the analysis (CPES 2016). Each rectangle corresponds to a single hospital and question. Its colour indicates one of four reliability categories as shown on the legend. Left hand side plot: The variance for each question on the log odds scale. The order of the questions has the same order than that of the main grid and is sorted from the question with lowest between hospital variance to the question with greatest between hospital variance. Bottom plot: The sample size for each hospital in terms of the total number of responders. The order of the hospitals has the same order than that of the main grid and is sorted from the hospital with the smallest sample size to the hospital with greatest sample size. The exact values for each cell in this plot are provided in the supplementary material Table 3.

304x203mm (300 x 300 DPI)

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Table 1. Sample sizes by question for each of the 146 hospitals included in the analysis (CPES 2016). the cells in Figure 1.

Questions \ Hospitals	RQX	RRJ	RT3	RMP	RPC	REP	RAN
Q10	31	30	53	71	70	73	74
Q49	22	27	44	62	54	68	63
Q35	20	23	34	45	33	52	44
Q45	6	6	1	22	6	13	17
Q26	23	27	46	48	63	64	62
Q13	29	30	44	65	61	67	66
Q15	27	29	35	60	54	64	61
Q9	30	31	53	69	68	71	73
Q1	23	21	31	56	54	61	58
Q12	29	23	45	65	54	64	58
Q30	18	23	41	41	40	50	57
Q44	8	6	2	22	7	15	18
Q7	27	26	47	62	55	54	67
Q14	29	31	47	67	64	68	66
Q34	21	28	48	54	50	66	62
Q37	20	28	48	53	50	66	63
Q16	29	30	50	67	69	71	68
Q48	5	1	2	20	6	15	6
Q31	21	28	48	53	50	66	63
Q11	29	28	37	60	57	65	61
Q53	21	22	35	51	43	48	55
Q41	23	19	28	51	40	47	51
Q25	23	27	47	49	66	65	61
Q29	20	28	49	55	50	64	63
Q6	27	27	46	62	56	54	66
Q55	24	28	38	49	57	54	50
Q54	29	32	49	68	67	71	71
Q36	21	26	44	50	45	63	58
Q47	6	2	4	22	8	16	6
Q21	24	23	33	53	38	44	44
Q38	18	27	47	49	48	62	61
Q2	31	32	50	70	70	72	71
Q5	26	26	46	63	55	54	63
Q28	20	28	49	54	49	65	63
Q19	17	19	36	58	44	57	50
Q23	18	14	20	39	23	23	32
Q51	18	14	18	30	17	25	38
Q39	19	28	44	53	47	64	56
Q32	20	28	48	54	50	66	63
Q50	19	23	24	59	29	38	53
Q56	30	32	49	71	68	73	72
Q18	18	21	38	62	48	60	55
Q22	17	20	26	47	24	40	43
Q8	26	30	47	67	69	71	68
Q52	25	25	47	59	56	58	55

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Q42	23	21	33	61	61	54	60
Q17	29	27	47	68	67	70	68
Q20	19	24	34	61	45	57	51
Q33	21	28	48	54	49	66	62
Q57	29	32	48	69	66	73	71
Q58	29	26	49	66	64	69	70

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These values correspond to

RGM	RBQ	R1F	RKE	RE9	RJ6	RVY	RA4	RJN
75	101	107	110	112	115	118	133	134
70	84	83	86	88	89	88	102	97
33	59	49	50	44	50	35	52	43
16	15	16	20	14	19	11	19	33
48	79	69	57	46	68	52	74	76
62	95	101	106	110	108	116	127	131
57	89	94	94	100	101	102	115	124
75	100	108	105	110	112	118	131	133
45	71	70	89	82	79	92	104	83
66	87	93	99	100	96	99	110	115
48	70	61	49	53	64	42	60	50
16	16	20	22	16	22	12	22	36
73	80	100	86	96	103	94	117	108
67	96	103	103	106	109	112	123	130
53	83	75	57	57	76	51	79	66
53	83	75	57	57	76	52	79	66
70	99	102	106	108	106	112	128	131
11	21	28	55	52	40	44	60	62
53	82	75	56	57	76	51	78	65
64	85	94	95	97	103	103	114	120
51	73	71	81	84	75	83	82	98
48	64	76	79	92	82	83	94	103
49	80	68	56	46	70	51	74	78
53	83	75	56	56	75	52	78	66
73	80	99	84	94	103	95	118	108
62	77	92	79	87	76	94	101	105
75	97	102	101	109	107	117	129	130
50	76	66	52	50	58	44	64	56
14	20	31	59	60	43	53	65	68
45	67	67	86	78	64	76	78	77
52	79	70	51	53	69	44	71	59
72	102	107	110	108	112	117	129	131
73	81	101	87	96	101	95	118	106
53	81	75	55	56	73	52	79	66
56	73	82	94	95	71	78	84	101
22	37	39	60	49	44	45	56	55
22	56	36	37	33	35	37	27	35
51	81	71	54	55	69	47	76	64
53	82	75	57	57	75	50	78	65
35	77	62	60	60	56	60	42	71
75	99	105	105	109	107	120	132	133
63	78	86	98	94	73	82	97	107
37	58	58	63	72	48	56	69	49
70	100	100	105	104	106	109	125	125
65	83	85	90	100	101	89	115	110

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59	79	87	94	97	94	94	115	125
74	98	105	109	106	100	110	129	127
50	73	84	92	87	75	87	86	93
53	81	75	57	57	74	49	78	65
74	100	103	105	109	109	117	131	130
70	97	105	102	104	98	120	124	127

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RAS	RFR	RAX	RWW	RM3	RQM	RVR	RJR	RC1
137	138	143	149	150	157	170	175	187
111	121	113	114	133	112	120	130	136
60	67	62	62	90	62	55	61	85
25	24	15	24	29	32	12	25	35
71	72	92	77	92	70	66	82	129
128	132	132	136	146	149	154	163	179
121	122	112	129	132	134	139	150	160
136	137	142	147	146	154	166	172	187
101	104	108	105	102	110	128	127	133
113	117	116	120	130	140	136	156	158
67	68	78	77	97	61	76	76	100
28	27	18	28	36	36	15	30	41
115	117	125	126	128	128	135	155	165
128	133	132	135	143	144	155	164	174
79	83	100	89	112	88	83	89	119
79	81	100	88	112	87	83	89	119
133	134	133	143	145	150	154	166	179
56	54	49	36	49	73	57	61	58
79	83	100	89	110	87	82	89	117
128	122	122	129	121	138	147	155	167
87	85	92	94	106	98	92	113	128
102	109	98	106	106	117	109	110	139
71	72	94	80	93	71	64	82	130
78	83	100	89	112	87	83	88	118
116	116	122	128	128	130	133	157	163
108	111	96	111	114	110	118	134	149
128	129	134	140	140	150	161	169	176
65	75	77	77	95	73	67	69	104
60	58	53	40	55	77	61	68	65
81	84	68	86	90	93	85	92	105
73	79	96	84	105	76	76	83	112
135	136	144	151	148	154	161	172	184
114	117	124	125	129	124	129	156	165
79	83	100	89	111	87	82	87	117
105	114	97	105	114	111	134	131	122
59	57	53	63	62	70	51	54	67
38	51	36	40	64	43	35	44	45
76	83	95	86	106	79	79	86	111
79	81	99	86	111	88	83	89	119
64	85	56	85	92	73	66	74	78
137	135	145	145	147	156	163	171	181
108	125	108	111	116	115	140	133	122
66	79	45	77	86	68	54	63	80
130	133	124	140	138	139	158	163	170
115	110	116	111	135	136	130	139	157

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113	117	115	123	121	136	141	144	162
131	138	132	137	142	149	159	164	172
99	100	92	97	113	110	106	111	121
79	83	96	88	110	86	82	88	119
135	135	141	146	145	152	163	173	181
129	132	135	145	133	145	153	164	175

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RFF	RJ2	RA3	RBT	REN	RRF	RAP	RMC	RLQ
189	191	197	209	208	209	208	214	213
150	157	150	168	170	161	180	170	169
84	87	57	74	89	81	80	101	68
27	33	20	22	135	25	77	36	43
99	96	94	119	59	119	88	138	109
168	187	182	197	204	196	203	205	204
148	179	177	184	201	173	188	184	185
187	191	190	205	204	205	208	211	213
137	145	150	154	173	146	134	134	165
159	176	157	171	183	181	180	192	190
93	91	72	93	94	101	95	116	82
28	36	27	25	160	30	81	51	49
154	164	163	185	178	177	167	189	160
173	188	186	194	201	201	203	204	200
118	106	91	109	110	120	106	139	102
118	106	88	111	110	123	106	139	102
174	189	188	202	203	192	203	203	212
76	117	94	66	88	72	132	64	74
118	107	90	111	110	121	106	139	102
158	177	168	181	177	183	187	191	187
117	133	117	125	158	137	155	137	149
129	146	140	142	169	150	159	162	147
102	95	94	122	57	123	86	139	112
118	107	91	111	110	121	108	140	102
152	164	164	185	175	175	169	190	161
143	138	144	154	167	171	168	159	166
180	180	186	199	202	202	202	205	215
88	95	81	98	95	110	86	120	88
82	125	97	73	95	83	145	75	83
114	140	115	121	152	127	156	145	131
105	98	82	104	102	112	100	133	95
182	191	192	199	205	205	210	214	214
151	159	165	185	174	176	167	187	164
118	107	89	110	109	118	107	139	102
126	147	142	156	159	143	179	158	150
79	103	78	80	84	77	129	75	86
68	62	50	64	97	62	89	63	62
112	105	89	102	107	115	99	137	100
118	107	90	110	110	120	105	138	101
108	105	68	112	114	119	131	109	126
185	189	192	203	208	206	208	213	219
136	152	147	163	159	148	178	159	156
109	119	99	94	119	107	142	105	99
175	178	177	191	200	198	194	207	200
140	168	152	169	167	173	188	173	166

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153	174	173	172	192	177	179	188	190
171	187	193	197	201	191	204	198	207
126	134	150	138	173	145	169	165	153
113	104	90	110	110	119	105	139	100
181	189	191	204	207	207	212	212	219
179	184	180	199	198	196	199	200	210

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RLT	RDZ	RBK	RQQ	RBN	RDD	RFS	RTK	RCF
241	243	247	247	249	248	254	257	272
198	190	200	197	197	185	202	203	215
88	125	125	80	129	108	115	95	114
58	52	43	31	21	30	39	25	40
106	196	134	109	195	118	132	133	132
231	232	234	234	224	238	244	236	262
214	208	225	217	196	217	218	225	234
232	237	242	245	248	248	253	255	265
184	177	164	197	195	170	186	175	213
205	219	214	213	211	212	216	218	230
102	138	135	99	158	117	125	125	128
67	54	48	38	26	33	45	31	50
201	217	219	208	215	204	212	211	233
228	232	232	232	231	231	238	238	259
121	179	155	118	187	141	153	145	165
122	179	154	118	190	141	152	144	166
228	240	235	234	232	236	241	251	263
134	87	134	119	57	103	102	91	149
122	179	154	120	187	143	153	145	166
207	207	211	213	207	219	222	228	227
158	146	162	177	163	151	162	160	167
192	173	185	185	174	184	193	160	213
104	194	135	111	197	117	132	135	136
122	180	155	118	188	142	153	145	165
198	218	216	208	217	206	211	207	230
174	196	183	192	186	197	190	199	206
228	233	232	239	236	234	240	250	259
104	157	139	105	165	121	136	121	134
140	94	148	134	64	109	111	104	167
163	145	169	152	142	158	147	154	166
114	172	146	108	180	131	144	131	151
236	241	244	241	250	242	255	252	271
197	216	216	207	217	200	209	206	226
120	179	153	119	188	142	151	145	165
192	191	178	198	169	164	157	190	172
113	95	131	90	104	104	111	107	111
64	72	72	74	77	83	87	70	94
116	177	150	110	183	131	144	138	156
122	179	155	118	188	143	152	144	163
102	133	120	140	132	131	148	114	159
233	242	245	242	244	244	250	256	272
193	194	189	197	181	177	165	200	185
132	97	168	129	123	123	115	107	132
226	234	229	228	231	231	233	242	244
187	196	183	197	195	206	189	214	205

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212	201	210	222	204	196	218	204	250
231	240	235	235	232	227	235	245	254
170	174	209	179	167	176	174	172	215
119	177	153	118	186	140	153	145	163
234	241	240	241	243	239	250	256	268
227	235	235	234	231	232	243	247	259

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RWG	REM	RJF	RQW	RCB	RF4	RK5	RCD	RBZ
274	279	274	282	285	282	290	294	296
210	224	223	227	228	216	234	229	229
118	142	129	120	162	136	155	116	120
35	68	40	41	46	115	36	47	46
182	176	155	144	211	171	193	144	162
245	267	262	272	276	271	275	281	278
217	254	244	239	252	259	250	248	259
270	271	272	280	284	278	283	293	288
193	176	210	224	219	192	221	204	247
234	246	236	241	252	244	249	259	249
149	161	148	140	184	148	170	130	147
39	81	49	51	52	128	41	55	59
235	243	245	258	257	256	264	256	251
250	259	261	265	273	270	276	278	279
183	191	179	170	228	182	209	160	170
187	191	178	168	229	181	209	159	171
256	272	270	264	280	277	279	288	280
65	79	146	129	121	128	94	118	154
185	191	179	171	227	183	207	160	171
240	231	246	256	256	243	260	246	252
182	176	192	185	193	168	190	203	236
168	195	212	217	203	211	208	210	189
183	181	156	141	213	171	195	145	160
186	191	179	167	229	183	208	160	170
235	242	244	255	255	254	261	257	249
205	203	211	220	222	215	233	213	230
260	265	269	277	278	271	277	278	285
163	164	152	138	210	153	187	138	155
76	93	161	157	132	144	106	133	162
157	181	183	173	183	187	165	186	178
176	179	170	160	220	170	194	149	160
270	273	273	282	283	284	292	289	291
234	240	244	255	254	250	263	259	248
184	190	177	171	228	181	208	160	171
200	198	186	213	212	220	213	233	222
111	107	124	117	131	160	121	140	117
82	101	81	70	83	101	71	91	87
176	188	165	162	224	173	201	156	170
185	190	179	171	227	182	206	159	168
139	169	153	146	136	153	133	166	152
270	273	270	281	285	283	285	293	290
210	210	193	228	223	232	219	247	236
113	165	150	137	137	161	146	153	128
254	255	263	262	266	270	278	274	267
239	222	251	251	238	225	243	243	267

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204	245	240	263	233	251	246	254	251
262	266	261	264	272	279	283	286	279
198	202	185	203	211	203	205	228	200
185	191	177	167	225	181	208	158	170
264	274	269	282	284	276	286	290	292
259	260	262	269	274	272	275	271	282

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RTP	RWJ	RC9	RGP	RD8	RBD	RNQ	RP5	RVJ
306	305	306	308	315	321	324	337	350
237	227	251	251	249	256	263	274	290
95	165	122	133	127	116	141	150	172
79	47	55	45	44	39	69	44	82
159	205	182	142	161	164	175	174	275
294	285	294	295	306	299	307	313	335
272	260	272	268	288	270	288	292	304
306	304	302	308	312	315	320	331	345
230	259	212	239	235	238	224	243	254
266	272	278	255	267	262	278	289	311
117	182	155	160	148	135	152	179	202
96	50	59	59	56	49	79	53	95
269	269	271	279	269	272	288	289	310
298	283	298	294	303	293	311	319	335
149	227	182	184	181	166	191	216	241
147	225	182	182	183	167	191	215	244
299	294	297	292	302	303	313	318	333
147	66	139	133	178	128	165	106	74
150	227	182	184	183	167	192	215	243
276	263	273	265	274	272	277	293	311
198	205	201	206	221	225	208	219	234
224	194	223	226	232	234	249	235	244
158	208	184	141	164	164	174	177	277
150	226	182	183	183	166	191	213	244
267	267	271	281	269	274	290	286	309
230	238	247	236	227	247	250	249	269
289	291	303	298	306	309	313	320	327
121	192	163	159	157	144	171	202	219
163	71	158	152	192	142	184	122	85
193	182	216	195	221	193	209	200	235
133	213	169	171	173	156	173	195	233
302	298	308	307	313	316	320	336	341
270	266	268	281	266	271	286	279	302
150	225	181	183	182	165	190	213	243
234	224	249	215	212	242	237	236	259
136	112	150	125	155	137	136	144	148
75	108	121	86	90	98	83	119	109
141	216	173	170	172	160	185	202	236
149	225	180	182	180	166	190	215	240
148	165	199	159	135	173	151	210	151
303	298	306	305	313	314	323	329	344
239	231	260	223	217	252	258	248	263
130	128	168	175	159	169	164	177	144
289	282	285	292	299	299	298	323	335
273	268	274	232	272	253	267	262	291

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277	233	273	272	273	259	277	276	281
293	289	299	284	296	307	315	319	330
209	201	239	234	233	226	239	249	282
149	222	178	181	182	164	187	215	238
304	298	302	298	309	314	317	331	340
292	285	290	292	298	302	312	318	329

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RW3	RJC	RAE	RBL	RGR	RQ6	R1K	RN7	RHW
349	347	372	377	383	387	390	395	394
290	270	299	287	286	321	297	312	319
174	126	205	172	151	177	166	152	180
47	59	51	80	63	98	66	61	189
169	161	247	205	209	217	214	181	236
329	335	353	349	355	377	366	376	389
292	312	334	311	331	360	340	345	366
342	341	368	367	374	385	384	387	395
247	235	262	282	283	259	263	264	273
296	292	312	338	325	359	336	341	357
200	146	222	183	179	200	189	178	220
51	66	56	93	69	110	69	71	219
274	283	320	331	321	300	329	327	361
317	338	350	352	356	369	362	373	387
232	180	268	239	227	241	221	205	257
232	182	272	243	227	242	223	204	258
327	338	352	350	365	375	369	366	395
124	189	143	103	177	92	174	179	152
231	181	272	244	227	240	223	206	258
296	306	334	341	345	343	330	347	350
220	238	232	244	264	245	256	260	284
240	268	268	269	265	280	280	273	293
169	161	249	211	211	218	214	183	236
232	180	271	242	227	240	226	206	259
267	283	320	332	315	298	327	323	360
256	271	284	299	289	311	285	295	297
333	330	361	358	368	377	364	380	390
208	148	243	205	187	217	193	176	219
132	208	153	118	195	101	185	203	174
225	225	246	214	222	251	251	237	274
213	171	243	234	216	230	210	191	241
341	341	368	366	375	384	387	380	395
273	283	315	330	320	295	324	321	356
231	180	269	243	226	240	223	205	259
269	252	245	255	271	293	284	274	304
155	171	169	138	147	160	200	174	183
114	80	129	107	100	130	143	109	129
219	179	263	233	215	236	213	195	248
232	179	269	243	226	241	222	206	256
192	141	208	175	160	210	213	209	216
342	348	364	374	376	387	377	389	398
282	256	250	265	283	315	298	295	325
198	179	210	166	164	211	211	187	170
322	326	354	352	348	370	339	367	361
287	280	283	301	308	337	336	338	341

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274	317	323	327	331	337	320	338	347
334	333	345	351	360	372	364	365	383
247	265	280	264	243	272	278	262	296
229	180	266	241	224	239	218	205	256
345	344	364	371	374	385	378	383	396
330	327	348	354	369	368	354	373	387

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RNL	RCX	RPA	RWH	RM2	RR7	RNS	RN3	RGN
406	407	409	421	423	428	432	425	432
318	319	343	332	338	342	347	358	329
164	179	184	216	242	189	207	202	201
97	70	76	130	74	102	108	71	95
193	208	218	232	336	248	212	244	252
383	374	397	405	402	416	422	409	405
363	341	374	382	373	382	393	384	366
399	399	401	418	414	419	429	422	431
297	305	292	320	249	290	307	297	327
355	341	351	369	373	396	397	364	381
188	186	221	251	280	206	233	222	224
119	84	93	168	87	114	123	82	113
343	366	379	375	377	383	381	396	393
382	374	398	402	399	412	418	409	397
225	231	266	293	330	251	269	288	275
225	235	265	291	331	249	269	289	276
388	387	394	403	409	409	416	406	405
196	184	199	172	114	179	251	245	176
226	232	265	290	329	250	270	288	277
353	351	382	374	366	355	389	386	382
311	245	262	298	296	314	301	297	277
326	288	292	308	279	320	338	323	323
194	210	220	230	335	248	212	247	256
226	233	266	295	331	253	269	289	275
343	364	376	376	373	383	376	395	395
322	303	325	325	326	315	342	313	333
390	385	398	409	407	403	419	409	415
197	198	230	249	308	231	243	248	236
216	198	226	199	123	204	271	274	204
261	254	268	294	273	299	306	302	260
215	221	247	265	308	233	258	264	264
395	396	406	413	420	423	427	421	428
343	357	376	370	375	374	374	391	389
225	228	265	293	330	250	271	290	274
288	266	291	302	306	329	336	307	299
180	182	198	222	185	212	207	211	177
111	106	110	131	160	129	144	115	105
214	226	250	286	317	241	257	279	267
222	230	266	292	329	248	267	289	274
187	203	213	199	229	214	249	230	179
402	397	409	416	417	418	425	421	426
304	281	307	323	322	349	355	320	305
206	206	221	221	227	223	226	235	189
380	380	378	386	393	400	422	399	394
320	309	368	363	337	367	390	384	369

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364	349	365	368	345	379	392	388	363
383	388	393	400	412	412	418	405	407
295	281	317	324	299	316	313	337	314
224	230	261	287	322	246	267	289	273
399	394	403	413	417	418	426	416	421
381	382	398	401	401	407	414	408	412

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RVW	RNZ	RDE	RLN	RWY	RGQ	RXP	RXH	RXK
439	442	446	464	465	479	494	499	500
375	338	369	391	356	376	401	378	418
207	171	202	183	172	190	214	226	215
96	67	110	70	76	127	70	108	104
234	241	211	210	241	202	244	304	280
423	419	436	444	440	454	470	462	485
391	380	411	405	419	409	422	425	460
431	441	441	453	457	467	488	497	491
279	311	332	349	341	353	387	349	324
393	379	402	420	395	386	429	430	446
235	205	216	215	209	230	227	240	245
121	77	139	73	90	150	81	130	124
375	383	384	391	404	408	408	413	437
419	420	434	443	449	448	475	465	485
274	252	257	254	270	266	279	307	298
277	251	258	255	270	268	282	305	299
412	431	437	441	455	443	462	483	473
237	193	210	219	235	237	244	156	242
276	251	257	253	272	269	281	307	299
385	377	400	411	408	410	436	438	455
274	282	293	332	295	304	350	310	322
352	306	336	343	347	373	380	345	355
234	239	215	212	244	205	243	311	277
276	252	258	254	274	271	283	310	300
375	383	379	384	401	406	402	410	434
331	348	321	352	359	369	375	403	375
412	428	426	447	449	458	478	473	475
244	218	221	220	227	221	244	257	268
261	215	228	231	255	250	274	181	258
292	275	309	301	294	270	288	306	339
261	224	242	239	244	248	261	289	276
431	435	446	457	458	464	482	490	493
378	379	374	379	405	409	400	410	427
274	250	257	254	272	270	281	306	299
331	313	362	345	329	359	384	325	354
217	183	191	204	223	202	207	208	244
125	115	132	159	138	122	170	134	153
266	237	253	241	261	260	279	293	288
276	250	253	254	271	268	279	306	298
212	215	214	291	243	222	278	204	254
432	436	444	455	462	469	486	490	495
342	326	383	364	338	380	393	346	363
250	194	209	284	233	212	264	241	307
425	403	415	439	424	420	462	485	478
361	365	379	395	385	386	397	405	399

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404	389	395	397	403	438	428	412	421
409	422	439	443	446	455	467	479	476
314	307	356	335	324	356	331	351	375
275	247	250	254	271	264	280	306	300
432	436	444	455	457	471	480	486	491
405	421	429	438	437	453	460	471	458

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RD1	RJL	RXF	RQ8	RXQ	RTF	RD3	RW6	RNA
496	507	511	517	519	530	538	543	547
400	403	440	422	414	439	432	437	440
200	241	233	232	203	191	234	220	245
118	83	82	74	54	96	153	100	67
263	256	264	309	284	219	274	237	301
473	492	482	483	491	515	513	507	512
443	455	462	448	459	484	484	478	478
494	502	499	511	512	522	528	528	536
362	394	379	383	389	396	397	426	395
435	444	452	445	436	464	454	468	477
242	259	276	263	243	213	290	246	271
141	95	88	84	59	119	185	125	81
395	452	424	446	451	430	473	458	476
478	490	486	500	497	515	515	505	515
295	312	320	305	308	258	337	299	326
297	312	321	307	306	258	338	301	329
480	489	491	500	504	516	523	517	524
205	289	284	244	263	321	266	166	285
299	311	316	305	307	260	340	301	328
457	432	457	450	443	446	461	486	480
353	321	351	332	343	395	371	373	349
336	398	396	401	381	426	392	389	418
265	257	272	311	290	220	275	238	306
297	311	321	307	309	260	337	298	329
396	453	425	448	451	420	475	455	475
375	388	393	416	410	413	411	408	418
483	478	494	496	497	526	515	518	525
260	273	272	257	254	232	288	260	262
228	315	316	261	293	352	290	181	315
291	340	337	329	305	353	349	336	344
272	294	291	293	292	235	326	279	310
487	502	504	510	507	524	525	537	540
392	450	425	446	449	421	471	443	470
296	311	318	305	307	257	339	301	329
342	391	341	394	363	400	438	354	359
217	214	240	229	216	235	231	246	253
131	132	181	134	141	165	182	206	145
290	292	304	301	299	246	338	282	318
293	311	316	305	307	258	337	299	329
223	256	296	226	208	334	342	335	240
497	495	506	512	518	530	534	535	542
368	399	359	414	388	424	463	370	381
237	304	292	262	219	309	264	298	318
464	468	482	484	461	489	492	497	506
453	371	405	434	428	473	423	425	420

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433	459	448	456	462	481	479	452	497
476	493	472	498	496	515	526	507	517
357	374	381	369	388	385	404	381	431
294	308	317	304	302	254	335	300	323
494	499	507	508	514	530	529	527	538
474	485	479	490	504	508	495	519	517

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RA9	RA2	RTX	RXC	RXL	RBA	RAJ	RRK	RHU
562	591	595	601	616	628	636	644	661
440	444	458	442	508	474	493	512	533
227	301	218	240	285	255	291	373	307
175	131	79	69	83	139	178	119	240
324	399	273	294	318	332	299	398	402
532	560	571	578	594	595	620	613	631
497	536	524	521	552	555	584	577	590
563	581	581	589	609	620	623	644	649
411	451	434	476	456	451	449	475	482
484	537	521	518	540	543	567	564	580
263	363	248	276	317	298	333	423	371
211	170	85	78	107	169	226	150	266
521	501	520	508	511	539	536	559	593
539	562	563	579	589	602	613	616	625
321	454	314	334	370	359	401	504	452
323	454	315	333	372	361	402	507	451
553	569	570	583	598	602	615	617	640
210	189	293	290	301	304	323	215	336
321	454	314	334	371	361	402	504	452
496	518	493	534	542	558	556	566	593
347	408	406	406	402	420	405	439	439
426	402	465	439	471	449	479	455	466
328	400	271	294	321	328	299	404	401
323	454	315	333	372	363	402	506	452
511	496	523	502	513	529	534	555	591
432	450	462	473	476	478	472	529	517
554	568	577	584	580	607	605	629	616
285	394	250	289	337	308	334	451	399
234	222	324	327	331	337	355	243	366
367	355	352	368	400	385	431	403	450
305	425	289	305	348	327	377	490	422
557	579	587	597	608	617	631	642	650
513	498	525	500	500	528	531	553	588
318	452	315	332	373	359	402	506	450
415	454	427	465	487	464	468	452	461
226	255	229	241	263	284	298	301	323
137	151	147	151	184	140	186	210	200
314	439	296	321	362	353	387	495	446
318	452	313	332	370	358	399	504	447
215	268	306	279	354	243	337	321	293
564	578	591	599	612	619	626	649	652
422	465	443	500	514	477	490	472	507
291	233	321	288	322	283	323	356	335
534	547	561	552	570	588	592	604	615
427	527	491	511	459	581	526	538	498

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507	487	539	539	534	551	553	557	575
546	567	559	587	602	597	613	614	637
456	404	436	395	454	438	520	426	519
312	452	312	332	366	359	399	504	448
561	574	588	596	612	614	624	640	643
543	553	579	575	595	589	602	623	625

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RXR	RJ7	RR1	RYR	RXN	RYJ	RX1	RWD	RL4
668	661	689	702	712	713	729	733	735
558	520	552	526	571	559	587	591	592
278	332	348	263	302	397	404	304	336
101	115	109	91	310	196	240	237	165
300	378	447	334	414	428	473	346	375
642	640	665	654	680	696	689	711	705
601	595	614	611	653	670	666	657	658
660	657	683	693	711	706	715	729	723
497	452	508	492	545	510	537	529	544
582	598	601	599	641	632	646	644	656
295	367	402	307	343	407	449	347	389
126	132	130	116	372	228	294	269	199
585	563	642	595	632	611	666	632	633
637	635	652	657	685	688	701	696	707
351	435	482	365	406	495	549	413	448
348	438	484	363	407	493	548	414	451
640	643	669	676	692	691	712	700	705
317	324	347	367	240	382	338	368	373
351	438	482	364	407	497	550	414	454
567	588	618	633	632	624	662	655	654
489	455	462	445	486	506	517	540	489
517	481	506	523	530	574	526	549	550
307	375	448	334	419	428	477	348	374
351	443	484	365	411	497	549	413	454
582	563	638	603	634	610	669	624	635
505	501	514	534	571	551	551	555	560
644	642	659	674	691	686	708	693	695
311	387	414	310	366	465	481	331	395
346	347	389	393	282	414	372	407	430
421	434	440	439	464	515	511	493	478
328	403	459	345	372	463	511	386	423
659	651	678	693	714	709	722	725	724
578	557	631	600	627	608	654	628	629
350	435	482	363	408	496	546	407	451
500	501	492	501	532	582	559	495	516
311	346	296	285	292	409	370	322	348
266	202	219	163	243	268	213	205	207
335	416	454	350	386	473	519	404	439
349	439	480	362	403	494	544	412	448
473	300	362	282	396	387	334	345	342
655	661	680	693	707	710	718	719	723
534	527	506	525	553	614	569	518	541
365	349	378	298	354	415	394	394	417
642	619	667	632	691	654	681	701	695
509	592	592	578	574	625	610	585	553

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579	578	578	622	631	633	622	633	650
644	645	653	672	687	697	706	682	686
475	478	524	530	507	551	586	555	571
350	434	480	363	401	494	543	414	446
653	652	672	688	698	710	716	709	715
625	629	658	672	692	675	679	693	700

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RN5	RDU	RBV	RA7	REF	RAL	RKB	RTR	RJZ
733	738	751	759	763	765	796	807	809
621	577	621	628	591	602	649	659	625
334	288	423	343	305	348	397	400	394
138	100	198	232	188	163	184	208	145
410	391	405	410	380	422	419	458	387
713	697	733	723	716	723	757	780	771
665	648	698	676	662	684	715	736	741
733	728	742	749	757	752	776	797	800
548	537	578	573	572	524	598	656	573
645	628	661	670	676	655	703	710	711
396	348	448	403	340	387	429	453	423
159	119	231	284	224	187	210	244	165
636	652	632	640	656	677	676	697	663
710	707	736	725	709	728	759	782	764
454	432	547	467	419	472	508	536	495
455	433	547	467	422	469	502	535	497
722	708	733	735	729	733	765	787	782
350	289	359	429	309	280	370	423	341
458	432	549	468	422	470	503	534	491
644	654	666	631	666	673	699	684	734
479	495	536	522	542	520	526	595	509
543	540	579	559	534	557	608	633	595
410	393	403	413	379	427	429	457	382
456	433	547	467	423	473	508	536	492
638	652	631	638	656	675	673	696	667
578	586	598	588	579	578	615	606	625
714	713	732	734	729	747	755	772	781
387	385	474	416	369	419	450	467	430
393	321	397	472	339	310	414	464	376
477	454	512	514	477	498	532	531	554
431	411	514	425	401	439	481	496	462
720	731	753	747	757	762	782	797	801
634	641	625	635	650	656	672	673	663
455	430	546	469	420	472	507	534	486
546	557	519	595	551	556	624	579	605
327	341	376	365	363	376	390	357	413
154	200	269	227	211	238	243	264	233
447	422	532	439	403	439	477	514	475
457	430	545	468	420	470	504	529	493
280	367	480	334	383	379	395	426	412
727	732	746	751	752	758	785	804	800
578	585	553	624	588	592	638	601	633
328	352	421	399	352	380	436	406	413
673	672	704	696	720	719	731	760	756
578	667	615	628	620	677	611	660	706

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630	647	678	666	638	652	704	725	702
709	712	714	728	728	738	769	758	778
521	516	543	607	542	558	629	594	603
452	428	540	465	421	469	505	527	488
723	729	752	744	742	752	776	796	794
708	705	728	708	717	718	748	768	765

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RHM	RTG	R1H	RK9	RXW	RR8	RWP	RWF	RJE
839	852	887	916	928	956	962	962	971
694	692	708	743	765	778	777	734	849
462	433	427	412	401	543	385	346	458
206	224	251	220	225	293	209	277	251
506	482	454	516	458	644	454	430	532
796	815	869	869	906	906	921	937	934
727	763	819	798	848	855	867	876	893
827	842	880	904	922	936	955	946	963
631	623	617	684	671	712	743	717	679
742	754	791	795	827	852	822	839	853
552	470	470	467	439	616	456	401	530
248	258	285	253	267	349	253	332	282
725	722	772	797	816	834	809	832	851
802	808	860	862	891	924	913	922	936
636	563	531	570	528	736	549	486	613
637	564	534	574	528	740	550	485	611
802	827	855	875	896	928	925	935	943
353	416	534	440	525	380	496	488	533
637	561	534	574	528	739	551	487	615
710	753	786	780	794	831	827	860	845
549	586	614	647	692	647	727	690	695
590	647	716	657	731	709	698	724	749
503	486	457	512	453	648	457	436	522
638	561	533	575	530	741	551	488	614
725	728	778	799	807	831	806	831	847
640	675	679	711	710	737	748	760	779
790	821	858	885	894	925	938	937	935
575	489	479	506	469	660	479	413	529
390	471	569	489	574	434	546	530	587
555	570	651	591	630	635	597	628	658
590	542	486	541	506	695	518	471	560
822	833	877	900	915	945	958	950	957
720	722	765	794	801	825	804	827	844
633	562	527	573	529	737	550	487	609
606	603	677	646	674	739	619	677	751
383	395	543	387	446	439	447	433	468
276	273	333	220	277	345	300	226	322
619	549	510	549	500	721	527	475	586
635	561	527	567	527	735	546	488	611
426	465	502	375	453	514	552	414	612
826	845	876	903	926	950	962	956	966
647	624	717	693	718	786	660	710	773
395	425	572	428	490	483	441	460	541
774	792	836	860	873	895	909	875	894
640	685	780	722	767	781	801	882	754

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714	773	793	800	841	839	851	883	863
805	827	841	868	877	925	920	926	949
602	641	683	738	706	739	675	708	720
632	562	518	566	526	733	549	484	606
821	843	869	903	905	939	958	948	960
796	806	837	860	894	900	931	922	915

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RGT	RWA	RJ1	RRV	RH8	RVV	RM1	RTD	RTE
977	1004	1034	1033	1047	1053	1207	1315	1320
795	845	855	805	821	821	955	1047	1057
494	561	468	506	444	412	494	678	515
254	261	255	200	244	212	298	301	345
574	584	551	511	583	594	643	804	685
944	975	1010	1013	995	1001	1149	1257	1269
893	912	955	965	914	908	1079	1183	1173
955	997	1026	1015	1029	1041	1190	1297	1319
747	745	782	773	817	754	902	956	1002
845	892	927	915	919	901	1019	1162	1141
584	629	529	565	542	483	573	744	616
312	320	301	234	306	273	354	356	406
873	888	895	865	878	926	1063	1142	1153
946	978	1006	998	1012	1003	1146	1246	1261
678	750	631	659	648	600	707	903	753
676	751	633	658	645	607	708	901	752
956	990	1011	1007	1029	996	1155	1274	1283
486	509	517	526	448	477	576	523	685
682	750	632	661	648	604	708	907	754
853	848	913	900	890	922	1043	1122	1100
676	631	774	704	788	705	857	929	937
722	758	760	781	754	760	860	963	931
576	588	550	515	579	596	645	817	689
680	751	633	663	652	603	711	905	751
871	884	884	860	874	928	1060	1135	1137
741	776	788	798	808	798	932	992	1026
948	974	1002	1003	1016	994	1164	1256	1279
595	655	586	594	573	516	616	806	649
541	561	553	558	498	566	636	578	772
622	688	749	759	668	637	748	836	871
645	700	596	610	599	573	662	849	687
963	1002	1029	1026	1032	1043	1197	1304	1313
863	885	883	858	867	928	1047	1129	1141
676	751	623	662	646	603	710	901	750
767	680	785	861	778	659	913	916	865
455	481	552	590	438	399	480	538	584
277	281	409	357	288	299	331	492	358
657	736	610	640	626	584	689	871	725
678	749	633	657	643	597	704	903	753
451	468	593	542	510	574	574	781	665
966	999	1040	1036	1046	1042	1201	1292	1315
794	701	817	902	816	716	959	955	896
436	596	609	612	495	483	627	690	606
887	941	963	953	955	983	1133	1222	1212
880	748	930	940	901	893	958	1149	1011

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900	915	902	922	913	918	1067	1156	1149
949	971	1002	1013	1013	987	1160	1257	1242
724	783	817	801	853	724	961	939	1031
668	742	632	654	643	594	699	896	750
964	997	1028	1022	1030	1025	1195	1288	1300
935	965	986	968	1001	1010	1150	1233	1272

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RWE	RTH	RHQ	RPY
1421	1428	1494	1920
1146	1117	1258	1471
725	617	685	670
391	424	375	537
751	817	767	709
1358	1380	1436	1893
1290	1283	1356	1803
1396	1400	1471	1894
1047	1085	1102	1485
1257	1272	1336	1750
803	725	779	719
450	519	441	620
1212	1241	1222	1664
1356	1370	1438	1870
952	893	912	892
948	892	912	894
1366	1382	1446	1898
714	564	706	1036
950	893	917	890
1269	1230	1285	1639
1062	1033	1033	1347
1059	1025	1125	1528
759	815	764	712
951	897	911	893
1210	1241	1216	1665
1098	1126	1154	1494
1358	1375	1442	1877
835	779	826	772
782	624	779	1119
944	920	1058	1358
903	831	855	821
1399	1413	1481	1911
1210	1238	1199	1654
953	889	909	886
965	990	1096	1561
680	624	739	1110
462	392	543	562
921	860	889	861
947	892	904	889
750	638	879	960
1396	1420	1478	1938
997	1041	1123	1642
792	629	894	1031
1312	1295	1385	1786
1309	1274	1180	1743

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1259	1251	1317	1788
1350	1357	1422	1897
1015	1091	1213	1426
946	888	908	881
1385	1412	1471	1926
1338	1366	1421	1857

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Table 2. Porportions of patients reporting a positive experience by question and for each of the 146 h values correspond to the cells in Figure 2.

Note

Entries with NA come from hospitals which received less than 21 respondes for the corresponding question.

Questions \ Hospitals	RQX	RRJ	RT3	RMP	RPC	REP	RAN
Q10	0.71	0.70	0.81	0.82	0.74	0.75	0.73
Q49	0.50	0.41	0.64	0.65	0.67	0.60	0.57
Q35	NA	0.57	0.62	0.62	0.42	0.62	0.59
Q45	NA	NA	NA	0.77	NA	NA	NA
Q26	0.78	0.74	0.80	0.81	0.81	0.83	0.77
Q13	0.66	0.63	0.66	0.74	0.69	0.72	0.65
Q15	0.48	0.59	0.66	0.62	0.57	0.52	0.41
Q9	0.80	0.81	0.87	0.93	0.85	0.80	0.79
Q1	0.78	0.62	0.65	0.73	0.87	0.80	0.64
Q12	0.72	0.83	0.80	0.89	0.80	0.91	0.86
Q30	NA	0.52	0.71	0.76	0.85	0.80	0.68
Q44	NA	NA	NA	0.86	NA	NA	NA
Q7	0.74	0.73	0.83	0.79	0.75	0.85	0.70
Q14	0.52	0.48	0.64	0.76	0.63	0.71	0.62
Q34	0.90	0.96	0.90	0.93	0.88	0.97	0.94
Q37	NA	0.93	0.90	0.91	0.90	0.91	0.86
Q16	0.72	0.73	0.76	0.84	0.77	0.77	0.74
Q48	NA	NA	NA	NA	NA	NA	NA
Q31	0.71	0.71	0.81	0.81	0.76	0.80	0.70
Q11	0.62	0.68	0.59	0.75	0.72	0.66	0.66
Q53	0.76	0.41	0.60	0.67	0.72	0.58	0.51
Q41	0.70	NA	0.71	0.78	0.60	0.79	0.71
Q25	0.83	0.93	0.94	0.98	0.95	0.98	0.90
Q29	NA	0.89	0.90	0.91	0.90	0.94	0.87
Q6	0.89	0.85	0.91	0.85	0.93	0.87	0.67
Q55	0.17	0.36	0.37	0.49	0.26	0.35	0.28
Q54	0.62	0.47	0.63	0.69	0.67	0.61	0.45
Q36	0.81	0.77	0.91	0.94	0.89	0.90	0.83
Q47	NA	NA	NA	0.86	NA	NA	NA
Q21	0.58	0.74	0.85	0.85	0.84	0.91	0.77
Q38	NA	0.85	0.85	0.90	0.90	0.95	0.84
Q2	0.87	0.66	0.86	0.89	0.84	0.81	0.49
Q5	1.00	0.96	0.96	0.97	0.91	0.96	0.92
Q28	NA	0.86	0.76	0.87	0.76	0.89	0.76
Q19	NA	NA	0.94	0.93	0.84	0.88	0.80
Q23	NA	NA	NA	0.87	0.78	0.83	0.66
Q51	NA	NA	NA	0.63	NA	0.24	0.47
Q39	NA	0.82	0.95	0.96	0.91	0.97	0.91
Q32	NA	0.82	0.77	0.65	0.78	0.79	0.76
Q50	NA	0.57	0.33	0.69	0.55	0.39	0.57
Q56	0.83	0.88	0.96	0.92	0.90	0.93	0.82
Q18	NA	0.95	0.87	0.92	0.85	0.93	0.76

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Q22	NA	NA	0.50	0.81	0.46	0.77	0.67
Q8	0.77	0.77	0.79	0.81	0.74	0.72	0.74
Q52	0.84	0.92	0.87	1.00	0.95	0.95	0.91
Q42	0.91	1.00	0.97	0.97	0.92	1.00	0.95
Q17	0.72	0.89	0.94	0.97	0.82	0.96	0.87
Q20	NA	0.83	0.85	0.90	0.78	0.95	0.80
Q33	0.38	0.71	0.67	0.65	0.67	0.79	0.55
Q57	0.59	0.56	0.85	0.55	0.82	0.66	0.56
Q58	0.31	0.23	0.22	0.27	0.14	0.29	0.59

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ıospitals included in the analysis (CPES 2016). These

RGM	RBQ	R1F	RKE	RE9	RJ6	RVY	RA4	RJN
0.85	0.83	0.76	0.68	0.71	0.67	0.72	0.79	0.77
0.71	0.62	0.55	0.63	0.65	0.67	0.50	0.60	0.63
0.58	0.56	0.53	0.60	0.66	0.60	0.43	0.62	0.56
NA	NA	NA	NA	NA	NA	NA	NA	0.64
0.81	0.81	0.78	0.79	0.67	0.82	0.79	0.76	0.79
0.79	0.79	0.67	0.69	0.75	0.78	0.73	0.74	0.68
0.60	0.65	0.59	0.56	0.62	0.59	0.60	0.50	0.58
0.96	0.82	0.86	0.86	0.90	0.87	0.79	0.86	0.89
0.80	0.66	0.74	0.76	0.78	0.72	0.79	0.85	0.78
0.94	0.86	0.76	0.83	0.82	0.86	0.81	0.82	0.83
0.85	0.76	0.75	0.82	0.72	0.69	0.64	0.80	0.74
NA	NA	NA	0.82	NA	0.91	NA	0.91	0.89
0.89	0.74	0.80	0.78	0.75	0.78	0.85	0.75	0.88
0.69	0.69	0.62	0.73	0.76	0.71	0.60	0.76	0.68
0.92	0.84	0.75	0.91	0.88	0.87	0.78	0.85	0.83
0.94	0.89	0.85	0.93	0.91	0.87	0.85	0.91	0.88
0.93	0.81	0.72	0.75	0.79	0.75	0.81	0.85	0.85
NA	0.48	0.61	0.73	0.73	0.77	0.73	0.75	0.71
0.75	0.84	0.76	0.79	0.74	0.72	0.71	0.73	0.82
0.80	0.62	0.66	0.69	0.75	0.74	0.79	0.74	0.81
0.63	0.53	0.59	0.69	0.61	0.61	0.55	0.65	0.63
0.71	0.67	0.72	0.73	0.78	0.74	0.76	0.79	0.72
1.00	1.00	0.96	0.98	0.89	0.93	0.94	0.97	0.92
0.94	0.84	0.88	0.84	0.80	0.84	0.88	0.81	0.91
0.92	0.88	0.86	0.89	0.95	0.89	0.89	0.88	0.94
0.42	0.38	0.37	0.43	0.37	0.42	0.27	0.31	0.35
0.76	0.56	0.55	0.68	0.72	0.65	0.62	0.71	0.69
0.96	0.87	0.88	0.92	0.82	0.83	0.80	0.84	0.88
NA	NA	0.84	0.86	0.95	0.88	0.77	0.91	0.87
0.91	0.70	0.72	0.86	0.88	0.86	0.80	0.83	0.90
0.94	0.92	0.86	0.90	0.77	0.86	0.68	0.76	0.90
0.94	0.85	0.83	0.86	0.88	0.84	0.84	0.91	0.89
0.96	0.93	0.91	0.91	0.97	0.89	0.95	0.97	0.95
0.85	0.65	0.77	0.84	0.79	0.75	0.87	0.86	0.86
0.96	0.81	0.88	0.91	0.93	0.94	0.95	0.94	0.94
0.77	0.78	0.82	0.93	0.84	0.70	0.73	0.82	0.76
0.41	0.45	0.42	0.41	0.55	0.34	0.38	0.44	0.63
0.96	0.90	0.90	0.96	0.96	0.90	0.79	0.92	0.98
0.81	0.79	0.63	0.68	0.68	0.68	0.48	0.63	0.82
0.43	0.56	0.47	0.48	0.55	0.46	0.42	0.52	0.58
0.96	0.94	0.85	0.95	0.95	0.91	0.93	0.90	0.90
0.90	0.90	0.84	0.90	0.96	0.97	0.82	0.89	0.94

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0.62	0.52	0.50	0.83	0.64	0.46	0.39	0.70	0.55
0.87	0.79	0.74	0.79	0.90	0.81	0.70	0.83	0.78
0.95	0.94	0.93	0.93	0.99	0.95	0.97	0.97	0.97
0.98	0.96	0.94	0.96	0.97	0.97	1.00	0.98	0.97
0.91	0.90	0.90	0.97	0.96	0.88	0.84	0.88	0.94
0.92	0.74	0.81	0.96	0.86	0.88	0.82	0.86	0.87
0.83	0.70	0.55	0.72	0.77	0.49	0.71	0.69	0.71
0.78	0.68	0.77	0.68	0.82	0.70	0.70	0.84	0.72
0.51	0.34	0.07	0.38	0.24	0.28	0.11	0.25	0.24

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RAS	RFR	RAX	RWW	RM3	RQM	RVR	RJR	RC1
0.73	0.83	0.66	0.69	0.73	0.70	0.65	0.73	0.79
0.54	0.64	0.51	0.55	0.69	0.57	0.59	0.65	0.57
0.52	0.67	0.48	0.52	0.66	0.45	0.55	0.57	0.45
0.56	0.71	NA	0.50	0.55	0.63	NA	0.60	0.63
0.76	0.88	0.84	0.75	0.83	0.71	0.79	0.78	0.78
0.68	0.76	0.63	0.65	0.82	0.70	0.69	0.73	0.77
0.53	0.62	0.39	0.49	0.58	0.56	0.47	0.54	0.61
0.88	0.90	0.85	0.84	0.89	0.84	0.83	0.86	0.84
0.74	0.85	0.74	0.83	0.76	0.77	0.70	0.80	0.75
0.85	0.89	0.79	0.79	0.89	0.78	0.82	0.85	0.82
0.64	0.84	0.72	0.71	0.80	0.69	0.71	0.74	0.73
0.82	0.89	NA	0.75	0.89	0.89	NA	0.83	0.83
0.74	0.79	0.77	0.74	0.86	0.78	0.76	0.88	0.81
0.71	0.74	0.57	0.59	0.74	0.60	0.68	0.70	0.67
0.86	0.90	0.87	0.81	0.87	0.84	0.89	0.90	0.83
0.86	0.90	0.88	0.89	0.88	0.76	0.86	0.93	0.86
0.77	0.81	0.80	0.69	0.86	0.71	0.79	0.86	0.79
0.70	0.56	0.63	0.50	0.88	0.73	0.77	0.75	0.67
0.65	0.84	0.76	0.79	0.68	0.64	0.66	0.75	0.72
0.79	0.80	0.72	0.66	0.76	0.67	0.74	0.81	0.73
0.61	0.71	0.60	0.60	0.57	0.56	0.64	0.62	0.55
0.69	0.79	0.71	0.70	0.82	0.68	0.77	0.68	0.68
0.96	0.99	0.97	0.94	0.95	0.90	0.91	0.99	0.95
0.83	0.92	0.83	0.87	0.89	0.87	0.87	0.89	0.82
0.87	0.91	0.92	0.79	0.90	0.88	0.83	0.90	0.86
0.39	0.50	0.30	0.38	0.45	0.38	0.38	0.44	0.30
0.57	0.71	0.61	0.58	0.64	0.60	0.65	0.62	0.60
0.83	0.91	0.81	0.81	0.91	0.81	0.87	0.80	0.76
0.92	0.90	0.70	0.68	0.96	0.83	0.90	0.93	0.89
0.80	0.89	0.76	0.73	0.89	0.80	0.87	0.90	0.73
0.79	0.91	0.86	0.83	0.90	0.82	0.93	0.88	0.78
0.79	0.88	0.87	0.76	0.87	0.81	0.88	0.85	0.82
0.90	0.97	0.91	0.89	0.94	0.90	0.96	0.97	0.96
0.75	0.84	0.87	0.81	0.84	0.80	0.84	0.86	0.74
0.90	0.95	0.93	0.90	0.93	0.88	0.92	0.90	0.84
0.75	0.89	0.74	0.76	0.84	0.80	0.86	0.87	0.72
0.47	0.57	0.36	0.35	0.61	0.49	0.51	0.48	0.33
0.88	0.99	0.95	0.91	0.94	0.89	0.95	0.99	0.86
0.61	0.74	0.70	0.67	0.66	0.73	0.70	0.66	0.60
0.56	0.64	0.54	0.49	0.63	0.48	0.61	0.62	0.50
0.91	0.91	0.87	0.86	0.93	0.90	0.92	0.87	0.88
0.94	0.92	0.90	0.88	0.82	0.88	0.91	0.89	0.84

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0.56	0.62	0.53	0.64	0.59	0.50	0.61	0.60	0.43
0.69	0.82	0.60	0.73	0.78	0.61	0.78	0.83	0.71
0.97	0.93	0.91	0.93	0.97	0.93	0.97	0.97	0.98
0.97	0.96	0.97	0.94	0.98	0.93	0.98	0.97	0.99
0.85	0.99	0.90	0.85	0.94	0.84	0.92	0.90	0.85
0.81	0.87	0.79	0.75	0.84	0.85	0.91	0.93	0.79
0.71	0.70	0.49	0.69	0.76	0.49	0.63	0.69	0.54
0.66	0.73	0.78	0.75	0.75	0.64	0.68	0.73	0.64
0.24	0.30	0.14	0.10	0.37	0.23	0.30	0.22	0.13

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RFF	RJ2	RA3	RBT	REN	RRF	RAP	RMC	RLQ
0.76	0.66	0.71	0.73	0.74	0.70	0.64	0.81	0.76
0.63	0.52	0.56	0.63	0.59	0.59	0.48	0.65	0.62
0.54	0.56	0.40	0.51	0.62	0.54	0.45	0.69	0.47
0.63	0.61	NA	0.68	0.58	0.72	0.51	0.64	0.60
0.82	0.73	0.80	0.81	0.83	0.78	0.67	0.83	0.75
0.75	0.72	0.65	0.73	0.70	0.74	0.60	0.79	0.74
0.58	0.53	0.48	0.59	0.63	0.57	0.48	0.69	0.59
0.90	0.84	0.79	0.87	0.83	0.84	0.77	0.92	0.88
0.77	0.73	0.71	0.82	0.79	0.84	0.69	0.81	0.84
0.84	0.81	0.75	0.82	0.88	0.80	0.73	0.93	0.86
0.78	0.78	0.63	0.70	0.77	0.76	0.66	0.82	0.65
0.93	0.86	0.89	0.80	0.87	0.93	0.85	0.92	0.84
0.81	0.76	0.74	0.78	0.81	0.79	0.64	0.84	0.84
0.68	0.64	0.61	0.69	0.64	0.65	0.56	0.73	0.63
0.89	0.82	0.85	0.89	0.89	0.88	0.76	0.91	0.78
0.93	0.81	0.89	0.87	0.93	0.89	0.75	0.91	0.80
0.82	0.78	0.72	0.83	0.80	0.77	0.62	0.86	0.81
0.76	0.73	0.62	0.76	0.64	0.69	0.54	0.72	0.72
0.86	0.72	0.77	0.77	0.78	0.84	0.55	0.81	0.70
0.72	0.77	0.71	0.72	0.73	0.75	0.67	0.84	0.75
0.63	0.52	0.45	0.71	0.67	0.69	0.52	0.69	0.73
0.79	0.71	0.67	0.71	0.69	0.70	0.56	0.81	0.69
1.00	0.96	0.94	0.99	0.96	0.97	0.95	0.98	0.94
0.92	0.80	0.85	0.81	0.84	0.89	0.69	0.91	0.82
0.92	0.87	0.85	0.91	0.88	0.93	0.85	0.92	0.89
0.41	0.31	0.28	0.32	0.37	0.41	0.40	0.26	0.32
0.70	0.54	0.58	0.73	0.68	0.67	0.49	0.71	0.68
0.88	0.86	0.86	0.85	0.80	0.85	0.69	0.88	0.83
0.89	0.86	0.85	0.86	0.82	0.86	0.72	0.91	0.87
0.85	0.81	0.82	0.78	0.86	0.84	0.76	0.88	0.76
0.91	0.84	0.84	0.87	0.84	0.82	0.77	0.91	0.84
0.85	0.82	0.81	0.88	0.86	0.89	0.79	0.93	0.86
0.94	0.91	0.91	0.95	0.95	0.91	0.92	0.93	0.96
0.90	0.75	0.79	0.82	0.83	0.85	0.65	0.83	0.76
0.88	0.87	0.92	0.89	0.90	0.89	0.83	0.94	0.92
0.90	0.83	0.86	0.82	0.80	0.84	0.82	0.81	0.77
0.54	0.44	0.34	0.45	0.51	0.52	0.25	0.57	0.65
0.96	0.97	0.93	0.97	0.95	0.93	0.87	0.94	0.90
0.78	0.62	0.67	0.60	0.72	0.72	0.55	0.75	0.77
0.61	0.46	0.43	0.63	0.60	0.55	0.49	0.59	0.67
0.93	0.88	0.88	0.91	0.93	0.90	0.83	0.95	0.91
0.91	0.84	0.88	0.88	0.92	0.87	0.86	0.94	0.87

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0.62	0.62	0.69	0.54	0.61	0.51	0.56	0.63	0.55
0.74	0.72	0.75	0.75	0.77	0.87	0.71	0.88	0.74
0.95	0.92	0.98	0.93	0.95	0.97	0.90	0.97	0.95
0.96	0.95	0.97	0.96	0.96	0.95	0.92	0.98	0.97
0.89	0.95	0.90	0.93	0.88	0.91	0.91	0.92	0.89
0.88	0.84	0.83	0.83	0.91	0.86	0.84	0.91	0.84
0.65	0.63	0.74	0.78	0.65	0.80	0.39	0.75	0.70
0.81	0.69	0.71	0.75	0.76	0.86	0.50	0.81	0.74
0.18	0.18	0.27	0.15	0.20	0.17	0.26	0.16	0.28

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RLT	RDZ	RBK	RQQ	RBN	RDD	RFS	RTK	RCF
0.76	0.82	0.75	0.72	0.81	0.71	0.68	0.67	0.73
0.65	0.73	0.55	0.55	0.71	0.52	0.60	0.54	0.57
0.55	0.58	0.50	0.49	0.66	0.55	0.49	0.43	0.53
0.60	0.69	0.47	0.65	0.90	0.57	0.62	0.72	0.50
0.77	0.82	0.77	0.79	0.85	0.78	0.77	0.75	0.78
0.76	0.76	0.68	0.67	0.76	0.69	0.72	0.66	0.71
0.58	0.62	0.52	0.51	0.65	0.52	0.56	0.48	0.53
0.82	0.90	0.81	0.82	0.91	0.84	0.86	0.84	0.82
0.72	0.87	0.77	0.73	0.88	0.79	0.84	0.80	0.79
0.85	0.86	0.80	0.80	0.84	0.80	0.80	0.78	0.82
0.81	0.81	0.73	0.71	0.78	0.68	0.72	0.69	0.66
0.81	0.83	0.75	0.68	0.96	0.85	0.96	0.90	0.90
0.79	0.80	0.72	0.79	0.83	0.77	0.80	0.77	0.74
0.68	0.75	0.62	0.66	0.66	0.60	0.68	0.61	0.64
0.85	0.88	0.82	0.86	0.92	0.84	0.87	0.89	0.90
0.83	0.92	0.84	0.91	0.91	0.83	0.88	0.88	0.83
0.79	0.83	0.73	0.79	0.81	0.77	0.80	0.70	0.77
0.81	0.70	0.65	0.69	0.63	0.62	0.72	0.69	0.64
0.70	0.77	0.68	0.75	0.75	0.70	0.73	0.72	0.68
0.74	0.77	0.70	0.74	0.73	0.74	0.73	0.72	0.78
0.54	0.62	0.56	0.62	0.67	0.55	0.71	0.59	0.70
0.80	0.80	0.65	0.70	0.71	0.69	0.74	0.63	0.73
0.97	0.97	0.96	0.93	0.98	0.97	0.93	0.97	0.95
0.84	0.92	0.81	0.86	0.93	0.79	0.84	0.82	0.85
0.88	0.92	0.86	0.88	0.91	0.87	0.91	0.88	0.90
0.40	0.34	0.40	0.27	0.35	0.32	0.35	0.33	0.38
0.65	0.74	0.58	0.66	0.68	0.58	0.68	0.64	0.61
0.83	0.85	0.76	0.84	0.87	0.88	0.82	0.83	0.77
0.92	0.81	0.76	0.78	0.89	0.86	0.90	0.80	0.80
0.84	0.83	0.82	0.76	0.87	0.80	0.84	0.77	0.81
0.87	0.91	0.84	0.82	0.89	0.82	0.85	0.83	0.86
0.85	0.91	0.82	0.88	0.91	0.86	0.89	0.84	0.90
0.94	0.94	0.94	0.93	0.93	0.93	0.93	0.96	0.96
0.76	0.92	0.78	0.75	0.90	0.76	0.80	0.84	0.88
0.94	0.95	0.85	0.91	0.94	0.88	0.89	0.87	0.90
0.91	0.86	0.82	0.78	0.86	0.81	0.79	0.82	0.79
0.50	0.57	0.31	0.53	0.53	0.47	0.47	0.41	0.47
0.91	0.97	0.94	0.95	0.96	0.88	0.94	0.88	0.93
0.63	0.76	0.66	0.68	0.78	0.64	0.65	0.67	0.55
0.53	0.64	0.42	0.61	0.57	0.55	0.55	0.44	0.62
0.95	0.94	0.85	0.90	0.91	0.94	0.93	0.89	0.92
0.93	0.92	0.84	0.93	0.92	0.86	0.91	0.88	0.92

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0.61	0.52	0.70	0.50	0.63	0.60	0.44	0.44	0.63
0.73	0.89	0.74	0.73	0.73	0.73	0.74	0.70	0.78
0.97	0.97	0.92	0.95	0.96	0.94	0.96	0.97	0.98
0.98	0.99	0.92	0.96	0.98	0.95	0.96	0.95	0.98
0.92	0.93	0.89	0.89	0.90	0.90	0.83	0.89	0.86
0.86	0.90	0.83	0.83	0.92	0.78	0.86	0.77	0.86
0.66	0.73	0.67	0.53	0.71	0.56	0.72	0.72	0.72
0.77	0.77	0.64	0.75	0.82	0.79	0.66	0.76	0.57
0.29	0.19	0.29	0.25	0.11	0.13	0.20	0.18	0.31

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RWG	REM	RJF	RQW	RCB	RF4	RK5	RCD	RBZ
0.74	0.72	0.72	0.76	0.76	0.76	0.66	0.77	0.73
0.59	0.57	0.58	0.54	0.60	0.50	0.55	0.62	0.57
0.49	0.49	0.52	0.54	0.57	0.49	0.45	0.63	0.58
0.63	0.47	0.55	0.59	0.65	0.50	0.42	0.57	0.43
0.79	0.77	0.79	0.80	0.82	0.76	0.72	0.81	0.78
0.69	0.70	0.69	0.68	0.75	0.70	0.67	0.75	0.73
0.47	0.52	0.53	0.48	0.61	0.53	0.56	0.60	0.52
0.83	0.84	0.86	0.84	0.89	0.86	0.79	0.89	0.85
0.83	0.80	0.76	0.81	0.80	0.82	0.81	0.81	0.77
0.81	0.86	0.81	0.82	0.87	0.81	0.76	0.85	0.79
0.66	0.76	0.62	0.68	0.77	0.74	0.75	0.84	0.73
0.85	0.80	0.92	0.73	0.87	0.79	0.76	0.82	0.83
0.79	0.81	0.77	0.83	0.83	0.78	0.69	0.85	0.82
0.62	0.62	0.62	0.60	0.76	0.67	0.63	0.76	0.68
0.85	0.89	0.89	0.84	0.84	0.86	0.88	0.89	0.89
0.88	0.87	0.88	0.87	0.88	0.85	0.90	0.88	0.92
0.77	0.77	0.77	0.79	0.81	0.73	0.71	0.85	0.80
0.69	0.58	0.66	0.70	0.66	0.59	0.55	0.77	0.67
0.74	0.74	0.76	0.71	0.73	0.66	0.80	0.74	0.81
0.74	0.64	0.72	0.73	0.79	0.74	0.69	0.87	0.78
0.64	0.61	0.58	0.65	0.68	0.56	0.54	0.66	0.71
0.71	0.65	0.77	0.67	0.74	0.67	0.65	0.82	0.71
0.98	0.94	0.98	0.96	0.97	0.96	0.94	0.99	0.96
0.87	0.88	0.83	0.83	0.89	0.85	0.86	0.87	0.86
0.86	0.92	0.87	0.91	0.94	0.84	0.85	0.93	0.92
0.31	0.33	0.28	0.31	0.40	0.36	0.28	0.43	0.27
0.58	0.68	0.64	0.58	0.62	0.55	0.61	0.70	0.71
0.82	0.80	0.85	0.80	0.84	0.80	0.83	0.84	0.88
0.82	0.84	0.86	0.84	0.86	0.82	0.83	0.90	0.84
0.78	0.76	0.81	0.79	0.85	0.77	0.70	0.92	0.81
0.86	0.84	0.84	0.85	0.89	0.84	0.81	0.91	0.84
0.84	0.86	0.85	0.85	0.87	0.81	0.90	0.90	0.87
0.93	0.93	0.94	0.94	0.94	0.91	0.94	0.96	0.98
0.80	0.87	0.85	0.72	0.86	0.78	0.83	0.87	0.78
0.93	0.88	0.90	0.88	0.92	0.84	0.85	0.92	0.91
0.85	0.88	0.71	0.76	0.86	0.80	0.77	0.93	0.85
0.51	0.51	0.41	0.40	0.49	0.29	0.28	0.67	0.51
0.92	0.94	0.94	0.90	0.98	0.93	0.94	0.96	0.95
0.66	0.59	0.68	0.57	0.63	0.65	0.67	0.72	0.65
0.58	0.64	0.45	0.49	0.59	0.41	0.38	0.71	0.69
0.87	0.91	0.92	0.90	0.92	0.91	0.87	0.98	0.95
0.89	0.89	0.84	0.86	0.87	0.85	0.85	0.93	0.95

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0.57	0.55	0.53	0.50	0.69	0.47	0.42	0.86	0.59
0.73	0.75	0.82	0.72	0.73	0.73	0.78	0.77	0.78
0.96	0.94	0.97	0.94	0.98	0.90	0.96	0.97	0.97
0.94	0.97	0.96	0.94	0.96	0.97	0.97	0.99	0.97
0.90	0.89	0.91	0.91	0.92	0.94	0.87	0.97	0.91
0.89	0.80	0.74	0.81	0.87	0.71	0.72	0.92	0.83
0.68	0.69	0.72	0.62	0.68	0.52	0.82	0.82	0.85
0.64	0.70	0.49	0.70	0.77	0.64	0.61	0.84	0.71
0.12	0.20	0.27	0.27	0.24	0.23	0.19	0.24	0.23

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RTP	RWJ	RC9	RGP	RD8	RBD	RNQ	RP5	RVJ
0.74	0.75	0.75	0.73	0.65	0.75	0.77	0.72	0.79
0.56	0.52	0.62	0.60	0.47	0.56	0.54	0.54	0.56
0.45	0.47	0.57	0.54	0.44	0.52	0.52	0.51	0.49
0.66	0.64	0.62	0.67	0.68	0.69	0.61	0.50	0.50
0.73	0.80	0.82	0.73	0.73	0.80	0.85	0.78	0.74
0.72	0.69	0.75	0.68	0.68	0.70	0.72	0.64	0.70
0.50	0.55	0.56	0.52	0.47	0.51	0.53	0.54	0.54
0.82	0.83	0.87	0.81	0.81	0.85	0.86	0.85	0.87
0.83	0.77	0.76	0.76	0.80	0.78	0.79	0.77	0.77
0.84	0.81	0.85	0.77	0.78	0.81	0.83	0.80	0.84
0.67	0.74	0.76	0.76	0.72	0.76	0.75	0.74	0.74
0.92	0.86	0.92	0.85	0.86	0.84	0.81	0.81	0.82
0.76	0.81	0.83	0.79	0.70	0.84	0.78	0.76	0.79
0.66	0.63	0.68	0.66	0.63	0.66	0.67	0.61	0.64
0.88	0.81	0.88	0.88	0.87	0.86	0.87	0.87	0.94
0.94	0.88	0.88	0.88	0.85	0.90	0.92	0.85	0.88
0.79	0.75	0.80	0.76	0.72	0.80	0.74	0.72	0.83
0.71	0.77	0.71	0.59	0.53	0.71	0.68	0.58	0.68
0.69	0.74	0.74	0.77	0.68	0.81	0.72	0.75	0.75
0.77	0.76	0.72	0.73	0.63	0.71	0.74	0.71	0.75
0.58	0.62	0.60	0.65	0.54	0.68	0.61	0.59	0.60
0.70	0.72	0.71	0.74	0.65	0.73	0.68	0.71	0.73
0.96	0.96	0.96	0.96	0.90	0.97	0.97	0.97	0.96
0.85	0.83	0.86	0.83	0.84	0.84	0.86	0.81	0.86
0.87	0.92	0.87	0.86	0.87	0.91	0.84	0.87	0.84
0.30	0.31	0.45	0.34	0.31	0.31	0.30	0.32	0.40
0.60	0.60	0.62	0.65	0.55	0.62	0.56	0.53	0.65
0.81	0.84	0.83	0.86	0.83	0.85	0.87	0.85	0.83
0.88	0.86	0.92	0.81	0.81	0.85	0.88	0.74	0.82
0.79	0.77	0.85	0.77	0.80	0.81	0.77	0.79	0.87
0.89	0.87	0.86	0.80	0.82	0.83	0.86	0.84	0.91
0.83	0.87	0.84	0.83	0.83	0.84	0.82	0.83	0.83
0.95	0.96	0.96	0.93	0.92	0.98	0.94	0.92	0.92
0.86	0.80	0.78	0.75	0.77	0.82	0.78	0.83	0.87
0.84	0.89	0.86	0.91	0.86	0.92	0.84	0.83	0.90
0.88	0.82	0.86	0.82	0.69	0.77	0.80	0.77	0.73
0.35	0.51	0.52	0.45	0.30	0.48	0.42	0.35	0.40
0.94	0.93	0.93	0.94	0.91	0.98	0.91	0.92	0.92
0.70	0.64	0.66	0.58	0.53	0.67	0.62	0.57	0.68
0.49	0.55	0.70	0.53	0.39	0.62	0.47	0.54	0.57
0.86	0.90	0.92	0.93	0.87	0.89	0.83	0.83	0.85
0.82	0.84	0.87	0.93	0.81	0.91	0.80	0.81	0.83

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0.48	0.38	0.69	0.62	0.47	0.62	0.40	0.47	0.54
0.87	0.66	0.78	0.71	0.73	0.76	0.73	0.76	0.72
0.97	0.95	0.96	0.94	0.95	0.93	0.93	0.92	0.96
0.96	0.95	0.93	0.95	0.96	0.97	0.90	0.94	0.94
0.91	0.92	0.97	0.88	0.83	0.91	0.89	0.89	0.94
0.90	0.79	0.86	0.85	0.77	0.89	0.72	0.86	0.90
0.59	0.65	0.59	0.67	0.66	0.73	0.74	0.78	0.71
0.69	0.74	0.63	0.77	0.69	0.77	0.61	0.69	0.76
0.22	0.16	0.22	0.12	0.30	0.22	0.17	0.19	0.27

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RW3	RJC	RAE	RBL	RGR	RQ6	R1K	RN7	RHW
0.68	0.78	0.70	0.75	0.74	0.71	0.73	0.76	0.75
0.60	0.59	0.54	0.60	0.57	0.63	0.58	0.62	0.58
0.51	0.56	0.39	0.56	0.55	0.58	0.51	0.47	0.46
0.74	0.54	0.57	0.44	0.57	0.67	0.68	0.67	0.49
0.75	0.84	0.75	0.80	0.84	0.86	0.75	0.80	0.81
0.74	0.77	0.69	0.74	0.72	0.76	0.68	0.80	0.78
0.59	0.54	0.49	0.57	0.53	0.59	0.54	0.60	0.56
0.86	0.85	0.82	0.84	0.83	0.86	0.86	0.86	0.81
0.68	0.80	0.78	0.80	0.83	0.70	0.70	0.76	0.82
0.84	0.84	0.82	0.83	0.86	0.86	0.78	0.87	0.82
0.77	0.82	0.65	0.74	0.75	0.78	0.71	0.75	0.71
0.88	0.83	0.89	0.84	0.86	0.85	0.86	0.92	0.84
0.81	0.83	0.74	0.83	0.81	0.85	0.76	0.81	0.75
0.67	0.67	0.60	0.66	0.65	0.69	0.64	0.75	0.64
0.87	0.87	0.78	0.86	0.87	0.88	0.86	0.80	0.88
0.84	0.93	0.83	0.90	0.92	0.89	0.88	0.89	0.92
0.81	0.81	0.71	0.77	0.80	0.80	0.70	0.85	0.78
0.76	0.71	0.61	0.59	0.68	0.73	0.64	0.75	0.61
0.68	0.78	0.69	0.77	0.79	0.79	0.76	0.71	0.74
0.73	0.76	0.69	0.74	0.76	0.72	0.72	0.80	0.75
0.59	0.76	0.54	0.62	0.70	0.63	0.59	0.63	0.64
0.71	0.74	0.59	0.68	0.68	0.72	0.69	0.75	0.66
0.98	0.96	0.94	0.97	0.94	0.97	0.94	0.96	0.97
0.82	0.86	0.78	0.88	0.90	0.92	0.85	0.86	0.81
0.88	0.89	0.89	0.86	0.85	0.87	0.85	0.87	0.86
0.36	0.37	0.33	0.31	0.35	0.36	0.39	0.40	0.29
0.58	0.66	0.57	0.66	0.70	0.68	0.60	0.67	0.54
0.84	0.93	0.78	0.82	0.90	0.90	0.84	0.85	0.89
0.89	0.88	0.81	0.80	0.84	0.86	0.79	0.90	0.86
0.82	0.88	0.76	0.84	0.81	0.85	0.81	0.87	0.82
0.80	0.83	0.81	0.87	0.90	0.91	0.80	0.88	0.90
0.84	0.85	0.85	0.85	0.85	0.83	0.80	0.81	0.82
0.94	0.97	0.92	0.94	0.94	0.95	0.90	0.95	0.89
0.76	0.85	0.75	0.86	0.87	0.85	0.75	0.83	0.84
0.90	0.94	0.83	0.90	0.90	0.90	0.86	0.89	0.88
0.82	0.86	0.80	0.72	0.77	0.81	0.81	0.89	0.78
0.52	0.51	0.45	0.52	0.36	0.52	0.45	0.48	0.45
0.91	0.92	0.93	0.93	0.94	0.96	0.93	0.95	0.96
0.60	0.70	0.59	0.73	0.73	0.76	0.70	0.65	0.71
0.53	0.62	0.50	0.58	0.41	0.62	0.53	0.62	0.58
0.89	0.94	0.86	0.90	0.92	0.95	0.87	0.92	0.85
0.87	0.96	0.86	0.89	0.87	0.88	0.86	0.88	0.84

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0.65	0.72	0.52	0.48	0.55	0.52	0.52	0.60	0.49
0.77	0.71	0.81	0.85	0.68	0.72	0.71	0.77	0.76
0.94	0.96	0.94	0.95	0.96	0.98	0.96	0.95	0.94
0.96	0.97	0.94	0.95	0.98	0.97	0.96	0.92	0.95
0.93	0.88	0.83	0.90	0.86	0.91	0.89	0.91	0.95
0.82	0.91	0.81	0.85	0.81	0.85	0.79	0.85	0.82
0.69	0.76	0.68	0.71	0.67	0.74	0.53	0.62	0.63
0.70	0.88	0.63	0.77	0.64	0.72	0.62	0.75	0.67
0.32	0.24	0.27	0.21	0.26	0.37	0.26	0.25	0.16

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RNL	RCX	RPA	RWH	RM2	RR7	RNS	RN3	RGN
0.72	0.77	0.73	0.72	0.80	0.75	0.70	0.75	0.77
0.53	0.59	0.52	0.55	0.60	0.60	0.60	0.56	0.58
0.53	0.50	0.44	0.50	0.54	0.65	0.52	0.47	0.59
0.54	0.76	0.66	0.47	0.62	0.62	0.52	0.49	0.66
0.74	0.83	0.75	0.77	0.86	0.84	0.74	0.80	0.83
0.69	0.73	0.74	0.70	0.77	0.81	0.77	0.75	0.76
0.52	0.58	0.57	0.52	0.63	0.61	0.50	0.51	0.61
0.85	0.89	0.83	0.81	0.86	0.89	0.83	0.86	0.86
0.81	0.77	0.76	0.75	0.81	0.85	0.74	0.79	0.80
0.75	0.83	0.82	0.80	0.88	0.89	0.84	0.82	0.84
0.72	0.78	0.71	0.73	0.77	0.79	0.67	0.68	0.73
0.79	0.87	0.84	0.82	0.85	0.90	0.81	0.82	0.88
0.76	0.80	0.79	0.75	0.84	0.85	0.77	0.81	0.81
0.60	0.68	0.62	0.63	0.69	0.79	0.69	0.66	0.69
0.84	0.82	0.83	0.84	0.85	0.90	0.83	0.87	0.92
0.89	0.85	0.80	0.89	0.88	0.93	0.86	0.88	0.90
0.74	0.81	0.75	0.75	0.81	0.84	0.79	0.80	0.81
0.61	0.70	0.69	0.58	0.67	0.74	0.66	0.61	0.68
0.83	0.73	0.69	0.74	0.71	0.84	0.72	0.70	0.80
0.69	0.77	0.77	0.69	0.72	0.75	0.77	0.80	0.78
0.67	0.71	0.57	0.61	0.61	0.60	0.60	0.64	0.67
0.67	0.73	0.66	0.65	0.73	0.80	0.73	0.69	0.69
0.94	0.94	0.97	0.96	0.98	0.98	0.92	0.97	0.97
0.80	0.83	0.81	0.87	0.90	0.90	0.83	0.84	0.84
0.86	0.89	0.85	0.83	0.90	0.93	0.84	0.86	0.89
0.34	0.35	0.27	0.28	0.32	0.46	0.29	0.31	0.44
0.55	0.68	0.58	0.55	0.63	0.69	0.58	0.59	0.66
0.89	0.83	0.83	0.80	0.87	0.88	0.85	0.79	0.83
0.76	0.85	0.84	0.81	0.86	0.89	0.85	0.84	0.84
0.76	0.83	0.80	0.82	0.80	0.87	0.81	0.80	0.83
0.83	0.86	0.84	0.79	0.85	0.91	0.79	0.85	0.90
0.85	0.85	0.82	0.81	0.89	0.92	0.82	0.80	0.85
0.94	0.94	0.91	0.91	0.95	0.98	0.92	0.94	0.96
0.88	0.82	0.78	0.80	0.85	0.86	0.76	0.84	0.80
0.87	0.90	0.86	0.87	0.88	0.92	0.89	0.90	0.92
0.79	0.85	0.88	0.84	0.72	0.84	0.85	0.75	0.93
0.41	0.42	0.43	0.44	0.45	0.56	0.45	0.36	0.52
0.93	0.93	0.92	0.91	0.93	0.97	0.94	0.95	0.96
0.65	0.68	0.61	0.69	0.62	0.79	0.65	0.51	0.69
0.48	0.49	0.53	0.47	0.47	0.64	0.57	0.47	0.57
0.79	0.88	0.90	0.86	0.89	0.93	0.87	0.88	0.92
0.84	0.90	0.86	0.84	0.89	0.92	0.86	0.82	0.87

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0.50	0.56	0.65	0.59	0.56	0.64	0.66	0.63	0.67
0.76	0.76	0.69	0.69	0.76	0.83	0.80	0.76	0.75
0.96	0.93	0.96	0.96	0.93	0.97	0.94	0.97	0.98
0.91	0.96	0.96	0.94	0.97	0.96	0.93	0.96	0.96
0.85	0.87	0.90	0.87	0.92	0.95	0.93	0.90	0.91
0.77	0.84	0.82	0.88	0.86	0.84	0.81	0.88	0.88
0.79	0.73	0.51	0.59	0.62	0.71	0.68	0.73	0.74
0.70	0.73	0.65	0.49	0.67	0.78	0.68	0.60	0.67
0.16	0.26	0.22	0.23	0.34	0.19	0.23	0.34	0.23

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RVW	RNZ	RDE	RLN	RWY	RGQ	RXP	RXH	RXK
0.77	0.76	0.76	0.73	0.74	0.69	0.73	0.77	0.75
0.65	0.63	0.62	0.61	0.57	0.62	0.59	0.60	0.57
0.55	0.58	0.53	0.58	0.49	0.55	0.55	0.55	0.47
0.72	0.61	0.69	0.59	0.59	0.65	0.64	0.69	0.59
0.82	0.82	0.80	0.80	0.75	0.78	0.78	0.79	0.75
0.80	0.72	0.78	0.76	0.75	0.69	0.71	0.71	0.74
0.63	0.54	0.62	0.58	0.51	0.52	0.54	0.53	0.55
0.88	0.83	0.86	0.85	0.84	0.82	0.82	0.85	0.90
0.77	0.79	0.79	0.72	0.79	0.78	0.79	0.80	0.75
0.88	0.86	0.83	0.83	0.83	0.83	0.81	0.82	0.85
0.80	0.80	0.72	0.76	0.72	0.77	0.71	0.73	0.67
0.91	0.87	0.91	0.82	0.90	0.91	0.77	0.93	0.90
0.83	0.84	0.80	0.78	0.78	0.83	0.80	0.80	0.80
0.74	0.68	0.72	0.74	0.66	0.67	0.65	0.63	0.66
0.87	0.87	0.89	0.83	0.84	0.88	0.85	0.86	0.86
0.87	0.89	0.89	0.89	0.89	0.90	0.87	0.88	0.84
0.85	0.81	0.81	0.78	0.77	0.78	0.74	0.78	0.77
0.73	0.76	0.70	0.77	0.68	0.69	0.69	0.74	0.71
0.76	0.78	0.72	0.77	0.75	0.74	0.72	0.75	0.70
0.76	0.74	0.80	0.71	0.75	0.70	0.71	0.73	0.79
0.59	0.67	0.57	0.63	0.64	0.65	0.65	0.67	0.55
0.80	0.78	0.76	0.75	0.73	0.78	0.74	0.69	0.70
0.97	0.97	0.96	0.94	0.96	0.97	0.95	0.97	0.96
0.84	0.89	0.81	0.88	0.82	0.86	0.77	0.86	0.81
0.91	0.93	0.87	0.90	0.89	0.87	0.88	0.82	0.88
0.37	0.36	0.37	0.39	0.38	0.36	0.33	0.35	0.39
0.71	0.65	0.64	0.68	0.64	0.64	0.61	0.63	0.58
0.84	0.81	0.82	0.81	0.87	0.85	0.85	0.85	0.76
0.90	0.88	0.86	0.85	0.83	0.80	0.84	0.89	0.86
0.87	0.80	0.83	0.79	0.77	0.85	0.78	0.79	0.84
0.85	0.89	0.90	0.86	0.86	0.87	0.85	0.86	0.83
0.88	0.87	0.82	0.85	0.84	0.84	0.84	0.81	0.84
0.95	0.96	0.94	0.93	0.95	0.96	0.94	0.93	0.94
0.86	0.88	0.83	0.79	0.87	0.89	0.77	0.80	0.77
0.92	0.92	0.92	0.89	0.85	0.91	0.88	0.89	0.87
0.82	0.86	0.81	0.79	0.84	0.85	0.79	0.82	0.86
0.50	0.50	0.49	0.53	0.51	0.56	0.49	0.53	0.39
0.93	0.97	0.95	0.92	0.96	0.95	0.94	0.94	0.93
0.67	0.70	0.64	0.70	0.66	0.65	0.57	0.74	0.66
0.59	0.57	0.49	0.56	0.56	0.58	0.58	0.49	0.49
0.93	0.92	0.90	0.92	0.93	0.90	0.90	0.88	0.91
0.94	0.88	0.88	0.89	0.85	0.82	0.90	0.82	0.88

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0.63	0.63	0.57	0.56	0.48	0.65	0.53	0.52	0.62
0.87	0.71	0.77	0.79	0.74	0.72	0.72	0.88	0.87
0.96	0.95	0.97	0.97	0.96	0.97	0.97	0.96	0.94
0.98	0.97	0.95	0.97	0.96	0.97	0.96	0.95	0.93
0.91	0.88	0.94	0.91	0.86	0.93	0.91	0.84	0.92
0.84	0.82	0.89	0.80	0.75	0.88	0.77	0.85	0.79
0.67	0.72	0.60	0.70	0.65	0.73	0.74	0.73	0.69
0.81	0.79	0.72	0.78	0.74	0.71	0.76	0.65	0.61
0.22	0.23	0.34	0.24	0.33	0.23	0.21	0.26	0.33

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RD1	RJL	RXF	RQ8	RXQ	RTF	RD3	RW6	RNA
0.70	0.72	0.74	0.72	0.77	0.75	0.70	0.69	0.74
0.59	0.53	0.56	0.63	0.55	0.65	0.62	0.51	0.59
0.48	0.52	0.55	0.54	0.51	0.49	0.55	0.53	0.52
0.64	0.63	0.63	0.72	0.69	0.57	0.60	0.52	0.60
0.78	0.82	0.77	0.84	0.77	0.79	0.81	0.73	0.80
0.75	0.72	0.78	0.75	0.72	0.81	0.70	0.69	0.76
0.55	0.52	0.55	0.53	0.55	0.62	0.51	0.54	0.55
0.84	0.80	0.82	0.83	0.85	0.88	0.85	0.85	0.86
0.77	0.76	0.77	0.81	0.76	0.81	0.78	0.74	0.75
0.84	0.81	0.83	0.84	0.83	0.87	0.82	0.82	0.84
0.74	0.72	0.75	0.72	0.71	0.77	0.77	0.73	0.73
0.89	0.91	0.88	0.89	0.83	0.91	0.85	0.90	0.91
0.81	0.77	0.81	0.79	0.82	0.84	0.78	0.78	0.80
0.65	0.69	0.72	0.70	0.63	0.77	0.70	0.63	0.66
0.88	0.87	0.89	0.86	0.84	0.87	0.89	0.84	0.84
0.90	0.90	0.87	0.91	0.90	0.88	0.90	0.86	0.88
0.81	0.76	0.78	0.79	0.78	0.81	0.78	0.74	0.77
0.71	0.69	0.73	0.75	0.69	0.79	0.65	0.67	0.67
0.75	0.80	0.71	0.73	0.80	0.78	0.76	0.69	0.77
0.77	0.68	0.74	0.76	0.73	0.74	0.70	0.73	0.74
0.67	0.58	0.58	0.58	0.65	0.66	0.66	0.57	0.56
0.71	0.68	0.76	0.74	0.70	0.81	0.73	0.65	0.67
0.95	0.95	0.94	0.98	0.94	0.93	0.96	0.95	0.98
0.85	0.86	0.83	0.85	0.84	0.87	0.88	0.82	0.84
0.90	0.85	0.88	0.87	0.87	0.91	0.91	0.88	0.84
0.34	0.35	0.38	0.33	0.30	0.38	0.36	0.35	0.35
0.63	0.62	0.64	0.62	0.61	0.67	0.65	0.57	0.62
0.83	0.88	0.83	0.89	0.84	0.84	0.87	0.80	0.85
0.82	0.85	0.87	0.87	0.86	0.89	0.82	0.84	0.87
0.80	0.81	0.80	0.84	0.81	0.83	0.81	0.78	0.82
0.84	0.81	0.81	0.88	0.86	0.83	0.88	0.76	0.89
0.87	0.84	0.86	0.85	0.87	0.86	0.84	0.86	0.85
0.95	0.94	0.95	0.93	0.95	0.97	0.96	0.91	0.94
0.84	0.80	0.83	0.80	0.86	0.88	0.89	0.80	0.83
0.92	0.89	0.89	0.90	0.87	0.92	0.93	0.83	0.89
0.85	0.74	0.83	0.79	0.78	0.82	0.76	0.78	0.78
0.40	0.42	0.43	0.47	0.33	0.57	0.52	0.40	0.39
0.92	0.95	0.94	0.93	0.94	0.90	0.95	0.90	0.94
0.61	0.66	0.56	0.72	0.74	0.68	0.71	0.63	0.59
0.46	0.50	0.52	0.53	0.44	0.63	0.65	0.48	0.45
0.93	0.84	0.91	0.89	0.91	0.91	0.92	0.86	0.88
0.90	0.90	0.90	0.86	0.80	0.91	0.91	0.82	0.84

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0.59	0.51	0.55	0.62	0.60	0.65	0.58	0.57	0.59
0.74	0.67	0.78	0.72	0.75	0.73	0.74	0.73	0.82
0.97	0.94	0.95	0.97	0.95	0.98	0.95	0.94	0.94
0.97	0.95	0.97	0.97	0.96	0.97	0.97	0.94	0.93
0.90	0.88	0.84	0.91	0.90	0.92	0.94	0.88	0.86
0.85	0.78	0.82	0.81	0.87	0.82	0.84	0.80	0.87
0.74	0.68	0.70	0.66	0.66	0.69	0.73	0.70	0.53
0.67	0.68	0.72	0.67	0.74	0.84	0.79	0.63	0.46
0.28	0.22	0.31	0.20	0.27	0.19	0.23	0.18	0.23

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RA9	RA2	RTX	RXC	RXL	RBA	RAJ	RRK	RHU
0.80	0.74	0.74	0.73	0.76	0.76	0.75	0.70	0.73
0.66	0.58	0.62	0.55	0.56	0.62	0.61	0.57	0.60
0.61	0.49	0.54	0.52	0.52	0.58	0.56	0.51	0.48
0.65	0.66	0.66	0.62	0.54	0.67	0.59	0.63	0.55
0.81	0.80	0.84	0.82	0.81	0.82	0.78	0.78	0.83
0.77	0.73	0.76	0.71	0.73	0.77	0.72	0.73	0.74
0.63	0.55	0.57	0.51	0.52	0.58	0.57	0.60	0.58
0.88	0.87	0.86	0.84	0.84	0.85	0.86	0.85	0.87
0.78	0.77	0.78	0.76	0.77	0.77	0.83	0.72	0.76
0.85	0.83	0.86	0.82	0.82	0.84	0.84	0.84	0.84
0.82	0.71	0.77	0.77	0.74	0.82	0.72	0.73	0.73
0.87	0.87	0.88	0.79	0.83	0.88	0.85	0.90	0.86
0.84	0.77	0.82	0.77	0.78	0.84	0.80	0.80	0.81
0.73	0.65	0.71	0.65	0.67	0.72	0.69	0.63	0.67
0.86	0.81	0.84	0.83	0.89	0.91	0.85	0.85	0.84
0.88	0.88	0.89	0.88	0.89	0.94	0.86	0.88	0.89
0.86	0.79	0.81	0.78	0.78	0.81	0.75	0.79	0.80
0.70	0.63	0.77	0.68	0.68	0.72	0.62	0.61	0.61
0.78	0.71	0.79	0.73	0.74	0.81	0.73	0.71	0.75
0.80	0.76	0.74	0.73	0.73	0.81	0.76	0.75	0.72
0.63	0.59	0.71	0.66	0.59	0.70	0.60	0.65	0.61
0.78	0.71	0.79	0.69	0.74	0.78	0.75	0.67	0.67
0.95	0.96	0.96	0.98	0.96	0.96	0.95	0.95	0.95
0.87	0.86	0.85	0.86	0.86	0.89	0.83	0.84	0.88
0.90	0.84	0.88	0.86	0.88	0.90	0.89	0.86	0.85
0.34	0.30	0.40	0.28	0.41	0.40	0.29	0.36	0.30
0.67	0.62	0.68	0.61	0.62	0.70	0.64	0.59	0.62
0.87	0.82	0.88	0.85	0.85	0.90	0.87	0.81	0.85
0.90	0.84	0.88	0.87	0.86	0.89	0.83	0.84	0.83
0.89	0.81	0.81	0.79	0.80	0.85	0.84	0.76	0.84
0.90	0.88	0.88	0.85	0.86	0.88	0.90	0.88	0.85
0.85	0.79	0.83	0.81	0.85	0.87	0.85	0.81	0.82
0.96	0.95	0.95	0.95	0.91	0.96	0.96	0.94	0.93
0.88	0.84	0.88	0.81	0.82	0.85	0.84	0.82	0.80
0.89	0.92	0.91	0.84	0.90	0.91	0.91	0.86	0.89
0.81	0.80	0.83	0.76	0.86	0.89	0.81	0.75	0.79
0.40	0.48	0.52	0.41	0.53	0.44	0.47	0.42	0.44
0.96	0.94	0.91	0.95	0.93	0.95	0.97	0.95	0.95
0.75	0.69	0.74	0.70	0.73	0.81	0.66	0.59	0.64
0.52	0.56	0.59	0.47	0.60	0.51	0.63	0.50	0.49
0.93	0.88	0.90	0.88	0.91	0.93	0.91	0.91	0.90
0.87	0.87	0.88	0.83	0.84	0.90	0.87	0.88	0.82

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0.75	0.38	0.65	0.51	0.61	0.60	0.57	0.57	0.51
0.81	0.75	0.81	0.71	0.76	0.77	0.74	0.80	0.80
0.94	0.95	0.97	0.97	0.96	0.98	0.98	0.94	0.94
0.97	0.94	0.95	0.96	0.98	0.98	0.93	0.96	0.96
0.92	0.90	0.90	0.93	0.95	0.92	0.89	0.90	0.91
0.92	0.82	0.85	0.75	0.83	0.88	0.92	0.76	0.89
0.68	0.67	0.73	0.78	0.53	0.73	0.55	0.64	0.63
0.77	0.65	0.74	0.67	0.71	0.86	0.70	0.64	0.66
0.20	0.25	0.30	0.22	0.21	0.26	0.24	0.39	0.24

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RXR	RJ7	RR1	RYR	RXN	RYJ	RX1	RWD	RL4
0.75	0.71	0.76	0.71	0.77	0.70	0.74	0.74	0.72
0.53	0.56	0.55	0.56	0.60	0.55	0.54	0.48	0.57
0.50	0.54	0.47	0.61	0.51	0.50	0.49	0.51	0.49
0.60	0.60	0.61	0.58	0.61	0.61	0.57	0.57	0.53
0.77	0.79	0.78	0.83	0.77	0.74	0.78	0.76	0.81
0.67	0.71	0.72	0.71	0.73	0.68	0.74	0.69	0.74
0.49	0.53	0.56	0.53	0.57	0.49	0.56	0.51	0.54
0.85	0.84	0.87	0.87	0.87	0.82	0.85	0.83	0.86
0.77	0.75	0.78	0.77	0.81	0.71	0.78	0.80	0.74
0.81	0.82	0.83	0.81	0.84	0.80	0.85	0.80	0.84
0.69	0.75	0.71	0.77	0.74	0.70	0.71	0.67	0.71
0.84	0.83	0.88	0.84	0.87	0.81	0.88	0.88	0.83
0.77	0.76	0.79	0.81	0.84	0.72	0.78	0.76	0.80
0.62	0.62	0.64	0.66	0.69	0.61	0.64	0.61	0.64
0.85	0.84	0.84	0.84	0.82	0.81	0.86	0.84	0.84
0.87	0.84	0.87	0.92	0.86	0.85	0.88	0.87	0.88
0.76	0.75	0.76	0.77	0.79	0.71	0.78	0.74	0.76
0.64	0.67	0.69	0.65	0.64	0.70	0.61	0.60	0.65
0.70	0.69	0.72	0.74	0.73	0.66	0.71	0.71	0.69
0.68	0.73	0.76	0.76	0.80	0.66	0.77	0.71	0.76
0.63	0.59	0.58	0.61	0.65	0.51	0.59	0.59	0.57
0.68	0.67	0.67	0.71	0.74	0.65	0.70	0.62	0.68
0.96	0.95	0.96	0.95	0.96	0.93	0.97	0.96	0.97
0.80	0.86	0.83	0.87	0.85	0.80	0.82	0.79	0.81
0.87	0.91	0.85	0.88	0.89	0.85	0.89	0.88	0.85
0.41	0.29	0.32	0.25	0.35	0.31	0.37	0.30	0.30
0.60	0.55	0.59	0.64	0.66	0.51	0.59	0.55	0.61
0.78	0.83	0.80	0.85	0.81	0.76	0.89	0.80	0.79
0.80	0.82	0.88	0.83	0.84	0.78	0.85	0.76	0.83
0.76	0.79	0.80	0.83	0.83	0.79	0.85	0.77	0.83
0.80	0.82	0.86	0.88	0.88	0.80	0.87	0.83	0.83
0.82	0.82	0.84	0.84	0.87	0.77	0.84	0.84	0.79
0.94	0.94	0.93	0.94	0.95	0.92	0.94	0.93	0.95
0.80	0.81	0.81	0.86	0.81	0.76	0.82	0.80	0.77
0.86	0.84	0.87	0.86	0.88	0.83	0.87	0.87	0.89
0.81	0.84	0.79	0.85	0.84	0.79	0.79	0.80	0.87
0.54	0.35	0.42	0.39	0.52	0.35	0.41	0.37	0.41
0.91	0.93	0.90	0.94	0.94	0.89	0.94	0.93	0.93
0.59	0.68	0.66	0.72	0.65	0.64	0.64	0.60	0.56
0.67	0.41	0.55	0.43	0.62	0.39	0.48	0.42	0.47
0.91	0.84	0.88	0.89	0.90	0.82	0.89	0.82	0.91
0.87	0.83	0.86	0.82	0.88	0.80	0.86	0.87	0.86

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0.53	0.51	0.56	0.53	0.56	0.56	0.51	0.50	0.59
0.85	0.73	0.89	0.77	0.86	0.68	0.80	0.77	0.85
0.94	0.93	0.96	0.96	0.94	0.90	0.95	0.94	0.96
0.95	0.95	0.95	0.95	0.96	0.93	0.96	0.92	0.94
0.93	0.89	0.89	0.90	0.92	0.94	0.93	0.86	0.89
0.80	0.81	0.82	0.83	0.87	0.85	0.90	0.78	0.82
0.67	0.55	0.62	0.77	0.69	0.59	0.73	0.65	0.59
0.69	0.55	0.66	0.69	0.73	0.60	0.63	0.67	0.58
0.20	0.31	0.19	0.29	0.16	0.50	0.35	0.30	0.22

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RN5	RDU	RBV	RA7	REF	RAL	RKB	RTR	RJZ
0.70	0.72	0.72	0.72	0.77	0.70	0.71	0.72	0.69
0.56	0.58	0.60	0.55	0.60	0.52	0.58	0.60	0.52
0.56	0.53	0.58	0.50	0.50	0.46	0.48	0.55	0.53
0.46	0.61	0.62	0.62	0.59	0.58	0.62	0.58	0.58
0.82	0.80	0.77	0.79	0.82	0.73	0.79	0.79	0.76
0.71	0.71	0.74	0.74	0.75	0.66	0.74	0.74	0.71
0.48	0.51	0.55	0.50	0.55	0.47	0.58	0.53	0.49
0.83	0.84	0.81	0.82	0.85	0.79	0.83	0.83	0.81
0.73	0.78	0.74	0.78	0.76	0.73	0.75	0.74	0.74
0.81	0.82	0.84	0.81	0.84	0.76	0.85	0.84	0.79
0.75	0.76	0.74	0.71	0.70	0.70	0.69	0.73	0.66
0.81	0.82	0.86	0.85	0.87	0.84	0.86	0.89	0.82
0.78	0.78	0.79	0.78	0.84	0.73	0.80	0.78	0.77
0.63	0.64	0.63	0.64	0.68	0.60	0.68	0.68	0.61
0.89	0.85	0.82	0.83	0.83	0.85	0.78	0.88	0.82
0.90	0.90	0.90	0.89	0.87	0.88	0.86	0.90	0.85
0.76	0.79	0.79	0.78	0.79	0.72	0.77	0.78	0.74
0.67	0.66	0.70	0.65	0.68	0.64	0.65	0.66	0.69
0.76	0.77	0.82	0.74	0.77	0.71	0.68	0.77	0.68
0.71	0.72	0.70	0.68	0.79	0.68	0.71	0.70	0.68
0.61	0.62	0.56	0.59	0.64	0.57	0.56	0.66	0.56
0.74	0.69	0.70	0.68	0.73	0.62	0.69	0.73	0.69
0.96	0.94	0.96	0.95	0.95	0.94	0.97	0.96	0.94
0.89	0.84	0.88	0.83	0.85	0.84	0.82	0.84	0.78
0.86	0.89	0.87	0.88	0.86	0.88	0.88	0.86	0.87
0.25	0.28	0.29	0.30	0.33	0.29	0.34	0.32	0.29
0.61	0.63	0.57	0.57	0.67	0.52	0.60	0.65	0.51
0.89	0.86	0.87	0.87	0.87	0.83	0.81	0.82	0.80
0.81	0.81	0.85	0.82	0.78	0.80	0.88	0.84	0.85
0.81	0.79	0.84	0.86	0.80	0.73	0.86	0.80	0.79
0.85	0.84	0.89	0.86	0.88	0.85	0.87	0.82	0.85
0.83	0.85	0.80	0.82	0.85	0.78	0.83	0.83	0.82
0.93	0.94	0.96	0.95	0.97	0.92	0.94	0.94	0.95
0.88	0.83	0.84	0.80	0.85	0.76	0.82	0.83	0.77
0.92	0.89	0.88	0.85	0.91	0.86	0.89	0.91	0.86
0.80	0.74	0.79	0.81	0.79	0.74	0.83	0.78	0.81
0.37	0.46	0.56	0.33	0.45	0.39	0.41	0.47	0.37
0.94	0.95	0.97	0.95	0.96	0.92	0.95	0.93	0.92
0.73	0.70	0.73	0.69	0.66	0.69	0.63	0.67	0.64
0.46	0.61	0.59	0.42	0.56	0.42	0.50	0.56	0.46
0.88	0.88	0.89	0.87	0.89	0.87	0.90	0.90	0.86
0.90	0.86	0.85	0.84	0.92	0.84	0.90	0.91	0.84

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0.51	0.50	0.57	0.59	0.60	0.50	0.59	0.50	0.48
0.69	0.69	0.70	0.75	0.79	0.68	0.74	0.78	0.76
0.94	0.96	0.94	0.95	0.96	0.93	0.94	0.97	0.93
0.95	0.95	0.96	0.95	0.97	0.96	0.96	0.96	0.93
0.91	0.90	0.88	0.94	0.92	0.89	0.92	0.90	0.89
0.79	0.83	0.85	0.88	0.82	0.80	0.86	0.83	0.83
0.73	0.63	0.64	0.65	0.79	0.55	0.55	0.75	0.60
0.66	0.66	0.61	0.67	0.68	0.65	0.68	0.72	0.56
0.23	0.16	0.36	0.35	0.33	0.31	0.33	0.25	0.33

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RHM	RTG	R1H	RK9	RXW	RR8	RWP	RWF	RJE
0.72	0.73	0.68	0.75	0.72	0.73	0.73	0.74	0.74
0.55	0.62	0.52	0.59	0.55	0.61	0.58	0.58	0.59
0.47	0.53	0.48	0.46	0.51	0.50	0.48	0.58	0.50
0.61	0.59	0.61	0.57	0.52	0.60	0.58	0.59	0.53
0.73	0.78	0.72	0.75	0.75	0.81	0.80	0.80	0.79
0.70	0.72	0.69	0.73	0.69	0.75	0.71	0.76	0.73
0.53	0.56	0.51	0.55	0.52	0.57	0.52	0.58	0.56
0.84	0.87	0.79	0.85	0.85	0.85	0.84	0.84	0.86
0.77	0.77	0.71	0.75	0.76	0.78	0.74	0.79	0.76
0.82	0.83	0.75	0.83	0.81	0.87	0.81	0.83	0.83
0.69	0.71	0.71	0.70	0.67	0.77	0.71	0.70	0.68
0.84	0.85	0.87	0.89	0.79	0.88	0.89	0.89	0.87
0.79	0.79	0.72	0.80	0.77	0.81	0.77	0.81	0.78
0.62	0.67	0.59	0.68	0.63	0.67	0.63	0.67	0.67
0.84	0.88	0.82	0.82	0.81	0.87	0.87	0.84	0.86
0.88	0.88	0.84	0.84	0.86	0.87	0.86	0.91	0.87
0.78	0.77	0.70	0.78	0.77	0.81	0.79	0.80	0.76
0.64	0.69	0.66	0.65	0.63	0.66	0.70	0.64	0.63
0.72	0.75	0.66	0.71	0.75	0.73	0.73	0.77	0.75
0.68	0.75	0.63	0.74	0.69	0.71	0.70	0.73	0.75
0.57	0.64	0.55	0.67	0.62	0.60	0.68	0.65	0.58
0.68	0.71	0.61	0.70	0.72	0.69	0.70	0.72	0.70
0.94	0.97	0.94	0.97	0.97	0.97	0.95	0.96	0.95
0.87	0.82	0.79	0.83	0.80	0.86	0.84	0.83	0.83
0.84	0.90	0.81	0.85	0.86	0.87	0.84	0.90	0.89
0.25	0.36	0.32	0.29	0.34	0.45	0.35	0.34	0.46
0.56	0.62	0.51	0.61	0.58	0.61	0.64	0.66	0.58
0.84	0.84	0.78	0.85	0.85	0.85	0.82	0.87	0.81
0.83	0.83	0.79	0.85	0.82	0.83	0.83	0.82	0.83
0.78	0.84	0.73	0.85	0.81	0.87	0.77	0.80	0.79
0.85	0.89	0.78	0.80	0.86	0.90	0.86	0.85	0.81
0.82	0.86	0.76	0.85	0.82	0.84	0.81	0.85	0.84
0.95	0.96	0.92	0.95	0.95	0.94	0.95	0.95	0.94
0.83	0.83	0.74	0.83	0.81	0.84	0.75	0.82	0.82
0.87	0.87	0.79	0.90	0.87	0.88	0.90	0.90	0.87
0.76	0.77	0.79	0.76	0.83	0.77	0.88	0.82	0.84
0.40	0.50	0.34	0.44	0.39	0.57	0.47	0.48	0.43
0.95	0.95	0.91	0.93	0.94	0.96	0.94	0.93	0.93
0.64	0.70	0.60	0.59	0.65	0.62	0.64	0.76	0.61
0.45	0.58	0.36	0.49	0.45	0.59	0.62	0.51	0.56
0.86	0.92	0.84	0.87	0.88	0.91	0.91	0.90	0.89
0.85	0.87	0.80	0.85	0.82	0.85	0.84	0.89	0.86

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0.41	0.56	0.48	0.56	0.57	0.61	0.49	0.61	0.58
0.70	0.78	0.72	0.87	0.81	0.69	0.82	0.71	0.80
0.92	0.97	0.95	0.94	0.96	0.96	0.95	0.96	0.95
0.95	0.96	0.94	0.96	0.94	0.97	0.98	0.95	0.95
0.90	0.91	0.91	0.91	0.91	0.94	0.84	0.87	0.92
0.81	0.84	0.75	0.89	0.86	0.90	0.79	0.86	0.83
0.69	0.77	0.55	0.64	0.69	0.73	0.74	0.62	0.66
0.60	0.72	0.49	0.67	0.69	0.70	0.70	0.70	0.68
0.41	0.25	0.35	0.27	0.23	0.45	0.32	0.25	0.21

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RGT	RWA	RJ1	RRV	RH8	RVV	RM1	RTD	RTE
0.74	0.73	0.73	0.67	0.76	0.74	0.78	0.76	0.75
0.58	0.56	0.59	0.57	0.65	0.53	0.58	0.60	0.59
0.54	0.53	0.50	0.50	0.57	0.47	0.50	0.55	0.47
0.61	0.61	0.60	0.59	0.61	0.56	0.68	0.61	0.59
0.82	0.76	0.77	0.73	0.84	0.77	0.77	0.81	0.82
0.73	0.73	0.73	0.68	0.75	0.71	0.70	0.75	0.72
0.53	0.55	0.59	0.50	0.58	0.49	0.51	0.61	0.53
0.82	0.85	0.83	0.81	0.86	0.83	0.84	0.87	0.85
0.72	0.75	0.75	0.70	0.78	0.79	0.77	0.78	0.78
0.84	0.83	0.83	0.78	0.86	0.80	0.83	0.85	0.82
0.75	0.76	0.70	0.72	0.79	0.69	0.71	0.78	0.74
0.82	0.89	0.87	0.82	0.85	0.86	0.88	0.87	0.86
0.79	0.78	0.75	0.75	0.82	0.77	0.81	0.83	0.82
0.67	0.67	0.67	0.61	0.71	0.57	0.66	0.70	0.67
0.86	0.87	0.84	0.84	0.87	0.82	0.87	0.86	0.86
0.90	0.89	0.88	0.85	0.91	0.85	0.88	0.89	0.90
0.81	0.77	0.77	0.75	0.82	0.75	0.77	0.83	0.77
0.72	0.68	0.66	0.69	0.69	0.61	0.65	0.70	0.67
0.74	0.73	0.75	0.70	0.82	0.74	0.70	0.79	0.75
0.71	0.65	0.69	0.64	0.76	0.68	0.72	0.72	0.68
0.60	0.58	0.56	0.55	0.72	0.61	0.66	0.64	0.65
0.73	0.72	0.67	0.65	0.76	0.66	0.70	0.72	0.69
0.95	0.95	0.97	0.94	0.98	0.94	0.96	0.95	0.97
0.85	0.85	0.84	0.82	0.88	0.85	0.85	0.90	0.87
0.90	0.85	0.90	0.83	0.91	0.84	0.87	0.88	0.88
0.30	0.35	0.35	0.32	0.29	0.31	0.31	0.33	0.23
0.62	0.61	0.53	0.51	0.69	0.58	0.65	0.65	0.62
0.84	0.84	0.81	0.80	0.88	0.82	0.82	0.86	0.89
0.82	0.83	0.85	0.83	0.85	0.80	0.82	0.87	0.85
0.80	0.82	0.81	0.81	0.89	0.76	0.81	0.82	0.82
0.87	0.87	0.89	0.84	0.85	0.87	0.85	0.86	0.84
0.83	0.82	0.81	0.74	0.87	0.81	0.83	0.84	0.83
0.95	0.92	0.94	0.95	0.97	0.93	0.94	0.96	0.95
0.84	0.81	0.78	0.79	0.85	0.81	0.84	0.84	0.84
0.91	0.90	0.85	0.86	0.92	0.86	0.89	0.88	0.89
0.80	0.85	0.79	0.78	0.86	0.72	0.77	0.76	0.83
0.42	0.42	0.39	0.35	0.53	0.38	0.48	0.53	0.48
0.95	0.95	0.95	0.93	0.96	0.93	0.94	0.94	0.93
0.70	0.60	0.73	0.68	0.79	0.65	0.56	0.71	0.66
0.52	0.48	0.46	0.44	0.63	0.51	0.56	0.61	0.58
0.91	0.88	0.89	0.88	0.92	0.84	0.92	0.90	0.90
0.85	0.87	0.82	0.83	0.90	0.78	0.85	0.89	0.85

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	0.55	0.59	0.55	0.59	0.66	0.51	0.63	0.49	0.57
	0.71	0.71	0.75	0.73	0.75	0.67	0.75	0.74	0.76
	0.97	0.95	0.94	0.94	0.97	0.96	0.95	0.97	0.93
	0.96	0.97	0.96	0.96	0.97	0.93	0.98	0.97	0.97
	0.94	0.88	0.92	0.94	0.91	0.85	0.94	0.89	0.84
	0.85	0.83	0.84	0.86	0.94	0.77	0.89	0.81	0.88
	0.62	0.71	0.60	0.66	0.79	0.63	0.67	0.79	0.77
	0.62	0.66	0.62	0.53	0.73	0.66	0.76	0.69	0.61
	0.51	0.26	0.47	0.54	0.27	0.22	0.22	0.27	0.23

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RWE	RTH	RHQ	RPY
0.68	0.73	0.74	0.71
0.56	0.62	0.59	0.58
0.47	0.53	0.53	0.59
0.57	0.57	0.61	0.63
0.78	0.80	0.77	0.82
0.68	0.74	0.76	0.70
0.50	0.58	0.57	0.53
0.81	0.83	0.82	0.80
0.73	0.79	0.76	0.73
0.81	0.83	0.85	0.79
0.67	0.74	0.72	0.78
0.86	0.85	0.90	0.90
0.76	0.79	0.78	0.80
0.61	0.66	0.67	0.64
0.83	0.89	0.83	0.85
0.85	0.90	0.87	0.92
0.75	0.79	0.78	0.77
0.62	0.66	0.69	0.73
0.72	0.75	0.77	0.80
0.70	0.74	0.69	0.69
0.57	0.68	0.61	0.55
0.66	0.70	0.69	0.72
0.95	0.95	0.97	0.97
0.80	0.87	0.85	0.87
0.83	0.88	0.88	0.90
0.29	0.34	0.34	0.26
0.59	0.63	0.61	0.55
0.81	0.85	0.83	0.89
0.79	0.82	0.87	0.87
0.76	0.83	0.83	0.79
0.84	0.89	0.87	0.88
0.81	0.82	0.84	0.78
0.94	0.94	0.94	0.97
0.77	0.83	0.82	0.85
0.87	0.89	0.89	0.86
0.78	0.75	0.80	0.80
0.44	0.44	0.46	0.39
0.94	0.95	0.96	0.97
0.62	0.73	0.67	0.79
0.51	0.54	0.56	0.48
0.88	0.88	0.89	0.91
0.87	0.85	0.87	0.83

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0.55	0.59	0.59	0.57
0.75	0.73	0.76	0.82
0.97	0.96	0.93	0.97
0.95	0.96	0.95	0.96
0.89	0.89	0.91	0.94
0.76	0.88	0.89	0.82
0.75	0.73	0.67	0.65
0.56	0.68	0.64	0.59
0.32	0.43	0.37	0.56

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Table 3. Main central grid: Reliability of hospital scores by question for each of the 146 hospitals inclu
between hospital variance starting with the question with the lowest variance (Q10 with between h
sizes, starting with the hospital with the lowest sample size (RQX with sample size equal to 31). These

Notes

- The **between hospital variance** is given in a log-odds scale. These variances are the direct output
- The **sample size** is the number of completed questionnaires received by the corresponding hospit
- Entries with NA come from hospitals which received less than 21 respondes for the corresponding

	Sample Size	31	32	53	71	71
Between Hospital Variance	Hospitals / Questions	RQX	RRJ	RT3	RMP	RPC
0.0151	Q10	0.09	0.09	0.11	0.14	0.17
0.0154	Q49	0.08	0.09	0.14	0.18	0.16
0.0159	Q35	NA	0.08	0.11	0.14	0.11
0.0162	Q45	NA	NA	NA	0.06	NA
0.0168	Q26	0.06	0.08	0.11	0.11	0.14
0.0178	Q13	0.10	0.11	0.15	0.18	0.19
0.0182	Q15	0.11	0.11	0.13	0.21	0.19
0.0198	Q9	0.09	0.09	0.11	0.08	0.14
0.0200	Q1	0.07	0.09	0.12	0.18	0.11
0.0207	Q12	0.11	0.06	0.13	0.11	0.15
0.0216	Q30	NA	0.11	0.16	0.14	0.10
0.0227	Q44	NA	NA	NA	0.06	NA
0.0234	Q7	0.11	0.11	0.13	0.19	0.20
0.0249	Q14	0.15	0.16	0.21	0.23	0.27
0.0273	Q34	0.05	0.03	0.11	0.09	0.13
0.0280	Q37	NA	0.05	0.11	0.11	0.11
0.0280	Q16	0.14	0.14	0.20	0.20	0.26
0.0293	Q48	NA	NA	NA	NA	NA
0.0296	Q31	0.11	0.14	0.18	0.19	0.21
0.0321	Q11	0.18	0.16	0.22	0.27	0.27
0.0328	Q53	0.11	0.15	0.22	0.27	0.22
0.0332	Q41	0.14	NA	0.16	0.22	0.24
0.0337	Q25	0.10	0.06	0.09	0.03	0.09
0.0349	Q29	NA	0.09	0.14	0.14	0.14
0.0350	Q6	0.09	0.11	0.11	0.21	0.12
0.0371	Q55	0.11	0.19	0.25	0.31	0.29
0.0374	Q54	0.20	0.23	0.30	0.35	0.36
0.0383	Q36	0.11	0.15	0.12	0.10	0.15
0.0387	Q47	NA	NA	NA	0.09	NA
0.0395	Q21	0.19	0.15	0.14	0.21	0.17
0.0414	Q38	NA	0.12	0.20	0.16	0.16
0.0439	Q2	0.13	0.24	0.21	0.24	0.29
0.0475	Q5	0.00	0.04	0.08	0.08	0.18
0.0483	Q28	NA	0.14	0.30	0.23	0.30

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	0.0497	**Q19**	NA	NA	0.09	0.16	0.23
	0.0532	**Q23**	NA	NA	NA	0.19	0.17
	0.0564	**Q51**	NA	NA	NA	0.28	NA
	0.0607	**Q39**	NA	0.20	0.10	0.10	0.18
	0.0615	**Q32**	NA	0.20	0.34	0.43	0.35
	0.0727	**Q50**	NA	0.29	0.28	0.48	0.34
	0.0740	**Q56**	0.24	0.21	0.12	0.29	0.32
	0.0778	**Q18**	NA	0.07	0.25	0.26	0.32
	0.0793	**Q22**	NA	NA	0.34	0.37	0.32
	0.0836	**Q8**	0.28	0.31	0.40	0.47	0.53
	0.0849	**Q52**	0.22	0.14	0.31	0.00	0.19
	0.0881	**Q42**	0.14	0.00	0.08	0.15	0.29
	0.0936	**Q17**	0.35	0.20	0.21	0.15	0.48
	0.1046	**Q20**	NA	0.26	0.31	0.36	0.45
	0.1084	**Q33**	0.35	0.38	0.54	0.57	0.54
	0.1341	**Q57**	0.49	0.51	0.44	0.70	0.57
	0.1930	**Q58**	0.54	0.47	0.62	0.72	0.60

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ıded in the analysis (CPES 2016). The questions are ordered according to their
ospital variance equal to 0.0151). The hospitals are ordered according to their sample
values correspond to the cells in Figure 3.

of each of the 51 fitted logisted regression models.
al.
; question.

73	74	76	102	108	111	112	115	122
REP	**RAN**	**RGM**	**RBQ**	**R1F**	**RKE**	**RE9**	**RJ6**	**RVY**
0.17	0.18	0.12	0.18	0.23	0.27	0.26	0.28	0.26
0.20	0.19	0.18	0.23	0.24	0.24	0.24	0.23	0.25
0.16	0.14	0.11	0.19	0.16	0.16	0.14	0.16	0.12
NA	NA	NA	NA	NA	NA	NA	NA	NA
0.13	0.15	0.11	0.17	0.16	0.14	0.15	0.14	0.13
0.20	0.21	0.15	0.22	0.28	0.29	0.27	0.25	0.29
0.23	0.21	0.20	0.27	0.29	0.30	0.30	0.31	0.31
0.18	0.19	0.05	0.23	0.20	0.20	0.16	0.20	0.28
0.16	0.21	0.13	0.24	0.21	0.24	0.22	0.24	0.23
0.10	0.13	0.07	0.18	0.26	0.23	0.23	0.19	0.24
0.15	0.21	0.11	0.22	0.20	0.14	0.19	0.23	0.17
NA	NA	NA	NA	NA	0.07	NA	0.04	NA
0.14	0.25	0.14	0.27	0.27	0.26	0.30	0.29	0.22
0.26	0.28	0.26	0.34	0.38	0.34	0.32	0.36	0.40
0.05	0.09	0.09	0.23	0.28	0.11	0.14	0.19	0.19
0.13	0.18	0.07	0.18	0.21	0.09	0.11	0.20	0.16
0.26	0.27	0.12	0.30	0.37	0.35	0.34	0.36	0.32
NA	NA	NA	0.13	0.16	0.24	0.23	0.17	0.20
0.24	0.28	0.23	0.24	0.29	0.22	0.25	0.31	0.24
0.32	0.31	0.25	0.39	0.40	0.39	0.37	0.39	0.36
0.28	0.31	0.28	0.37	0.36	0.36	0.40	0.37	0.40
0.21	0.26	0.25	0.32	0.34	0.34	0.34	0.34	0.34
0.03	0.15	0.00	0.00	0.09	0.03	0.13	0.14	0.09
0.12	0.20	0.09	0.28	0.22	0.21	0.24	0.26	0.16
0.18	0.34	0.16	0.23	0.30	0.22	0.14	0.26	0.24
0.31	0.27	0.36	0.40	0.44	0.42	0.43	0.41	0.40
0.39	0.40	0.34	0.47	0.49	0.45	0.45	0.47	0.51
0.17	0.24	0.07	0.25	0.21	0.12	0.22	0.24	0.21
NA	NA	NA	NA	0.14	0.21	0.10	0.15	0.26
0.13	0.23	0.13	0.36	0.35	0.29	0.24	0.23	0.32
0.11	0.26	0.10	0.19	0.26	0.16	0.28	0.26	0.28
0.33	0.44	0.14	0.36	0.40	0.36	0.33	0.40	0.41
0.08	0.18	0.12	0.21	0.28	0.26	0.12	0.32	0.18
0.23	0.36	0.25	0.47	0.39	0.27	0.31	0.40	0.23

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0.23	0.28	0.09	0.36	0.30	0.27	0.24	0.16	0.16
0.15	0.28	0.17	0.25	0.23	0.17	0.26	0.33	0.32
0.20	0.35	0.23	0.44	0.33	0.33	0.32	0.31	0.33
0.11	0.22	0.10	0.30	0.28	0.10	0.10	0.28	0.32
0.40	0.41	0.33	0.45	0.52	0.43	0.43	0.50	0.43
0.40	0.49	0.38	0.58	0.53	0.52	0.52	0.50	0.51
0.26	0.44	0.18	0.29	0.50	0.26	0.26	0.40	0.36
0.22	0.44	0.30	0.36	0.48	0.41	0.23	0.13	0.49
0.36	0.43	0.41	0.53	0.53	0.42	0.57	0.49	0.51
0.55	0.53	0.40	0.58	0.62	0.59	0.43	0.58	0.66
0.19	0.28	0.20	0.29	0.32	0.32	0.08	0.29	0.20
0.00	0.20	0.08	0.20	0.29	0.25	0.20	0.20	0.00
0.21	0.42	0.37	0.46	0.46	0.21	0.26	0.50	0.58
0.23	0.46	0.28	0.60	0.58	0.29	0.52	0.45	0.58
0.54	0.62	0.45	0.65	0.67	0.56	0.52	0.67	0.52
0.69	0.70	0.63	0.74	0.71	0.76	0.69	0.76	0.77
0.73	0.77	0.77	0.81	0.56	0.82	0.79	0.79	0.69

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133	136	138	141	147	151	152	158	170
RA4	**RJN**	**RAS**	**RFR**	**RAX**	**RWW**	**RM3**	**RQM**	**RVR**
0.25	0.27	0.29	0.23	0.33	0.32	0.31	0.33	0.37
0.27	0.26	0.30	0.30	0.30	0.30	0.30	0.30	0.31
0.16	0.14	0.19	0.19	0.20	0.20	0.24	0.20	0.18
NA	0.11	0.09	0.07	NA	0.09	0.10	0.11	NA
0.19	0.17	0.18	0.12	0.17	0.19	0.18	0.19	0.16
0.30	0.34	0.33	0.30	0.35	0.36	0.28	0.36	0.37
0.34	0.35	0.35	0.34	0.33	0.37	0.37	0.38	0.39
0.24	0.21	0.22	0.20	0.26	0.28	0.22	0.29	0.32
0.21	0.22	0.28	0.21	0.29	0.23	0.27	0.28	0.35
0.25	0.26	0.23	0.19	0.28	0.29	0.21	0.33	0.30
0.17	0.17	0.25	0.17	0.25	0.25	0.25	0.22	0.25
0.04	0.07	0.09	0.06	NA	0.11	0.07	0.07	NA
0.34	0.21	0.34	0.31	0.34	0.36	0.27	0.34	0.36
0.36	0.41	0.40	0.39	0.45	0.45	0.41	0.46	0.46
0.22	0.20	0.21	0.17	0.24	0.27	0.26	0.24	0.18
0.15	0.16	0.21	0.17	0.23	0.20	0.26	0.31	0.22
0.31	0.31	0.39	0.36	0.38	0.46	0.33	0.47	0.42
0.25	0.27	0.26	0.28	0.25	0.21	0.13	0.30	0.23
0.31	0.22	0.35	0.24	0.35	0.31	0.41	0.37	0.35
0.42	0.37	0.41	0.38	0.44	0.48	0.41	0.50	0.48
0.38	0.43	0.40	0.37	0.42	0.43	0.46	0.44	0.41
0.34	0.41	0.42	0.38	0.40	0.43	0.34	0.46	0.39
0.06	0.16	0.09	0.03	0.09	0.14	0.14	0.18	0.15
0.30	0.16	0.27	0.18	0.33	0.27	0.27	0.25	0.25
0.30	0.19	0.31	0.26	0.24	0.43	0.29	0.32	0.39
0.44	0.47	0.49	0.51	0.43	0.49	0.51	0.49	0.51
0.50	0.51	0.54	0.50	0.54	0.56	0.55	0.57	0.58
0.24	0.19	0.26	0.20	0.32	0.32	0.24	0.30	0.23
0.17	0.23	0.15	0.17	0.30	0.25	0.07	0.29	0.17
0.30	0.22	0.34	0.24	0.33	0.40	0.26	0.37	0.27
0.35	0.18	0.33	0.21	0.32	0.33	0.27	0.32	0.16
0.32	0.37	0.50	0.38	0.42	0.55	0.42	0.51	0.43
0.12	0.18	0.32	0.16	0.32	0.37	0.26	0.34	0.19
0.31	0.27	0.42	0.35	0.35	0.40	0.42	0.40	0.35

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0.19	0.22	0.33	0.22	0.24	0.33	0.27	0.36	0.33
0.30	0.35	0.37	0.22	0.35	0.38	0.31	0.37	0.24
0.27	0.32	0.35	0.41	0.32	0.34	0.46	0.38	0.33
0.25	0.06	0.33	0.06	0.22	0.31	0.26	0.33	0.19
0.53	0.38	0.54	0.49	0.56	0.54	0.61	0.52	0.52
0.43	0.56	0.53	0.59	0.50	0.61	0.61	0.57	0.53
0.46	0.46	0.45	0.45	0.55	0.57	0.41	0.50	0.47
0.43	0.31	0.34	0.42	0.43	0.47	0.57	0.49	0.46
0.54	0.49	0.56	0.60	0.47	0.59	0.62	0.57	0.50
0.59	0.64	0.70	0.62	0.71	0.70	0.66	0.73	0.69
0.25	0.20	0.25	0.39	0.44	0.39	0.25	0.42	0.25
0.15	0.25	0.20	0.30	0.25	0.37	0.15	0.43	0.21
0.55	0.38	0.60	0.16	0.52	0.62	0.44	0.65	0.51
0.52	0.52	0.62	0.54	0.61	0.65	0.61	0.59	0.49
0.64	0.59	0.64	0.65	0.72	0.67	0.68	0.70	0.67
0.70	0.78	0.80	0.78	0.76	0.78	0.78	0.82	0.83
0.82	0.82	0.82	0.84	0.76	0.72	0.86	0.83	0.86

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175	189	192	193	200	210	210	211	216
RJR	**RC1**	**RFF**	**RJ2**	**RA3**	**RBT**	**REN**	**RRF**	**RAP**
0.35	0.32	0.35	0.39	0.38	0.39	0.38	0.40	0.42
0.31	0.34	0.35	0.38	0.36	0.38	0.39	0.37	0.41
0.19	0.25	0.25	0.25	0.18	0.23	0.25	0.24	0.24
0.09	0.12	0.09	0.11	NA	0.07	0.35	0.08	0.24
0.19	0.27	0.20	0.24	0.20	0.24	0.12	0.25	0.25
0.36	0.36	0.36	0.40	0.42	0.41	0.43	0.40	0.46
0.40	0.41	0.40	0.45	0.45	0.45	0.46	0.44	0.46
0.29	0.33	0.24	0.33	0.38	0.32	0.36	0.35	0.42
0.29	0.33	0.32	0.36	0.38	0.31	0.36	0.29	0.36
0.30	0.32	0.30	0.36	0.38	0.34	0.29	0.37	0.42
0.24	0.30	0.25	0.25	0.27	0.30	0.27	0.28	0.31
0.09	0.12	0.04	0.09	0.06	0.08	0.29	0.04	0.19
0.27	0.37	0.36	0.41	0.42	0.42	0.39	0.41	0.47
0.46	0.49	0.48	0.52	0.52	0.51	0.53	0.53	0.55
0.18	0.31	0.24	0.30	0.24	0.23	0.23	0.26	0.34
0.14	0.29	0.17	0.31	0.20	0.25	0.17	0.26	0.35
0.37	0.45	0.42	0.47	0.52	0.44	0.48	0.49	0.57
0.25	0.27	0.29	0.41	0.39	0.26	0.37	0.31	0.49
0.33	0.41	0.29	0.39	0.32	0.37	0.36	0.32	0.44
0.44	0.51	0.50	0.50	0.53	0.54	0.53	0.52	0.57
0.47	0.51	0.47	0.52	0.49	0.46	0.53	0.49	0.56
0.44	0.50	0.41	0.50	0.51	0.49	0.54	0.51	0.57
0.03	0.16	0.00	0.11	0.16	0.03	0.06	0.12	0.11
0.24	0.38	0.24	0.37	0.29	0.37	0.34	0.29	0.45
0.33	0.41	0.28	0.39	0.42	0.35	0.39	0.30	0.44
0.55	0.54	0.56	0.52	0.52	0.55	0.59	0.61	0.60
0.60	0.61	0.59	0.63	0.63	0.60	0.62	0.63	0.65
0.30	0.42	0.27	0.30	0.27	0.33	0.37	0.35	0.41
0.15	0.19	0.24	0.37	0.33	0.25	0.35	0.28	0.53
0.24	0.45	0.36	0.46	0.40	0.45	0.42	0.40	0.53
0.27	0.45	0.25	0.36	0.31	0.33	0.36	0.40	0.42
0.48	0.55	0.50	0.55	0.56	0.48	0.51	0.47	0.60
0.19	0.24	0.29	0.38	0.39	0.31	0.27	0.41	0.36
0.33	0.52	0.34	0.49	0.42	0.44	0.43	0.42	0.54

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0.37	0.44	0.40	0.45	0.35	0.43	0.42	0.41	0.56
0.24	0.42	0.28	0.44	0.33	0.38	0.42	0.35	0.50
0.38	0.36	0.49	0.46	0.39	0.47	0.58	0.47	0.48
0.06	0.44	0.19	0.15	0.25	0.15	0.22	0.31	0.41
0.55	0.64	0.55	0.61	0.55	0.62	0.58	0.60	0.61
0.56	0.59	0.65	0.65	0.55	0.65	0.67	0.68	0.70
0.59	0.58	0.47	0.59	0.61	0.56	0.49	0.57	0.68
0.49	0.56	0.46	0.62	0.55	0.57	0.46	0.56	0.63
0.54	0.61	0.67	0.69	0.63	0.65	0.69	0.68	0.73
0.66	0.74	0.74	0.75	0.73	0.75	0.75	0.65	0.77
0.25	0.20	0.36	0.52	0.20	0.47	0.42	0.33	0.58
0.26	0.15	0.34	0.43	0.30	0.37	0.40	0.40	0.55
0.57	0.67	0.61	0.44	0.63	0.55	0.67	0.60	0.61
0.44	0.67	0.58	0.66	0.69	0.67	0.60	0.65	0.70
0.67	0.76	0.73	0.72	0.65	0.67	0.73	0.68	0.73
0.82	0.85	0.79	0.84	0.84	0.84	0.84	0.77	0.88
0.84	0.79	0.84	0.84	0.87	0.83	0.86	0.84	0.88

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219	221	241	245	250	251	252	252	259
RMC	**RLQ**	**RLT**	**RDZ**	**RBK**	**RQQ**	**RBN**	**RDD**	**RFS**
0.33	0.37	0.40	0.35	0.41	0.43	0.37	0.44	0.46
0.37	0.38	0.41	0.37	0.43	0.43	0.39	0.42	0.43
0.25	0.21	0.26	0.33	0.33	0.24	0.32	0.30	0.31
0.12	0.14	0.18	0.15	0.15	0.10	0.03	0.11	0.13
0.25	0.25	0.24	0.33	0.29	0.23	0.30	0.25	0.28
0.38	0.41	0.43	0.43	0.47	0.48	0.42	0.47	0.47
0.42	0.45	0.49	0.47	0.51	0.50	0.45	0.50	0.49
0.23	0.31	0.41	0.29	0.43	0.42	0.29	0.40	0.38
0.30	0.31	0.43	0.29	0.36	0.44	0.30	0.36	0.33
0.21	0.32	0.35	0.36	0.42	0.41	0.37	0.41	0.42
0.27	0.29	0.25	0.31	0.36	0.31	0.37	0.36	0.35
0.08	0.13	0.19	0.15	0.17	0.16	0.02	0.09	0.04
0.38	0.34	0.44	0.45	0.51	0.44	0.41	0.46	0.45
0.50	0.54	0.55	0.52	0.58	0.57	0.56	0.58	0.56
0.23	0.32	0.30	0.35	0.39	0.28	0.27	0.34	0.32
0.25	0.31	0.33	0.28	0.37	0.22	0.30	0.36	0.31
0.41	0.48	0.51	0.49	0.57	0.52	0.50	0.54	0.52
0.27	0.31	0.38	0.35	0.47	0.43	0.28	0.42	0.38
0.38	0.39	0.43	0.48	0.50	0.40	0.51	0.47	0.47
0.45	0.53	0.56	0.54	0.59	0.57	0.57	0.58	0.59
0.49	0.49	0.56	0.53	0.57	0.58	0.54	0.55	0.52
0.45	0.51	0.50	0.48	0.58	0.56	0.54	0.57	0.55
0.09	0.18	0.09	0.16	0.14	0.20	0.09	0.12	0.22
0.28	0.34	0.37	0.32	0.46	0.33	0.30	0.45	0.42
0.33	0.35	0.42	0.37	0.48	0.43	0.38	0.44	0.39
0.53	0.57	0.61	0.62	0.62	0.58	0.61	0.61	0.62
0.61	0.64	0.66	0.62	0.68	0.67	0.66	0.68	0.66
0.32	0.32	0.36	0.43	0.50	0.35	0.41	0.32	0.43
0.20	0.27	0.28	0.36	0.51	0.47	0.19	0.33	0.28
0.38	0.48	0.46	0.44	0.49	0.53	0.38	0.50	0.44
0.31	0.34	0.35	0.36	0.45	0.39	0.41	0.44	0.44
0.38	0.53	0.57	0.47	0.61	0.52	0.48	0.56	0.53
0.37	0.24	0.33	0.35	0.38	0.40	0.40	0.38	0.38
0.48	0.47	0.51	0.40	0.56	0.52	0.45	0.56	0.54

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0.30	0.35	0.34	0.30	0.53	0.45	0.32	0.47	0.44
0.38	0.45	0.33	0.37	0.51	0.45	0.41	0.46	0.49
0.47	0.44	0.47	0.50	0.46	0.51	0.52	0.54	0.55
0.31	0.35	0.36	0.26	0.34	0.26	0.29	0.46	0.31
0.62	0.52	0.64	0.67	0.68	0.61	0.66	0.67	0.68
0.66	0.67	0.65	0.69	0.68	0.71	0.70	0.70	0.73
0.41	0.57	0.46	0.51	0.69	0.62	0.60	0.49	0.55
0.42	0.58	0.49	0.53	0.66	0.49	0.52	0.63	0.51
0.66	0.66	0.71	0.66	0.74	0.72	0.69	0.70	0.69
0.65	0.77	0.79	0.65	0.79	0.79	0.79	0.79	0.79
0.33	0.42	0.29	0.29	0.52	0.42	0.36	0.49	0.39
0.21	0.34	0.30	0.21	0.57	0.40	0.26	0.43	0.40
0.56	0.66	0.61	0.58	0.68	0.68	0.67	0.66	0.76
0.59	0.69	0.68	0.63	0.75	0.73	0.57	0.76	0.69
0.74	0.69	0.74	0.79	0.78	0.76	0.81	0.79	0.77
0.82	0.85	0.85	0.85	0.88	0.86	0.83	0.84	0.88
0.84	0.89	0.90	0.87	0.90	0.89	0.82	0.84	0.88

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261	277	277	279	279	287	288	288	294
RTK	**RCF**	**RWG**	**REM**	**RJF**	**RQW**	**RCB**	**RF4**	**RK5**
0.46	0.45	0.44	0.46	0.45	0.44	0.44	0.44	0.50
0.44	0.45	0.44	0.46	0.46	0.46	0.46	0.45	0.47
0.27	0.31	0.32	0.36	0.34	0.32	0.39	0.35	0.38
0.08	0.14	0.12	0.22	0.14	0.14	0.14	0.32	0.12
0.29	0.28	0.34	0.34	0.30	0.28	0.35	0.34	0.39
0.49	0.49	0.48	0.50	0.50	0.51	0.48	0.50	0.52
0.51	0.51	0.50	0.54	0.53	0.52	0.52	0.54	0.53
0.41	0.44	0.43	0.42	0.39	0.43	0.35	0.40	0.48
0.36	0.42	0.35	0.36	0.44	0.41	0.41	0.36	0.41
0.43	0.41	0.43	0.38	0.43	0.43	0.37	0.44	0.49
0.37	0.38	0.42	0.39	0.43	0.40	0.42	0.38	0.41
0.06	0.09	0.10	0.23	0.08	0.19	0.12	0.33	0.15
0.47	0.51	0.48	0.47	0.51	0.47	0.46	0.51	0.57
0.59	0.60	0.59	0.60	0.60	0.61	0.55	0.60	0.62
0.28	0.29	0.39	0.34	0.33	0.38	0.45	0.38	0.38
0.30	0.39	0.35	0.38	0.34	0.35	0.40	0.39	0.35
0.60	0.57	0.56	0.57	0.58	0.55	0.54	0.61	0.62
0.36	0.50	0.29	0.36	0.49	0.44	0.44	0.47	0.40
0.46	0.52	0.51	0.52	0.49	0.51	0.57	0.55	0.50
0.60	0.56	0.60	0.63	0.62	0.62	0.58	0.60	0.64
0.56	0.53	0.58	0.58	0.61	0.58	0.58	0.58	0.61
0.55	0.58	0.53	0.60	0.56	0.61	0.57	0.61	0.61
0.12	0.18	0.12	0.26	0.09	0.14	0.16	0.16	0.28
0.43	0.42	0.42	0.40	0.47	0.46	0.44	0.45	0.47
0.43	0.43	0.50	0.38	0.49	0.43	0.34	0.55	0.54
0.62	0.64	0.62	0.62	0.61	0.64	0.66	0.65	0.63
0.68	0.70	0.70	0.68	0.70	0.72	0.71	0.71	0.71
0.39	0.48	0.48	0.50	0.43	0.45	0.52	0.48	0.50
0.39	0.51	0.31	0.33	0.43	0.45	0.39	0.45	0.37
0.52	0.50	0.51	0.57	0.53	0.53	0.48	0.57	0.58
0.43	0.43	0.46	0.49	0.49	0.46	0.48	0.49	0.55
0.60	0.52	0.62	0.59	0.61	0.61	0.59	0.65	0.54
0.27	0.31	0.43	0.43	0.39	0.40	0.39	0.49	0.43
0.48	0.46	0.59	0.51	0.52	0.63	0.56	0.60	0.58

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0.51	0.44	0.41	0.50	0.46	0.52	0.45	0.59	0.58
0.45	0.49	0.43	0.38	0.58	0.53	0.45	0.58	0.53
0.49	0.57	0.54	0.59	0.52	0.49	0.54	0.54	0.45
0.48	0.38	0.44	0.39	0.36	0.48	0.19	0.40	0.41
0.66	0.71	0.72	0.74	0.70	0.72	0.77	0.72	0.74
0.67	0.73	0.71	0.74	0.73	0.73	0.71	0.73	0.70
0.64	0.61	0.69	0.62	0.59	0.64	0.62	0.63	0.70
0.63	0.52	0.62	0.62	0.67	0.69	0.66	0.70	0.69
0.68	0.71	0.69	0.76	0.75	0.73	0.70	0.76	0.74
0.81	0.78	0.81	0.80	0.77	0.82	0.81	0.82	0.80
0.33	0.29	0.42	0.51	0.37	0.53	0.25	0.63	0.45
0.48	0.30	0.52	0.37	0.43	0.57	0.43	0.41	0.37
0.70	0.74	0.69	0.70	0.67	0.66	0.66	0.61	0.75
0.76	0.73	0.67	0.77	0.79	0.77	0.71	0.81	0.81
0.76	0.78	0.81	0.82	0.79	0.81	0.84	0.83	0.77
0.86	0.90	0.89	0.89	0.90	0.89	0.87	0.89	0.90
0.87	0.91	0.84	0.89	0.91	0.91	0.91	0.90	0.89

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298	299	308	309	313	313	320	324	327
RCD	**RBZ**	**RTP**	**RWJ**	**RC9**	**RGP**	**RD8**	**RBD**	**RNQ**
0.44	0.47	0.47	0.46	0.47	0.48	0.52	0.47	0.47
0.45	0.46	0.47	0.47	0.48	0.48	0.49	0.49	0.50
0.30	0.32	0.27	0.40	0.32	0.34	0.33	0.32	0.36
0.16	0.15	0.22	0.15	0.17	0.14	0.13	0.12	0.21
0.27	0.32	0.34	0.35	0.31	0.32	0.35	0.31	0.28
0.48	0.49	0.51	0.52	0.50	0.53	0.54	0.53	0.52
0.52	0.54	0.55	0.54	0.55	0.55	0.57	0.55	0.57
0.35	0.42	0.48	0.46	0.40	0.48	0.48	0.44	0.43
0.38	0.47	0.39	0.48	0.43	0.47	0.43	0.45	0.42
0.40	0.46	0.42	0.46	0.42	0.48	0.49	0.46	0.45
0.28	0.39	0.36	0.43	0.38	0.39	0.39	0.35	0.38
0.16	0.16	0.14	0.12	0.09	0.15	0.13	0.13	0.22
0.44	0.46	0.53	0.49	0.48	0.52	0.57	0.46	0.54
0.56	0.60	0.63	0.62	0.62	0.62	0.64	0.62	0.63
0.30	0.31	0.30	0.49	0.35	0.35	0.36	0.36	0.36
0.32	0.26	0.19	0.41	0.35	0.35	0.39	0.29	0.29
0.51	0.56	0.58	0.61	0.57	0.60	0.63	0.58	0.63
0.38	0.50	0.47	0.25	0.45	0.48	0.57	0.44	0.51
0.48	0.43	0.49	0.57	0.51	0.49	0.54	0.43	0.53
0.47	0.58	0.61	0.60	0.64	0.63	0.67	0.64	0.63
0.60	0.62	0.61	0.61	0.61	0.61	0.64	0.62	0.62
0.50	0.56	0.61	0.56	0.60	0.59	0.64	0.60	0.64
0.06	0.18	0.16	0.22	0.18	0.14	0.33	0.14	0.14
0.39	0.42	0.40	0.52	0.43	0.47	0.47	0.44	0.44
0.38	0.38	0.51	0.41	0.52	0.53	0.51	0.44	0.58
0.66	0.62	0.64	0.65	0.69	0.66	0.64	0.66	0.66
0.69	0.69	0.72	0.72	0.73	0.72	0.74	0.73	0.74
0.41	0.39	0.42	0.50	0.46	0.43	0.46	0.41	0.43
0.31	0.46	0.40	0.25	0.32	0.48	0.54	0.41	0.43
0.34	0.52	0.56	0.56	0.52	0.57	0.59	0.54	0.59
0.33	0.47	0.36	0.50	0.45	0.53	0.52	0.47	0.47
0.53	0.59	0.65	0.59	0.64	0.65	0.66	0.65	0.68
0.33	0.19	0.39	0.33	0.35	0.46	0.47	0.22	0.43
0.47	0.59	0.47	0.63	0.60	0.62	0.61	0.54	0.61

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0.46	0.49	0.61	0.52	0.60	0.47	0.56	0.48	0.61
0.33	0.45	0.44	0.47	0.49	0.49	0.64	0.57	0.54
0.53	0.55	0.49	0.60	0.63	0.55	0.52	0.58	0.53
0.26	0.32	0.31	0.46	0.40	0.36	0.45	0.19	0.47
0.66	0.70	0.66	0.76	0.71	0.73	0.73	0.69	0.73
0.71	0.70	0.73	0.75	0.75	0.74	0.70	0.75	0.73
0.34	0.51	0.73	0.67	0.64	0.60	0.73	0.69	0.77
0.56	0.45	0.73	0.70	0.70	0.52	0.72	0.62	0.76
0.59	0.71	0.72	0.71	0.74	0.77	0.76	0.76	0.76
0.80	0.80	0.73	0.84	0.81	0.83	0.83	0.82	0.83
0.37	0.37	0.40	0.53	0.49	0.54	0.51	0.59	0.60
0.15	0.37	0.48	0.48	0.60	0.52	0.50	0.43	0.69
0.47	0.67	0.68	0.66	0.45	0.74	0.79	0.70	0.74
0.63	0.75	0.65	0.78	0.75	0.75	0.81	0.70	0.84
0.72	0.70	0.80	0.85	0.82	0.81	0.82	0.78	0.79
0.84	0.89	0.90	0.88	0.90	0.88	0.90	0.88	0.91
0.91	0.91	0.91	0.88	0.91	0.85	0.92	0.91	0.89

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344	350	350	352	374	384	387	395	396
RP5	**RVJ**	**RW3**	**RJC**	**RAE**	**RBL**	**RGR**	**RQ6**	**R1K**
0.50	0.46	0.53	0.47	0.54	0.52	0.53	0.55	0.54
0.51	0.52	0.52	0.50	0.53	0.51	0.52	0.54	0.53
0.37	0.41	0.41	0.33	0.44	0.40	0.37	0.41	0.40
0.15	0.25	0.13	0.19	0.17	0.24	0.20	0.26	0.19
0.33	0.47	0.35	0.26	0.44	0.36	0.32	0.31	0.40
0.56	0.55	0.53	0.52	0.58	0.55	0.56	0.55	0.59
0.57	0.58	0.56	0.59	0.60	0.58	0.60	0.61	0.61
0.46	0.44	0.45	0.46	0.52	0.49	0.51	0.47	0.47
0.47	0.47	0.52	0.43	0.47	0.48	0.45	0.52	0.53
0.49	0.47	0.45	0.45	0.49	0.50	0.45	0.48	0.54
0.43	0.45	0.43	0.32	0.52	0.43	0.42	0.43	0.45
0.16	0.24	0.11	0.17	0.11	0.22	0.16	0.24	0.16
0.55	0.54	0.50	0.49	0.59	0.52	0.54	0.47	0.58
0.65	0.66	0.64	0.65	0.68	0.66	0.67	0.66	0.67
0.41	0.28	0.42	0.35	0.56	0.44	0.41	0.41	0.43
0.43	0.42	0.47	0.25	0.52	0.38	0.33	0.39	0.39
0.64	0.57	0.59	0.60	0.67	0.64	0.62	0.63	0.68
0.43	0.32	0.40	0.53	0.50	0.42	0.53	0.35	0.54
0.54	0.57	0.60	0.48	0.63	0.56	0.52	0.54	0.54
0.66	0.65	0.65	0.64	0.70	0.68	0.67	0.69	0.68
0.63	0.65	0.64	0.59	0.65	0.65	0.65	0.65	0.67
0.62	0.62	0.62	0.63	0.68	0.66	0.66	0.65	0.67
0.16	0.28	0.12	0.18	0.31	0.16	0.28	0.16	0.29
0.54	0.51	0.54	0.43	0.62	0.47	0.41	0.38	0.50
0.53	0.59	0.49	0.48	0.52	0.59	0.58	0.54	0.59
0.67	0.71	0.69	0.70	0.70	0.70	0.71	0.73	0.71
0.75	0.74	0.75	0.73	0.77	0.75	0.74	0.76	0.77
0.50	0.54	0.52	0.26	0.61	0.54	0.40	0.42	0.50
0.48	0.32	0.34	0.46	0.48	0.43	0.51	0.32	0.54
0.57	0.51	0.57	0.49	0.64	0.54	0.58	0.55	0.60
0.53	0.43	0.59	0.50	0.60	0.53	0.44	0.44	0.58
0.68	0.68	0.67	0.66	0.67	0.67	0.67	0.70	0.73
0.48	0.52	0.42	0.27	0.53	0.46	0.46	0.42	0.57
0.59	0.57	0.67	0.53	0.71	0.59	0.55	0.59	0.67

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0.62	0.53	0.56	0.41	0.63	0.53	0.54	0.57	0.63
0.57	0.61	0.55	0.52	0.59	0.59	0.58	0.56	0.62
0.61	0.60	0.62	0.53	0.64	0.60	0.57	0.65	0.67
0.49	0.51	0.51	0.44	0.50	0.48	0.43	0.37	0.46
0.76	0.76	0.77	0.70	0.80	0.75	0.73	0.73	0.74
0.79	0.73	0.78	0.71	0.79	0.76	0.74	0.78	0.79
0.77	0.76	0.71	0.60	0.76	0.71	0.66	0.57	0.76
0.75	0.74	0.71	0.45	0.71	0.67	0.72	0.72	0.74
0.78	0.74	0.78	0.74	0.81	0.77	0.76	0.81	0.81
0.83	0.85	0.83	0.85	0.82	0.79	0.86	0.86	0.85
0.63	0.51	0.59	0.47	0.58	0.53	0.47	0.33	0.55
0.58	0.57	0.48	0.46	0.60	0.59	0.34	0.46	0.50
0.75	0.64	0.68	0.77	0.82	0.75	0.80	0.74	0.77
0.75	0.73	0.79	0.70	0.82	0.78	0.80	0.78	0.83
0.80	0.84	0.84	0.78	0.86	0.84	0.84	0.83	0.85
0.90	0.89	0.91	0.83	0.92	0.90	0.92	0.91	0.92
0.90	0.93	0.93	0.92	0.93	0.92	0.93	0.94	0.93

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397	404	409	412	415	423	430	430	437
RN7	**RHW**	**RNL**	**RCX**	**RPA**	**RWH**	**RM2**	**RR7**	**RNS**
0.52	0.53	0.56	0.52	0.55	0.56	0.51	0.55	0.58
0.53	0.54	0.55	0.54	0.57	0.56	0.56	0.56	0.56
0.38	0.42	0.39	0.42	0.42	0.46	0.49	0.41	0.45
0.18	0.43	0.28	0.17	0.22	0.34	0.22	0.28	0.30
0.33	0.38	0.38	0.33	0.41	0.41	0.40	0.36	0.41
0.52	0.54	0.59	0.57	0.57	0.60	0.56	0.53	0.57
0.60	0.62	0.62	0.60	0.63	0.63	0.61	0.62	0.64
0.48	0.54	0.50	0.43	0.52	0.56	0.49	0.45	0.54
0.49	0.45	0.48	0.52	0.52	0.55	0.43	0.43	0.54
0.45	0.52	0.58	0.50	0.51	0.55	0.45	0.44	0.53
0.42	0.50	0.45	0.40	0.50	0.51	0.52	0.42	0.53
0.11	0.40	0.31	0.18	0.22	0.36	0.20	0.18	0.30
0.54	0.61	0.60	0.58	0.60	0.62	0.54	0.54	0.62
0.63	0.69	0.70	0.67	0.70	0.70	0.68	0.63	0.69
0.47	0.43	0.46	0.48	0.51	0.52	0.54	0.37	0.51
0.35	0.35	0.38	0.45	0.55	0.45	0.49	0.32	0.47
0.56	0.66	0.68	0.63	0.67	0.68	0.64	0.60	0.66
0.50	0.51	0.58	0.53	0.55	0.55	0.43	0.50	0.62
0.55	0.59	0.49	0.57	0.62	0.62	0.67	0.50	0.62
0.64	0.68	0.71	0.66	0.68	0.72	0.70	0.68	0.69
0.67	0.68	0.69	0.62	0.68	0.70	0.70	0.71	0.70
0.63	0.69	0.71	0.65	0.69	0.70	0.64	0.63	0.69
0.18	0.21	0.27	0.28	0.16	0.24	0.21	0.12	0.33
0.47	0.58	0.56	0.53	0.59	0.54	0.52	0.44	0.58
0.56	0.60	0.59	0.56	0.62	0.65	0.54	0.46	0.64
0.72	0.69	0.73	0.72	0.71	0.71	0.72	0.74	0.72
0.76	0.78	0.78	0.76	0.78	0.79	0.78	0.76	0.79
0.47	0.46	0.42	0.52	0.55	0.60	0.58	0.48	0.55
0.41	0.45	0.60	0.50	0.54	0.54	0.36	0.44	0.57
0.51	0.61	0.65	0.59	0.63	0.63	0.63	0.58	0.65
0.46	0.48	0.55	0.52	0.58	0.65	0.61	0.45	0.64
0.72	0.72	0.68	0.69	0.72	0.74	0.64	0.58	0.73
0.40	0.62	0.48	0.47	0.58	0.58	0.47	0.29	0.57
0.58	0.62	0.54	0.62	0.69	0.69	0.68	0.60	0.70

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0.56	0.62	0.62	0.55	0.63	0.62	0.61	0.53	0.63
0.47	0.62	0.61	0.55	0.53	0.61	0.66	0.60	0.59
0.61	0.64	0.60	0.59	0.60	0.64	0.69	0.64	0.67
0.34	0.39	0.46	0.47	0.54	0.60	0.54	0.29	0.46
0.74	0.76	0.76	0.76	0.80	0.79	0.83	0.72	0.79
0.78	0.79	0.77	0.79	0.79	0.78	0.81	0.78	0.82
0.69	0.79	0.83	0.76	0.73	0.79	0.76	0.67	0.78
0.70	0.77	0.76	0.67	0.74	0.77	0.71	0.67	0.77
0.78	0.77	0.80	0.80	0.80	0.81	0.82	0.80	0.80
0.84	0.85	0.85	0.85	0.87	0.87	0.86	0.82	0.85
0.56	0.64	0.51	0.62	0.57	0.53	0.65	0.45	0.64
0.68	0.57	0.73	0.52	0.56	0.65	0.51	0.54	0.70
0.74	0.62	0.82	0.81	0.77	0.81	0.74	0.66	0.72
0.77	0.82	0.85	0.80	0.83	0.78	0.79	0.81	0.83
0.84	0.87	0.80	0.83	0.88	0.88	0.89	0.85	0.86
0.90	0.92	0.92	0.91	0.92	0.93	0.92	0.91	0.93
0.93	0.91	0.91	0.93	0.93	0.93	0.95	0.92	0.93

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438	439	443	448	451	467	470	484	496
RN3	**RGN**	**RVW**	**RNZ**	**RDE**	**RLN**	**RWY**	**RGQ**	**RXP**
0.55	0.54	0.54	0.55	0.55	0.58	0.58	0.61	0.59
0.58	0.55	0.57	0.55	0.57	0.59	0.57	0.58	0.60
0.44	0.44	0.45	0.40	0.44	0.42	0.41	0.43	0.46
0.22	0.26	0.24	0.20	0.28	0.22	0.23	0.32	0.21
0.40	0.38	0.36	0.38	0.36	0.36	0.43	0.37	0.41
0.58	0.57	0.55	0.60	0.57	0.59	0.60	0.63	0.63
0.64	0.61	0.62	0.63	0.64	0.64	0.66	0.65	0.66
0.51	0.50	0.47	0.55	0.51	0.54	0.55	0.57	0.59
0.49	0.51	0.50	0.51	0.53	0.58	0.53	0.55	0.56
0.53	0.51	0.47	0.49	0.54	0.55	0.54	0.53	0.58
0.51	0.49	0.45	0.42	0.48	0.46	0.48	0.47	0.50
0.22	0.21	0.18	0.16	0.21	0.19	0.16	0.22	0.25
0.59	0.58	0.55	0.54	0.59	0.61	0.62	0.58	0.60
0.70	0.68	0.66	0.70	0.68	0.68	0.72	0.71	0.73
0.47	0.36	0.45	0.44	0.41	0.49	0.50	0.43	0.49
0.46	0.41	0.46	0.40	0.42	0.41	0.43	0.41	0.48
0.64	0.64	0.59	0.65	0.66	0.68	0.69	0.68	0.71
0.63	0.53	0.58	0.51	0.57	0.53	0.60	0.60	0.61
0.64	0.57	0.60	0.56	0.61	0.57	0.60	0.61	0.63
0.67	0.68	0.69	0.70	0.67	0.73	0.71	0.74	0.74
0.69	0.67	0.68	0.67	0.70	0.72	0.69	0.69	0.72
0.70	0.70	0.65	0.63	0.67	0.68	0.69	0.68	0.71
0.21	0.21	0.21	0.19	0.23	0.29	0.24	0.19	0.28
0.57	0.56	0.56	0.46	0.58	0.49	0.58	0.53	0.64
0.62	0.58	0.53	0.48	0.60	0.54	0.58	0.61	0.60
0.71	0.75	0.74	0.75	0.73	0.76	0.76	0.76	0.76
0.79	0.78	0.76	0.78	0.79	0.78	0.80	0.80	0.81
0.61	0.55	0.56	0.56	0.56	0.57	0.49	0.52	0.54
0.59	0.51	0.48	0.47	0.52	0.53	0.58	0.60	0.58
0.66	0.59	0.56	0.63	0.63	0.66	0.67	0.57	0.66
0.58	0.49	0.58	0.47	0.48	0.54	0.54	0.54	0.58
0.75	0.70	0.66	0.69	0.75	0.72	0.73	0.73	0.74
0.50	0.42	0.47	0.41	0.49	0.54	0.49	0.42	0.51
0.66	0.68	0.62	0.57	0.64	0.67	0.60	0.57	0.71

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0.57	0.51	0.55	0.54	0.56	0.62	0.68	0.60	0.67
0.68	0.37	0.62	0.53	0.61	0.64	0.62	0.58	0.64
0.60	0.60	0.64	0.62	0.65	0.69	0.66	0.63	0.71
0.43	0.37	0.52	0.29	0.43	0.52	0.37	0.43	0.51
0.82	0.78	0.79	0.76	0.78	0.77	0.79	0.79	0.81
0.81	0.76	0.79	0.79	0.80	0.84	0.81	0.80	0.83
0.77	0.71	0.67	0.70	0.75	0.72	0.69	0.76	0.77
0.78	0.73	0.59	0.73	0.76	0.74	0.77	0.81	0.74
0.81	0.77	0.82	0.78	0.80	0.85	0.82	0.79	0.84
0.86	0.86	0.80	0.87	0.86	0.86	0.87	0.88	0.89
0.45	0.40	0.53	0.58	0.50	0.52	0.57	0.48	0.52
0.54	0.57	0.46	0.46	0.63	0.49	0.56	0.51	0.58
0.78	0.75	0.76	0.81	0.70	0.77	0.84	0.75	0.77
0.79	0.78	0.81	0.83	0.79	0.85	0.86	0.80	0.86
0.86	0.85	0.87	0.84	0.87	0.85	0.87	0.85	0.85
0.93	0.93	0.90	0.91	0.92	0.91	0.92	0.93	0.92
0.95	0.93	0.93	0.93	0.95	0.94	0.95	0.94	0.94

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506	506	507	516	517	523	529	540	542
RXH	**RXK**	**RD1**	**RJL**	**RXF**	**RQ8**	**RXQ**	**RTF**	**RD3**
0.58	0.59	0.61	0.61	0.60	0.61	0.58	0.60	0.63
0.58	0.61	0.60	0.61	0.62	0.60	0.61	0.61	0.61
0.47	0.46	0.44	0.49	0.48	0.48	0.45	0.43	0.48
0.27	0.29	0.31	0.24	0.24	0.20	0.16	0.28	0.37
0.46	0.47	0.43	0.39	0.44	0.41	0.45	0.37	0.42
0.63	0.62	0.61	0.64	0.60	0.62	0.64	0.58	0.66
0.66	0.67	0.67	0.67	0.68	0.67	0.67	0.68	0.69
0.55	0.47	0.57	0.61	0.60	0.59	0.56	0.53	0.57
0.53	0.55	0.56	0.59	0.57	0.54	0.59	0.55	0.58
0.57	0.53	0.55	0.59	0.56	0.55	0.57	0.52	0.58
0.51	0.54	0.50	0.53	0.53	0.53	0.52	0.45	0.53
0.16	0.20	0.24	0.16	0.18	0.15	0.16	0.18	0.34
0.61	0.62	0.59	0.65	0.60	0.63	0.61	0.58	0.66
0.73	0.73	0.73	0.72	0.71	0.72	0.74	0.69	0.73
0.51	0.50	0.46	0.49	0.47	0.51	0.53	0.45	0.48
0.48	0.53	0.44	0.45	0.51	0.41	0.43	0.43	0.45
0.70	0.70	0.67	0.71	0.71	0.70	0.71	0.69	0.71
0.47	0.60	0.55	0.64	0.62	0.58	0.62	0.61	0.64
0.63	0.65	0.63	0.59	0.66	0.64	0.59	0.57	0.64
0.73	0.71	0.72	0.75	0.74	0.73	0.74	0.73	0.76
0.69	0.72	0.72	0.72	0.74	0.73	0.72	0.74	0.73
0.71	0.71	0.70	0.74	0.70	0.72	0.73	0.69	0.72
0.23	0.25	0.28	0.28	0.34	0.19	0.34	0.32	0.26
0.57	0.62	0.57	0.56	0.61	0.58	0.59	0.51	0.56
0.68	0.62	0.56	0.67	0.61	0.64	0.64	0.55	0.58
0.77	0.77	0.76	0.77	0.77	0.77	0.76	0.78	0.78
0.80	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81
0.55	0.65	0.58	0.53	0.60	0.49	0.56	0.55	0.56
0.41	0.54	0.56	0.61	0.58	0.53	0.57	0.57	0.62
0.67	0.64	0.65	0.67	0.68	0.64	0.65	0.67	0.68
0.59	0.62	0.60	0.65	0.65	0.57	0.60	0.58	0.59
0.77	0.74	0.70	0.75	0.72	0.74	0.72	0.73	0.76
0.55	0.52	0.47	0.53	0.49	0.57	0.51	0.37	0.44
0.70	0.72	0.66	0.70	0.68	0.70	0.65	0.56	0.62

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0.61	0.67	0.57	0.66	0.63	0.64	0.68	0.61	0.60
0.62	0.61	0.60	0.68	0.64	0.67	0.66	0.65	0.69
0.65	0.67	0.64	0.64	0.71	0.65	0.64	0.70	0.72
0.52	0.53	0.55	0.48	0.49	0.53	0.51	0.58	0.48
0.78	0.80	0.81	0.81	0.83	0.79	0.78	0.78	0.81
0.79	0.82	0.80	0.82	0.84	0.80	0.79	0.85	0.85
0.80	0.76	0.70	0.83	0.75	0.79	0.76	0.76	0.75
0.80	0.75	0.72	0.73	0.71	0.80	0.83	0.73	0.75
0.83	0.85	0.82	0.86	0.85	0.83	0.81	0.85	0.84
0.81	0.82	0.88	0.90	0.87	0.89	0.88	0.89	0.89
0.59	0.64	0.55	0.65	0.64	0.55	0.63	0.48	0.63
0.61	0.72	0.53	0.66	0.51	0.54	0.62	0.53	0.58
0.86	0.76	0.80	0.83	0.86	0.79	0.81	0.79	0.72
0.82	0.86	0.82	0.87	0.86	0.85	0.82	0.86	0.85
0.87	0.87	0.86	0.88	0.88	0.88	0.88	0.86	0.88
0.94	0.94	0.94	0.94	0.93	0.94	0.93	0.91	0.92
0.95	0.95	0.95	0.94	0.95	0.94	0.95	0.94	0.94

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548	552	572	594	602	613	623	631	644
RW6	**RNA**	**RA9**	**RA2**	**RTX**	**RXC**	**RXL**	**RBA**	**RAJ**
0.64	0.61	0.58	0.63	0.63	0.64	0.63	0.63	0.64
0.63	0.62	0.60	0.62	0.62	0.63	0.66	0.63	0.64
0.47	0.49	0.46	0.55	0.46	0.49	0.53	0.50	0.53
0.29	0.21	0.39	0.32	0.22	0.21	0.25	0.33	0.41
0.44	0.45	0.46	0.52	0.39	0.43	0.45	0.46	0.46
0.66	0.63	0.63	0.67	0.65	0.68	0.67	0.65	0.69
0.68	0.68	0.68	0.71	0.70	0.70	0.72	0.71	0.72
0.57	0.57	0.54	0.57	0.59	0.62	0.62	0.60	0.60
0.62	0.60	0.58	0.62	0.60	0.63	0.62	0.62	0.56
0.59	0.57	0.56	0.61	0.56	0.61	0.62	0.60	0.61
0.51	0.53	0.46	0.62	0.49	0.52	0.57	0.49	0.59
0.21	0.13	0.35	0.30	0.17	0.22	0.25	0.29	0.40
0.65	0.64	0.62	0.67	0.65	0.68	0.67	0.63	0.67
0.75	0.74	0.72	0.76	0.74	0.77	0.76	0.75	0.76
0.53	0.54	0.51	0.66	0.53	0.56	0.50	0.46	0.59
0.51	0.48	0.48	0.57	0.47	0.50	0.51	0.38	0.58
0.74	0.72	0.65	0.73	0.71	0.74	0.74	0.72	0.76
0.52	0.65	0.56	0.56	0.60	0.65	0.66	0.64	0.69
0.65	0.64	0.62	0.73	0.61	0.66	0.68	0.62	0.70
0.75	0.75	0.72	0.75	0.75	0.77	0.77	0.73	0.76
0.75	0.74	0.73	0.76	0.73	0.75	0.76	0.74	0.76
0.75	0.75	0.71	0.73	0.72	0.76	0.75	0.72	0.75
0.29	0.19	0.34	0.35	0.28	0.17	0.28	0.31	0.31
0.61	0.61	0.57	0.66	0.58	0.58	0.61	0.56	0.66
0.62	0.69	0.62	0.70	0.67	0.68	0.66	0.63	0.64
0.77	0.78	0.78	0.78	0.80	0.78	0.81	0.81	0.78
0.83	0.82	0.82	0.83	0.82	0.84	0.84	0.83	0.84
0.62	0.56	0.55	0.69	0.51	0.58	0.62	0.52	0.59
0.49	0.58	0.45	0.54	0.57	0.60	0.61	0.55	0.66
0.70	0.66	0.59	0.68	0.68	0.70	0.72	0.66	0.70
0.68	0.56	0.53	0.65	0.55	0.62	0.63	0.59	0.58
0.74	0.75	0.75	0.81	0.79	0.80	0.78	0.75	0.78
0.63	0.56	0.48	0.52	0.54	0.54	0.65	0.48	0.49
0.70	0.69	0.62	0.75	0.62	0.71	0.73	0.69	0.72

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0.71	0.63	0.67	0.63	0.63	0.76	0.69	0.65	0.66
0.69	0.70	0.65	0.69	0.64	0.70	0.63	0.60	0.71
0.74	0.66	0.65	0.68	0.67	0.67	0.72	0.66	0.72
0.60	0.52	0.43	0.60	0.59	0.49	0.59	0.50	0.43
0.81	0.83	0.79	0.86	0.79	0.81	0.82	0.77	0.85
0.86	0.81	0.80	0.83	0.84	0.83	0.86	0.82	0.85
0.83	0.81	0.74	0.82	0.79	0.83	0.79	0.74	0.79
0.81	0.80	0.79	0.81	0.79	0.84	0.84	0.76	0.81
0.85	0.86	0.81	0.81	0.85	0.85	0.86	0.84	0.86
0.89	0.86	0.87	0.90	0.88	0.90	0.90	0.90	0.90
0.66	0.67	0.66	0.67	0.52	0.52	0.59	0.43	0.52
0.68	0.74	0.53	0.70	0.70	0.62	0.53	0.46	0.75
0.84	0.86	0.79	0.83	0.82	0.77	0.74	0.81	0.85
0.87	0.84	0.78	0.86	0.85	0.89	0.87	0.83	0.80
0.87	0.90	0.88	0.92	0.87	0.86	0.91	0.89	0.91
0.94	0.95	0.93	0.95	0.94	0.95	0.94	0.91	0.95
0.94	0.95	0.94	0.95	0.96	0.95	0.95	0.96	0.95

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659	666	673	678	698	707	723	728	738
RRK	**RHU**	**RXR**	**RJ7**	**RR1**	**RYR**	**RXN**	**RYJ**	**RX1**
0.67	0.66	0.65	0.67	0.65	0.69	0.65	0.70	0.68
0.66	0.66	0.68	0.66	0.68	0.67	0.68	0.68	0.69
0.60	0.55	0.53	0.57	0.58	0.50	0.55	0.61	0.62
0.31	0.49	0.28	0.31	0.29	0.26	0.54	0.43	0.49
0.53	0.49	0.47	0.51	0.56	0.45	0.55	0.58	0.57
0.68	0.68	0.72	0.70	0.70	0.71	0.70	0.73	0.70
0.72	0.72	0.73	0.73	0.73	0.74	0.75	0.75	0.75
0.62	0.60	0.63	0.63	0.61	0.61	0.62	0.67	0.64
0.65	0.64	0.63	0.63	0.64	0.64	0.63	0.68	0.65
0.62	0.61	0.65	0.65	0.64	0.65	0.64	0.68	0.63
0.64	0.62	0.58	0.59	0.64	0.54	0.59	0.65	0.67
0.23	0.42	0.28	0.30	0.23	0.26	0.49	0.45	0.41
0.68	0.68	0.71	0.71	0.72	0.68	0.67	0.74	0.73
0.78	0.77	0.79	0.79	0.79	0.79	0.78	0.80	0.80
0.64	0.62	0.54	0.62	0.64	0.57	0.63	0.68	0.65
0.60	0.55	0.52	0.62	0.61	0.43	0.58	0.64	0.62
0.74	0.74	0.76	0.77	0.77	0.77	0.76	0.80	0.78
0.60	0.70	0.68	0.68	0.68	0.71	0.62	0.70	0.70
0.75	0.71	0.69	0.73	0.74	0.67	0.70	0.77	0.77
0.77	0.79	0.80	0.79	0.78	0.79	0.77	0.82	0.79
0.77	0.77	0.79	0.78	0.79	0.78	0.78	0.81	0.80
0.77	0.78	0.79	0.78	0.79	0.78	0.77	0.81	0.79
0.39	0.40	0.26	0.39	0.34	0.36	0.34	0.49	0.30
0.70	0.63	0.66	0.65	0.70	0.60	0.64	0.73	0.74
0.70	0.72	0.69	0.63	0.74	0.68	0.69	0.73	0.70
0.82	0.80	0.82	0.79	0.81	0.79	0.83	0.81	0.83
0.85	0.84	0.85	0.86	0.86	0.85	0.85	0.86	0.87
0.73	0.66	0.67	0.68	0.71	0.60	0.68	0.76	0.65
0.56	0.67	0.68	0.67	0.61	0.68	0.59	0.73	0.64
0.74	0.70	0.75	0.74	0.73	0.71	0.72	0.77	0.73
0.68	0.69	0.68	0.71	0.70	0.59	0.61	0.76	0.70
0.81	0.81	0.81	0.80	0.80	0.80	0.78	0.85	0.81
0.60	0.63	0.60	0.61	0.66	0.60	0.58	0.68	0.64
0.78	0.78	0.73	0.77	0.78	0.68	0.75	0.81	0.80

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0.73	0.69	0.75	0.77	0.74	0.75	0.74	0.81	0.76
0.75	0.74	0.71	0.72	0.73	0.66	0.68	0.78	0.77
0.74	0.74	0.79	0.72	0.75	0.69	0.77	0.78	0.74
0.58	0.57	0.62	0.62	0.71	0.56	0.57	0.73	0.63
0.88	0.86	0.84	0.85	0.87	0.82	0.85	0.88	0.89
0.85	0.84	0.88	0.84	0.87	0.83	0.87	0.87	0.86
0.80	0.81	0.80	0.87	0.84	0.84	0.82	0.88	0.84
0.80	0.85	0.83	0.85	0.82	0.86	0.82	0.88	0.84
0.87	0.87	0.88	0.87	0.88	0.85	0.87	0.89	0.89
0.89	0.89	0.87	0.91	0.85	0.90	0.87	0.92	0.90
0.71	0.72	0.71	0.76	0.64	0.66	0.72	0.82	0.71
0.63	0.64	0.71	0.71	0.71	0.71	0.66	0.79	0.69
0.84	0.83	0.80	0.85	0.86	0.85	0.83	0.79	0.81
0.89	0.84	0.89	0.89	0.89	0.88	0.86	0.88	0.84
0.93	0.92	0.89	0.92	0.92	0.87	0.90	0.93	0.92
0.95	0.95	0.95	0.96	0.95	0.95	0.95	0.96	0.96
0.97	0.96	0.95	0.96	0.95	0.96	0.95	0.97	0.97

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740	743	748	750	765	766	770	781	801
RWD	**RL4**	**RN5**	**RDU**	**RBV**	**RA7**	**REF**	**RAL**	**RKB**
0.68	0.69	0.70	0.69	0.70	0.70	0.67	0.71	0.71
0.69	0.69	0.70	0.68	0.70	0.70	0.69	0.70	0.71
0.55	0.57	0.57	0.53	0.62	0.58	0.55	0.58	0.61
0.48	0.40	0.36	0.28	0.43	0.47	0.43	0.39	0.41
0.52	0.50	0.50	0.51	0.55	0.53	0.48	0.58	0.54
0.73	0.71	0.72	0.72	0.71	0.71	0.70	0.74	0.72
0.75	0.75	0.75	0.75	0.76	0.75	0.75	0.76	0.76
0.67	0.63	0.67	0.66	0.69	0.69	0.66	0.71	0.68
0.63	0.67	0.68	0.65	0.69	0.66	0.68	0.68	0.69
0.68	0.64	0.67	0.66	0.64	0.68	0.65	0.71	0.65
0.62	0.63	0.62	0.58	0.65	0.64	0.61	0.64	0.66
0.39	0.38	0.36	0.29	0.39	0.46	0.36	0.36	0.37
0.73	0.70	0.72	0.72	0.71	0.72	0.68	0.76	0.72
0.80	0.80	0.80	0.80	0.81	0.81	0.79	0.81	0.80
0.61	0.62	0.55	0.60	0.69	0.64	0.62	0.62	0.71
0.57	0.57	0.53	0.53	0.57	0.56	0.56	0.59	0.63
0.79	0.78	0.79	0.77	0.77	0.78	0.77	0.81	0.79
0.72	0.71	0.69	0.65	0.69	0.74	0.66	0.66	0.71
0.72	0.74	0.71	0.70	0.70	0.73	0.69	0.74	0.76
0.81	0.79	0.81	0.81	0.82	0.82	0.78	0.82	0.82
0.81	0.80	0.79	0.79	0.81	0.81	0.80	0.81	0.81
0.81	0.80	0.78	0.79	0.80	0.80	0.78	0.81	0.81
0.31	0.30	0.34	0.41	0.34	0.40	0.39	0.46	0.30
0.71	0.71	0.61	0.67	0.66	0.70	0.65	0.69	0.72
0.70	0.74	0.73	0.69	0.71	0.70	0.73	0.72	0.72
0.81	0.81	0.80	0.81	0.82	0.82	0.83	0.82	0.84
0.87	0.86	0.86	0.86	0.87	0.87	0.86	0.87	0.87
0.67	0.71	0.59	0.64	0.68	0.64	0.61	0.69	0.73
0.74	0.70	0.70	0.65	0.66	0.73	0.69	0.66	0.63
0.77	0.73	0.74	0.75	0.74	0.70	0.75	0.79	0.71
0.70	0.71	0.69	0.70	0.68	0.68	0.64	0.70	0.69
0.81	0.84	0.82	0.80	0.84	0.83	0.81	0.85	0.83
0.67	0.59	0.65	0.63	0.53	0.59	0.50	0.69	0.63
0.76	0.79	0.69	0.75	0.78	0.78	0.72	0.80	0.79

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0.73	0.72	0.66	0.74	0.74	0.79	0.69	0.77	0.75
0.73	0.67	0.73	0.78	0.77	0.75	0.76	0.79	0.75
0.73	0.74	0.67	0.74	0.79	0.74	0.75	0.76	0.77
0.62	0.62	0.61	0.55	0.45	0.54	0.48	0.66	0.58
0.86	0.87	0.85	0.85	0.87	0.86	0.85	0.86	0.88
0.86	0.86	0.83	0.86	0.89	0.86	0.87	0.87	0.88
0.89	0.82	0.85	0.85	0.85	0.87	0.84	0.87	0.84
0.82	0.84	0.80	0.85	0.85	0.87	0.77	0.86	0.82
0.89	0.89	0.87	0.87	0.89	0.88	0.87	0.88	0.89
0.91	0.88	0.92	0.92	0.92	0.92	0.91	0.93	0.92
0.75	0.62	0.74	0.67	0.76	0.70	0.64	0.78	0.74
0.81	0.75	0.73	0.73	0.70	0.73	0.64	0.71	0.71
0.89	0.87	0.85	0.85	0.88	0.80	0.83	0.87	0.83
0.91	0.90	0.90	0.89	0.88	0.87	0.89	0.90	0.89
0.91	0.92	0.91	0.92	0.93	0.92	0.88	0.93	0.93
0.95	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
0.97	0.96	0.96	0.95	0.97	0.97	0.97	0.97	0.97

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819	827	845	861	900	923	938	963	974
RTR	**RJZ**	**RHM**	**RTG**	**R1H**	**RK9**	**RXW**	**RR8**	**RWP**
0.71	0.72	0.72	0.72	0.75	0.72	0.74	0.74	0.74
0.71	0.71	0.73	0.72	0.73	0.73	0.74	0.74	0.74
0.61	0.61	0.65	0.63	0.63	0.62	0.61	0.68	0.60
0.45	0.36	0.44	0.47	0.49	0.47	0.48	0.53	0.45
0.56	0.54	0.63	0.58	0.60	0.62	0.59	0.62	0.55
0.73	0.74	0.75	0.75	0.77	0.75	0.77	0.75	0.77
0.77	0.77	0.77	0.77	0.79	0.78	0.79	0.79	0.80
0.69	0.70	0.69	0.66	0.74	0.69	0.70	0.70	0.71
0.72	0.69	0.69	0.69	0.72	0.72	0.71	0.71	0.74
0.66	0.71	0.70	0.69	0.75	0.70	0.72	0.67	0.72
0.66	0.67	0.72	0.67	0.68	0.68	0.68	0.70	0.67
0.34	0.35	0.43	0.42	0.42	0.35	0.50	0.46	0.37
0.74	0.73	0.74	0.73	0.78	0.75	0.77	0.75	0.77
0.81	0.82	0.82	0.82	0.84	0.82	0.84	0.84	0.84
0.62	0.66	0.70	0.62	0.68	0.69	0.69	0.69	0.64
0.56	0.64	0.65	0.63	0.67	0.68	0.64	0.70	0.65
0.79	0.81	0.79	0.81	0.83	0.81	0.82	0.80	0.81
0.73	0.68	0.70	0.72	0.78	0.75	0.78	0.71	0.75
0.74	0.76	0.79	0.76	0.78	0.78	0.75	0.81	0.76
0.82	0.84	0.83	0.82	0.85	0.83	0.84	0.85	0.85
0.81	0.80	0.82	0.82	0.83	0.82	0.84	0.84	0.84
0.81	0.81	0.81	0.82	0.85	0.82	0.83	0.84	0.83
0.38	0.42	0.48	0.36	0.46	0.36	0.31	0.42	0.42
0.71	0.75	0.72	0.74	0.76	0.74	0.74	0.76	0.72
0.74	0.73	0.77	0.70	0.80	0.78	0.78	0.76	0.79
0.83	0.83	0.82	0.85	0.85	0.84	0.86	0.87	0.86
0.87	0.88	0.88	0.88	0.89	0.89	0.89	0.89	0.89
0.72	0.72	0.75	0.72	0.76	0.71	0.69	0.77	0.73
0.71	0.65	0.68	0.72	0.79	0.70	0.76	0.70	0.75
0.77	0.78	0.79	0.75	0.83	0.75	0.79	0.74	0.81
0.75	0.71	0.76	0.69	0.77	0.78	0.71	0.72	0.73
0.83	0.84	0.84	0.81	0.88	0.84	0.85	0.85	0.86
0.65	0.62	0.61	0.59	0.73	0.65	0.66	0.69	0.63
0.79	0.81	0.81	0.79	0.83	0.80	0.79	0.83	0.83

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0.70	0.78	0.77	0.77	0.85	0.75	0.79	0.79	0.74
0.76	0.77	0.79	0.79	0.83	0.79	0.77	0.80	0.72
0.79	0.75	0.79	0.79	0.81	0.75	0.79	0.83	0.81
0.67	0.68	0.63	0.60	0.71	0.68	0.62	0.65	0.65
0.88	0.87	0.90	0.88	0.89	0.89	0.88	0.91	0.89
0.88	0.88	0.88	0.89	0.89	0.87	0.89	0.90	0.90
0.84	0.88	0.88	0.82	0.90	0.88	0.88	0.85	0.86
0.80	0.87	0.87	0.85	0.90	0.87	0.89	0.89	0.87
0.89	0.89	0.88	0.89	0.92	0.89	0.91	0.90	0.90
0.91	0.92	0.93	0.92	0.93	0.89	0.92	0.94	0.92
0.65	0.80	0.80	0.65	0.76	0.78	0.70	0.71	0.75
0.70	0.80	0.74	0.70	0.79	0.72	0.80	0.68	0.62
0.87	0.87	0.87	0.87	0.86	0.86	0.87	0.82	0.92
0.90	0.90	0.91	0.90	0.93	0.88	0.90	0.87	0.92
0.91	0.93	0.94	0.91	0.93	0.93	0.92	0.94	0.92
0.96	0.96	0.96	0.96	0.97	0.96	0.96	0.96	0.96
0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.98	0.97

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976	982	992	1024	1053	1056	1062	1067	1225
RWF	**RJE**	**RGT**	**RWA**	**RJ1**	**RRV**	**RH8**	**RVV**	**RM1**
0.74	0.74	0.74	0.75	0.76	0.78	0.74	0.75	0.76
0.73	0.76	0.75	0.76	0.76	0.75	0.74	0.76	0.78
0.57	0.65	0.66	0.69	0.65	0.67	0.63	0.62	0.66
0.52	0.50	0.49	0.50	0.50	0.44	0.48	0.46	0.51
0.54	0.60	0.59	0.64	0.62	0.63	0.57	0.64	0.66
0.75	0.77	0.77	0.77	0.78	0.80	0.77	0.79	0.81
0.80	0.80	0.80	0.80	0.81	0.81	0.80	0.81	0.83
0.72	0.70	0.73	0.71	0.74	0.76	0.71	0.74	0.76
0.70	0.71	0.75	0.73	0.75	0.77	0.74	0.71	0.76
0.71	0.71	0.70	0.72	0.73	0.76	0.70	0.75	0.75
0.65	0.71	0.70	0.71	0.70	0.71	0.66	0.69	0.72
0.42	0.43	0.51	0.41	0.44	0.44	0.47	0.42	0.47
0.75	0.77	0.77	0.78	0.80	0.79	0.75	0.80	0.79
0.84	0.84	0.84	0.84	0.85	0.85	0.84	0.86	0.87
0.64	0.67	0.70	0.69	0.70	0.71	0.67	0.70	0.68
0.53	0.66	0.63	0.68	0.65	0.70	0.61	0.68	0.67
0.80	0.83	0.81	0.83	0.83	0.84	0.81	0.84	0.85
0.77	0.78	0.74	0.76	0.77	0.77	0.74	0.77	0.79
0.72	0.77	0.80	0.81	0.78	0.80	0.74	0.77	0.81
0.85	0.84	0.85	0.86	0.86	0.87	0.84	0.86	0.87
0.84	0.85	0.84	0.83	0.86	0.85	0.84	0.85	0.86
0.83	0.84	0.83	0.83	0.85	0.86	0.82	0.85	0.86
0.34	0.45	0.46	0.50	0.37	0.50	0.27	0.53	0.47
0.71	0.76	0.75	0.77	0.75	0.77	0.71	0.73	0.76
0.72	0.75	0.74	0.79	0.74	0.81	0.72	0.82	0.81
0.86	0.88	0.85	0.87	0.87	0.87	0.86	0.86	0.88
0.89	0.89	0.89	0.90	0.90	0.90	0.89	0.90	0.91
0.64	0.76	0.75	0.77	0.77	0.78	0.69	0.74	0.78
0.75	0.76	0.75	0.75	0.73	0.75	0.72	0.78	0.78
0.80	0.81	0.80	0.80	0.82	0.82	0.72	0.82	0.82
0.72	0.78	0.76	0.77	0.71	0.77	0.75	0.73	0.77
0.84	0.85	0.85	0.87	0.87	0.90	0.84	0.87	0.88
0.63	0.68	0.64	0.76	0.69	0.66	0.58	0.75	0.73
0.78	0.82	0.81	0.85	0.84	0.84	0.80	0.82	0.82

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0.75	0.81	0.76	0.76	0.83	0.83	0.74	0.80	0.82
0.77	0.77	0.79	0.76	0.83	0.84	0.74	0.81	0.82
0.76	0.82	0.79	0.79	0.85	0.82	0.80	0.80	0.82
0.64	0.70	0.64	0.66	0.63	0.73	0.56	0.69	0.71
0.85	0.90	0.90	0.92	0.88	0.90	0.87	0.89	0.91
0.88	0.92	0.89	0.89	0.91	0.91	0.90	0.91	0.91
0.87	0.88	0.86	0.88	0.89	0.89	0.86	0.91	0.86
0.84	0.88	0.89	0.86	0.90	0.91	0.85	0.91	0.91
0.90	0.91	0.90	0.92	0.92	0.92	0.90	0.91	0.92
0.94	0.92	0.94	0.94	0.94	0.94	0.94	0.95	0.95
0.76	0.74	0.71	0.77	0.81	0.83	0.69	0.75	0.81
0.78	0.79	0.75	0.69	0.77	0.77	0.66	0.83	0.66
0.91	0.87	0.83	0.91	0.88	0.84	0.89	0.92	0.87
0.90	0.91	0.91	0.92	0.92	0.91	0.82	0.93	0.91
0.92	0.94	0.94	0.94	0.94	0.94	0.92	0.94	0.94
0.96	0.97	0.97	0.97	0.97	0.97	0.96	0.97	0.97
0.97	0.97	0.98	0.97	0.98	0.98	0.97	0.97	0.97

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1324	1344	1437	1451	1513	1972
RTD	**RTE**	**RWE**	**RTH**	**RHQ**	**RPY**
0.78	0.79	0.82	0.81	0.81	0.86
0.79	0.80	0.81	0.80	0.82	0.85
0.73	0.67	0.74	0.71	0.73	0.72
0.54	0.57	0.61	0.63	0.59	0.67
0.67	0.63	0.68	0.68	0.69	0.64
0.81	0.82	0.84	0.83	0.82	0.88
0.84	0.84	0.85	0.85	0.86	0.89
0.75	0.77	0.81	0.80	0.81	0.86
0.77	0.77	0.80	0.79	0.80	0.85
0.75	0.78	0.80	0.79	0.78	0.86
0.73	0.72	0.79	0.75	0.77	0.73
0.48	0.53	0.55	0.60	0.48	0.57
0.79	0.80	0.84	0.83	0.83	0.86
0.87	0.87	0.89	0.88	0.89	0.91
0.74	0.72	0.78	0.70	0.78	0.76
0.71	0.65	0.77	0.69	0.74	0.65
0.83	0.86	0.88	0.86	0.87	0.90
0.76	0.82	0.83	0.79	0.81	0.86
0.82	0.81	0.85	0.83	0.83	0.81
0.88	0.89	0.90	0.88	0.90	0.92
0.88	0.87	0.90	0.88	0.89	0.92
0.87	0.87	0.89	0.88	0.89	0.91
0.56	0.41	0.54	0.54	0.44	0.43
0.74	0.75	0.84	0.78	0.80	0.78
0.81	0.81	0.86	0.83	0.81	0.84
0.89	0.87	0.89	0.90	0.91	0.91
0.91	0.92	0.92	0.92	0.93	0.95
0.79	0.71	0.83	0.79	0.82	0.74
0.72	0.79	0.83	0.78	0.77	0.83
0.83	0.83	0.87	0.83	0.85	0.90
0.81	0.79	0.83	0.77	0.80	0.78
0.89	0.89	0.90	0.90	0.90	0.94
0.67	0.72	0.77	0.76	0.76	0.68
0.85	0.83	0.89	0.86	0.87	0.85

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0.83	0.81	0.85	0.82	0.85	0.90
0.84	0.82	0.86	0.86	0.86	0.90
0.87	0.83	0.87	0.84	0.88	0.88
0.74	0.74	0.76	0.69	0.70	0.62
0.92	0.91	0.93	0.91	0.92	0.90
0.93	0.92	0.93	0.92	0.94	0.95
0.90	0.90	0.92	0.92	0.91	0.92
0.88	0.90	0.90	0.91	0.91	0.95
0.93	0.92	0.94	0.92	0.94	0.95
0.95	0.95	0.95	0.96	0.96	0.96
0.76	0.85	0.75	0.81	0.86	0.82
0.76	0.76	0.85	0.81	0.86	0.85
0.92	0.94	0.93	0.93	0.91	0.91
0.94	0.92	0.95	0.92	0.93	0.96
0.94	0.93	0.95	0.95	0.96	0.96
0.97	0.98	0.98	0.98	0.98	0.98
0.98	0.98	0.98	0.98	0.98	0.99

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STROBE Statement—Checklist of items that should be included in reports of ***cross-sectional studies***

	Item No	Recommendation	Page No
Title and abstract	1	(*a*) Indicate the study's design with a commonly used term in the title or the abstract	1
		(*b*) Provide in the abstract an informative and balanced summary of what was done and what was found	2
Introduction			
Background/rationale	2	Explain the scientific background and rationale for the investigation being reported	3,4
Objectives	3	State specific objectives, including any prespecified hypotheses	2,4
Methods			
Study design	4	Present key elements of study design early in the paper	4,5
Setting	5	Describe the setting, locations, and relevant dates, including periods of recruitment, exposure, follow-up, and data collection	4
Participants	6	(*a*) Give the eligibility criteria, and the sources and methods of selection of participants	4
Variables	7	Clearly define all outcomes, exposures, predictors, potential confounders, and effect modifiers. Give diagnostic criteria, if applicable	4,5
Data sources/ measurement	8*	For each variable of interest, give sources of data and details of methods of assessment (measurement). Describe comparability of assessment methods if there is more than one group	*4*
Bias	9	Describe any efforts to address potential sources of bias	NA
Study size	10	Explain how the study size was arrived at	4,5
Quantitative variables	11	Explain how quantitative variables were handled in the analyses. If applicable, describe which groupings were chosen and why	4
Statistical methods	12	(*a*) Describe all statistical methods, including those used to control for confounding	4,5
		(*b*) Describe any methods used to examine subgroups and interactions	NA
		(*c*) Explain how missing data were addressed	5
		(*d*) If applicable, describe analytical methods taking account of sampling strategy	5
		(*e*) Describe any sensitivity analyses	NA
Results			
Participants	13*	(a) Report numbers of individuals at each stage of study—eg numbers potentially eligible, examined for eligibility, confirmed eligible, included in the study, completing follow-up, and analysed	5
		(b) Give reasons for non-participation at each stage	5
		(c) Consider use of a flow diagram	NA
Descriptive data	14*	(a) Give characteristics of study participants (eg demographic, clinical, social) and information on exposures and potential confounders	5,6
		(b) Indicate number of participants with missing data for each variable of interest	5,6
Outcome data	15*	Report numbers of outcome events or summary measures	6
Main results	16	(*a*) Give unadjusted estimates and, if applicable, confounder-adjusted estimates and their precision (eg, 95% confidence interval). Make clear which confounders were adjusted for and why they were included	6

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		(*b*) Report category boundaries when continuous variables were categorized	NA
		(*c*) If relevant, consider translating estimates of relative risk into absolute risk for a meaningful time period	NA
Other analyses	17	Report other analyses done—eg analyses of subgroups and interactions, and sensitivity analyses	NA
Discussion			
Key results	18	Summarise key results with reference to study objectives	6
Limitations	19	Discuss limitations of the study, taking into account sources of potential bias or imprecision. Discuss both direction and magnitude of any potential bias	7
Interpretation	20	Give a cautious overall interpretation of results considering objectives, limitations, multiplicity of analyses, results from similar studies, and other relevant evidence	7,8
Generalisability	21	Discuss the generalisability (external validity) of the study results	8
Other information			
Funding	22	Give the source of funding and the role of the funders for the present study and, if applicable, for the original study on which the present article is based	1

*Give information separately for exposed and unexposed groups.

Note: An Explanation and Elaboration article discusses each checklist item and gives methodological background and published examples of transparent reporting. The STROBE checklist is best used in conjunction with this article (freely available on the Web sites of PLoS Medicine at http://www.plosmedicine.org/, Annals of Internal Medicine at http://www.annals.org/, and Epidemiology at http://www.epidem.com/). Information on the STROBE Initiative is available at www.strobe-statement.org.

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BMJ Open

The reliability of hospital scores for the Cancer Patient Experience Survey: analysis of publicly reported patient survey data

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The reliability of hospital scores for the Cancer Patient Experience Survey: analysis of publicly reported patient survey data

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Declarations.

Competing Interests. The authors report grants from MacMillan Cancer Support, during the conduct of the study. GA and GL have acted as academic consultants providing methodological advice to NHS England Insight team regarding the Cancer Patient Experience Survey.

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Ethical Approval. This study is entirely based on publically available data and so ethical approval is not required. The actual survey was conducted by the survey providers after obtaining section 251 approval of the NHS Act 2006 and Health Service (Control of Patient Information) Regulations 2002.

Guarantor. GA is guarantor for this paper

Contributorship. GA and GL conceived and designed the study. GA developed the methodological framework. MGC performed the analysis. All authors (GA, MGC, TMP, GL) contributed to the interpretation of findings and the drafting of the manuscript.

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Data sharing statement. This study is based entirely on publically available data which can be found at http://www.ncpes.co.uk/reports/2016-reports/local-reports-1/data-tables-1

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Abstract

Objectives To assess the degree to which variations in publicly reported hospital scores arising from the English Cancer Patient Experience Survey (CPES) are subject to chance.

Design Secondary analysis of publically reported data.

Setting English National Health Service hospitals

Participants 72,756 patients who were recently treated for cancer in one of 146 hospitals and responded to the 2016 English Cancer Patient Experience Survey

Main outcome measures Spearman-Brown reliability of hospital scores on 51 evaluative questions regarding cancer care.

Results Hospitals varied in respondent sample size with a median hospital sample size of 419 responses (range 31 - 1972). There were some hospitals with generally highly reliable scores across most questions, whereas other hospitals had generally unreliable scores (the median reliability of question scores within individual hospitals varied between 0.11 and 0.86). Similarly, there were some questions with generally high reliability across most hospitals whereas other questions had generally low reliability. Of the 7,377 individual hospital scores publically reported (146 hospitals by 51 questions, minus 69 suppressed scores), only 34% reached a reliability of 0.7, the minimum generally considered to be useful. In order for 80% of the individual hospital scores to reach a reliability of 0.7, some hospitals would require a four-fold increase in number of respondents; although in a few other hospitals sample sizes could be reduced.

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Conclusions The English Patient Experience Survey represents a globally unique source for understanding cancer patient experience, but in its present form it is not reliable for high stakes comparisons of the performance of different hospitals. Revised sampling strategies and survey questions could help increase the reliability of hospital scores, and thus make the survey fit for use in performance comparisons.

Strengths and limitations of this study

- Although there are thousands of healthcare quality indicators in current use, most are bereft of any evaluation of their statistical reliability. This paper addresses this lack of evidence for a globally unique patient experience survey.
- By making use of the actual data used in public reporting of a high profile survey with a high response rate we are able make direct inferences about the quality indicators under consideration.
- By understanding the different reasons behind hospital scores lacking in reliability we are able to suggest ways of increasing the reliability of the survey scores.
- This study only considers the crude hospital scores and not those adjusted for patient case-mix which have recently been reported. However, as we expect any such adjustment to result in lower reliabilities the conclusions of the study remain valid.

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Introduction

'Before you can improve it you first have to measure it' is a common adage of the quality improvement movement across the world[1] . Coupled with a tendency towards greater public accountability, this maxim has led to an ever-increasing number of measurement initiatives, typically underpinned by public reporting of scores of healthcare organisations.[2, 3]

Together with patient safety and clinical effectiveness, patient experience is being increasingly accepted as a distinct dimension of care quality[4]. Relatedly, policy-makers regularly commission large scale nationwide patient surveys in the US and the UK.[5-7] Most such surveys are aimed at patients with diverse a range of conditions. However, a repeatable disease-specific survey for cancer patients was launched in England in 2010, and its findings are reported publicly and used by healthcare improvement teams in constructing and evaluating action plans.

The statistical reliability of measures of care quality remains a concern, as often the sample sizes involved in organisational comparisons are small. Ideally, measurement initiatives should follow prior examination of the statistical properties of indicators, but this is rarely the case. Some previous UK work has examined the reliability of indicators of stage at diagnosis, diagnostic activity, general practice patient experience and general practice high risk prescribing, on the whole providing cautionary findings indicating the risk of unreliability of organisational rankings.[8-12] Similar approaches and findings have been reported from the US and Dutch settings.[13-19]

These considerations highlight the need for examining the reliability of hospital scores for the Cancer Patient Experience survey, and have motivated us to examine this question empirically in this study. Its aim was to provide a detailed profile of the statistical reliability (and therefore of the role of chance) in hospital scores derived from the Cancer Patient Experience Survey.

Methods

Data were analysed relating to respondents to the 2016 National Cancer Patient Experience Survey. The (English) National Cancer Patient Experience Survey 2016 survey questionnaire is the sixth iteration of the survey first undertaken in 2010. It includes many evaluative questions covering the experience of diagnosis, diagnostic testing, shared-decision-making, specialist nursing, inpatient care, anti-cancer treatment (surgery, radiotherapy, chemotherapy), hospital discharge and care in the community, together with an overall item for overall satisfaction with care. Survey results are reported publicly for each English hospital to drive local quality improvements, to assist commissioners and providers of cancer care; and to inform the work of the various charities and stakeholder groups supporting cancer patients. The survey was mailed to all adult patients (aged 16 and over) discharged from a National Health Service hospital after inpatient or a day case cancer-related treatment during April-June 2016 after vital status checks at survey mail-out (between 3-5 months after the sampling period).

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Respondents comprised patients aged 16 years and above who were treated for cancer in English National Health Service (NHS) hospitals during April-June 2016. The patients had relevant ICD10 codes for cancer (C00-99 excluding C44 and C84, and D05) and were not known to have died prior to the survey mail out. Questionnaires were sent by post and responses could be made by post, online or using a telephone translation service. Details of the survey and method of administration have been published previously[20]. In this study we make use of publically reported hospital level data[21].

Survey questions have up to 7 response options which are dichotomised for public reporting such that hospitals scores represent the percentage of patients reporting a positive experience for each question. Scores are produced for hospital trusts and Clinical Commissioning Groups (CCG). Further details are given in the Technical Documentation [22].

We calculated the Spearman-Brown (inter-unit) reliability of each hospital score. This is equivalent to the proportion of variation in hospital-level mean scores (for a given hospital sample size) attributable to the true (underlying) variation between them. Following previous work, we estimated reliability by partitioning the observed variability in hospital scores into two components, variability between hospitals and variability within hospitals, using mixed effects logistic regression models[8, 23]. For each question, a random intercept model (with no fixed effects other than the constant) was used to estimate the between hospital variance on the log-odds scale. This variance is a measure of the true (underlying) variation which can be thought of as that which would be seen with very large sample sizes in each hospital, such that the influence of sampling variation would be minimal [8, 23]. Since our scores are binary measures, the within hospital variance also depends on the level of achievement at each hospital, and can be described by the binomial distribution. In this context, for each question the reliability λ of hospital i is given by

$$\lambda_i = \frac{\sigma_b^2}{\sigma_b^2 + \frac{1}{p_i(1-p_i)n_i}} \quad (1)$$

Where σ_b^2 is the true (underlying) between hospital variance on the log-odds scale, p_i is the observed proportion of patients reporting a positive experience in hospital i and n_i is the sample size of hospital i. High stakes purposes have important consequences for an individual or organisation (i.e. when attached to a financial incentive, publicly reported league tables or an outcome measure in a research study) and therefore require high measure reliability. Reliability can takes values from 0 to 1. Values <0.70 are considered to represent low reliability, whereas values ≥0.90 represent high reliability, required for 'high-stake' purposes; in-between values are considered to represent adequate reliability.

Where less than 21 responses were received for an individual question for a hospital, results were not publicly reported. Of the 148 hospitals included in the survey there were two hospitals with less than 21 responses for every question. We excluded these two hospitals from our analysis. However there remained 69 suppressed scores (from 18 hospitals) in the publically reported data due to low numbers of respondents to certain questions applicable to only some patients. These scores were excluded from the analysis.

We calculated reliability for every hospital score on each question (a total of 146 hospitals multiplied by 51 questions = 7,446 individual scores, minus 69 suppressed scores = 7,377 individual scores).

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Additionally, the model outputs were used to estimate the increase in sample size required for each hospital to reach a reliability of 0.7 for each question [8, 23]. We used R version 3.4.4 for all analyses.

Patient involvement

The Cancer Patient Experience Survey development and administration are supported by an advisory group which includes patient advocates. The present study forms part of a wider project funded by MacMillan Cancer Support for which there is an advisory group with patient representative participation.

Results

Overall, there were 72,756 respondents to the National Cancer Patient Experience Survey in 2016 (response rate 66%) who were treated at the 146 hospitals included in our analysis. Our findings are displayed in three figures each comprising a grid of hospitals by questions. Hospitals are ordered according to the number of responders and questions are ordered according to the between hospital variance. Hospitals varied in respondent sample size with a median of 419 responses (range 31 - 1972). Due to different sections of the questionnaire corresponding to different care pathways, not all questions were applicable to all patients and so the number of respondents varied considerably for each of the 51 questions. The number of respondents answering individual questions varied between 15,968 (22%) and 71,773 (99%) with a median of 52,786 (73%). The number of respondents for each question in each hospital is shown in Figure 1 and supplementary material Table 1.

[Insert Figure 1.]

The percentage of patients reporting a positive experience was highly variable between questions and between hospitals (Figure 2 and supplementary material Table 2). The median percentage of patients reporting positive experience across individual questions was 79% (range 29% - 96%) while the corresponding median across individual hospitals was 75% (range 51% - 82%).

[Insert Figure 2.]

Figure 3 (and supplementary material Table 3) shows the reliability of the score for each question at each hospital. There were some hospitals with generally high reliability across most questions, whereas others had generally low reliability across survey items. The median reliability of question scores within individual hospitals was 0.60 (range 0.11 – 0.86). Similarly there were some questions with generally high reliability whereas others had generally low reliability. The median reliability of hospital scores within individual questions was 0.58 (range 0.21 – 0.93).

[Insert Figure 3.]

Given that reliability depends on the sample size, the between hospital variance and the hospital performance, we can examine how these factors influence reliability. Consistent with this hospitals which tended to have low reliability also had small sample sizes. Also questions with low reliability tended to be those where the between-hospital variance is low. However, there are some exceptions to this which can be seen as the horizontal lines composed mostly of red squares in Figure 3. Some CPES questions are unreliable across all hospitals because

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they have, across all hospitals, a small number of respondents to that particular question. Examples include questions only applicable to patients treated by radiotherapy (questions 44 and 45). In general, questions with small sample sizes relate to patients on a particular care pathway. Other cases of low reliability can be seen in questions for which hospitals performance is consistently high (questions 5 and 25).

Overall the reliability of hospitals scores for the survey is low. Of the 7,377 individual hospital-question pairs, only 35 % reached a reliability of 0.7, the minimum generally considered to be useful. As it is possible to improve reliability by increasing the sample size for a given hospital we calculated how many multiples of the current sample size would be required to reach a reliability of 0.7 for each question (Figure 4) It would be possible to increase the percentage of hospital scores reaching a reliability of 0.7 to 60% by doubling the individual hospital sample size. Further increases lead to smaller gains, though 80% of the individual hospital scores would have achieved a reliability of 0.7 or more with 4 times as much data (which represents the upper limit of what could be achieved within a single year of data collection, though could also be achieved by aggregating over longer time periods).

[Insert Figure 4.]

Discussion

In this study we have profiled the reliability of a high-profile national patient experience survey for cancer patients. Our findings show that about two-thirds of hospital scores in this survey do not meet reliability levels generally accepted as useful. In practical terms this means that identification of hospitals that are performing well in specific aspects of care is hampered due to the influence of chance. The lack of reliability can be attributed to different factors which have variable influence.

Although there are thousands of healthcare quality indicators in current use, most are bereft of any evaluation of their statistical reliability. Patient experience scores of English general practices arising from early waves of the GPPS survey were found to have very high reliability, enabling subsequent reductions in the survey sample. [9, 10] In contrast, the present study, examining the reliability of CPES hospital scores for the first time, suggests the need for increases in the survey samples (see below). The present study forms part of an emerging body of literature examining the reliability of a diverse range of quality indicators, including from the UK, the US and The Netherlands[8-19, 22, 23]; we would nonetheless like to re-emphasise the mismatch between the very large number of indicators in current use and the small number of indicators that have been profiled for their reliability.

The key strength of this study is the use of the actual data used in public reporting of a high profile survey with a high response rate. Its main limitation is that our analysis does not take into account the influence of patient case-mix. Certain patient groups have systematic tendencies towards reporting positive experiences compared to others[24, 25] and for this reason the results of the survey are reported in both adjusted and unadjusted form. Nonetheless, as patient case-mix explains some of the variability between hospitals[26], had we calculated the reliability of case-mix adjusted scores we would have found the reliability would have been even lower than that presented here.

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There are some hospitals that have low reliability for most questions as they treat a small number of patients, meaning that the uncertainty on their scores is inherently high. Further, there are some questions with low reliability due to limited true (underlying) variation between hospitals. In such cases, it is very hard to distinguish between hospitals since they are all performing at a similar level. As a consequence, in the absence of very large sample sizes, the observed variability between hospitals will be dominated by chance. A particular example of this phenomenon occurs for questions whose performance is consistently high/low across hospitals. It is harder to distinguish hospitals when performance is close to 0% or 100%. Lastly, there are other questions with a small number of respondents as they are applicable to only subsets of patients. In brief the key mechanisms leading to low reliability are small hospital-level respondent sample, limited variability between hospitals (including because of ceiling/flooring effects) and small survey-level respondent sample.

Given one of the main uses of NCPES is to inform hospital level performance, one might suggest that in its current form the survey is not fit for one of its main intended purposes (though it should be noted that the reliability limitations we report do not affect the use of the survey for providing national-level intelligence about the experience of cancer patients across English hospitals). It could be argued that rather than suppressing score made on the basis of less than 20 respondents as is currently done, all scores which have a reliability below 0.7 should be suppressed. Work in other contexts have shown that when reliability of metrics is low there is a large amount of misclassification of performance.[23, 27] At the very least we believe that users of the survey results should be made aware of the reliability of the hospital scores (with such reliability estimates accompanying the publicly reported scores) so that an informed interpretation can be made by patients, clinicians, managers and members of the public. There is a range of reasons why such transparent reporting of reliability of hospital scores may be useful. For example, a hospital may chose to focus improvement efforts on those questions where they perform worse than average *and* where they know their scores to be reliable. As we already noted, hospital comparisons are not the only purpose of the NCPES. National assessments of patient experiences are supported by CPES and these data have been used to investigate variation and disparities in care between patient groups[24, 25]. For these uses that do not involve organisational comparisons, concerns about the lack of inter-unit reliability are not applicable. Furthermore, it can also be useful to know that all hospitals are performing above a target level even though we may not be able to distinguish between them.

There are various ways in which the survey could be changed in response to these findings. Firstly, by redesigning the survey instrument or related reporting conventions. For example, questions where the variability between hospitals is very low could be considered as candidates for removal from subsequent survey waves as there is little point in classifying hospitals on aspects of care for which they have no tangible differences between them. A similar approach could be taken for questions where hospital performance is very high, although it may also be possible to add to or redesign the response options (or associated reporting conventions) to bring the mean reported scores closer to 50% - which will increase the reliability of these items. We do note that in both these situations there is something to be celebrated as a lack of variability suggests equitable healthcare delivery and -in the context of 'ceiling' effects, a high performance implies high quality health care delivery. However, continued measurement of such aspect may not be the best use of patient survey resources. It

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is not without irony that the aims of quality improvement efforts underpinned by patient surveys are to improve service and reduce disparities, both of which reduce reliability and in turn reduce the usefulness of such survey items.

Another way by which reliability could be increased is to increase the sample size. Currently the NCPES sample consists of all patients treated in a particular three-month period. If a whole year sample was used instead we would have up to four times as many patients available. Our findings suggest that the vast majority of hospitals-level scores in such a case would be reliable, though of course there would be an increase in cost of delivering the survey. Rather than continuing with the current 'census' approach (whereby all patients who fit eligibility criteria during the survey sampling period form part of the sampling frame), probability sampling could be used. This would mean surveying more patients than is currently done in hospitals treating small numbers of cancer patients and fewer than currently done in those treating many cancer patients, potentially having little impact on the total sample size. Indeed the optimal design for a survey that puts equal importance on every hospital is an equal sample size for each hospital and fixed target respondent numbers per unit of assessment are already used in a number of NHS and international surveys[6, 7]. However, changing the length of the sampling window will likely impact the composition of responders as this is dictated by variation in treatment modalities, early mortality and non-response, the effect of which will depend on the sampling window [28]. This in turn may impact the ability to compare results to those from previous years. An alternative approach of aggregating multiple years of survey results will also improve reliability, though it will reduce the timeliness of scores and potentially reduce the usability of the findings. Similarly, improvements in response rate can also increase the sample size, in turn improving reliability. The scope for improvement in this survey may be limited due to it already having a high response rate, but for other surveys that may not be true.

Conclusion

The English Patient Experience Survey represents a globally unique source for understanding cancer patient experience, but in its present form it is not reliable for high stakes comparisons of the performance of different hospitals. In profiling the survey we have found that around two-thirds of hospital scores are not reliable. This severely hampers the use of this survey for hospital comparisons and raises questions over the suitability of its current design. Classifying hospitals as being a poor performer on an unreliable question may lead to unfair reputational loss and misplaced quality improvement efforts resulting in an opportunity cost. Classifying hospitals as high performers on unreliable questions may lead to false reassurance in related areas thus missing the opportunity for improvement. Redesigning the questions and sampling strategy used could dramatically improve the percentage of reliable hospital scores and thus making the survey far more useful.

Figure legends

Figure 1 Sample sizes for each of the 146 hospitals included in the analysis by question (CPES 2016). Each rectangle corresponds to a single hospital and question. Its colour indicates one of five sample size categories as shown on the legend. The exact values for each cell in this plot are provided in supplementary material Table 1.

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Figure 2 Proportions of patients reporting a positive experience by question and for each of the 146 hospitals included in the analysis (CPES 2016). Each rectangle corresponds to a single hospital and question. Its colour indicates one of five proportions categories as shown on the legend. The exact values for each cell in this plot are provided in supplementary material Table 2.

Figure 3 Main central grid: Reliability of hospital scores for each of the 146 hospitals included in the analysis (CPES 2016). Each rectangle corresponds to a single hospital and question. Its colour indicates one of four reliability categories as shown on the legend. Left hand side plot: The variance for each question on the log odds scale. The order of the questions has the same order than that of the main grid and is sorted from the question with lowest between hospital variance to the question with greatest between hospital variance. Bottom plot: The sample size for each hospital in terms of the total number of responders. The order of the hospitals has the same order than that of the main grid and is sorted from the hospital with the smallest sample size to the hospital with greatest sample size. The exact values for each cell in this plot are provided in the supplementary material Table 3.

Figure 4 The expected percentage of hospital scores reaching a reliability of at least 0.7 when changing individual hospital sample sizes for each question.

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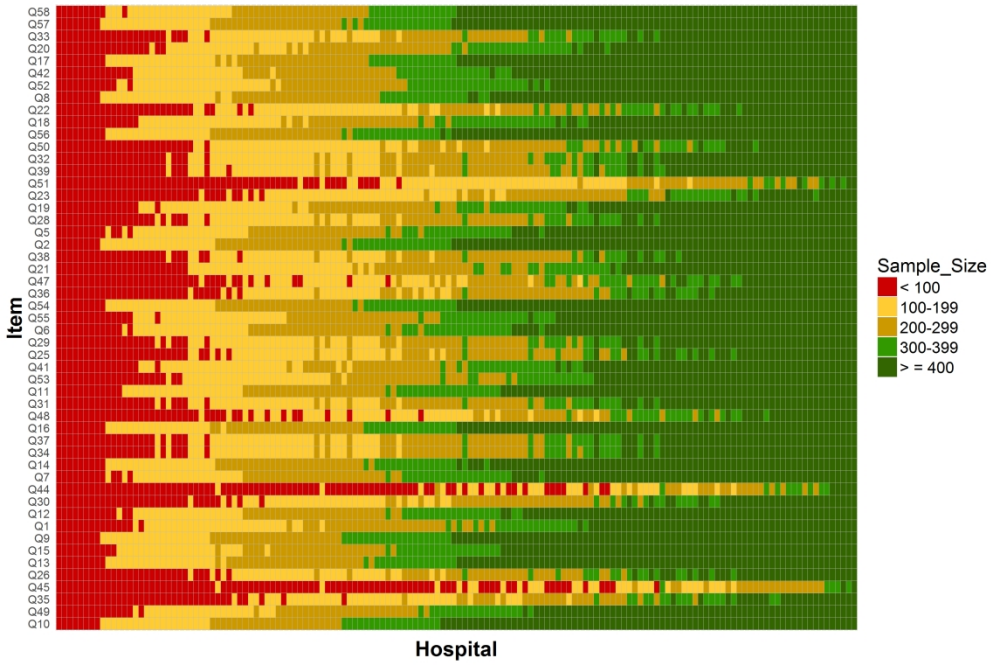

Figure 1 Sample sizes for each of the 146 hospitals included in the analysis by question (CPES 2016). Each rectangle corresponds to a single hospital and question. Its colour indicates one of five sample size categories as shown on the legend. The exact values for each cell in this plot are provided in supplementary material Table 1.

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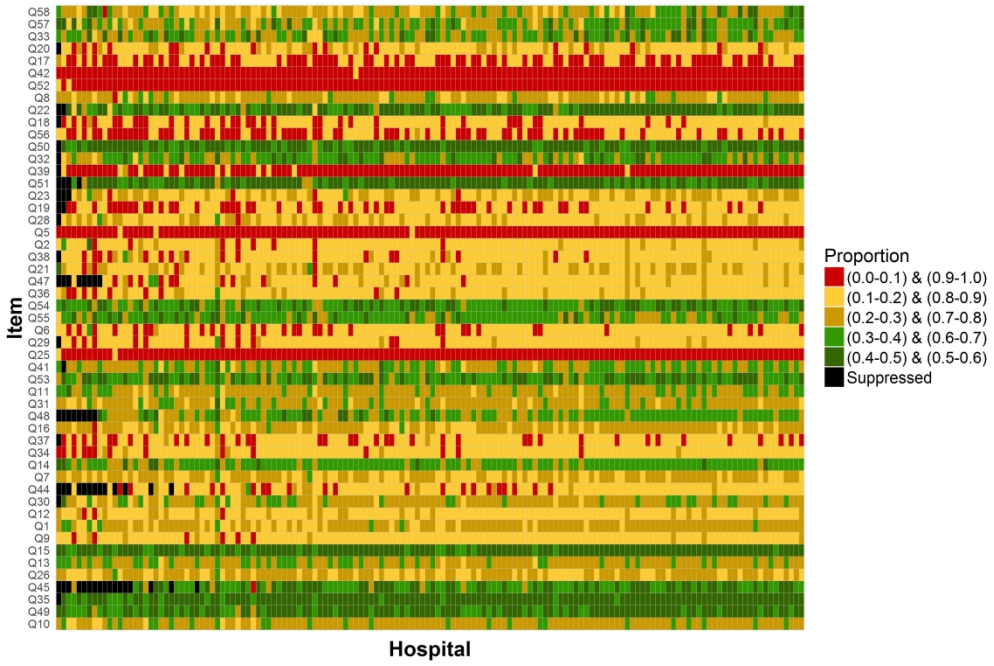

Figure 2 Proportions of patients reporting a positive experience by question and for each of the 146 hospitals included in the analysis (CPES 2016). Each rectangle corresponds to a single hospital and question. Its colour indicates one of five proportions categories as shown on the legend. The exact values for each cell in this plot are provided in supplementary material Table 2.

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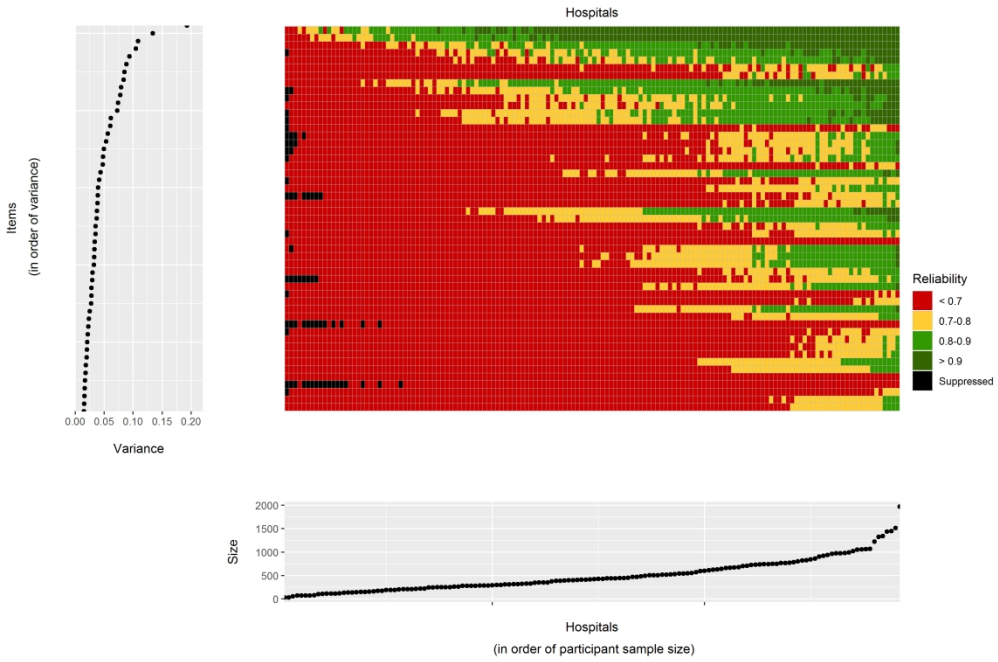

Main central grid: Reliability of hospital scores for each of the 146 hospitals included in the analysis (CPES 2016). Each rectangle corresponds to a single hospital and question. Its colour indicates one of four reliability categories as shown on the legend. Left hand side plot: The variance for each question on the log odds scale. The order of the questions has the same order than that of the main grid and is sorted from the question with lowest between hospital variance to the question with greatest between hospital variance. Bottom plot: The sample size for each hospital in terms of the total number of responders. The order of the hospitals has the same order than that of the main grid and is sorted from the hospital with the smallest sample size to the hospital with greatest sample size. The exact values for each cell in this plot are provided in the supplementary material Table 3.

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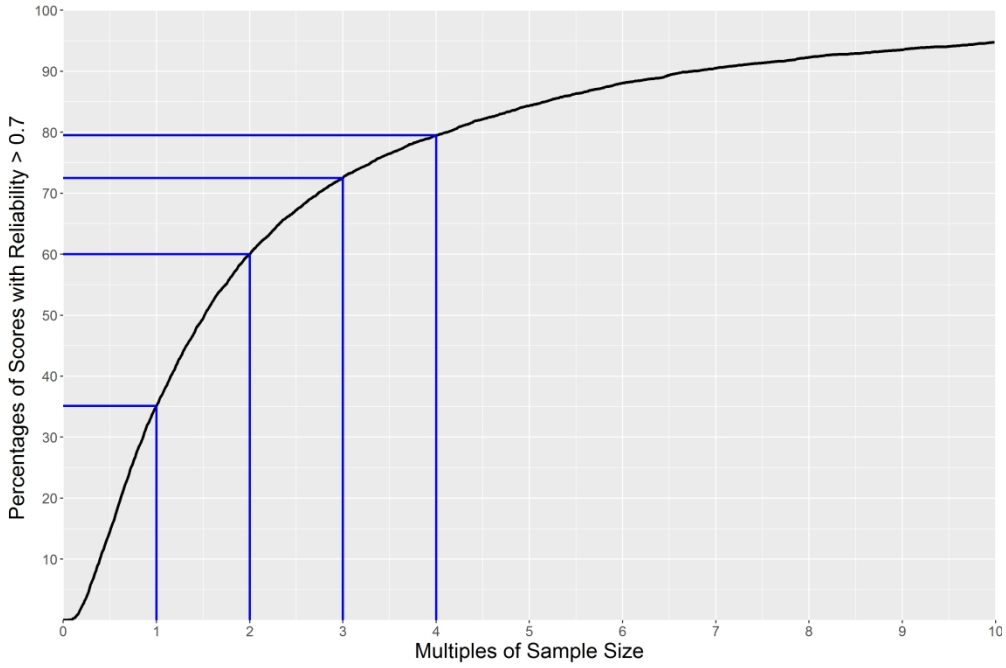

The expected percentage of hospital scores reaching a reliability of at least 0.7 when changing individual hospital sample sizes for each question.

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Table 1. Sample sizes by question for each of the 146 hospitals included in the analysis (CPES 2016). the cells in Figure 1.

Questions \ Hospitals	RQX	RRJ	RT3	RMP	RPC	REP	RAN
Q10	31	30	53	71	70	73	74
Q49	22	27	44	62	54	68	63
Q35	20	23	34	45	33	52	44
Q45	6	6	1	22	6	13	17
Q26	23	27	46	48	63	64	62
Q13	29	30	44	65	61	67	66
Q15	27	29	35	60	54	64	61
Q9	30	31	53	69	68	71	73
Q1	23	21	31	56	54	61	58
Q12	29	23	45	65	54	64	58
Q30	18	23	41	41	40	50	57
Q44	8	6	2	22	7	15	18
Q7	27	26	47	62	55	54	67
Q14	29	31	47	67	64	68	66
Q34	21	28	48	54	50	66	62
Q37	20	28	48	53	50	66	63
Q16	29	30	50	67	69	71	68
Q48	5	1	2	20	6	15	6
Q31	21	28	48	53	50	66	63
Q11	29	28	37	60	57	65	61
Q53	21	22	35	51	43	48	55
Q41	23	19	28	51	40	47	51
Q25	23	27	47	49	66	65	61
Q29	20	28	49	55	50	64	63
Q6	27	27	46	62	56	54	66
Q55	24	28	38	49	57	54	50
Q54	29	32	49	68	67	71	71
Q36	21	26	44	50	45	63	58
Q47	6	2	4	22	8	16	6
Q21	24	23	33	53	38	44	44
Q38	18	27	47	49	48	62	61
Q2	31	32	50	70	70	72	71
Q5	26	26	46	63	55	54	63
Q28	20	28	49	54	49	65	63
Q19	17	19	36	58	44	57	50
Q23	18	14	20	39	23	23	32
Q51	18	14	18	30	17	25	38
Q39	19	28	44	53	47	64	56
Q32	20	28	48	54	50	66	63
Q50	19	23	24	59	29	38	53
Q56	30	32	49	71	68	73	72
Q18	18	21	38	62	48	60	55
Q22	17	20	26	47	24	40	43
Q8	26	30	47	67	69	71	68
Q52	25	25	47	59	56	58	55

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Q42	23	21	33	61	61	54	60
Q17	29	27	47	68	67	70	68
Q20	19	24	34	61	45	57	51
Q33	21	28	48	54	49	66	62
Q57	29	32	48	69	66	73	71
Q58	29	26	49	66	64	69	70

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These values correspond to

RGM	RBQ	R1F	RKE	RE9	RJ6	RVY	RA4	RJN
75	101	107	110	112	115	118	133	134
70	84	83	86	88	89	88	102	97
33	59	49	50	44	50	35	52	43
16	15	16	20	14	19	11	19	33
48	79	69	57	46	68	52	74	76
62	95	101	106	110	108	116	127	131
57	89	94	94	100	101	102	115	124
75	100	108	105	110	112	118	131	133
45	71	70	89	82	79	92	104	83
66	87	93	99	100	96	99	110	115
48	70	61	49	53	64	42	60	50
16	16	20	22	16	22	12	22	36
73	80	100	86	96	103	94	117	108
67	96	103	103	106	109	112	123	130
53	83	75	57	57	76	51	79	66
53	83	75	57	57	76	52	79	66
70	99	102	106	108	106	112	128	131
11	21	28	55	52	40	44	60	62
53	82	75	56	57	76	51	78	65
64	85	94	95	97	103	103	114	120
51	73	71	81	84	75	83	82	98
48	64	76	79	92	82	83	94	103
49	80	68	56	46	70	51	74	78
53	83	75	56	56	75	52	78	66
73	80	99	84	94	103	95	118	108
62	77	92	79	87	76	94	101	105
75	97	102	101	109	107	117	129	130
50	76	66	52	50	58	44	64	56
14	20	31	59	60	43	53	65	68
45	67	67	86	78	64	76	78	77
52	79	70	51	53	69	44	71	59
72	102	107	110	108	112	117	129	131
73	81	101	87	96	101	95	118	106
53	81	75	55	56	73	52	79	66
56	73	82	94	95	71	78	84	101
22	37	39	60	49	44	45	56	55
22	56	36	37	33	35	37	27	35
51	81	71	54	55	69	47	76	64
53	82	75	57	57	75	50	78	65
35	77	62	60	60	56	60	42	71
75	99	105	105	109	107	120	132	133
63	78	86	98	94	73	82	97	107
37	58	58	63	72	48	56	69	49
70	100	100	105	104	106	109	125	125
65	83	85	90	100	101	89	115	110

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59	79	87	94	97	94	94	115	125
74	98	105	109	106	100	110	129	127
50	73	84	92	87	75	87	86	93
53	81	75	57	57	74	49	78	65
74	100	103	105	109	109	117	131	130
70	97	105	102	104	98	120	124	127

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RAS	RFR	RAX	RWW	RM3	RQM	RVR	RJR	RC1
137	138	143	149	150	157	170	175	187
111	121	113	114	133	112	120	130	136
60	67	62	62	90	62	55	61	85
25	24	15	24	29	32	12	25	35
71	72	92	77	92	70	66	82	129
128	132	132	136	146	149	154	163	179
121	122	112	129	132	134	139	150	160
136	137	142	147	146	154	166	172	187
101	104	108	105	102	110	128	127	133
113	117	116	120	130	140	136	156	158
67	68	78	77	97	61	76	76	100
28	27	18	28	36	36	15	30	41
115	117	125	126	128	128	135	155	165
128	133	132	135	143	144	155	164	174
79	83	100	89	112	88	83	89	119
79	81	100	88	112	87	83	89	119
133	134	133	143	145	150	154	166	179
56	54	49	36	49	73	57	61	58
79	83	100	89	110	87	82	89	117
128	122	122	129	121	138	147	155	167
87	85	92	94	106	98	92	113	128
102	109	98	106	106	117	109	110	139
71	72	94	80	93	71	64	82	130
78	83	100	89	112	87	83	88	118
116	116	122	128	128	130	133	157	163
108	111	96	111	114	110	118	134	149
128	129	134	140	140	150	161	169	176
65	75	77	77	95	73	67	69	104
60	58	53	40	55	77	61	68	65
81	84	68	86	90	93	85	92	105
73	79	96	84	105	76	76	83	112
135	136	144	151	148	154	161	172	184
114	117	124	125	129	124	129	156	165
79	83	100	89	111	87	82	87	117
105	114	97	105	114	111	134	131	122
59	57	53	63	62	70	51	54	67
38	51	36	40	64	43	35	44	45
76	83	95	86	106	79	79	86	111
79	81	99	86	111	88	83	89	119
64	85	56	85	92	73	66	74	78
137	135	145	145	147	156	163	171	181
108	125	108	111	116	115	140	133	122
66	79	45	77	86	68	54	63	80
130	133	124	140	138	139	158	163	170
115	110	116	111	135	136	130	139	157

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113	117	115	123	121	136	141	144	162
131	138	132	137	142	149	159	164	172
99	100	92	97	113	110	106	111	121
79	83	96	88	110	86	82	88	119
135	135	141	146	145	152	163	173	181
129	132	135	145	133	145	153	164	175

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RFF	RJ2	RA3	RBT	REN	RRF	RAP	RMC	RLQ
189	191	197	209	208	209	208	214	213
150	157	150	168	170	161	180	170	169
84	87	57	74	89	81	80	101	68
27	33	20	22	135	25	77	36	43
99	96	94	119	59	119	88	138	109
168	187	182	197	204	196	203	205	204
148	179	177	184	201	173	188	184	185
187	191	190	205	204	205	208	211	213
137	145	150	154	173	146	134	134	165
159	176	157	171	183	181	180	192	190
93	91	72	93	94	101	95	116	82
28	36	27	25	160	30	81	51	49
154	164	163	185	178	177	167	189	160
173	188	186	194	201	201	203	204	200
118	106	91	109	110	120	106	139	102
118	106	88	111	110	123	106	139	102
174	189	188	202	203	192	203	203	212
76	117	94	66	88	72	132	64	74
118	107	90	111	110	121	106	139	102
158	177	168	181	177	183	187	191	187
117	133	117	125	158	137	155	137	149
129	146	140	142	169	150	159	162	147
102	95	94	122	57	123	86	139	112
118	107	91	111	110	121	108	140	102
152	164	164	185	175	175	169	190	161
143	138	144	154	167	171	168	159	166
180	180	186	199	202	202	202	205	215
88	95	81	98	95	110	86	120	88
82	125	97	73	95	83	145	75	83
114	140	115	121	152	127	156	145	131
105	98	82	104	102	112	100	133	95
182	191	192	199	205	205	210	214	214
151	159	165	185	174	176	167	187	164
118	107	89	110	109	118	107	139	102
126	147	142	156	159	143	179	158	150
79	103	78	80	84	77	129	75	86
68	62	50	64	97	62	89	63	62
112	105	89	102	107	115	99	137	100
118	107	90	110	110	120	105	138	101
108	105	68	112	114	119	131	109	126
185	189	192	203	208	206	208	213	219
136	152	147	163	159	148	178	159	156
109	119	99	94	119	107	142	105	99
175	178	177	191	200	198	194	207	200
140	168	152	169	167	173	188	173	166

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153	174	173	172	192	177	179	188	190
171	187	193	197	201	191	204	198	207
126	134	150	138	173	145	169	165	153
113	104	90	110	110	119	105	139	100
181	189	191	204	207	207	212	212	219
179	184	180	199	198	196	199	200	210

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RLT	RDZ	RBK	RQQ	RBN	RDD	RFS	RTK	RCF
241	243	247	247	249	248	254	257	272
198	190	200	197	197	185	202	203	215
88	125	125	80	129	108	115	95	114
58	52	43	31	21	30	39	25	40
106	196	134	109	195	118	132	133	132
231	232	234	234	224	238	244	236	262
214	208	225	217	196	217	218	225	234
232	237	242	245	248	248	253	255	265
184	177	164	197	195	170	186	175	213
205	219	214	213	211	212	216	218	230
102	138	135	99	158	117	125	125	128
67	54	48	38	26	33	45	31	50
201	217	219	208	215	204	212	211	233
228	232	232	232	231	231	238	238	259
121	179	155	118	187	141	153	145	165
122	179	154	118	190	141	152	144	166
228	240	235	234	232	236	241	251	263
134	87	134	119	57	103	102	91	149
122	179	154	120	187	143	153	145	166
207	207	211	213	207	219	222	228	227
158	146	162	177	163	151	162	160	167
192	173	185	185	174	184	193	160	213
104	194	135	111	197	117	132	135	136
122	180	155	118	188	142	153	145	165
198	218	216	208	217	206	211	207	230
174	196	183	192	186	197	190	199	206
228	233	232	239	236	234	240	250	259
104	157	139	105	165	121	136	121	134
140	94	148	134	64	109	111	104	167
163	145	169	152	142	158	147	154	166
114	172	146	108	180	131	144	131	151
236	241	244	241	250	242	255	252	271
197	216	216	207	217	200	209	206	226
120	179	153	119	188	142	151	145	165
192	191	178	198	169	164	157	190	172
113	95	131	90	104	104	111	107	111
64	72	72	74	77	83	87	70	94
116	177	150	110	183	131	144	138	156
122	179	155	118	188	143	152	144	163
102	133	120	140	132	131	148	114	159
233	242	245	242	244	244	250	256	272
193	194	189	197	181	177	165	200	185
132	97	168	129	123	123	115	107	132
226	234	229	228	231	231	233	242	244
187	196	183	197	195	206	189	214	205

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212	201	210	222	204	196	218	204	250
231	240	235	235	232	227	235	245	254
170	174	209	179	167	176	174	172	215
119	177	153	118	186	140	153	145	163
234	241	240	241	243	239	250	256	268
227	235	235	234	231	232	243	247	259

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RWG	REM	RJF	RQW	RCB	RF4	RK5	RCD	RBZ
274	279	274	282	285	282	290	294	296
210	224	223	227	228	216	234	229	229
118	142	129	120	162	136	155	116	120
35	68	40	41	46	115	36	47	46
182	176	155	144	211	171	193	144	162
245	267	262	272	276	271	275	281	278
217	254	244	239	252	259	250	248	259
270	271	272	280	284	278	283	293	288
193	176	210	224	219	192	221	204	247
234	246	236	241	252	244	249	259	249
149	161	148	140	184	148	170	130	147
39	81	49	51	52	128	41	55	59
235	243	245	258	257	256	264	256	251
250	259	261	265	273	270	276	278	279
183	191	179	170	228	182	209	160	170
187	191	178	168	229	181	209	159	171
256	272	270	264	280	277	279	288	280
65	79	146	129	121	128	94	118	154
185	191	179	171	227	183	207	160	171
240	231	246	256	256	243	260	246	252
182	176	192	185	193	168	190	203	236
168	195	212	217	203	211	208	210	189
183	181	156	141	213	171	195	145	160
186	191	179	167	229	183	208	160	170
235	242	244	255	255	254	261	257	249
205	203	211	220	222	215	233	213	230
260	265	269	277	278	271	277	278	285
163	164	152	138	210	153	187	138	155
76	93	161	157	132	144	106	133	162
157	181	183	173	183	187	165	186	178
176	179	170	160	220	170	194	149	160
270	273	273	282	283	284	292	289	291
234	240	244	255	254	250	263	259	248
184	190	177	171	228	181	208	160	171
200	198	186	213	212	220	213	233	222
111	107	124	117	131	160	121	140	117
82	101	81	70	83	101	71	91	87
176	188	165	162	224	173	201	156	170
185	190	179	171	227	182	206	159	168
139	169	153	146	136	153	133	166	152
270	273	270	281	285	283	285	293	290
210	210	193	228	223	232	219	247	236
113	165	150	137	137	161	146	153	128
254	255	263	262	266	270	278	274	267
239	222	251	251	238	225	243	243	267

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204	245	240	263	233	251	246	254	251
262	266	261	264	272	279	283	286	279
198	202	185	203	211	203	205	228	200
185	191	177	167	225	181	208	158	170
264	274	269	282	284	276	286	290	292
259	260	262	269	274	272	275	271	282

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RTP	RWJ	RC9	RGP	RD8	RBD	RNQ	RP5	RVJ
306	305	306	308	315	321	324	337	350
237	227	251	251	249	256	263	274	290
95	165	122	133	127	116	141	150	172
79	47	55	45	44	39	69	44	82
159	205	182	142	161	164	175	174	275
294	285	294	295	306	299	307	313	335
272	260	272	268	288	270	288	292	304
306	304	302	308	312	315	320	331	345
230	259	212	239	235	238	224	243	254
266	272	278	255	267	262	278	289	311
117	182	155	160	148	135	152	179	202
96	50	59	59	56	49	79	53	95
269	269	271	279	269	272	288	289	310
298	283	298	294	303	293	311	319	335
149	227	182	184	181	166	191	216	241
147	225	182	182	183	167	191	215	244
299	294	297	292	302	303	313	318	333
147	66	139	133	178	128	165	106	74
150	227	182	184	183	167	192	215	243
276	263	273	265	274	272	277	293	311
198	205	201	206	221	225	208	219	234
224	194	223	226	232	234	249	235	244
158	208	184	141	164	164	174	177	277
150	226	182	183	183	166	191	213	244
267	267	271	281	269	274	290	286	309
230	238	247	236	227	247	250	249	269
289	291	303	298	306	309	313	320	327
121	192	163	159	157	144	171	202	219
163	71	158	152	192	142	184	122	85
193	182	216	195	221	193	209	200	235
133	213	169	171	173	156	173	195	233
302	298	308	307	313	316	320	336	341
270	266	268	281	266	271	286	279	302
150	225	181	183	182	165	190	213	243
234	224	249	215	212	242	237	236	259
136	112	150	125	155	137	136	144	148
75	108	121	86	90	98	83	119	109
141	216	173	170	172	160	185	202	236
149	225	180	182	180	166	190	215	240
148	165	199	159	135	173	151	210	151
303	298	306	305	313	314	323	329	344
239	231	260	223	217	252	258	248	263
130	128	168	175	159	169	164	177	144
289	282	285	292	299	299	298	323	335
273	268	274	232	272	253	267	262	291

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277	233	273	272	273	259	277	276	281
293	289	299	284	296	307	315	319	330
209	201	239	234	233	226	239	249	282
149	222	178	181	182	164	187	215	238
304	298	302	298	309	314	317	331	340
292	285	290	292	298	302	312	318	329

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RW3	RJC	RAE	RBL	RGR	RQ6	R1K	RN7	RHW
349	347	372	377	383	387	390	395	394
290	270	299	287	286	321	297	312	319
174	126	205	172	151	177	166	152	180
47	59	51	80	63	98	66	61	189
169	161	247	205	209	217	214	181	236
329	335	353	349	355	377	366	376	389
292	312	334	311	331	360	340	345	366
342	341	368	367	374	385	384	387	395
247	235	262	282	283	259	263	264	273
296	292	312	338	325	359	336	341	357
200	146	222	183	179	200	189	178	220
51	66	56	93	69	110	69	71	219
274	283	320	331	321	300	329	327	361
317	338	350	352	356	369	362	373	387
232	180	268	239	227	241	221	205	257
232	182	272	243	227	242	223	204	258
327	338	352	350	365	375	369	366	395
124	189	143	103	177	92	174	179	152
231	181	272	244	227	240	223	206	258
296	306	334	341	345	343	330	347	350
220	238	232	244	264	245	256	260	284
240	268	268	269	265	280	280	273	293
169	161	249	211	211	218	214	183	236
232	180	271	242	227	240	226	206	259
267	283	320	332	315	298	327	323	360
256	271	284	299	289	311	285	295	297
333	330	361	358	368	377	364	380	390
208	148	243	205	187	217	193	176	219
132	208	153	118	195	101	185	203	174
225	225	246	214	222	251	251	237	274
213	171	243	234	216	230	210	191	241
341	341	368	366	375	384	387	380	395
273	283	315	330	320	295	324	321	356
231	180	269	243	226	240	223	205	259
269	252	245	255	271	293	284	274	304
155	171	169	138	147	160	200	174	183
114	80	129	107	100	130	143	109	129
219	179	263	233	215	236	213	195	248
232	179	269	243	226	241	222	206	256
192	141	208	175	160	210	213	209	216
342	348	364	374	376	387	377	389	398
282	256	250	265	283	315	298	295	325
198	179	210	166	164	211	211	187	170
322	326	354	352	348	370	339	367	361
287	280	283	301	308	337	336	338	341

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274	317	323	327	331	337	320	338	347
334	333	345	351	360	372	364	365	383
247	265	280	264	243	272	278	262	296
229	180	266	241	224	239	218	205	256
345	344	364	371	374	385	378	383	396
330	327	348	354	369	368	354	373	387

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RNL	RCX	RPA	RWH	RM2	RR7	RNS	RN3	RGN
406	407	409	421	423	428	432	425	432
318	319	343	332	338	342	347	358	329
164	179	184	216	242	189	207	202	201
97	70	76	130	74	102	108	71	95
193	208	218	232	336	248	212	244	252
383	374	397	405	402	416	422	409	405
363	341	374	382	373	382	393	384	366
399	399	401	418	414	419	429	422	431
297	305	292	320	249	290	307	297	327
355	341	351	369	373	396	397	364	381
188	186	221	251	280	206	233	222	224
119	84	93	168	87	114	123	82	113
343	366	379	375	377	383	381	396	393
382	374	398	402	399	412	418	409	397
225	231	266	293	330	251	269	288	275
225	235	265	291	331	249	269	289	276
388	387	394	403	409	409	416	406	405
196	184	199	172	114	179	251	245	176
226	232	265	290	329	250	270	288	277
353	351	382	374	366	355	389	386	382
311	245	262	298	296	314	301	297	277
326	288	292	308	279	320	338	323	323
194	210	220	230	335	248	212	247	256
226	233	266	295	331	253	269	289	275
343	364	376	376	373	383	376	395	395
322	303	325	325	326	315	342	313	333
390	385	398	409	407	403	419	409	415
197	198	230	249	308	231	243	248	236
216	198	226	199	123	204	271	274	204
261	254	268	294	273	299	306	302	260
215	221	247	265	308	233	258	264	264
395	396	406	413	420	423	427	421	428
343	357	376	370	375	374	374	391	389
225	228	265	293	330	250	271	290	274
288	266	291	302	306	329	336	307	299
180	182	198	222	185	212	207	211	177
111	106	110	131	160	129	144	115	105
214	226	250	286	317	241	257	279	267
222	230	266	292	329	248	267	289	274
187	203	213	199	229	214	249	230	179
402	397	409	416	417	418	425	421	426
304	281	307	323	322	349	355	320	305
206	206	221	221	227	223	226	235	189
380	380	378	386	393	400	422	399	394
320	309	368	363	337	367	390	384	369

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364	349	365	368	345	379	392	388	363
383	388	393	400	412	412	418	405	407
295	281	317	324	299	316	313	337	314
224	230	261	287	322	246	267	289	273
399	394	403	413	417	418	426	416	421
381	382	398	401	401	407	414	408	412

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RVW	RNZ	RDE	RLN	RWY	RGQ	RXP	RXH	RXK
439	442	446	464	465	479	494	499	500
375	338	369	391	356	376	401	378	418
207	171	202	183	172	190	214	226	215
96	67	110	70	76	127	70	108	104
234	241	211	210	241	202	244	304	280
423	419	436	444	440	454	470	462	485
391	380	411	405	419	409	422	425	460
431	441	441	453	457	467	488	497	491
279	311	332	349	341	353	387	349	324
393	379	402	420	395	386	429	430	446
235	205	216	215	209	230	227	240	245
121	77	139	73	90	150	81	130	124
375	383	384	391	404	408	408	413	437
419	420	434	443	449	448	475	465	485
274	252	257	254	270	266	279	307	298
277	251	258	255	270	268	282	305	299
412	431	437	441	455	443	462	483	473
237	193	210	219	235	237	244	156	242
276	251	257	253	272	269	281	307	299
385	377	400	411	408	410	436	438	455
274	282	293	332	295	304	350	310	322
352	306	336	343	347	373	380	345	355
234	239	215	212	244	205	243	311	277
276	252	258	254	274	271	283	310	300
375	383	379	384	401	406	402	410	434
331	348	321	352	359	369	375	403	375
412	428	426	447	449	458	478	473	475
244	218	221	220	227	221	244	257	268
261	215	228	231	255	250	274	181	258
292	275	309	301	294	270	288	306	339
261	224	242	239	244	248	261	289	276
431	435	446	457	458	464	482	490	493
378	379	374	379	405	409	400	410	427
274	250	257	254	272	270	281	306	299
331	313	362	345	329	359	384	325	354
217	183	191	204	223	202	207	208	244
125	115	132	159	138	122	170	134	153
266	237	253	241	261	260	279	293	288
276	250	253	254	271	268	279	306	298
212	215	214	291	243	222	278	204	254
432	436	444	455	462	469	486	490	495
342	326	383	364	338	380	393	346	363
250	194	209	284	233	212	264	241	307
425	403	415	439	424	420	462	485	478
361	365	379	395	385	386	397	405	399

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404	389	395	397	403	438	428	412	421
409	422	439	443	446	455	467	479	476
314	307	356	335	324	356	331	351	375
275	247	250	254	271	264	280	306	300
432	436	444	455	457	471	480	486	491
405	421	429	438	437	453	460	471	458

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RD1	RJL	RXF	RQ8	RXQ	RTF	RD3	RW6	RNA
496	507	511	517	519	530	538	543	547
400	403	440	422	414	439	432	437	440
200	241	233	232	203	191	234	220	245
118	83	82	74	54	96	153	100	67
263	256	264	309	284	219	274	237	301
473	492	482	483	491	515	513	507	512
443	455	462	448	459	484	484	478	478
494	502	499	511	512	522	528	528	536
362	394	379	383	389	396	397	426	395
435	444	452	445	436	464	454	468	477
242	259	276	263	243	213	290	246	271
141	95	88	84	59	119	185	125	81
395	452	424	446	451	430	473	458	476
478	490	486	500	497	515	515	505	515
295	312	320	305	308	258	337	299	326
297	312	321	307	306	258	338	301	329
480	489	491	500	504	516	523	517	524
205	289	284	244	263	321	266	166	285
299	311	316	305	307	260	340	301	328
457	432	457	450	443	446	461	486	480
353	321	351	332	343	395	371	373	349
336	398	396	401	381	426	392	389	418
265	257	272	311	290	220	275	238	306
297	311	321	307	309	260	337	298	329
396	453	425	448	451	420	475	455	475
375	388	393	416	410	413	411	408	418
483	478	494	496	497	526	515	518	525
260	273	272	257	254	232	288	260	262
228	315	316	261	293	352	290	181	315
291	340	337	329	305	353	349	336	344
272	294	291	293	292	235	326	279	310
487	502	504	510	507	524	525	537	540
392	450	425	446	449	421	471	443	470
296	311	318	305	307	257	339	301	329
342	391	341	394	363	400	438	354	359
217	214	240	229	216	235	231	246	253
131	132	181	134	141	165	182	206	145
290	292	304	301	299	246	338	282	318
293	311	316	305	307	258	337	299	329
223	256	296	226	208	334	342	335	240
497	495	506	512	518	530	534	535	542
368	399	359	414	388	424	463	370	381
237	304	292	262	219	309	264	298	318
464	468	482	484	461	489	492	497	506
453	371	405	434	428	473	423	425	420

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433	459	448	456	462	481	479	452	497
476	493	472	498	496	515	526	507	517
357	374	381	369	388	385	404	381	431
294	308	317	304	302	254	335	300	323
494	499	507	508	514	530	529	527	538
474	485	479	490	504	508	495	519	517

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RA9	RA2	RTX	RXC	RXL	RBA	RAJ	RRK	RHU
562	591	595	601	616	628	636	644	661
440	444	458	442	508	474	493	512	533
227	301	218	240	285	255	291	373	307
175	131	79	69	83	139	178	119	240
324	399	273	294	318	332	299	398	402
532	560	571	578	594	595	620	613	631
497	536	524	521	552	555	584	577	590
563	581	581	589	609	620	623	644	649
411	451	434	476	456	451	449	475	482
484	537	521	518	540	543	567	564	580
263	363	248	276	317	298	333	423	371
211	170	85	78	107	169	226	150	266
521	501	520	508	511	539	536	559	593
539	562	563	579	589	602	613	616	625
321	454	314	334	370	359	401	504	452
323	454	315	333	372	361	402	507	451
553	569	570	583	598	602	615	617	640
210	189	293	290	301	304	323	215	336
321	454	314	334	371	361	402	504	452
496	518	493	534	542	558	556	566	593
347	408	406	406	402	420	405	439	439
426	402	465	439	471	449	479	455	466
328	400	271	294	321	328	299	404	401
323	454	315	333	372	363	402	506	452
511	496	523	502	513	529	534	555	591
432	450	462	473	476	478	472	529	517
554	568	577	584	580	607	605	629	616
285	394	250	289	337	308	334	451	399
234	222	324	327	331	337	355	243	366
367	355	352	368	400	385	431	403	450
305	425	289	305	348	327	377	490	422
557	579	587	597	608	617	631	642	650
513	498	525	500	500	528	531	553	588
318	452	315	332	373	359	402	506	450
415	454	427	465	487	464	468	452	461
226	255	229	241	263	284	298	301	323
137	151	147	151	184	140	186	210	200
314	439	296	321	362	353	387	495	446
318	452	313	332	370	358	399	504	447
215	268	306	279	354	243	337	321	293
564	578	591	599	612	619	626	649	652
422	465	443	500	514	477	490	472	507
291	233	321	288	322	283	323	356	335
534	547	561	552	570	588	592	604	615
427	527	491	511	459	581	526	538	498

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507	487	539	539	534	551	553	557	575
546	567	559	587	602	597	613	614	637
456	404	436	395	454	438	520	426	519
312	452	312	332	366	359	399	504	448
561	574	588	596	612	614	624	640	643
543	553	579	575	595	589	602	623	625

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RXR	RJ7	RR1	RYR	RXN	RYJ	RX1	RWD	RL4
668	661	689	702	712	713	729	733	735
558	520	552	526	571	559	587	591	592
278	332	348	263	302	397	404	304	336
101	115	109	91	310	196	240	237	165
300	378	447	334	414	428	473	346	375
642	640	665	654	680	696	689	711	705
601	595	614	611	653	670	666	657	658
660	657	683	693	711	706	715	729	723
497	452	508	492	545	510	537	529	544
582	598	601	599	641	632	646	644	656
295	367	402	307	343	407	449	347	389
126	132	130	116	372	228	294	269	199
585	563	642	595	632	611	666	632	633
637	635	652	657	685	688	701	696	707
351	435	482	365	406	495	549	413	448
348	438	484	363	407	493	548	414	451
640	643	669	676	692	691	712	700	705
317	324	347	367	240	382	338	368	373
351	438	482	364	407	497	550	414	454
567	588	618	633	632	624	662	655	654
489	455	462	445	486	506	517	540	489
517	481	506	523	530	574	526	549	550
307	375	448	334	419	428	477	348	374
351	443	484	365	411	497	549	413	454
582	563	638	603	634	610	669	624	635
505	501	514	534	571	551	551	555	560
644	642	659	674	691	686	708	693	695
311	387	414	310	366	465	481	331	395
346	347	389	393	282	414	372	407	430
421	434	440	439	464	515	511	493	478
328	403	459	345	372	463	511	386	423
659	651	678	693	714	709	722	725	724
578	557	631	600	627	608	654	628	629
350	435	482	363	408	496	546	407	451
500	501	492	501	532	582	559	495	516
311	346	296	285	292	409	370	322	348
266	202	219	163	243	268	213	205	207
335	416	454	350	386	473	519	404	439
349	439	480	362	403	494	544	412	448
473	300	362	282	396	387	334	345	342
655	661	680	693	707	710	718	719	723
534	527	506	525	553	614	569	518	541
365	349	378	298	354	415	394	394	417
642	619	667	632	691	654	681	701	695
509	592	592	578	574	625	610	585	553

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579	578	578	622	631	633	622	633	650
644	645	653	672	687	697	706	682	686
475	478	524	530	507	551	586	555	571
350	434	480	363	401	494	543	414	446
653	652	672	688	698	710	716	709	715
625	629	658	672	692	675	679	693	700

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RN5	RDU	RBV	RA7	REF	RAL	RKB	RTR	RJZ
733	738	751	759	763	765	796	807	809
621	577	621	628	591	602	649	659	625
334	288	423	343	305	348	397	400	394
138	100	198	232	188	163	184	208	145
410	391	405	410	380	422	419	458	387
713	697	733	723	716	723	757	780	771
665	648	698	676	662	684	715	736	741
733	728	742	749	757	752	776	797	800
548	537	578	573	572	524	598	656	573
645	628	661	670	676	655	703	710	711
396	348	448	403	340	387	429	453	423
159	119	231	284	224	187	210	244	165
636	652	632	640	656	677	676	697	663
710	707	736	725	709	728	759	782	764
454	432	547	467	419	472	508	536	495
455	433	547	467	422	469	502	535	497
722	708	733	735	729	733	765	787	782
350	289	359	429	309	280	370	423	341
458	432	549	468	422	470	503	534	491
644	654	666	631	666	673	699	684	734
479	495	536	522	542	520	526	595	509
543	540	579	559	534	557	608	633	595
410	393	403	413	379	427	429	457	382
456	433	547	467	423	473	508	536	492
638	652	631	638	656	675	673	696	667
578	586	598	588	579	578	615	606	625
714	713	732	734	729	747	755	772	781
387	385	474	416	369	419	450	467	430
393	321	397	472	339	310	414	464	376
477	454	512	514	477	498	532	531	554
431	411	514	425	401	439	481	496	462
720	731	753	747	757	762	782	797	801
634	641	625	635	650	656	672	673	663
455	430	546	469	420	472	507	534	486
546	557	519	595	551	556	624	579	605
327	341	376	365	363	376	390	357	413
154	200	269	227	211	238	243	264	233
447	422	532	439	403	439	477	514	475
457	430	545	468	420	470	504	529	493
280	367	480	334	383	379	395	426	412
727	732	746	751	752	758	785	804	800
578	585	553	624	588	592	638	601	633
328	352	421	399	352	380	436	406	413
673	672	704	696	720	719	731	760	756
578	667	615	628	620	677	611	660	706

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630	647	678	666	638	652	704	725	702
709	712	714	728	728	738	769	758	778
521	516	543	607	542	558	629	594	603
452	428	540	465	421	469	505	527	488
723	729	752	744	742	752	776	796	794
708	705	728	708	717	718	748	768	765

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RHM	RTG	R1H	RK9	RXW	RR8	RWP	RWF	RJE
839	852	887	916	928	956	962	962	971
694	692	708	743	765	778	777	734	849
462	433	427	412	401	543	385	346	458
206	224	251	220	225	293	209	277	251
506	482	454	516	458	644	454	430	532
796	815	869	869	906	906	921	937	934
727	763	819	798	848	855	867	876	893
827	842	880	904	922	936	955	946	963
631	623	617	684	671	712	743	717	679
742	754	791	795	827	852	822	839	853
552	470	470	467	439	616	456	401	530
248	258	285	253	267	349	253	332	282
725	722	772	797	816	834	809	832	851
802	808	860	862	891	924	913	922	936
636	563	531	570	528	736	549	486	613
637	564	534	574	528	740	550	485	611
802	827	855	875	896	928	925	935	943
353	416	534	440	525	380	496	488	533
637	561	534	574	528	739	551	487	615
710	753	786	780	794	831	827	860	845
549	586	614	647	692	647	727	690	695
590	647	716	657	731	709	698	724	749
503	486	457	512	453	648	457	436	522
638	561	533	575	530	741	551	488	614
725	728	778	799	807	831	806	831	847
640	675	679	711	710	737	748	760	779
790	821	858	885	894	925	938	937	935
575	489	479	506	469	660	479	413	529
390	471	569	489	574	434	546	530	587
555	570	651	591	630	635	597	628	658
590	542	486	541	506	695	518	471	560
822	833	877	900	915	945	958	950	957
720	722	765	794	801	825	804	827	844
633	562	527	573	529	737	550	487	609
606	603	677	646	674	739	619	677	751
383	395	543	387	446	439	447	433	468
276	273	333	220	277	345	300	226	322
619	549	510	549	500	721	527	475	586
635	561	527	567	527	735	546	488	611
426	465	502	375	453	514	552	414	612
826	845	876	903	926	950	962	956	966
647	624	717	693	718	786	660	710	773
395	425	572	428	490	483	441	460	541
774	792	836	860	873	895	909	875	894
640	685	780	722	767	781	801	882	754

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714	773	793	800	841	839	851	883	863
805	827	841	868	877	925	920	926	949
602	641	683	738	706	739	675	708	720
632	562	518	566	526	733	549	484	606
821	843	869	903	905	939	958	948	960
796	806	837	860	894	900	931	922	915

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RGT	RWA	RJ1	RRV	RH8	RVV	RM1	RTD	RTE
977	1004	1034	1033	1047	1053	1207	1315	1320
795	845	855	805	821	821	955	1047	1057
494	561	468	506	444	412	494	678	515
254	261	255	200	244	212	298	301	345
574	584	551	511	583	594	643	804	685
944	975	1010	1013	995	1001	1149	1257	1269
893	912	955	965	914	908	1079	1183	1173
955	997	1026	1015	1029	1041	1190	1297	1319
747	745	782	773	817	754	902	956	1002
845	892	927	915	919	901	1019	1162	1141
584	629	529	565	542	483	573	744	616
312	320	301	234	306	273	354	356	406
873	888	895	865	878	926	1063	1142	1153
946	978	1006	998	1012	1003	1146	1246	1261
678	750	631	659	648	600	707	903	753
676	751	633	658	645	607	708	901	752
956	990	1011	1007	1029	996	1155	1274	1283
486	509	517	526	448	477	576	523	685
682	750	632	661	648	604	708	907	754
853	848	913	900	890	922	1043	1122	1100
676	631	774	704	788	705	857	929	937
722	758	760	781	754	760	860	963	931
576	588	550	515	579	596	645	817	689
680	751	633	663	652	603	711	905	751
871	884	884	860	874	928	1060	1135	1137
741	776	788	798	808	798	932	992	1026
948	974	1002	1003	1016	994	1164	1256	1279
595	655	586	594	573	516	616	806	649
541	561	553	558	498	566	636	578	772
622	688	749	759	668	637	748	836	871
645	700	596	610	599	573	662	849	687
963	1002	1029	1026	1032	1043	1197	1304	1313
863	885	883	858	867	928	1047	1129	1141
676	751	623	662	646	603	710	901	750
767	680	785	861	778	659	913	916	865
455	481	552	590	438	399	480	538	584
277	281	409	357	288	299	331	492	358
657	736	610	640	626	584	689	871	725
678	749	633	657	643	597	704	903	753
451	468	593	542	510	574	574	781	665
966	999	1040	1036	1046	1042	1201	1292	1315
794	701	817	902	816	716	959	955	896
436	596	609	612	495	483	627	690	606
887	941	963	953	955	983	1133	1222	1212
880	748	930	940	901	893	958	1149	1011

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900	915	902	922	913	918	1067	1156	1149
949	971	1002	1013	1013	987	1160	1257	1242
724	783	817	801	853	724	961	939	1031
668	742	632	654	643	594	699	896	750
964	997	1028	1022	1030	1025	1195	1288	1300
935	965	986	968	1001	1010	1150	1233	1272

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RWE	RTH	RHQ	RPY
1421	1428	1494	1920
1146	1117	1258	1471
725	617	685	670
391	424	375	537
751	817	767	709
1358	1380	1436	1893
1290	1283	1356	1803
1396	1400	1471	1894
1047	1085	1102	1485
1257	1272	1336	1750
803	725	779	719
450	519	441	620
1212	1241	1222	1664
1356	1370	1438	1870
952	893	912	892
948	892	912	894
1366	1382	1446	1898
714	564	706	1036
950	893	917	890
1269	1230	1285	1639
1062	1033	1033	1347
1059	1025	1125	1528
759	815	764	712
951	897	911	893
1210	1241	1216	1665
1098	1126	1154	1494
1358	1375	1442	1877
835	779	826	772
782	624	779	1119
944	920	1058	1358
903	831	855	821
1399	1413	1481	1911
1210	1238	1199	1654
953	889	909	886
965	990	1096	1561
680	624	739	1110
462	392	543	562
921	860	889	861
947	892	904	889
750	638	879	960
1396	1420	1478	1938
997	1041	1123	1642
792	629	894	1031
1312	1295	1385	1786
1309	1274	1180	1743

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1259	1251	1317	1788
1350	1357	1422	1897
1015	1091	1213	1426
946	888	908	881
1385	1412	1471	1926
1338	1366	1421	1857

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Table 2. Porportions of patients reporting a positive experience by question and for each of the 146 h values correspond to the cells in Figure 2.

Note

Entries with NA come from hospitals which received less than 21 respondes for the corresponding question.

Questions \ Hospitals	RQX	RRJ	RT3	RMP	RPC	REP	RAN
Q10	0.71	0.70	0.81	0.82	0.74	0.75	0.73
Q49	0.50	0.41	0.64	0.65	0.67	0.60	0.57
Q35	NA	0.57	0.62	0.62	0.42	0.62	0.59
Q45	NA	NA	NA	0.77	NA	NA	NA
Q26	0.78	0.74	0.80	0.81	0.81	0.83	0.77
Q13	0.66	0.63	0.66	0.74	0.69	0.72	0.65
Q15	0.48	0.59	0.66	0.62	0.57	0.52	0.41
Q9	0.80	0.81	0.87	0.93	0.85	0.80	0.79
Q1	0.78	0.62	0.65	0.73	0.87	0.80	0.64
Q12	0.72	0.83	0.80	0.89	0.80	0.91	0.86
Q30	NA	0.52	0.71	0.76	0.85	0.80	0.68
Q44	NA	NA	NA	0.86	NA	NA	NA
Q7	0.74	0.73	0.83	0.79	0.75	0.85	0.70
Q14	0.52	0.48	0.64	0.76	0.63	0.71	0.62
Q34	0.90	0.96	0.90	0.93	0.88	0.97	0.94
Q37	NA	0.93	0.90	0.91	0.90	0.91	0.86
Q16	0.72	0.73	0.76	0.84	0.77	0.77	0.74
Q48	NA	NA	NA	NA	NA	NA	NA
Q31	0.71	0.71	0.81	0.81	0.76	0.80	0.70
Q11	0.62	0.68	0.59	0.75	0.72	0.66	0.66
Q53	0.76	0.41	0.60	0.67	0.72	0.58	0.51
Q41	0.70	NA	0.71	0.78	0.60	0.79	0.71
Q25	0.83	0.93	0.94	0.98	0.95	0.98	0.90
Q29	NA	0.89	0.90	0.91	0.90	0.94	0.87
Q6	0.89	0.85	0.91	0.85	0.93	0.87	0.67
Q55	0.17	0.36	0.37	0.49	0.26	0.35	0.28
Q54	0.62	0.47	0.63	0.69	0.67	0.61	0.45
Q36	0.81	0.77	0.91	0.94	0.89	0.90	0.83
Q47	NA	NA	NA	0.86	NA	NA	NA
Q21	0.58	0.74	0.85	0.85	0.84	0.91	0.77
Q38	NA	0.85	0.85	0.90	0.90	0.95	0.84
Q2	0.87	0.66	0.86	0.89	0.84	0.81	0.49
Q5	1.00	0.96	0.96	0.97	0.91	0.96	0.92
Q28	NA	0.86	0.76	0.87	0.76	0.89	0.76
Q19	NA	NA	0.94	0.93	0.84	0.88	0.80
Q23	NA	NA	NA	0.87	0.78	0.83	0.66
Q51	NA	NA	NA	0.63	NA	0.24	0.47
Q39	NA	0.82	0.95	0.96	0.91	0.97	0.91
Q32	NA	0.82	0.77	0.65	0.78	0.79	0.76
Q50	NA	0.57	0.33	0.69	0.55	0.39	0.57
Q56	0.83	0.88	0.96	0.92	0.90	0.93	0.82
Q18	NA	0.95	0.87	0.92	0.85	0.93	0.76

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Q22	NA	NA	0.50	0.81	0.46	0.77	0.67
Q8	0.77	0.77	0.79	0.81	0.74	0.72	0.74
Q52	0.84	0.92	0.87	1.00	0.95	0.95	0.91
Q42	0.91	1.00	0.97	0.97	0.92	1.00	0.95
Q17	0.72	0.89	0.94	0.97	0.82	0.96	0.87
Q20	NA	0.83	0.85	0.90	0.78	0.95	0.80
Q33	0.38	0.71	0.67	0.65	0.67	0.79	0.55
Q57	0.59	0.56	0.85	0.55	0.82	0.66	0.56
Q58	0.31	0.23	0.22	0.27	0.14	0.29	0.59

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ıospitals included in the analysis (CPES 2016). These

RGM	RBQ	R1F	RKE	RE9	RJ6	RVY	RA4	RJN
0.85	0.83	0.76	0.68	0.71	0.67	0.72	0.79	0.77
0.71	0.62	0.55	0.63	0.65	0.67	0.50	0.60	0.63
0.58	0.56	0.53	0.60	0.66	0.60	0.43	0.62	0.56
NA	NA	NA	NA	NA	NA	NA	NA	0.64
0.81	0.81	0.78	0.79	0.67	0.82	0.79	0.76	0.79
0.79	0.79	0.67	0.69	0.75	0.78	0.73	0.74	0.68
0.60	0.65	0.59	0.56	0.62	0.59	0.60	0.50	0.58
0.96	0.82	0.86	0.86	0.90	0.87	0.79	0.86	0.89
0.80	0.66	0.74	0.76	0.78	0.72	0.79	0.85	0.78
0.94	0.86	0.76	0.83	0.82	0.86	0.81	0.82	0.83
0.85	0.76	0.75	0.82	0.72	0.69	0.64	0.80	0.74
NA	NA	NA	0.82	NA	0.91	NA	0.91	0.89
0.89	0.74	0.80	0.78	0.75	0.78	0.85	0.75	0.88
0.69	0.69	0.62	0.73	0.76	0.71	0.60	0.76	0.68
0.92	0.84	0.75	0.91	0.88	0.87	0.78	0.85	0.83
0.94	0.89	0.85	0.93	0.91	0.87	0.85	0.91	0.88
0.93	0.81	0.72	0.75	0.79	0.75	0.81	0.85	0.85
NA	0.48	0.61	0.73	0.73	0.77	0.73	0.75	0.71
0.75	0.84	0.76	0.79	0.74	0.72	0.71	0.73	0.82
0.80	0.62	0.66	0.69	0.75	0.74	0.79	0.74	0.81
0.63	0.53	0.59	0.69	0.61	0.61	0.55	0.65	0.63
0.71	0.67	0.72	0.73	0.78	0.74	0.76	0.79	0.72
1.00	1.00	0.96	0.98	0.89	0.93	0.94	0.97	0.92
0.94	0.84	0.88	0.84	0.80	0.84	0.88	0.81	0.91
0.92	0.88	0.86	0.89	0.95	0.89	0.89	0.88	0.94
0.42	0.38	0.37	0.43	0.37	0.42	0.27	0.31	0.35
0.76	0.56	0.55	0.68	0.72	0.65	0.62	0.71	0.69
0.96	0.87	0.88	0.92	0.82	0.83	0.80	0.84	0.88
NA	NA	0.84	0.86	0.95	0.88	0.77	0.91	0.87
0.91	0.70	0.72	0.86	0.88	0.86	0.80	0.83	0.90
0.94	0.92	0.86	0.90	0.77	0.86	0.68	0.76	0.90
0.94	0.85	0.83	0.86	0.88	0.84	0.84	0.91	0.89
0.96	0.93	0.91	0.91	0.97	0.89	0.95	0.97	0.95
0.85	0.65	0.77	0.84	0.79	0.75	0.87	0.86	0.86
0.96	0.81	0.88	0.91	0.93	0.94	0.95	0.94	0.94
0.77	0.78	0.82	0.93	0.84	0.70	0.73	0.82	0.76
0.41	0.45	0.42	0.41	0.55	0.34	0.38	0.44	0.63
0.96	0.90	0.90	0.96	0.96	0.90	0.79	0.92	0.98
0.81	0.79	0.63	0.68	0.68	0.68	0.48	0.63	0.82
0.43	0.56	0.47	0.48	0.55	0.46	0.42	0.52	0.58
0.96	0.94	0.85	0.95	0.95	0.91	0.93	0.90	0.90
0.90	0.90	0.84	0.90	0.96	0.97	0.82	0.89	0.94

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0.62	0.52	0.50	0.83	0.64	0.46	0.39	0.70	0.55
0.87	0.79	0.74	0.79	0.90	0.81	0.70	0.83	0.78
0.95	0.94	0.93	0.93	0.99	0.95	0.97	0.97	0.97
0.98	0.96	0.94	0.96	0.97	0.97	1.00	0.98	0.97
0.91	0.90	0.90	0.97	0.96	0.88	0.84	0.88	0.94
0.92	0.74	0.81	0.96	0.86	0.88	0.82	0.86	0.87
0.83	0.70	0.55	0.72	0.77	0.49	0.71	0.69	0.71
0.78	0.68	0.77	0.68	0.82	0.70	0.70	0.84	0.72
0.51	0.34	0.07	0.38	0.24	0.28	0.11	0.25	0.24

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RAS	RFR	RAX	RWW	RM3	RQM	RVR	RJR	RC1
0.73	0.83	0.66	0.69	0.73	0.70	0.65	0.73	0.79
0.54	0.64	0.51	0.55	0.69	0.57	0.59	0.65	0.57
0.52	0.67	0.48	0.52	0.66	0.45	0.55	0.57	0.45
0.56	0.71	NA	0.50	0.55	0.63	NA	0.60	0.63
0.76	0.88	0.84	0.75	0.83	0.71	0.79	0.78	0.78
0.68	0.76	0.63	0.65	0.82	0.70	0.69	0.73	0.77
0.53	0.62	0.39	0.49	0.58	0.56	0.47	0.54	0.61
0.88	0.90	0.85	0.84	0.89	0.84	0.83	0.86	0.84
0.74	0.85	0.74	0.83	0.76	0.77	0.70	0.80	0.75
0.85	0.89	0.79	0.79	0.89	0.78	0.82	0.85	0.82
0.64	0.84	0.72	0.71	0.80	0.69	0.71	0.74	0.73
0.82	0.89	NA	0.75	0.89	0.89	NA	0.83	0.83
0.74	0.79	0.77	0.74	0.86	0.78	0.76	0.88	0.81
0.71	0.74	0.57	0.59	0.74	0.60	0.68	0.70	0.67
0.86	0.90	0.87	0.81	0.87	0.84	0.89	0.90	0.83
0.86	0.90	0.88	0.89	0.88	0.76	0.86	0.93	0.86
0.77	0.81	0.80	0.69	0.86	0.71	0.79	0.86	0.79
0.70	0.56	0.63	0.50	0.88	0.73	0.77	0.75	0.67
0.65	0.84	0.76	0.79	0.68	0.64	0.66	0.75	0.72
0.79	0.80	0.72	0.66	0.76	0.67	0.74	0.81	0.73
0.61	0.71	0.60	0.60	0.57	0.56	0.64	0.62	0.55
0.69	0.79	0.71	0.70	0.82	0.68	0.77	0.68	0.68
0.96	0.99	0.97	0.94	0.95	0.90	0.91	0.99	0.95
0.83	0.92	0.83	0.87	0.89	0.87	0.87	0.89	0.82
0.87	0.91	0.92	0.79	0.90	0.88	0.83	0.90	0.86
0.39	0.50	0.30	0.38	0.45	0.38	0.38	0.44	0.30
0.57	0.71	0.61	0.58	0.64	0.60	0.65	0.62	0.60
0.83	0.91	0.81	0.81	0.91	0.81	0.87	0.80	0.76
0.92	0.90	0.70	0.68	0.96	0.83	0.90	0.93	0.89
0.80	0.89	0.76	0.73	0.89	0.80	0.87	0.90	0.73
0.79	0.91	0.86	0.83	0.90	0.82	0.93	0.88	0.78
0.79	0.88	0.87	0.76	0.87	0.81	0.88	0.85	0.82
0.90	0.97	0.91	0.89	0.94	0.90	0.96	0.97	0.96
0.75	0.84	0.87	0.81	0.84	0.80	0.84	0.86	0.74
0.90	0.95	0.93	0.90	0.93	0.88	0.92	0.90	0.84
0.75	0.89	0.74	0.76	0.84	0.80	0.86	0.87	0.72
0.47	0.57	0.36	0.35	0.61	0.49	0.51	0.48	0.33
0.88	0.99	0.95	0.91	0.94	0.89	0.95	0.99	0.86
0.61	0.74	0.70	0.67	0.66	0.73	0.70	0.66	0.60
0.56	0.64	0.54	0.49	0.63	0.48	0.61	0.62	0.50
0.91	0.91	0.87	0.86	0.93	0.90	0.92	0.87	0.88
0.94	0.92	0.90	0.88	0.82	0.88	0.91	0.89	0.84

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0.56	0.62	0.53	0.64	0.59	0.50	0.61	0.60	0.43
0.69	0.82	0.60	0.73	0.78	0.61	0.78	0.83	0.71
0.97	0.93	0.91	0.93	0.97	0.93	0.97	0.97	0.98
0.97	0.96	0.97	0.94	0.98	0.93	0.98	0.97	0.99
0.85	0.99	0.90	0.85	0.94	0.84	0.92	0.90	0.85
0.81	0.87	0.79	0.75	0.84	0.85	0.91	0.93	0.79
0.71	0.70	0.49	0.69	0.76	0.49	0.63	0.69	0.54
0.66	0.73	0.78	0.75	0.75	0.64	0.68	0.73	0.64
0.24	0.30	0.14	0.10	0.37	0.23	0.30	0.22	0.13

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RFF	RJ2	RA3	RBT	REN	RRF	RAP	RMC	RLQ
0.76	0.66	0.71	0.73	0.74	0.70	0.64	0.81	0.76
0.63	0.52	0.56	0.63	0.59	0.59	0.48	0.65	0.62
0.54	0.56	0.40	0.51	0.62	0.54	0.45	0.69	0.47
0.63	0.61	NA	0.68	0.58	0.72	0.51	0.64	0.60
0.82	0.73	0.80	0.81	0.83	0.78	0.67	0.83	0.75
0.75	0.72	0.65	0.73	0.70	0.74	0.60	0.79	0.74
0.58	0.53	0.48	0.59	0.63	0.57	0.48	0.69	0.59
0.90	0.84	0.79	0.87	0.83	0.84	0.77	0.92	0.88
0.77	0.73	0.71	0.82	0.79	0.84	0.69	0.81	0.84
0.84	0.81	0.75	0.82	0.88	0.80	0.73	0.93	0.86
0.78	0.78	0.63	0.70	0.77	0.76	0.66	0.82	0.65
0.93	0.86	0.89	0.80	0.87	0.93	0.85	0.92	0.84
0.81	0.76	0.74	0.78	0.81	0.79	0.64	0.84	0.84
0.68	0.64	0.61	0.69	0.64	0.65	0.56	0.73	0.63
0.89	0.82	0.85	0.89	0.89	0.88	0.76	0.91	0.78
0.93	0.81	0.89	0.87	0.93	0.89	0.75	0.91	0.80
0.82	0.78	0.72	0.83	0.80	0.77	0.62	0.86	0.81
0.76	0.73	0.62	0.76	0.64	0.69	0.54	0.72	0.72
0.86	0.72	0.77	0.77	0.78	0.84	0.55	0.81	0.70
0.72	0.77	0.71	0.72	0.73	0.75	0.67	0.84	0.75
0.63	0.52	0.45	0.71	0.67	0.69	0.52	0.69	0.73
0.79	0.71	0.67	0.71	0.69	0.70	0.56	0.81	0.69
1.00	0.96	0.94	0.99	0.96	0.97	0.95	0.98	0.94
0.92	0.80	0.85	0.81	0.84	0.89	0.69	0.91	0.82
0.92	0.87	0.85	0.91	0.88	0.93	0.85	0.92	0.89
0.41	0.31	0.28	0.32	0.37	0.41	0.40	0.26	0.32
0.70	0.54	0.58	0.73	0.68	0.67	0.49	0.71	0.68
0.88	0.86	0.86	0.85	0.80	0.85	0.69	0.88	0.83
0.89	0.86	0.85	0.86	0.82	0.86	0.72	0.91	0.87
0.85	0.81	0.82	0.78	0.86	0.84	0.76	0.88	0.76
0.91	0.84	0.84	0.87	0.84	0.82	0.77	0.91	0.84
0.85	0.82	0.81	0.88	0.86	0.89	0.79	0.93	0.86
0.94	0.91	0.91	0.95	0.95	0.91	0.92	0.93	0.96
0.90	0.75	0.79	0.82	0.83	0.85	0.65	0.83	0.76
0.88	0.87	0.92	0.89	0.90	0.89	0.83	0.94	0.92
0.90	0.83	0.86	0.82	0.80	0.84	0.82	0.81	0.77
0.54	0.44	0.34	0.45	0.51	0.52	0.25	0.57	0.65
0.96	0.97	0.93	0.97	0.95	0.93	0.87	0.94	0.90
0.78	0.62	0.67	0.60	0.72	0.72	0.55	0.75	0.77
0.61	0.46	0.43	0.63	0.60	0.55	0.49	0.59	0.67
0.93	0.88	0.88	0.91	0.93	0.90	0.83	0.95	0.91
0.91	0.84	0.88	0.88	0.92	0.87	0.86	0.94	0.87

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0.62	0.62	0.69	0.54	0.61	0.51	0.56	0.63	0.55
0.74	0.72	0.75	0.75	0.77	0.87	0.71	0.88	0.74
0.95	0.92	0.98	0.93	0.95	0.97	0.90	0.97	0.95
0.96	0.95	0.97	0.96	0.96	0.95	0.92	0.98	0.97
0.89	0.95	0.90	0.93	0.88	0.91	0.91	0.92	0.89
0.88	0.84	0.83	0.83	0.91	0.86	0.84	0.91	0.84
0.65	0.63	0.74	0.78	0.65	0.80	0.39	0.75	0.70
0.81	0.69	0.71	0.75	0.76	0.86	0.50	0.81	0.74
0.18	0.18	0.27	0.15	0.20	0.17	0.26	0.16	0.28

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RLT	RDZ	RBK	RQQ	RBN	RDD	RFS	RTK	RCF
0.76	0.82	0.75	0.72	0.81	0.71	0.68	0.67	0.73
0.65	0.73	0.55	0.55	0.71	0.52	0.60	0.54	0.57
0.55	0.58	0.50	0.49	0.66	0.55	0.49	0.43	0.53
0.60	0.69	0.47	0.65	0.90	0.57	0.62	0.72	0.50
0.77	0.82	0.77	0.79	0.85	0.78	0.77	0.75	0.78
0.76	0.76	0.68	0.67	0.76	0.69	0.72	0.66	0.71
0.58	0.62	0.52	0.51	0.65	0.52	0.56	0.48	0.53
0.82	0.90	0.81	0.82	0.91	0.84	0.86	0.84	0.82
0.72	0.87	0.77	0.73	0.88	0.79	0.84	0.80	0.79
0.85	0.86	0.80	0.80	0.84	0.80	0.80	0.78	0.82
0.81	0.81	0.73	0.71	0.78	0.68	0.72	0.69	0.66
0.81	0.83	0.75	0.68	0.96	0.85	0.96	0.90	0.90
0.79	0.80	0.72	0.79	0.83	0.77	0.80	0.77	0.74
0.68	0.75	0.62	0.66	0.66	0.60	0.68	0.61	0.64
0.85	0.88	0.82	0.86	0.92	0.84	0.87	0.89	0.90
0.83	0.92	0.84	0.91	0.91	0.83	0.88	0.88	0.83
0.79	0.83	0.73	0.79	0.81	0.77	0.80	0.70	0.77
0.81	0.70	0.65	0.69	0.63	0.62	0.72	0.69	0.64
0.70	0.77	0.68	0.75	0.75	0.70	0.73	0.72	0.68
0.74	0.77	0.70	0.74	0.73	0.74	0.73	0.72	0.78
0.54	0.62	0.56	0.62	0.67	0.55	0.71	0.59	0.70
0.80	0.80	0.65	0.70	0.71	0.69	0.74	0.63	0.73
0.97	0.97	0.96	0.93	0.98	0.97	0.93	0.97	0.95
0.84	0.92	0.81	0.86	0.93	0.79	0.84	0.82	0.85
0.88	0.92	0.86	0.88	0.91	0.87	0.91	0.88	0.90
0.40	0.34	0.40	0.27	0.35	0.32	0.35	0.33	0.38
0.65	0.74	0.58	0.66	0.68	0.58	0.68	0.64	0.61
0.83	0.85	0.76	0.84	0.87	0.88	0.82	0.83	0.77
0.92	0.81	0.76	0.78	0.89	0.86	0.90	0.80	0.80
0.84	0.83	0.82	0.76	0.87	0.80	0.84	0.77	0.81
0.87	0.91	0.84	0.82	0.89	0.82	0.85	0.83	0.86
0.85	0.91	0.82	0.88	0.91	0.86	0.89	0.84	0.90
0.94	0.94	0.94	0.93	0.93	0.93	0.93	0.96	0.96
0.76	0.92	0.78	0.75	0.90	0.76	0.80	0.84	0.88
0.94	0.95	0.85	0.91	0.94	0.88	0.89	0.87	0.90
0.91	0.86	0.82	0.78	0.86	0.81	0.79	0.82	0.79
0.50	0.57	0.31	0.53	0.53	0.47	0.47	0.41	0.47
0.91	0.97	0.94	0.95	0.96	0.88	0.94	0.88	0.93
0.63	0.76	0.66	0.68	0.78	0.64	0.65	0.67	0.55
0.53	0.64	0.42	0.61	0.57	0.55	0.55	0.44	0.62
0.95	0.94	0.85	0.90	0.91	0.94	0.93	0.89	0.92
0.93	0.92	0.84	0.93	0.92	0.86	0.91	0.88	0.92

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0.61	0.52	0.70	0.50	0.63	0.60	0.44	0.44	0.63
0.73	0.89	0.74	0.73	0.73	0.73	0.74	0.70	0.78
0.97	0.97	0.92	0.95	0.96	0.94	0.96	0.97	0.98
0.98	0.99	0.92	0.96	0.98	0.95	0.96	0.95	0.98
0.92	0.93	0.89	0.89	0.90	0.90	0.83	0.89	0.86
0.86	0.90	0.83	0.83	0.92	0.78	0.86	0.77	0.86
0.66	0.73	0.67	0.53	0.71	0.56	0.72	0.72	0.72
0.77	0.77	0.64	0.75	0.82	0.79	0.66	0.76	0.57
0.29	0.19	0.29	0.25	0.11	0.13	0.20	0.18	0.31

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RWG	REM	RJF	RQW	RCB	RF4	RK5	RCD	RBZ
0.74	0.72	0.72	0.76	0.76	0.76	0.66	0.77	0.73
0.59	0.57	0.58	0.54	0.60	0.50	0.55	0.62	0.57
0.49	0.49	0.52	0.54	0.57	0.49	0.45	0.63	0.58
0.63	0.47	0.55	0.59	0.65	0.50	0.42	0.57	0.43
0.79	0.77	0.79	0.80	0.82	0.76	0.72	0.81	0.78
0.69	0.70	0.69	0.68	0.75	0.70	0.67	0.75	0.73
0.47	0.52	0.53	0.48	0.61	0.53	0.56	0.60	0.52
0.83	0.84	0.86	0.84	0.89	0.86	0.79	0.89	0.85
0.83	0.80	0.76	0.81	0.80	0.82	0.81	0.81	0.77
0.81	0.86	0.81	0.82	0.87	0.81	0.76	0.85	0.79
0.66	0.76	0.62	0.68	0.77	0.74	0.75	0.84	0.73
0.85	0.80	0.92	0.73	0.87	0.79	0.76	0.82	0.83
0.79	0.81	0.77	0.83	0.83	0.78	0.69	0.85	0.82
0.62	0.62	0.62	0.60	0.76	0.67	0.63	0.76	0.68
0.85	0.89	0.89	0.84	0.84	0.86	0.88	0.89	0.89
0.88	0.87	0.88	0.87	0.88	0.85	0.90	0.88	0.92
0.77	0.77	0.77	0.79	0.81	0.73	0.71	0.85	0.80
0.69	0.58	0.66	0.70	0.66	0.59	0.55	0.77	0.67
0.74	0.74	0.76	0.71	0.73	0.66	0.80	0.74	0.81
0.74	0.64	0.72	0.73	0.79	0.74	0.69	0.87	0.78
0.64	0.61	0.58	0.65	0.68	0.56	0.54	0.66	0.71
0.71	0.65	0.77	0.67	0.74	0.67	0.65	0.82	0.71
0.98	0.94	0.98	0.96	0.97	0.96	0.94	0.99	0.96
0.87	0.88	0.83	0.83	0.89	0.85	0.86	0.87	0.86
0.86	0.92	0.87	0.91	0.94	0.84	0.85	0.93	0.92
0.31	0.33	0.28	0.31	0.40	0.36	0.28	0.43	0.27
0.58	0.68	0.64	0.58	0.62	0.55	0.61	0.70	0.71
0.82	0.80	0.85	0.80	0.84	0.80	0.83	0.84	0.88
0.82	0.84	0.86	0.84	0.86	0.82	0.83	0.90	0.84
0.78	0.76	0.81	0.79	0.85	0.77	0.70	0.92	0.81
0.86	0.84	0.84	0.85	0.89	0.84	0.81	0.91	0.84
0.84	0.86	0.85	0.85	0.87	0.81	0.90	0.90	0.87
0.93	0.93	0.94	0.94	0.94	0.91	0.94	0.96	0.98
0.80	0.87	0.85	0.72	0.86	0.78	0.83	0.87	0.78
0.93	0.88	0.90	0.88	0.92	0.84	0.85	0.92	0.91
0.85	0.88	0.71	0.76	0.86	0.80	0.77	0.93	0.85
0.51	0.51	0.41	0.40	0.49	0.29	0.28	0.67	0.51
0.92	0.94	0.94	0.90	0.98	0.93	0.94	0.96	0.95
0.66	0.59	0.68	0.57	0.63	0.65	0.67	0.72	0.65
0.58	0.64	0.45	0.49	0.59	0.41	0.38	0.71	0.69
0.87	0.91	0.92	0.90	0.92	0.91	0.87	0.98	0.95
0.89	0.89	0.84	0.86	0.87	0.85	0.85	0.93	0.95

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0.57	0.55	0.53	0.50	0.69	0.47	0.42	0.86	0.59
0.73	0.75	0.82	0.72	0.73	0.73	0.78	0.77	0.78
0.96	0.94	0.97	0.94	0.98	0.90	0.96	0.97	0.97
0.94	0.97	0.96	0.94	0.96	0.97	0.97	0.99	0.97
0.90	0.89	0.91	0.91	0.92	0.94	0.87	0.97	0.91
0.89	0.80	0.74	0.81	0.87	0.71	0.72	0.92	0.83
0.68	0.69	0.72	0.62	0.68	0.52	0.82	0.82	0.85
0.64	0.70	0.49	0.70	0.77	0.64	0.61	0.84	0.71
0.12	0.20	0.27	0.27	0.24	0.23	0.19	0.24	0.23

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RTP	RWJ	RC9	RGP	RD8	RBD	RNQ	RP5	RVJ
0.74	0.75	0.75	0.73	0.65	0.75	0.77	0.72	0.79
0.56	0.52	0.62	0.60	0.47	0.56	0.54	0.54	0.56
0.45	0.47	0.57	0.54	0.44	0.52	0.52	0.51	0.49
0.66	0.64	0.62	0.67	0.68	0.69	0.61	0.50	0.50
0.73	0.80	0.82	0.73	0.73	0.80	0.85	0.78	0.74
0.72	0.69	0.75	0.68	0.68	0.70	0.72	0.64	0.70
0.50	0.55	0.56	0.52	0.47	0.51	0.53	0.54	0.54
0.82	0.83	0.87	0.81	0.81	0.85	0.86	0.85	0.87
0.83	0.77	0.76	0.76	0.80	0.78	0.79	0.77	0.77
0.84	0.81	0.85	0.77	0.78	0.81	0.83	0.80	0.84
0.67	0.74	0.76	0.76	0.72	0.76	0.75	0.74	0.74
0.92	0.86	0.92	0.85	0.86	0.84	0.81	0.81	0.82
0.76	0.81	0.83	0.79	0.70	0.84	0.78	0.76	0.79
0.66	0.63	0.68	0.66	0.63	0.66	0.67	0.61	0.64
0.88	0.81	0.88	0.88	0.87	0.86	0.87	0.87	0.94
0.94	0.88	0.88	0.88	0.85	0.90	0.92	0.85	0.88
0.79	0.75	0.80	0.76	0.72	0.80	0.74	0.72	0.83
0.71	0.77	0.71	0.59	0.53	0.71	0.68	0.58	0.68
0.69	0.74	0.74	0.77	0.68	0.81	0.72	0.75	0.75
0.77	0.76	0.72	0.73	0.63	0.71	0.74	0.71	0.75
0.58	0.62	0.60	0.65	0.54	0.68	0.61	0.59	0.60
0.70	0.72	0.71	0.74	0.65	0.73	0.68	0.71	0.73
0.96	0.96	0.96	0.96	0.90	0.97	0.97	0.97	0.96
0.85	0.83	0.86	0.83	0.84	0.84	0.86	0.81	0.86
0.87	0.92	0.87	0.86	0.87	0.91	0.84	0.87	0.84
0.30	0.31	0.45	0.34	0.31	0.31	0.30	0.32	0.40
0.60	0.60	0.62	0.65	0.55	0.62	0.56	0.53	0.65
0.81	0.84	0.83	0.86	0.83	0.85	0.87	0.85	0.83
0.88	0.86	0.92	0.81	0.81	0.85	0.88	0.74	0.82
0.79	0.77	0.85	0.77	0.80	0.81	0.77	0.79	0.87
0.89	0.87	0.86	0.80	0.82	0.83	0.86	0.84	0.91
0.83	0.87	0.84	0.83	0.83	0.84	0.82	0.83	0.83
0.95	0.96	0.96	0.93	0.92	0.98	0.94	0.92	0.92
0.86	0.80	0.78	0.75	0.77	0.82	0.78	0.83	0.87
0.84	0.89	0.86	0.91	0.86	0.92	0.84	0.83	0.90
0.88	0.82	0.86	0.82	0.69	0.77	0.80	0.77	0.73
0.35	0.51	0.52	0.45	0.30	0.48	0.42	0.35	0.40
0.94	0.93	0.93	0.94	0.91	0.98	0.91	0.92	0.92
0.70	0.64	0.66	0.58	0.53	0.67	0.62	0.57	0.68
0.49	0.55	0.70	0.53	0.39	0.62	0.47	0.54	0.57
0.86	0.90	0.92	0.93	0.87	0.89	0.83	0.83	0.85
0.82	0.84	0.87	0.93	0.81	0.91	0.80	0.81	0.83

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0.48	0.38	0.69	0.62	0.47	0.62	0.40	0.47	0.54
0.87	0.66	0.78	0.71	0.73	0.76	0.73	0.76	0.72
0.97	0.95	0.96	0.94	0.95	0.93	0.93	0.92	0.96
0.96	0.95	0.93	0.95	0.96	0.97	0.90	0.94	0.94
0.91	0.92	0.97	0.88	0.83	0.91	0.89	0.89	0.94
0.90	0.79	0.86	0.85	0.77	0.89	0.72	0.86	0.90
0.59	0.65	0.59	0.67	0.66	0.73	0.74	0.78	0.71
0.69	0.74	0.63	0.77	0.69	0.77	0.61	0.69	0.76
0.22	0.16	0.22	0.12	0.30	0.22	0.17	0.19	0.27

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RW3	RJC	RAE	RBL	RGR	RQ6	R1K	RN7	RHW
0.68	0.78	0.70	0.75	0.74	0.71	0.73	0.76	0.75
0.60	0.59	0.54	0.60	0.57	0.63	0.58	0.62	0.58
0.51	0.56	0.39	0.56	0.55	0.58	0.51	0.47	0.46
0.74	0.54	0.57	0.44	0.57	0.67	0.68	0.67	0.49
0.75	0.84	0.75	0.80	0.84	0.86	0.75	0.80	0.81
0.74	0.77	0.69	0.74	0.72	0.76	0.68	0.80	0.78
0.59	0.54	0.49	0.57	0.53	0.59	0.54	0.60	0.56
0.86	0.85	0.82	0.84	0.83	0.86	0.86	0.86	0.81
0.68	0.80	0.78	0.80	0.83	0.70	0.70	0.76	0.82
0.84	0.84	0.82	0.83	0.86	0.86	0.78	0.87	0.82
0.77	0.82	0.65	0.74	0.75	0.78	0.71	0.75	0.71
0.88	0.83	0.89	0.84	0.86	0.85	0.86	0.92	0.84
0.81	0.83	0.74	0.83	0.81	0.85	0.76	0.81	0.75
0.67	0.67	0.60	0.66	0.65	0.69	0.64	0.75	0.64
0.87	0.87	0.78	0.86	0.87	0.88	0.86	0.80	0.88
0.84	0.93	0.83	0.90	0.92	0.89	0.88	0.89	0.92
0.81	0.81	0.71	0.77	0.80	0.80	0.70	0.85	0.78
0.76	0.71	0.61	0.59	0.68	0.73	0.64	0.75	0.61
0.68	0.78	0.69	0.77	0.79	0.79	0.76	0.71	0.74
0.73	0.76	0.69	0.74	0.76	0.72	0.72	0.80	0.75
0.59	0.76	0.54	0.62	0.70	0.63	0.59	0.63	0.64
0.71	0.74	0.59	0.68	0.68	0.72	0.69	0.75	0.66
0.98	0.96	0.94	0.97	0.94	0.97	0.94	0.96	0.97
0.82	0.86	0.78	0.88	0.90	0.92	0.85	0.86	0.81
0.88	0.89	0.89	0.86	0.85	0.87	0.85	0.87	0.86
0.36	0.37	0.33	0.31	0.35	0.36	0.39	0.40	0.29
0.58	0.66	0.57	0.66	0.70	0.68	0.60	0.67	0.54
0.84	0.93	0.78	0.82	0.90	0.90	0.84	0.85	0.89
0.89	0.88	0.81	0.80	0.84	0.86	0.79	0.90	0.86
0.82	0.88	0.76	0.84	0.81	0.85	0.81	0.87	0.82
0.80	0.83	0.81	0.87	0.90	0.91	0.80	0.88	0.90
0.84	0.85	0.85	0.85	0.85	0.83	0.80	0.81	0.82
0.94	0.97	0.92	0.94	0.94	0.95	0.90	0.95	0.89
0.76	0.85	0.75	0.86	0.87	0.85	0.75	0.83	0.84
0.90	0.94	0.83	0.90	0.90	0.90	0.86	0.89	0.88
0.82	0.86	0.80	0.72	0.77	0.81	0.81	0.89	0.78
0.52	0.51	0.45	0.52	0.36	0.52	0.45	0.48	0.45
0.91	0.92	0.93	0.93	0.94	0.96	0.93	0.95	0.96
0.60	0.70	0.59	0.73	0.73	0.76	0.70	0.65	0.71
0.53	0.62	0.50	0.58	0.41	0.62	0.53	0.62	0.58
0.89	0.94	0.86	0.90	0.92	0.95	0.87	0.92	0.85
0.87	0.96	0.86	0.89	0.87	0.88	0.86	0.88	0.84

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0.65	0.72	0.52	0.48	0.55	0.52	0.52	0.60	0.49
0.77	0.71	0.81	0.85	0.68	0.72	0.71	0.77	0.76
0.94	0.96	0.94	0.95	0.96	0.98	0.96	0.95	0.94
0.96	0.97	0.94	0.95	0.98	0.97	0.96	0.92	0.95
0.93	0.88	0.83	0.90	0.86	0.91	0.89	0.91	0.95
0.82	0.91	0.81	0.85	0.81	0.85	0.79	0.85	0.82
0.69	0.76	0.68	0.71	0.67	0.74	0.53	0.62	0.63
0.70	0.88	0.63	0.77	0.64	0.72	0.62	0.75	0.67
0.32	0.24	0.27	0.21	0.26	0.37	0.26	0.25	0.16

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RNL	RCX	RPA	RWH	RM2	RR7	RNS	RN3	RGN
0.72	0.77	0.73	0.72	0.80	0.75	0.70	0.75	0.77
0.53	0.59	0.52	0.55	0.60	0.60	0.60	0.56	0.58
0.53	0.50	0.44	0.50	0.54	0.65	0.52	0.47	0.59
0.54	0.76	0.66	0.47	0.62	0.62	0.52	0.49	0.66
0.74	0.83	0.75	0.77	0.86	0.84	0.74	0.80	0.83
0.69	0.73	0.74	0.70	0.77	0.81	0.77	0.75	0.76
0.52	0.58	0.57	0.52	0.63	0.61	0.50	0.51	0.61
0.85	0.89	0.83	0.81	0.86	0.89	0.83	0.86	0.86
0.81	0.77	0.76	0.75	0.81	0.85	0.74	0.79	0.80
0.75	0.83	0.82	0.80	0.88	0.89	0.84	0.82	0.84
0.72	0.78	0.71	0.73	0.77	0.79	0.67	0.68	0.73
0.79	0.87	0.84	0.82	0.85	0.90	0.81	0.82	0.88
0.76	0.80	0.79	0.75	0.84	0.85	0.77	0.81	0.81
0.60	0.68	0.62	0.63	0.69	0.79	0.69	0.66	0.69
0.84	0.82	0.83	0.84	0.85	0.90	0.83	0.87	0.92
0.89	0.85	0.80	0.89	0.88	0.93	0.86	0.88	0.90
0.74	0.81	0.75	0.75	0.81	0.84	0.79	0.80	0.81
0.61	0.70	0.69	0.58	0.67	0.74	0.66	0.61	0.68
0.83	0.73	0.69	0.74	0.71	0.84	0.72	0.70	0.80
0.69	0.77	0.77	0.69	0.72	0.75	0.77	0.80	0.78
0.67	0.71	0.57	0.61	0.61	0.60	0.60	0.64	0.67
0.67	0.73	0.66	0.65	0.73	0.80	0.73	0.69	0.69
0.94	0.94	0.97	0.96	0.98	0.98	0.92	0.97	0.97
0.80	0.83	0.81	0.87	0.90	0.90	0.83	0.84	0.84
0.86	0.89	0.85	0.83	0.90	0.93	0.84	0.86	0.89
0.34	0.35	0.27	0.28	0.32	0.46	0.29	0.31	0.44
0.55	0.68	0.58	0.55	0.63	0.69	0.58	0.59	0.66
0.89	0.83	0.83	0.80	0.87	0.88	0.85	0.79	0.83
0.76	0.85	0.84	0.81	0.86	0.89	0.85	0.84	0.84
0.76	0.83	0.80	0.82	0.80	0.87	0.81	0.80	0.83
0.83	0.86	0.84	0.79	0.85	0.91	0.79	0.85	0.90
0.85	0.85	0.82	0.81	0.89	0.92	0.82	0.80	0.85
0.94	0.94	0.91	0.91	0.95	0.98	0.92	0.94	0.96
0.88	0.82	0.78	0.80	0.85	0.86	0.76	0.84	0.80
0.87	0.90	0.86	0.87	0.88	0.92	0.89	0.90	0.92
0.79	0.85	0.88	0.84	0.72	0.84	0.85	0.75	0.93
0.41	0.42	0.43	0.44	0.45	0.56	0.45	0.36	0.52
0.93	0.93	0.92	0.91	0.93	0.97	0.94	0.95	0.96
0.65	0.68	0.61	0.69	0.62	0.79	0.65	0.51	0.69
0.48	0.49	0.53	0.47	0.47	0.64	0.57	0.47	0.57
0.79	0.88	0.90	0.86	0.89	0.93	0.87	0.88	0.92
0.84	0.90	0.86	0.84	0.89	0.92	0.86	0.82	0.87

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0.50	0.56	0.65	0.59	0.56	0.64	0.66	0.63	0.67
0.76	0.76	0.69	0.69	0.76	0.83	0.80	0.76	0.75
0.96	0.93	0.96	0.96	0.93	0.97	0.94	0.97	0.98
0.91	0.96	0.96	0.94	0.97	0.96	0.93	0.96	0.96
0.85	0.87	0.90	0.87	0.92	0.95	0.93	0.90	0.91
0.77	0.84	0.82	0.88	0.86	0.84	0.81	0.88	0.88
0.79	0.73	0.51	0.59	0.62	0.71	0.68	0.73	0.74
0.70	0.73	0.65	0.49	0.67	0.78	0.68	0.60	0.67
0.16	0.26	0.22	0.23	0.34	0.19	0.23	0.34	0.23

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RVW	RNZ	RDE	RLN	RWY	RGQ	RXP	RXH	RXK
0.77	0.76	0.76	0.73	0.74	0.69	0.73	0.77	0.75
0.65	0.63	0.62	0.61	0.57	0.62	0.59	0.60	0.57
0.55	0.58	0.53	0.58	0.49	0.55	0.55	0.55	0.47
0.72	0.61	0.69	0.59	0.59	0.65	0.64	0.69	0.59
0.82	0.82	0.80	0.80	0.75	0.78	0.78	0.79	0.75
0.80	0.72	0.78	0.76	0.75	0.69	0.71	0.71	0.74
0.63	0.54	0.62	0.58	0.51	0.52	0.54	0.53	0.55
0.88	0.83	0.86	0.85	0.84	0.82	0.82	0.85	0.90
0.77	0.79	0.79	0.72	0.79	0.78	0.79	0.80	0.75
0.88	0.86	0.83	0.83	0.83	0.83	0.81	0.82	0.85
0.80	0.80	0.72	0.76	0.72	0.77	0.71	0.73	0.67
0.91	0.87	0.91	0.82	0.90	0.91	0.77	0.93	0.90
0.83	0.84	0.80	0.78	0.78	0.83	0.80	0.80	0.80
0.74	0.68	0.72	0.74	0.66	0.67	0.65	0.63	0.66
0.87	0.87	0.89	0.83	0.84	0.88	0.85	0.86	0.86
0.87	0.89	0.89	0.89	0.89	0.90	0.87	0.88	0.84
0.85	0.81	0.81	0.78	0.77	0.78	0.74	0.78	0.77
0.73	0.76	0.70	0.77	0.68	0.69	0.69	0.74	0.71
0.76	0.78	0.72	0.77	0.75	0.74	0.72	0.75	0.70
0.76	0.74	0.80	0.71	0.75	0.70	0.71	0.73	0.79
0.59	0.67	0.57	0.63	0.64	0.65	0.65	0.67	0.55
0.80	0.78	0.76	0.75	0.73	0.78	0.74	0.69	0.70
0.97	0.97	0.96	0.94	0.96	0.97	0.95	0.97	0.96
0.84	0.89	0.81	0.88	0.82	0.86	0.77	0.86	0.81
0.91	0.93	0.87	0.90	0.89	0.87	0.88	0.82	0.88
0.37	0.36	0.37	0.39	0.38	0.36	0.33	0.35	0.39
0.71	0.65	0.64	0.68	0.64	0.64	0.61	0.63	0.58
0.84	0.81	0.82	0.81	0.87	0.85	0.85	0.85	0.76
0.90	0.88	0.86	0.85	0.83	0.80	0.84	0.89	0.86
0.87	0.80	0.83	0.79	0.77	0.85	0.78	0.79	0.84
0.85	0.89	0.90	0.86	0.86	0.87	0.85	0.86	0.83
0.88	0.87	0.82	0.85	0.84	0.84	0.84	0.81	0.84
0.95	0.96	0.94	0.93	0.95	0.96	0.94	0.93	0.94
0.86	0.88	0.83	0.79	0.87	0.89	0.77	0.80	0.77
0.92	0.92	0.92	0.89	0.85	0.91	0.88	0.89	0.87
0.82	0.86	0.81	0.79	0.84	0.85	0.79	0.82	0.86
0.50	0.50	0.49	0.53	0.51	0.56	0.49	0.53	0.39
0.93	0.97	0.95	0.92	0.96	0.95	0.94	0.94	0.93
0.67	0.70	0.64	0.70	0.66	0.65	0.57	0.74	0.66
0.59	0.57	0.49	0.56	0.56	0.58	0.58	0.49	0.49
0.93	0.92	0.90	0.92	0.93	0.90	0.90	0.88	0.91
0.94	0.88	0.88	0.89	0.85	0.82	0.90	0.82	0.88

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	0.63	0.63	0.57	0.56	0.48	0.65	0.53	0.52	0.62
	0.87	0.71	0.77	0.79	0.74	0.72	0.72	0.88	0.87
	0.96	0.95	0.97	0.97	0.96	0.97	0.97	0.96	0.94
	0.98	0.97	0.95	0.97	0.96	0.97	0.96	0.95	0.93
	0.91	0.88	0.94	0.91	0.86	0.93	0.91	0.84	0.92
	0.84	0.82	0.89	0.80	0.75	0.88	0.77	0.85	0.79
	0.67	0.72	0.60	0.70	0.65	0.73	0.74	0.73	0.69
	0.81	0.79	0.72	0.78	0.74	0.71	0.76	0.65	0.61
	0.22	0.23	0.34	0.24	0.33	0.23	0.21	0.26	0.33

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RD1	RJL	RXF	RQ8	RXQ	RTF	RD3	RW6	RNA
0.70	0.72	0.74	0.72	0.77	0.75	0.70	0.69	0.74
0.59	0.53	0.56	0.63	0.55	0.65	0.62	0.51	0.59
0.48	0.52	0.55	0.54	0.51	0.49	0.55	0.53	0.52
0.64	0.63	0.63	0.72	0.69	0.57	0.60	0.52	0.60
0.78	0.82	0.77	0.84	0.77	0.79	0.81	0.73	0.80
0.75	0.72	0.78	0.75	0.72	0.81	0.70	0.69	0.76
0.55	0.52	0.55	0.53	0.55	0.62	0.51	0.54	0.55
0.84	0.80	0.82	0.83	0.85	0.88	0.85	0.85	0.86
0.77	0.76	0.77	0.81	0.76	0.81	0.78	0.74	0.75
0.84	0.81	0.83	0.84	0.83	0.87	0.82	0.82	0.84
0.74	0.72	0.75	0.72	0.71	0.77	0.77	0.73	0.73
0.89	0.91	0.88	0.89	0.83	0.91	0.85	0.90	0.91
0.81	0.77	0.81	0.79	0.82	0.84	0.78	0.78	0.80
0.65	0.69	0.72	0.70	0.63	0.77	0.70	0.63	0.66
0.88	0.87	0.89	0.86	0.84	0.87	0.89	0.84	0.84
0.90	0.90	0.87	0.91	0.90	0.88	0.90	0.86	0.88
0.81	0.76	0.78	0.79	0.78	0.81	0.78	0.74	0.77
0.71	0.69	0.73	0.75	0.69	0.79	0.65	0.67	0.67
0.75	0.80	0.71	0.73	0.80	0.78	0.76	0.69	0.77
0.77	0.68	0.74	0.76	0.73	0.74	0.70	0.73	0.74
0.67	0.58	0.58	0.58	0.65	0.66	0.66	0.57	0.56
0.71	0.68	0.76	0.74	0.70	0.81	0.73	0.65	0.67
0.95	0.95	0.94	0.98	0.94	0.93	0.96	0.95	0.98
0.85	0.86	0.83	0.85	0.84	0.87	0.88	0.82	0.84
0.90	0.85	0.88	0.87	0.87	0.91	0.91	0.88	0.84
0.34	0.35	0.38	0.33	0.30	0.38	0.36	0.35	0.35
0.63	0.62	0.64	0.62	0.61	0.67	0.65	0.57	0.62
0.83	0.88	0.83	0.89	0.84	0.84	0.87	0.80	0.85
0.82	0.85	0.87	0.87	0.86	0.89	0.82	0.84	0.87
0.80	0.81	0.80	0.84	0.81	0.83	0.81	0.78	0.82
0.84	0.81	0.81	0.88	0.86	0.83	0.88	0.76	0.89
0.87	0.84	0.86	0.85	0.87	0.86	0.84	0.86	0.85
0.95	0.94	0.95	0.93	0.95	0.97	0.96	0.91	0.94
0.84	0.80	0.83	0.80	0.86	0.88	0.89	0.80	0.83
0.92	0.89	0.89	0.90	0.87	0.92	0.93	0.83	0.89
0.85	0.74	0.83	0.79	0.78	0.82	0.76	0.78	0.78
0.40	0.42	0.43	0.47	0.33	0.57	0.52	0.40	0.39
0.92	0.95	0.94	0.93	0.94	0.90	0.95	0.90	0.94
0.61	0.66	0.56	0.72	0.74	0.68	0.71	0.63	0.59
0.46	0.50	0.52	0.53	0.44	0.63	0.65	0.48	0.45
0.93	0.84	0.91	0.89	0.91	0.91	0.92	0.86	0.88
0.90	0.90	0.90	0.86	0.80	0.91	0.91	0.82	0.84

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0.59	0.51	0.55	0.62	0.60	0.65	0.58	0.57	0.59
0.74	0.67	0.78	0.72	0.75	0.73	0.74	0.73	0.82
0.97	0.94	0.95	0.97	0.95	0.98	0.95	0.94	0.94
0.97	0.95	0.97	0.97	0.96	0.97	0.97	0.94	0.93
0.90	0.88	0.84	0.91	0.90	0.92	0.94	0.88	0.86
0.85	0.78	0.82	0.81	0.87	0.82	0.84	0.80	0.87
0.74	0.68	0.70	0.66	0.66	0.69	0.73	0.70	0.53
0.67	0.68	0.72	0.67	0.74	0.84	0.79	0.63	0.46
0.28	0.22	0.31	0.20	0.27	0.19	0.23	0.18	0.23

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RA9	RA2	RTX	RXC	RXL	RBA	RAJ	RRK	RHU
0.80	0.74	0.74	0.73	0.76	0.76	0.75	0.70	0.73
0.66	0.58	0.62	0.55	0.56	0.62	0.61	0.57	0.60
0.61	0.49	0.54	0.52	0.52	0.58	0.56	0.51	0.48
0.65	0.66	0.66	0.62	0.54	0.67	0.59	0.63	0.55
0.81	0.80	0.84	0.82	0.81	0.82	0.78	0.78	0.83
0.77	0.73	0.76	0.71	0.73	0.77	0.72	0.73	0.74
0.63	0.55	0.57	0.51	0.52	0.58	0.57	0.60	0.58
0.88	0.87	0.86	0.84	0.84	0.85	0.86	0.85	0.87
0.78	0.77	0.78	0.76	0.77	0.77	0.83	0.72	0.76
0.85	0.83	0.86	0.82	0.82	0.84	0.84	0.84	0.84
0.82	0.71	0.77	0.77	0.74	0.82	0.72	0.73	0.73
0.87	0.87	0.88	0.79	0.83	0.88	0.85	0.90	0.86
0.84	0.77	0.82	0.77	0.78	0.84	0.80	0.80	0.81
0.73	0.65	0.71	0.65	0.67	0.72	0.69	0.63	0.67
0.86	0.81	0.84	0.83	0.89	0.91	0.85	0.85	0.84
0.88	0.88	0.89	0.88	0.89	0.94	0.86	0.88	0.89
0.86	0.79	0.81	0.78	0.78	0.81	0.75	0.79	0.80
0.70	0.63	0.77	0.68	0.68	0.72	0.62	0.61	0.61
0.78	0.71	0.79	0.73	0.74	0.81	0.73	0.71	0.75
0.80	0.76	0.74	0.73	0.73	0.81	0.76	0.75	0.72
0.63	0.59	0.71	0.66	0.59	0.70	0.60	0.65	0.61
0.78	0.71	0.79	0.69	0.74	0.78	0.75	0.67	0.67
0.95	0.96	0.96	0.98	0.96	0.96	0.95	0.95	0.95
0.87	0.86	0.85	0.86	0.86	0.89	0.83	0.84	0.88
0.90	0.84	0.88	0.86	0.88	0.90	0.89	0.86	0.85
0.34	0.30	0.40	0.28	0.41	0.40	0.29	0.36	0.30
0.67	0.62	0.68	0.61	0.62	0.70	0.64	0.59	0.62
0.87	0.82	0.88	0.85	0.85	0.90	0.87	0.81	0.85
0.90	0.84	0.88	0.87	0.86	0.89	0.83	0.84	0.83
0.89	0.81	0.81	0.79	0.80	0.85	0.84	0.76	0.84
0.90	0.88	0.88	0.85	0.86	0.88	0.90	0.88	0.85
0.85	0.79	0.83	0.81	0.85	0.87	0.85	0.81	0.82
0.96	0.95	0.95	0.95	0.91	0.96	0.96	0.94	0.93
0.88	0.84	0.88	0.81	0.82	0.85	0.84	0.82	0.80
0.89	0.92	0.91	0.84	0.90	0.91	0.91	0.86	0.89
0.81	0.80	0.83	0.76	0.86	0.89	0.81	0.75	0.79
0.40	0.48	0.52	0.41	0.53	0.44	0.47	0.42	0.44
0.96	0.94	0.91	0.95	0.93	0.95	0.97	0.95	0.95
0.75	0.69	0.74	0.70	0.73	0.81	0.66	0.59	0.64
0.52	0.56	0.59	0.47	0.60	0.51	0.63	0.50	0.49
0.93	0.88	0.90	0.88	0.91	0.93	0.91	0.91	0.90
0.87	0.87	0.88	0.83	0.84	0.90	0.87	0.88	0.82

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0.75	0.38	0.65	0.51	0.61	0.60	0.57	0.57	0.51
0.81	0.75	0.81	0.71	0.76	0.77	0.74	0.80	0.80
0.94	0.95	0.97	0.97	0.96	0.98	0.98	0.94	0.94
0.97	0.94	0.95	0.96	0.98	0.98	0.93	0.96	0.96
0.92	0.90	0.90	0.93	0.95	0.92	0.89	0.90	0.91
0.92	0.82	0.85	0.75	0.83	0.88	0.92	0.76	0.89
0.68	0.67	0.73	0.78	0.53	0.73	0.55	0.64	0.63
0.77	0.65	0.74	0.67	0.71	0.86	0.70	0.64	0.66
0.20	0.25	0.30	0.22	0.21	0.26	0.24	0.39	0.24

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RXR	RJ7	RR1	RYR	RXN	RYJ	RX1	RWD	RL4
0.75	0.71	0.76	0.71	0.77	0.70	0.74	0.74	0.72
0.53	0.56	0.55	0.56	0.60	0.55	0.54	0.48	0.57
0.50	0.54	0.47	0.61	0.51	0.50	0.49	0.51	0.49
0.60	0.60	0.61	0.58	0.61	0.61	0.57	0.57	0.53
0.77	0.79	0.78	0.83	0.77	0.74	0.78	0.76	0.81
0.67	0.71	0.72	0.71	0.73	0.68	0.74	0.69	0.74
0.49	0.53	0.56	0.53	0.57	0.49	0.56	0.51	0.54
0.85	0.84	0.87	0.87	0.87	0.82	0.85	0.83	0.86
0.77	0.75	0.78	0.77	0.81	0.71	0.78	0.80	0.74
0.81	0.82	0.83	0.81	0.84	0.80	0.85	0.80	0.84
0.69	0.75	0.71	0.77	0.74	0.70	0.71	0.67	0.71
0.84	0.83	0.88	0.84	0.87	0.81	0.88	0.88	0.83
0.77	0.76	0.79	0.81	0.84	0.72	0.78	0.76	0.80
0.62	0.62	0.64	0.66	0.69	0.61	0.64	0.61	0.64
0.85	0.84	0.84	0.84	0.82	0.81	0.86	0.84	0.84
0.87	0.84	0.87	0.92	0.86	0.85	0.88	0.87	0.88
0.76	0.75	0.76	0.77	0.79	0.71	0.78	0.74	0.76
0.64	0.67	0.69	0.65	0.64	0.70	0.61	0.60	0.65
0.70	0.69	0.72	0.74	0.73	0.66	0.71	0.71	0.69
0.68	0.73	0.76	0.76	0.80	0.66	0.77	0.71	0.76
0.63	0.59	0.58	0.61	0.65	0.51	0.59	0.59	0.57
0.68	0.67	0.67	0.71	0.74	0.65	0.70	0.62	0.68
0.96	0.95	0.96	0.95	0.96	0.93	0.97	0.96	0.97
0.80	0.86	0.83	0.87	0.85	0.80	0.82	0.79	0.81
0.87	0.91	0.85	0.88	0.89	0.85	0.89	0.88	0.85
0.41	0.29	0.32	0.25	0.35	0.31	0.37	0.30	0.30
0.60	0.55	0.59	0.64	0.66	0.51	0.59	0.55	0.61
0.78	0.83	0.80	0.85	0.81	0.76	0.89	0.80	0.79
0.80	0.82	0.88	0.83	0.84	0.78	0.85	0.76	0.83
0.76	0.79	0.80	0.83	0.83	0.79	0.85	0.77	0.83
0.80	0.82	0.86	0.88	0.88	0.80	0.87	0.83	0.83
0.82	0.82	0.84	0.84	0.87	0.77	0.84	0.84	0.79
0.94	0.94	0.93	0.94	0.95	0.92	0.94	0.93	0.95
0.80	0.81	0.81	0.86	0.81	0.76	0.82	0.80	0.77
0.86	0.84	0.87	0.86	0.88	0.83	0.87	0.87	0.89
0.81	0.84	0.79	0.85	0.84	0.79	0.79	0.80	0.87
0.54	0.35	0.42	0.39	0.52	0.35	0.41	0.37	0.41
0.91	0.93	0.90	0.94	0.94	0.89	0.94	0.93	0.93
0.59	0.68	0.66	0.72	0.65	0.64	0.64	0.60	0.56
0.67	0.41	0.55	0.43	0.62	0.39	0.48	0.42	0.47
0.91	0.84	0.88	0.89	0.90	0.82	0.89	0.82	0.91
0.87	0.83	0.86	0.82	0.88	0.80	0.86	0.87	0.86

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0.53	0.51	0.56	0.53	0.56	0.56	0.51	0.50	0.59
0.85	0.73	0.89	0.77	0.86	0.68	0.80	0.77	0.85
0.94	0.93	0.96	0.96	0.94	0.90	0.95	0.94	0.96
0.95	0.95	0.95	0.95	0.96	0.93	0.96	0.92	0.94
0.93	0.89	0.89	0.90	0.92	0.94	0.93	0.86	0.89
0.80	0.81	0.82	0.83	0.87	0.85	0.90	0.78	0.82
0.67	0.55	0.62	0.77	0.69	0.59	0.73	0.65	0.59
0.69	0.55	0.66	0.69	0.73	0.60	0.63	0.67	0.58
0.20	0.31	0.19	0.29	0.16	0.50	0.35	0.30	0.22

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RN5	RDU	RBV	RA7	REF	RAL	RKB	RTR	RJZ
0.70	0.72	0.72	0.72	0.77	0.70	0.71	0.72	0.69
0.56	0.58	0.60	0.55	0.60	0.52	0.58	0.60	0.52
0.56	0.53	0.58	0.50	0.50	0.46	0.48	0.55	0.53
0.46	0.61	0.62	0.62	0.59	0.58	0.62	0.58	0.58
0.82	0.80	0.77	0.79	0.82	0.73	0.79	0.79	0.76
0.71	0.71	0.74	0.74	0.75	0.66	0.74	0.74	0.71
0.48	0.51	0.55	0.50	0.55	0.47	0.58	0.53	0.49
0.83	0.84	0.81	0.82	0.85	0.79	0.83	0.83	0.81
0.73	0.78	0.74	0.78	0.76	0.73	0.75	0.74	0.74
0.81	0.82	0.84	0.81	0.84	0.76	0.85	0.84	0.79
0.75	0.76	0.74	0.71	0.70	0.70	0.69	0.73	0.66
0.81	0.82	0.86	0.85	0.87	0.84	0.86	0.89	0.82
0.78	0.78	0.79	0.78	0.84	0.73	0.80	0.78	0.77
0.63	0.64	0.63	0.64	0.68	0.60	0.68	0.68	0.61
0.89	0.85	0.82	0.83	0.83	0.85	0.78	0.88	0.82
0.90	0.90	0.90	0.89	0.87	0.88	0.86	0.90	0.85
0.76	0.79	0.79	0.78	0.79	0.72	0.77	0.78	0.74
0.67	0.66	0.70	0.65	0.68	0.64	0.65	0.66	0.69
0.76	0.77	0.82	0.74	0.77	0.71	0.68	0.77	0.68
0.71	0.72	0.70	0.68	0.79	0.68	0.71	0.70	0.68
0.61	0.62	0.56	0.59	0.64	0.57	0.56	0.66	0.56
0.74	0.69	0.70	0.68	0.73	0.62	0.69	0.73	0.69
0.96	0.94	0.96	0.95	0.95	0.94	0.97	0.96	0.94
0.89	0.84	0.88	0.83	0.85	0.84	0.82	0.84	0.78
0.86	0.89	0.87	0.88	0.86	0.88	0.88	0.86	0.87
0.25	0.28	0.29	0.30	0.33	0.29	0.34	0.32	0.29
0.61	0.63	0.57	0.57	0.67	0.52	0.60	0.65	0.51
0.89	0.86	0.87	0.87	0.87	0.83	0.81	0.82	0.80
0.81	0.81	0.85	0.82	0.78	0.80	0.88	0.84	0.85
0.81	0.79	0.84	0.86	0.80	0.73	0.86	0.80	0.79
0.85	0.84	0.89	0.86	0.88	0.85	0.87	0.82	0.85
0.83	0.85	0.80	0.82	0.85	0.78	0.83	0.83	0.82
0.93	0.94	0.96	0.95	0.97	0.92	0.94	0.94	0.95
0.88	0.83	0.84	0.80	0.85	0.76	0.82	0.83	0.77
0.92	0.89	0.88	0.85	0.91	0.86	0.89	0.91	0.86
0.80	0.74	0.79	0.81	0.79	0.74	0.83	0.78	0.81
0.37	0.46	0.56	0.33	0.45	0.39	0.41	0.47	0.37
0.94	0.95	0.97	0.95	0.96	0.92	0.95	0.93	0.92
0.73	0.70	0.73	0.69	0.66	0.69	0.63	0.67	0.64
0.46	0.61	0.59	0.42	0.56	0.42	0.50	0.56	0.46
0.88	0.88	0.89	0.87	0.89	0.87	0.90	0.90	0.86
0.90	0.86	0.85	0.84	0.92	0.84	0.90	0.91	0.84

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0.51	0.50	0.57	0.59	0.60	0.50	0.59	0.50	0.48
0.69	0.69	0.70	0.75	0.79	0.68	0.74	0.78	0.76
0.94	0.96	0.94	0.95	0.96	0.93	0.94	0.97	0.93
0.95	0.95	0.96	0.95	0.97	0.96	0.96	0.96	0.93
0.91	0.90	0.88	0.94	0.92	0.89	0.92	0.90	0.89
0.79	0.83	0.85	0.88	0.82	0.80	0.86	0.83	0.83
0.73	0.63	0.64	0.65	0.79	0.55	0.55	0.75	0.60
0.66	0.66	0.61	0.67	0.68	0.65	0.68	0.72	0.56
0.23	0.16	0.36	0.35	0.33	0.31	0.33	0.25	0.33

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RHM	RTG	R1H	RK9	RXW	RR8	RWP	RWF	RJE
0.72	0.73	0.68	0.75	0.72	0.73	0.73	0.74	0.74
0.55	0.62	0.52	0.59	0.55	0.61	0.58	0.58	0.59
0.47	0.53	0.48	0.46	0.51	0.50	0.48	0.58	0.50
0.61	0.59	0.61	0.57	0.52	0.60	0.58	0.59	0.53
0.73	0.78	0.72	0.75	0.75	0.81	0.80	0.80	0.79
0.70	0.72	0.69	0.73	0.69	0.75	0.71	0.76	0.73
0.53	0.56	0.51	0.55	0.52	0.57	0.52	0.58	0.56
0.84	0.87	0.79	0.85	0.85	0.85	0.84	0.84	0.86
0.77	0.77	0.71	0.75	0.76	0.78	0.74	0.79	0.76
0.82	0.83	0.75	0.83	0.81	0.87	0.81	0.83	0.83
0.69	0.71	0.71	0.70	0.67	0.77	0.71	0.70	0.68
0.84	0.85	0.87	0.89	0.79	0.88	0.89	0.89	0.87
0.79	0.79	0.72	0.80	0.77	0.81	0.77	0.81	0.78
0.62	0.67	0.59	0.68	0.63	0.67	0.63	0.67	0.67
0.84	0.88	0.82	0.82	0.81	0.87	0.87	0.84	0.86
0.88	0.88	0.84	0.84	0.86	0.87	0.86	0.91	0.87
0.78	0.77	0.70	0.78	0.77	0.81	0.79	0.80	0.76
0.64	0.69	0.66	0.65	0.63	0.66	0.70	0.64	0.63
0.72	0.75	0.66	0.71	0.75	0.73	0.73	0.77	0.75
0.68	0.75	0.63	0.74	0.69	0.71	0.70	0.73	0.75
0.57	0.64	0.55	0.67	0.62	0.60	0.68	0.65	0.58
0.68	0.71	0.61	0.70	0.72	0.69	0.70	0.72	0.70
0.94	0.97	0.94	0.97	0.97	0.97	0.95	0.96	0.95
0.87	0.82	0.79	0.83	0.80	0.86	0.84	0.83	0.83
0.84	0.90	0.81	0.85	0.86	0.87	0.84	0.90	0.89
0.25	0.36	0.32	0.29	0.34	0.45	0.35	0.34	0.46
0.56	0.62	0.51	0.61	0.58	0.61	0.64	0.66	0.58
0.84	0.84	0.78	0.85	0.85	0.85	0.82	0.87	0.81
0.83	0.83	0.79	0.85	0.82	0.83	0.83	0.82	0.83
0.78	0.84	0.73	0.85	0.81	0.87	0.77	0.80	0.79
0.85	0.89	0.78	0.80	0.86	0.90	0.86	0.85	0.81
0.82	0.86	0.76	0.85	0.82	0.84	0.81	0.85	0.84
0.95	0.96	0.92	0.95	0.95	0.94	0.95	0.95	0.94
0.83	0.83	0.74	0.83	0.81	0.84	0.75	0.82	0.82
0.87	0.87	0.79	0.90	0.87	0.88	0.90	0.90	0.87
0.76	0.77	0.79	0.76	0.83	0.77	0.88	0.82	0.84
0.40	0.50	0.34	0.44	0.39	0.57	0.47	0.48	0.43
0.95	0.95	0.91	0.93	0.94	0.96	0.94	0.93	0.93
0.64	0.70	0.60	0.59	0.65	0.62	0.64	0.76	0.61
0.45	0.58	0.36	0.49	0.45	0.59	0.62	0.51	0.56
0.86	0.92	0.84	0.87	0.88	0.91	0.91	0.90	0.89
0.85	0.87	0.80	0.85	0.82	0.85	0.84	0.89	0.86

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0.41	0.56	0.48	0.56	0.57	0.61	0.49	0.61	0.58
0.70	0.78	0.72	0.87	0.81	0.69	0.82	0.71	0.80
0.92	0.97	0.95	0.94	0.96	0.96	0.95	0.96	0.95
0.95	0.96	0.94	0.96	0.94	0.97	0.98	0.95	0.95
0.90	0.91	0.91	0.91	0.91	0.94	0.84	0.87	0.92
0.81	0.84	0.75	0.89	0.86	0.90	0.79	0.86	0.83
0.69	0.77	0.55	0.64	0.69	0.73	0.74	0.62	0.66
0.60	0.72	0.49	0.67	0.69	0.70	0.70	0.70	0.68
0.41	0.25	0.35	0.27	0.23	0.45	0.32	0.25	0.21

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RGT	RWA	RJ1	RRV	RH8	RVV	RM1	RTD	RTE
0.74	0.73	0.73	0.67	0.76	0.74	0.78	0.76	0.75
0.58	0.56	0.59	0.57	0.65	0.53	0.58	0.60	0.59
0.54	0.53	0.50	0.50	0.57	0.47	0.50	0.55	0.47
0.61	0.61	0.60	0.59	0.61	0.56	0.68	0.61	0.59
0.82	0.76	0.77	0.73	0.84	0.77	0.77	0.81	0.82
0.73	0.73	0.73	0.68	0.75	0.71	0.70	0.75	0.72
0.53	0.55	0.59	0.50	0.58	0.49	0.51	0.61	0.53
0.82	0.85	0.83	0.81	0.86	0.83	0.84	0.87	0.85
0.72	0.75	0.75	0.70	0.78	0.79	0.77	0.78	0.78
0.84	0.83	0.83	0.78	0.86	0.80	0.83	0.85	0.82
0.75	0.76	0.70	0.72	0.79	0.69	0.71	0.78	0.74
0.82	0.89	0.87	0.82	0.85	0.86	0.88	0.87	0.86
0.79	0.78	0.75	0.75	0.82	0.77	0.81	0.83	0.82
0.67	0.67	0.67	0.61	0.71	0.57	0.66	0.70	0.67
0.86	0.87	0.84	0.84	0.87	0.82	0.87	0.86	0.86
0.90	0.89	0.88	0.85	0.91	0.85	0.88	0.89	0.90
0.81	0.77	0.77	0.75	0.82	0.75	0.77	0.83	0.77
0.72	0.68	0.66	0.69	0.69	0.61	0.65	0.70	0.67
0.74	0.73	0.75	0.70	0.82	0.74	0.70	0.79	0.75
0.71	0.65	0.69	0.64	0.76	0.68	0.72	0.72	0.68
0.60	0.58	0.56	0.55	0.72	0.61	0.66	0.64	0.65
0.73	0.72	0.67	0.65	0.76	0.66	0.70	0.72	0.69
0.95	0.95	0.97	0.94	0.98	0.94	0.96	0.95	0.97
0.85	0.85	0.84	0.82	0.88	0.85	0.85	0.90	0.87
0.90	0.85	0.90	0.83	0.91	0.84	0.87	0.88	0.88
0.30	0.35	0.35	0.32	0.29	0.31	0.31	0.33	0.23
0.62	0.61	0.53	0.51	0.69	0.58	0.65	0.65	0.62
0.84	0.84	0.81	0.80	0.88	0.82	0.82	0.86	0.89
0.82	0.83	0.85	0.83	0.85	0.80	0.82	0.87	0.85
0.80	0.82	0.81	0.81	0.89	0.76	0.81	0.82	0.82
0.87	0.87	0.89	0.84	0.85	0.87	0.85	0.86	0.84
0.83	0.82	0.81	0.74	0.87	0.81	0.83	0.84	0.83
0.95	0.92	0.94	0.95	0.97	0.93	0.94	0.96	0.95
0.84	0.81	0.78	0.79	0.85	0.81	0.84	0.84	0.84
0.91	0.90	0.85	0.86	0.92	0.86	0.89	0.88	0.89
0.80	0.85	0.79	0.78	0.86	0.72	0.77	0.76	0.83
0.42	0.42	0.39	0.35	0.53	0.38	0.48	0.53	0.48
0.95	0.95	0.95	0.93	0.96	0.93	0.94	0.94	0.93
0.70	0.60	0.73	0.68	0.79	0.65	0.56	0.71	0.66
0.52	0.48	0.46	0.44	0.63	0.51	0.56	0.61	0.58
0.91	0.88	0.89	0.88	0.92	0.84	0.92	0.90	0.90
0.85	0.87	0.82	0.83	0.90	0.78	0.85	0.89	0.85

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0.55	0.59	0.55	0.59	0.66	0.51	0.63	0.49	0.57
0.71	0.71	0.75	0.73	0.75	0.67	0.75	0.74	0.76
0.97	0.95	0.94	0.94	0.97	0.96	0.95	0.97	0.93
0.96	0.97	0.96	0.96	0.97	0.93	0.98	0.97	0.97
0.94	0.88	0.92	0.94	0.91	0.85	0.94	0.89	0.84
0.85	0.83	0.84	0.86	0.94	0.77	0.89	0.81	0.88
0.62	0.71	0.60	0.66	0.79	0.63	0.67	0.79	0.77
0.62	0.66	0.62	0.53	0.73	0.66	0.76	0.69	0.61
0.51	0.26	0.47	0.54	0.27	0.22	0.22	0.27	0.23

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RWE	RTH	RHQ	RPY
0.68	0.73	0.74	0.71
0.56	0.62	0.59	0.58
0.47	0.53	0.53	0.59
0.57	0.57	0.61	0.63
0.78	0.80	0.77	0.82
0.68	0.74	0.76	0.70
0.50	0.58	0.57	0.53
0.81	0.83	0.82	0.80
0.73	0.79	0.76	0.73
0.81	0.83	0.85	0.79
0.67	0.74	0.72	0.78
0.86	0.85	0.90	0.90
0.76	0.79	0.78	0.80
0.61	0.66	0.67	0.64
0.83	0.89	0.83	0.85
0.85	0.90	0.87	0.92
0.75	0.79	0.78	0.77
0.62	0.66	0.69	0.73
0.72	0.75	0.77	0.80
0.70	0.74	0.69	0.69
0.57	0.68	0.61	0.55
0.66	0.70	0.69	0.72
0.95	0.95	0.97	0.97
0.80	0.87	0.85	0.87
0.83	0.88	0.88	0.90
0.29	0.34	0.34	0.26
0.59	0.63	0.61	0.55
0.81	0.85	0.83	0.89
0.79	0.82	0.87	0.87
0.76	0.83	0.83	0.79
0.84	0.89	0.87	0.88
0.81	0.82	0.84	0.78
0.94	0.94	0.94	0.97
0.77	0.83	0.82	0.85
0.87	0.89	0.89	0.86
0.78	0.75	0.80	0.80
0.44	0.44	0.46	0.39
0.94	0.95	0.96	0.97
0.62	0.73	0.67	0.79
0.51	0.54	0.56	0.48
0.88	0.88	0.89	0.91
0.87	0.85	0.87	0.83

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0.55	0.59	0.59	0.57
0.75	0.73	0.76	0.82
0.97	0.96	0.93	0.97
0.95	0.96	0.95	0.96
0.89	0.89	0.91	0.94
0.76	0.88	0.89	0.82
0.75	0.73	0.67	0.65
0.56	0.68	0.64	0.59
0.32	0.43	0.37	0.56

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Table 3. Main central grid: Reliability of hospital scores by question for each of the 146 hospitals inclu
between hospital variance starting with the question with the lowest variance (Q10 with between h
sizes, starting with the hospital with the lowest sample size (RQX with sample size equal to 31). These

Notes

- The **between hospital variance** is given in a log-odds scale. These variances are the direct output
- The **sample size** is the number of completed questionnaires received by the corresponding hospit
- Entries with NA come from hospitals which received less than 21 respondes for the corresponding

	Sample Size	31	32	53	71	71
Between Hospital Variance	Hospitals / Questions	RQX	RRJ	RT3	RMP	RPC
0.0151	Q10	0.09	0.09	0.11	0.14	0.17
0.0154	Q49	0.08	0.09	0.14	0.18	0.16
0.0159	Q35	NA	0.08	0.11	0.14	0.11
0.0162	Q45	NA	NA	NA	0.06	NA
0.0168	Q26	0.06	0.08	0.11	0.11	0.14
0.0178	Q13	0.10	0.11	0.15	0.18	0.19
0.0182	Q15	0.11	0.11	0.13	0.21	0.19
0.0198	Q9	0.09	0.09	0.11	0.08	0.14
0.0200	Q1	0.07	0.09	0.12	0.18	0.11
0.0207	Q12	0.11	0.06	0.13	0.11	0.15
0.0216	Q30	NA	0.11	0.16	0.14	0.10
0.0227	Q44	NA	NA	NA	0.06	NA
0.0234	Q7	0.11	0.11	0.13	0.19	0.20
0.0249	Q14	0.15	0.16	0.21	0.23	0.27
0.0273	Q34	0.05	0.03	0.11	0.09	0.13
0.0280	Q37	NA	0.05	0.11	0.11	0.11
0.0280	Q16	0.14	0.14	0.20	0.20	0.26
0.0293	Q48	NA	NA	NA	NA	NA
0.0296	Q31	0.11	0.14	0.18	0.19	0.21
0.0321	Q11	0.18	0.16	0.22	0.27	0.27
0.0328	Q53	0.11	0.15	0.22	0.27	0.22
0.0332	Q41	0.14	NA	0.16	0.22	0.24
0.0337	Q25	0.10	0.06	0.09	0.03	0.09
0.0349	Q29	NA	0.09	0.14	0.14	0.14
0.0350	Q6	0.09	0.11	0.11	0.21	0.12
0.0371	Q55	0.11	0.19	0.25	0.31	0.29
0.0374	Q54	0.20	0.23	0.30	0.35	0.36
0.0383	Q36	0.11	0.15	0.12	0.10	0.15
0.0387	Q47	NA	NA	NA	0.09	NA
0.0395	Q21	0.19	0.15	0.14	0.21	0.17
0.0414	Q38	NA	0.12	0.20	0.16	0.16
0.0439	Q2	0.13	0.24	0.21	0.24	0.29
0.0475	Q5	0.00	0.04	0.08	0.08	0.18
0.0483	Q28	NA	0.14	0.30	0.23	0.30

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	0.0497	**Q19**	NA	NA	0.09	0.16	0.23
	0.0532	**Q23**	NA	NA	NA	0.19	0.17
	0.0564	**Q51**	NA	NA	NA	0.28	NA
	0.0607	**Q39**	NA	0.20	0.10	0.10	0.18
	0.0615	**Q32**	NA	0.20	0.34	0.43	0.35
	0.0727	**Q50**	NA	0.29	0.28	0.48	0.34
	0.0740	**Q56**	0.24	0.21	0.12	0.29	0.32
	0.0778	**Q18**	NA	0.07	0.25	0.26	0.32
	0.0793	**Q22**	NA	NA	0.34	0.37	0.32
	0.0836	**Q8**	0.28	0.31	0.40	0.47	0.53
	0.0849	**Q52**	0.22	0.14	0.31	0.00	0.19
	0.0881	**Q42**	0.14	0.00	0.08	0.15	0.29
	0.0936	**Q17**	0.35	0.20	0.21	0.15	0.48
	0.1046	**Q20**	NA	0.26	0.31	0.36	0.45
	0.1084	**Q33**	0.35	0.38	0.54	0.57	0.54
	0.1341	**Q57**	0.49	0.51	0.44	0.70	0.57
	0.1930	**Q58**	0.54	0.47	0.62	0.72	0.60

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ıded in the analysis (CPES 2016). The questions are ordered according to their
ospital variance equal to 0.0151). The hospitals are ordered according to their sample
values correspond to the cells in Figure 3.

of each of the 51 fitted logisted regression models.
al.
; question.

73	74	76	102	108	111	112	115	122
REP	**RAN**	**RGM**	**RBQ**	**R1F**	**RKE**	**RE9**	**RJ6**	**RVY**
0.17	0.18	0.12	0.18	0.23	0.27	0.26	0.28	0.26
0.20	0.19	0.18	0.23	0.24	0.24	0.24	0.23	0.25
0.16	0.14	0.11	0.19	0.16	0.16	0.14	0.16	0.12
NA	NA	NA	NA	NA	NA	NA	NA	NA
0.13	0.15	0.11	0.17	0.16	0.14	0.15	0.14	0.13
0.20	0.21	0.15	0.22	0.28	0.29	0.27	0.25	0.29
0.23	0.21	0.20	0.27	0.29	0.30	0.30	0.31	0.31
0.18	0.19	0.05	0.23	0.20	0.20	0.16	0.20	0.28
0.16	0.21	0.13	0.24	0.21	0.24	0.22	0.24	0.23
0.10	0.13	0.07	0.18	0.26	0.23	0.23	0.19	0.24
0.15	0.21	0.11	0.22	0.20	0.14	0.19	0.23	0.17
NA	NA	NA	NA	NA	0.07	NA	0.04	NA
0.14	0.25	0.14	0.27	0.27	0.26	0.30	0.29	0.22
0.26	0.28	0.26	0.34	0.38	0.34	0.32	0.36	0.40
0.05	0.09	0.09	0.23	0.28	0.11	0.14	0.19	0.19
0.13	0.18	0.07	0.18	0.21	0.09	0.11	0.20	0.16
0.26	0.27	0.12	0.30	0.37	0.35	0.34	0.36	0.32
NA	NA	NA	0.13	0.16	0.24	0.23	0.17	0.20
0.24	0.28	0.23	0.24	0.29	0.22	0.25	0.31	0.24
0.32	0.31	0.25	0.39	0.40	0.39	0.37	0.39	0.36
0.28	0.31	0.28	0.37	0.36	0.36	0.40	0.37	0.40
0.21	0.26	0.25	0.32	0.34	0.34	0.34	0.34	0.34
0.03	0.15	0.00	0.00	0.09	0.03	0.13	0.14	0.09
0.12	0.20	0.09	0.28	0.22	0.21	0.24	0.26	0.16
0.18	0.34	0.16	0.23	0.30	0.22	0.14	0.26	0.24
0.31	0.27	0.36	0.40	0.44	0.42	0.43	0.41	0.40
0.39	0.40	0.34	0.47	0.49	0.45	0.45	0.47	0.51
0.17	0.24	0.07	0.25	0.21	0.12	0.22	0.24	0.21
NA	NA	NA	NA	0.14	0.21	0.10	0.15	0.26
0.13	0.23	0.13	0.36	0.35	0.29	0.24	0.23	0.32
0.11	0.26	0.10	0.19	0.26	0.16	0.28	0.26	0.28
0.33	0.44	0.14	0.36	0.40	0.36	0.33	0.40	0.41
0.08	0.18	0.12	0.21	0.28	0.26	0.12	0.32	0.18
0.23	0.36	0.25	0.47	0.39	0.27	0.31	0.40	0.23

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0.23	0.28	0.09	0.36	0.30	0.27	0.24	0.16	0.16
0.15	0.28	0.17	0.25	0.23	0.17	0.26	0.33	0.32
0.20	0.35	0.23	0.44	0.33	0.33	0.32	0.31	0.33
0.11	0.22	0.10	0.30	0.28	0.10	0.10	0.28	0.32
0.40	0.41	0.33	0.45	0.52	0.43	0.43	0.50	0.43
0.40	0.49	0.38	0.58	0.53	0.52	0.52	0.50	0.51
0.26	0.44	0.18	0.29	0.50	0.26	0.26	0.40	0.36
0.22	0.44	0.30	0.36	0.48	0.41	0.23	0.13	0.49
0.36	0.43	0.41	0.53	0.53	0.42	0.57	0.49	0.51
0.55	0.53	0.40	0.58	0.62	0.59	0.43	0.58	0.66
0.19	0.28	0.20	0.29	0.32	0.32	0.08	0.29	0.20
0.00	0.20	0.08	0.20	0.29	0.25	0.20	0.20	0.00
0.21	0.42	0.37	0.46	0.46	0.21	0.26	0.50	0.58
0.23	0.46	0.28	0.60	0.58	0.29	0.52	0.45	0.58
0.54	0.62	0.45	0.65	0.67	0.56	0.52	0.67	0.52
0.69	0.70	0.63	0.74	0.71	0.76	0.69	0.76	0.77
0.73	0.77	0.77	0.81	0.56	0.82	0.79	0.79	0.69

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133	136	138	141	147	151	152	158	170
RA4	**RJN**	**RAS**	**RFR**	**RAX**	**RWW**	**RM3**	**RQM**	**RVR**
0.25	0.27	0.29	0.23	0.33	0.32	0.31	0.33	0.37
0.27	0.26	0.30	0.30	0.30	0.30	0.30	0.30	0.31
0.16	0.14	0.19	0.19	0.20	0.20	0.24	0.20	0.18
NA	0.11	0.09	0.07	NA	0.09	0.10	0.11	NA
0.19	0.17	0.18	0.12	0.17	0.19	0.18	0.19	0.16
0.30	0.34	0.33	0.30	0.35	0.36	0.28	0.36	0.37
0.34	0.35	0.35	0.34	0.33	0.37	0.37	0.38	0.39
0.24	0.21	0.22	0.20	0.26	0.28	0.22	0.29	0.32
0.21	0.22	0.28	0.21	0.29	0.23	0.27	0.28	0.35
0.25	0.26	0.23	0.19	0.28	0.29	0.21	0.33	0.30
0.17	0.17	0.25	0.17	0.25	0.25	0.25	0.22	0.25
0.04	0.07	0.09	0.06	NA	0.11	0.07	0.07	NA
0.34	0.21	0.34	0.31	0.34	0.36	0.27	0.34	0.36
0.36	0.41	0.40	0.39	0.45	0.45	0.41	0.46	0.46
0.22	0.20	0.21	0.17	0.24	0.27	0.26	0.24	0.18
0.15	0.16	0.21	0.17	0.23	0.20	0.26	0.31	0.22
0.31	0.31	0.39	0.36	0.38	0.46	0.33	0.47	0.42
0.25	0.27	0.26	0.28	0.25	0.21	0.13	0.30	0.23
0.31	0.22	0.35	0.24	0.35	0.31	0.41	0.37	0.35
0.42	0.37	0.41	0.38	0.44	0.48	0.41	0.50	0.48
0.38	0.43	0.40	0.37	0.42	0.43	0.46	0.44	0.41
0.34	0.41	0.42	0.38	0.40	0.43	0.34	0.46	0.39
0.06	0.16	0.09	0.03	0.09	0.14	0.14	0.18	0.15
0.30	0.16	0.27	0.18	0.33	0.27	0.27	0.25	0.25
0.30	0.19	0.31	0.26	0.24	0.43	0.29	0.32	0.39
0.44	0.47	0.49	0.51	0.43	0.49	0.51	0.49	0.51
0.50	0.51	0.54	0.50	0.54	0.56	0.55	0.57	0.58
0.24	0.19	0.26	0.20	0.32	0.32	0.24	0.30	0.23
0.17	0.23	0.15	0.17	0.30	0.25	0.07	0.29	0.17
0.30	0.22	0.34	0.24	0.33	0.40	0.26	0.37	0.27
0.35	0.18	0.33	0.21	0.32	0.33	0.27	0.32	0.16
0.32	0.37	0.50	0.38	0.42	0.55	0.42	0.51	0.43
0.12	0.18	0.32	0.16	0.32	0.37	0.26	0.34	0.19
0.31	0.27	0.42	0.35	0.35	0.40	0.42	0.40	0.35

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0.19	0.22	0.33	0.22	0.24	0.33	0.27	0.36	0.33
0.30	0.35	0.37	0.22	0.35	0.38	0.31	0.37	0.24
0.27	0.32	0.35	0.41	0.32	0.34	0.46	0.38	0.33
0.25	0.06	0.33	0.06	0.22	0.31	0.26	0.33	0.19
0.53	0.38	0.54	0.49	0.56	0.54	0.61	0.52	0.52
0.43	0.56	0.53	0.59	0.50	0.61	0.61	0.57	0.53
0.46	0.46	0.45	0.45	0.55	0.57	0.41	0.50	0.47
0.43	0.31	0.34	0.42	0.43	0.47	0.57	0.49	0.46
0.54	0.49	0.56	0.60	0.47	0.59	0.62	0.57	0.50
0.59	0.64	0.70	0.62	0.71	0.70	0.66	0.73	0.69
0.25	0.20	0.25	0.39	0.44	0.39	0.25	0.42	0.25
0.15	0.25	0.20	0.30	0.25	0.37	0.15	0.43	0.21
0.55	0.38	0.60	0.16	0.52	0.62	0.44	0.65	0.51
0.52	0.52	0.62	0.54	0.61	0.65	0.61	0.59	0.49
0.64	0.59	0.64	0.65	0.72	0.67	0.68	0.70	0.67
0.70	0.78	0.80	0.78	0.76	0.78	0.78	0.82	0.83
0.82	0.82	0.82	0.84	0.76	0.72	0.86	0.83	0.86

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175	189	192	193	200	210	210	211	216
RJR	**RC1**	**RFF**	**RJ2**	**RA3**	**RBT**	**REN**	**RRF**	**RAP**
0.35	0.32	0.35	0.39	0.38	0.39	0.38	0.40	0.42
0.31	0.34	0.35	0.38	0.36	0.38	0.39	0.37	0.41
0.19	0.25	0.25	0.25	0.18	0.23	0.25	0.24	0.24
0.09	0.12	0.09	0.11	NA	0.07	0.35	0.08	0.24
0.19	0.27	0.20	0.24	0.20	0.24	0.12	0.25	0.25
0.36	0.36	0.36	0.40	0.42	0.41	0.43	0.40	0.46
0.40	0.41	0.40	0.45	0.45	0.45	0.46	0.44	0.46
0.29	0.33	0.24	0.33	0.38	0.32	0.36	0.35	0.42
0.29	0.33	0.32	0.36	0.38	0.31	0.36	0.29	0.36
0.30	0.32	0.30	0.36	0.38	0.34	0.29	0.37	0.42
0.24	0.30	0.25	0.25	0.27	0.30	0.27	0.28	0.31
0.09	0.12	0.04	0.09	0.06	0.08	0.29	0.04	0.19
0.27	0.37	0.36	0.41	0.42	0.42	0.39	0.41	0.47
0.46	0.49	0.48	0.52	0.52	0.51	0.53	0.53	0.55
0.18	0.31	0.24	0.30	0.24	0.23	0.23	0.26	0.34
0.14	0.29	0.17	0.31	0.20	0.25	0.17	0.26	0.35
0.37	0.45	0.42	0.47	0.52	0.44	0.48	0.49	0.57
0.25	0.27	0.29	0.41	0.39	0.26	0.37	0.31	0.49
0.33	0.41	0.29	0.39	0.32	0.37	0.36	0.32	0.44
0.44	0.51	0.50	0.50	0.53	0.54	0.53	0.52	0.57
0.47	0.51	0.47	0.52	0.49	0.46	0.53	0.49	0.56
0.44	0.50	0.41	0.50	0.51	0.49	0.54	0.51	0.57
0.03	0.16	0.00	0.11	0.16	0.03	0.06	0.12	0.11
0.24	0.38	0.24	0.37	0.29	0.37	0.34	0.29	0.45
0.33	0.41	0.28	0.39	0.42	0.35	0.39	0.30	0.44
0.55	0.54	0.56	0.52	0.52	0.55	0.59	0.61	0.60
0.60	0.61	0.59	0.63	0.63	0.60	0.62	0.63	0.65
0.30	0.42	0.27	0.30	0.27	0.33	0.37	0.35	0.41
0.15	0.19	0.24	0.37	0.33	0.25	0.35	0.28	0.53
0.24	0.45	0.36	0.46	0.40	0.45	0.42	0.40	0.53
0.27	0.45	0.25	0.36	0.31	0.33	0.36	0.40	0.42
0.48	0.55	0.50	0.55	0.56	0.48	0.51	0.47	0.60
0.19	0.24	0.29	0.38	0.39	0.31	0.27	0.41	0.36
0.33	0.52	0.34	0.49	0.42	0.44	0.43	0.42	0.54

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0.37	0.44	0.40	0.45	0.35	0.43	0.42	0.41	0.56
0.24	0.42	0.28	0.44	0.33	0.38	0.42	0.35	0.50
0.38	0.36	0.49	0.46	0.39	0.47	0.58	0.47	0.48
0.06	0.44	0.19	0.15	0.25	0.15	0.22	0.31	0.41
0.55	0.64	0.55	0.61	0.55	0.62	0.58	0.60	0.61
0.56	0.59	0.65	0.65	0.55	0.65	0.67	0.68	0.70
0.59	0.58	0.47	0.59	0.61	0.56	0.49	0.57	0.68
0.49	0.56	0.46	0.62	0.55	0.57	0.46	0.56	0.63
0.54	0.61	0.67	0.69	0.63	0.65	0.69	0.68	0.73
0.66	0.74	0.74	0.75	0.73	0.75	0.75	0.65	0.77
0.25	0.20	0.36	0.52	0.20	0.47	0.42	0.33	0.58
0.26	0.15	0.34	0.43	0.30	0.37	0.40	0.40	0.55
0.57	0.67	0.61	0.44	0.63	0.55	0.67	0.60	0.61
0.44	0.67	0.58	0.66	0.69	0.67	0.60	0.65	0.70
0.67	0.76	0.73	0.72	0.65	0.67	0.73	0.68	0.73
0.82	0.85	0.79	0.84	0.84	0.84	0.84	0.77	0.88
0.84	0.79	0.84	0.84	0.87	0.83	0.86	0.84	0.88

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219	221	241	245	250	251	252	252	259
RMC	**RLQ**	**RLT**	**RDZ**	**RBK**	**RQQ**	**RBN**	**RDD**	**RFS**
0.33	0.37	0.40	0.35	0.41	0.43	0.37	0.44	0.46
0.37	0.38	0.41	0.37	0.43	0.43	0.39	0.42	0.43
0.25	0.21	0.26	0.33	0.33	0.24	0.32	0.30	0.31
0.12	0.14	0.18	0.15	0.15	0.10	0.03	0.11	0.13
0.25	0.25	0.24	0.33	0.29	0.23	0.30	0.25	0.28
0.38	0.41	0.43	0.43	0.47	0.48	0.42	0.47	0.47
0.42	0.45	0.49	0.47	0.51	0.50	0.45	0.50	0.49
0.23	0.31	0.41	0.29	0.43	0.42	0.29	0.40	0.38
0.30	0.31	0.43	0.29	0.36	0.44	0.30	0.36	0.33
0.21	0.32	0.35	0.36	0.42	0.41	0.37	0.41	0.42
0.27	0.29	0.25	0.31	0.36	0.31	0.37	0.36	0.35
0.08	0.13	0.19	0.15	0.17	0.16	0.02	0.09	0.04
0.38	0.34	0.44	0.45	0.51	0.44	0.41	0.46	0.45
0.50	0.54	0.55	0.52	0.58	0.57	0.56	0.58	0.56
0.23	0.32	0.30	0.35	0.39	0.28	0.27	0.34	0.32
0.25	0.31	0.33	0.28	0.37	0.22	0.30	0.36	0.31
0.41	0.48	0.51	0.49	0.57	0.52	0.50	0.54	0.52
0.27	0.31	0.38	0.35	0.47	0.43	0.28	0.42	0.38
0.38	0.39	0.43	0.48	0.50	0.40	0.51	0.47	0.47
0.45	0.53	0.56	0.54	0.59	0.57	0.57	0.58	0.59
0.49	0.49	0.56	0.53	0.57	0.58	0.54	0.55	0.52
0.45	0.51	0.50	0.48	0.58	0.56	0.54	0.57	0.55
0.09	0.18	0.09	0.16	0.14	0.20	0.09	0.12	0.22
0.28	0.34	0.37	0.32	0.46	0.33	0.30	0.45	0.42
0.33	0.35	0.42	0.37	0.48	0.43	0.38	0.44	0.39
0.53	0.57	0.61	0.62	0.62	0.58	0.61	0.61	0.62
0.61	0.64	0.66	0.62	0.68	0.67	0.66	0.68	0.66
0.32	0.32	0.36	0.43	0.50	0.35	0.41	0.32	0.43
0.20	0.27	0.28	0.36	0.51	0.47	0.19	0.33	0.28
0.38	0.48	0.46	0.44	0.49	0.53	0.38	0.50	0.44
0.31	0.34	0.35	0.36	0.45	0.39	0.41	0.44	0.44
0.38	0.53	0.57	0.47	0.61	0.52	0.48	0.56	0.53
0.37	0.24	0.33	0.35	0.38	0.40	0.40	0.38	0.38
0.48	0.47	0.51	0.40	0.56	0.52	0.45	0.56	0.54

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0.30	0.35	0.34	0.30	0.53	0.45	0.32	0.47	0.44
0.38	0.45	0.33	0.37	0.51	0.45	0.41	0.46	0.49
0.47	0.44	0.47	0.50	0.46	0.51	0.52	0.54	0.55
0.31	0.35	0.36	0.26	0.34	0.26	0.29	0.46	0.31
0.62	0.52	0.64	0.67	0.68	0.61	0.66	0.67	0.68
0.66	0.67	0.65	0.69	0.68	0.71	0.70	0.70	0.73
0.41	0.57	0.46	0.51	0.69	0.62	0.60	0.49	0.55
0.42	0.58	0.49	0.53	0.66	0.49	0.52	0.63	0.51
0.66	0.66	0.71	0.66	0.74	0.72	0.69	0.70	0.69
0.65	0.77	0.79	0.65	0.79	0.79	0.79	0.79	0.79
0.33	0.42	0.29	0.29	0.52	0.42	0.36	0.49	0.39
0.21	0.34	0.30	0.21	0.57	0.40	0.26	0.43	0.40
0.56	0.66	0.61	0.58	0.68	0.68	0.67	0.66	0.76
0.59	0.69	0.68	0.63	0.75	0.73	0.57	0.76	0.69
0.74	0.69	0.74	0.79	0.78	0.76	0.81	0.79	0.77
0.82	0.85	0.85	0.85	0.88	0.86	0.83	0.84	0.88
0.84	0.89	0.90	0.87	0.90	0.89	0.82	0.84	0.88

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261	277	277	279	279	287	288	288	294
RTK	**RCF**	**RWG**	**REM**	**RJF**	**RQW**	**RCB**	**RF4**	**RK5**
0.46	0.45	0.44	0.46	0.45	0.44	0.44	0.44	0.50
0.44	0.45	0.44	0.46	0.46	0.46	0.46	0.45	0.47
0.27	0.31	0.32	0.36	0.34	0.32	0.39	0.35	0.38
0.08	0.14	0.12	0.22	0.14	0.14	0.14	0.32	0.12
0.29	0.28	0.34	0.34	0.30	0.28	0.35	0.34	0.39
0.49	0.49	0.48	0.50	0.50	0.51	0.48	0.50	0.52
0.51	0.51	0.50	0.54	0.53	0.52	0.52	0.54	0.53
0.41	0.44	0.43	0.42	0.39	0.43	0.35	0.40	0.48
0.36	0.42	0.35	0.36	0.44	0.41	0.41	0.36	0.41
0.43	0.41	0.43	0.38	0.43	0.43	0.37	0.44	0.49
0.37	0.38	0.42	0.39	0.43	0.40	0.42	0.38	0.41
0.06	0.09	0.10	0.23	0.08	0.19	0.12	0.33	0.15
0.47	0.51	0.48	0.47	0.51	0.47	0.46	0.51	0.57
0.59	0.60	0.59	0.60	0.60	0.61	0.55	0.60	0.62
0.28	0.29	0.39	0.34	0.33	0.38	0.45	0.38	0.38
0.30	0.39	0.35	0.38	0.34	0.35	0.40	0.39	0.35
0.60	0.57	0.56	0.57	0.58	0.55	0.54	0.61	0.62
0.36	0.50	0.29	0.36	0.49	0.44	0.44	0.47	0.40
0.46	0.52	0.51	0.52	0.49	0.51	0.57	0.55	0.50
0.60	0.56	0.60	0.63	0.62	0.62	0.58	0.60	0.64
0.56	0.53	0.58	0.58	0.61	0.58	0.58	0.58	0.61
0.55	0.58	0.53	0.60	0.56	0.61	0.57	0.61	0.61
0.12	0.18	0.12	0.26	0.09	0.14	0.16	0.16	0.28
0.43	0.42	0.42	0.40	0.47	0.46	0.44	0.45	0.47
0.43	0.43	0.50	0.38	0.49	0.43	0.34	0.55	0.54
0.62	0.64	0.62	0.62	0.61	0.64	0.66	0.65	0.63
0.68	0.70	0.70	0.68	0.70	0.72	0.71	0.71	0.71
0.39	0.48	0.48	0.50	0.43	0.45	0.52	0.48	0.50
0.39	0.51	0.31	0.33	0.43	0.45	0.39	0.45	0.37
0.52	0.50	0.51	0.57	0.53	0.53	0.48	0.57	0.58
0.43	0.43	0.46	0.49	0.49	0.46	0.48	0.49	0.55
0.60	0.52	0.62	0.59	0.61	0.61	0.59	0.65	0.54
0.27	0.31	0.43	0.43	0.39	0.40	0.39	0.49	0.43
0.48	0.46	0.59	0.51	0.52	0.63	0.56	0.60	0.58

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0.51	0.44	0.41	0.50	0.46	0.52	0.45	0.59	0.58
0.45	0.49	0.43	0.38	0.58	0.53	0.45	0.58	0.53
0.49	0.57	0.54	0.59	0.52	0.49	0.54	0.54	0.45
0.48	0.38	0.44	0.39	0.36	0.48	0.19	0.40	0.41
0.66	0.71	0.72	0.74	0.70	0.72	0.77	0.72	0.74
0.67	0.73	0.71	0.74	0.73	0.73	0.71	0.73	0.70
0.64	0.61	0.69	0.62	0.59	0.64	0.62	0.63	0.70
0.63	0.52	0.62	0.62	0.67	0.69	0.66	0.70	0.69
0.68	0.71	0.69	0.76	0.75	0.73	0.70	0.76	0.74
0.81	0.78	0.81	0.80	0.77	0.82	0.81	0.82	0.80
0.33	0.29	0.42	0.51	0.37	0.53	0.25	0.63	0.45
0.48	0.30	0.52	0.37	0.43	0.57	0.43	0.41	0.37
0.70	0.74	0.69	0.70	0.67	0.66	0.66	0.61	0.75
0.76	0.73	0.67	0.77	0.79	0.77	0.71	0.81	0.81
0.76	0.78	0.81	0.82	0.79	0.81	0.84	0.83	0.77
0.86	0.90	0.89	0.89	0.90	0.89	0.87	0.89	0.90
0.87	0.91	0.84	0.89	0.91	0.91	0.91	0.90	0.89

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298	299	308	309	313	313	320	324	327
RCD	**RBZ**	**RTP**	**RWJ**	**RC9**	**RGP**	**RD8**	**RBD**	**RNQ**
0.44	0.47	0.47	0.46	0.47	0.48	0.52	0.47	0.47
0.45	0.46	0.47	0.47	0.48	0.48	0.49	0.49	0.50
0.30	0.32	0.27	0.40	0.32	0.34	0.33	0.32	0.36
0.16	0.15	0.22	0.15	0.17	0.14	0.13	0.12	0.21
0.27	0.32	0.34	0.35	0.31	0.32	0.35	0.31	0.28
0.48	0.49	0.51	0.52	0.50	0.53	0.54	0.53	0.52
0.52	0.54	0.55	0.54	0.55	0.55	0.57	0.55	0.57
0.35	0.42	0.48	0.46	0.40	0.48	0.48	0.44	0.43
0.38	0.47	0.39	0.48	0.43	0.47	0.43	0.45	0.42
0.40	0.46	0.42	0.46	0.42	0.48	0.49	0.46	0.45
0.28	0.39	0.36	0.43	0.38	0.39	0.39	0.35	0.38
0.16	0.16	0.14	0.12	0.09	0.15	0.13	0.13	0.22
0.44	0.46	0.53	0.49	0.48	0.52	0.57	0.46	0.54
0.56	0.60	0.63	0.62	0.62	0.62	0.64	0.62	0.63
0.30	0.31	0.30	0.49	0.35	0.35	0.36	0.36	0.36
0.32	0.26	0.19	0.41	0.35	0.35	0.39	0.29	0.29
0.51	0.56	0.58	0.61	0.57	0.60	0.63	0.58	0.63
0.38	0.50	0.47	0.25	0.45	0.48	0.57	0.44	0.51
0.48	0.43	0.49	0.57	0.51	0.49	0.54	0.43	0.53
0.47	0.58	0.61	0.60	0.64	0.63	0.67	0.64	0.63
0.60	0.62	0.61	0.61	0.61	0.61	0.64	0.62	0.62
0.50	0.56	0.61	0.56	0.60	0.59	0.64	0.60	0.64
0.06	0.18	0.16	0.22	0.18	0.14	0.33	0.14	0.14
0.39	0.42	0.40	0.52	0.43	0.47	0.47	0.44	0.44
0.38	0.38	0.51	0.41	0.52	0.53	0.51	0.44	0.58
0.66	0.62	0.64	0.65	0.69	0.66	0.64	0.66	0.66
0.69	0.69	0.72	0.72	0.73	0.72	0.74	0.73	0.74
0.41	0.39	0.42	0.50	0.46	0.43	0.46	0.41	0.43
0.31	0.46	0.40	0.25	0.32	0.48	0.54	0.41	0.43
0.34	0.52	0.56	0.56	0.52	0.57	0.59	0.54	0.59
0.33	0.47	0.36	0.50	0.45	0.53	0.52	0.47	0.47
0.53	0.59	0.65	0.59	0.64	0.65	0.66	0.65	0.68
0.33	0.19	0.39	0.33	0.35	0.46	0.47	0.22	0.43
0.47	0.59	0.47	0.63	0.60	0.62	0.61	0.54	0.61

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0.46	0.49	0.61	0.52	0.60	0.47	0.56	0.48	0.61
0.33	0.45	0.44	0.47	0.49	0.49	0.64	0.57	0.54
0.53	0.55	0.49	0.60	0.63	0.55	0.52	0.58	0.53
0.26	0.32	0.31	0.46	0.40	0.36	0.45	0.19	0.47
0.66	0.70	0.66	0.76	0.71	0.73	0.73	0.69	0.73
0.71	0.70	0.73	0.75	0.75	0.74	0.70	0.75	0.73
0.34	0.51	0.73	0.67	0.64	0.60	0.73	0.69	0.77
0.56	0.45	0.73	0.70	0.70	0.52	0.72	0.62	0.76
0.59	0.71	0.72	0.71	0.74	0.77	0.76	0.76	0.76
0.80	0.80	0.73	0.84	0.81	0.83	0.83	0.82	0.83
0.37	0.37	0.40	0.53	0.49	0.54	0.51	0.59	0.60
0.15	0.37	0.48	0.48	0.60	0.52	0.50	0.43	0.69
0.47	0.67	0.68	0.66	0.45	0.74	0.79	0.70	0.74
0.63	0.75	0.65	0.78	0.75	0.75	0.81	0.70	0.84
0.72	0.70	0.80	0.85	0.82	0.81	0.82	0.78	0.79
0.84	0.89	0.90	0.88	0.90	0.88	0.90	0.88	0.91
0.91	0.91	0.91	0.88	0.91	0.85	0.92	0.91	0.89

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344	350	350	352	374	384	387	395	396
RP5	**RVJ**	**RW3**	**RJC**	**RAE**	**RBL**	**RGR**	**RQ6**	**R1K**
0.50	0.46	0.53	0.47	0.54	0.52	0.53	0.55	0.54
0.51	0.52	0.52	0.50	0.53	0.51	0.52	0.54	0.53
0.37	0.41	0.41	0.33	0.44	0.40	0.37	0.41	0.40
0.15	0.25	0.13	0.19	0.17	0.24	0.20	0.26	0.19
0.33	0.47	0.35	0.26	0.44	0.36	0.32	0.31	0.40
0.56	0.55	0.53	0.52	0.58	0.55	0.56	0.55	0.59
0.57	0.58	0.56	0.59	0.60	0.58	0.60	0.61	0.61
0.46	0.44	0.45	0.46	0.52	0.49	0.51	0.47	0.47
0.47	0.47	0.52	0.43	0.47	0.48	0.45	0.52	0.53
0.49	0.47	0.45	0.45	0.49	0.50	0.45	0.48	0.54
0.43	0.45	0.43	0.32	0.52	0.43	0.42	0.43	0.45
0.16	0.24	0.11	0.17	0.11	0.22	0.16	0.24	0.16
0.55	0.54	0.50	0.49	0.59	0.52	0.54	0.47	0.58
0.65	0.66	0.64	0.65	0.68	0.66	0.67	0.66	0.67
0.41	0.28	0.42	0.35	0.56	0.44	0.41	0.41	0.43
0.43	0.42	0.47	0.25	0.52	0.38	0.33	0.39	0.39
0.64	0.57	0.59	0.60	0.67	0.64	0.62	0.63	0.68
0.43	0.32	0.40	0.53	0.50	0.42	0.53	0.35	0.54
0.54	0.57	0.60	0.48	0.63	0.56	0.52	0.54	0.54
0.66	0.65	0.65	0.64	0.70	0.68	0.67	0.69	0.68
0.63	0.65	0.64	0.59	0.65	0.65	0.65	0.65	0.67
0.62	0.62	0.62	0.63	0.68	0.66	0.66	0.65	0.67
0.16	0.28	0.12	0.18	0.31	0.16	0.28	0.16	0.29
0.54	0.51	0.54	0.43	0.62	0.47	0.41	0.38	0.50
0.53	0.59	0.49	0.48	0.52	0.59	0.58	0.54	0.59
0.67	0.71	0.69	0.70	0.70	0.70	0.71	0.73	0.71
0.75	0.74	0.75	0.73	0.77	0.75	0.74	0.76	0.77
0.50	0.54	0.52	0.26	0.61	0.54	0.40	0.42	0.50
0.48	0.32	0.34	0.46	0.48	0.43	0.51	0.32	0.54
0.57	0.51	0.57	0.49	0.64	0.54	0.58	0.55	0.60
0.53	0.43	0.59	0.50	0.60	0.53	0.44	0.44	0.58
0.68	0.68	0.67	0.66	0.67	0.67	0.67	0.70	0.73
0.48	0.52	0.42	0.27	0.53	0.46	0.46	0.42	0.57
0.59	0.57	0.67	0.53	0.71	0.59	0.55	0.59	0.67

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0.62	0.53	0.56	0.41	0.63	0.53	0.54	0.57	0.63
0.57	0.61	0.55	0.52	0.59	0.59	0.58	0.56	0.62
0.61	0.60	0.62	0.53	0.64	0.60	0.57	0.65	0.67
0.49	0.51	0.51	0.44	0.50	0.48	0.43	0.37	0.46
0.76	0.76	0.77	0.70	0.80	0.75	0.73	0.73	0.74
0.79	0.73	0.78	0.71	0.79	0.76	0.74	0.78	0.79
0.77	0.76	0.71	0.60	0.76	0.71	0.66	0.57	0.76
0.75	0.74	0.71	0.45	0.71	0.67	0.72	0.72	0.74
0.78	0.74	0.78	0.74	0.81	0.77	0.76	0.81	0.81
0.83	0.85	0.83	0.85	0.82	0.79	0.86	0.86	0.85
0.63	0.51	0.59	0.47	0.58	0.53	0.47	0.33	0.55
0.58	0.57	0.48	0.46	0.60	0.59	0.34	0.46	0.50
0.75	0.64	0.68	0.77	0.82	0.75	0.80	0.74	0.77
0.75	0.73	0.79	0.70	0.82	0.78	0.80	0.78	0.83
0.80	0.84	0.84	0.78	0.86	0.84	0.84	0.83	0.85
0.90	0.89	0.91	0.83	0.92	0.90	0.92	0.91	0.92
0.90	0.93	0.93	0.92	0.93	0.92	0.93	0.94	0.93

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397	404	409	412	415	423	430	430	437
RN7	**RHW**	**RNL**	**RCX**	**RPA**	**RWH**	**RM2**	**RR7**	**RNS**
0.52	0.53	0.56	0.52	0.55	0.56	0.51	0.55	0.58
0.53	0.54	0.55	0.54	0.57	0.56	0.56	0.56	0.56
0.38	0.42	0.39	0.42	0.42	0.46	0.49	0.41	0.45
0.18	0.43	0.28	0.17	0.22	0.34	0.22	0.28	0.30
0.33	0.38	0.38	0.33	0.41	0.41	0.40	0.36	0.41
0.52	0.54	0.59	0.57	0.57	0.60	0.56	0.53	0.57
0.60	0.62	0.62	0.60	0.63	0.63	0.61	0.62	0.64
0.48	0.54	0.50	0.43	0.52	0.56	0.49	0.45	0.54
0.49	0.45	0.48	0.52	0.52	0.55	0.43	0.43	0.54
0.45	0.52	0.58	0.50	0.51	0.55	0.45	0.44	0.53
0.42	0.50	0.45	0.40	0.50	0.51	0.52	0.42	0.53
0.11	0.40	0.31	0.18	0.22	0.36	0.20	0.18	0.30
0.54	0.61	0.60	0.58	0.60	0.62	0.54	0.54	0.62
0.63	0.69	0.70	0.67	0.70	0.70	0.68	0.63	0.69
0.47	0.43	0.46	0.48	0.51	0.52	0.54	0.37	0.51
0.35	0.35	0.38	0.45	0.55	0.45	0.49	0.32	0.47
0.56	0.66	0.68	0.63	0.67	0.68	0.64	0.60	0.66
0.50	0.51	0.58	0.53	0.55	0.55	0.43	0.50	0.62
0.55	0.59	0.49	0.57	0.62	0.62	0.67	0.50	0.62
0.64	0.68	0.71	0.66	0.68	0.72	0.70	0.68	0.69
0.67	0.68	0.69	0.62	0.68	0.70	0.70	0.71	0.70
0.63	0.69	0.71	0.65	0.69	0.70	0.64	0.63	0.69
0.18	0.21	0.27	0.28	0.16	0.24	0.21	0.12	0.33
0.47	0.58	0.56	0.53	0.59	0.54	0.52	0.44	0.58
0.56	0.60	0.59	0.56	0.62	0.65	0.54	0.46	0.64
0.72	0.69	0.73	0.72	0.71	0.71	0.72	0.74	0.72
0.76	0.78	0.78	0.76	0.78	0.79	0.78	0.76	0.79
0.47	0.46	0.42	0.52	0.55	0.60	0.58	0.48	0.55
0.41	0.45	0.60	0.50	0.54	0.54	0.36	0.44	0.57
0.51	0.61	0.65	0.59	0.63	0.63	0.63	0.58	0.65
0.46	0.48	0.55	0.52	0.58	0.65	0.61	0.45	0.64
0.72	0.72	0.68	0.69	0.72	0.74	0.64	0.58	0.73
0.40	0.62	0.48	0.47	0.58	0.58	0.47	0.29	0.57
0.58	0.62	0.54	0.62	0.69	0.69	0.68	0.60	0.70

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0.56	0.62	0.62	0.55	0.63	0.62	0.61	0.53	0.63
0.47	0.62	0.61	0.55	0.53	0.61	0.66	0.60	0.59
0.61	0.64	0.60	0.59	0.60	0.64	0.69	0.64	0.67
0.34	0.39	0.46	0.47	0.54	0.60	0.54	0.29	0.46
0.74	0.76	0.76	0.76	0.80	0.79	0.83	0.72	0.79
0.78	0.79	0.77	0.79	0.79	0.78	0.81	0.78	0.82
0.69	0.79	0.83	0.76	0.73	0.79	0.76	0.67	0.78
0.70	0.77	0.76	0.67	0.74	0.77	0.71	0.67	0.77
0.78	0.77	0.80	0.80	0.80	0.81	0.82	0.80	0.80
0.84	0.85	0.85	0.85	0.87	0.87	0.86	0.82	0.85
0.56	0.64	0.51	0.62	0.57	0.53	0.65	0.45	0.64
0.68	0.57	0.73	0.52	0.56	0.65	0.51	0.54	0.70
0.74	0.62	0.82	0.81	0.77	0.81	0.74	0.66	0.72
0.77	0.82	0.85	0.80	0.83	0.78	0.79	0.81	0.83
0.84	0.87	0.80	0.83	0.88	0.88	0.89	0.85	0.86
0.90	0.92	0.92	0.91	0.92	0.93	0.92	0.91	0.93
0.93	0.91	0.91	0.93	0.93	0.93	0.95	0.92	0.93

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438	439	443	448	451	467	470	484	496
RN3	**RGN**	**RVW**	**RNZ**	**RDE**	**RLN**	**RWY**	**RGQ**	**RXP**
0.55	0.54	0.54	0.55	0.55	0.58	0.58	0.61	0.59
0.58	0.55	0.57	0.55	0.57	0.59	0.57	0.58	0.60
0.44	0.44	0.45	0.40	0.44	0.42	0.41	0.43	0.46
0.22	0.26	0.24	0.20	0.28	0.22	0.23	0.32	0.21
0.40	0.38	0.36	0.38	0.36	0.36	0.43	0.37	0.41
0.58	0.57	0.55	0.60	0.57	0.59	0.60	0.63	0.63
0.64	0.61	0.62	0.63	0.64	0.64	0.66	0.65	0.66
0.51	0.50	0.47	0.55	0.51	0.54	0.55	0.57	0.59
0.49	0.51	0.50	0.51	0.53	0.58	0.53	0.55	0.56
0.53	0.51	0.47	0.49	0.54	0.55	0.54	0.53	0.58
0.51	0.49	0.45	0.42	0.48	0.46	0.48	0.47	0.50
0.22	0.21	0.18	0.16	0.21	0.19	0.16	0.22	0.25
0.59	0.58	0.55	0.54	0.59	0.61	0.62	0.58	0.60
0.70	0.68	0.66	0.70	0.68	0.68	0.72	0.71	0.73
0.47	0.36	0.45	0.44	0.41	0.49	0.50	0.43	0.49
0.46	0.41	0.46	0.40	0.42	0.41	0.43	0.41	0.48
0.64	0.64	0.59	0.65	0.66	0.68	0.69	0.68	0.71
0.63	0.53	0.58	0.51	0.57	0.53	0.60	0.60	0.61
0.64	0.57	0.60	0.56	0.61	0.57	0.60	0.61	0.63
0.67	0.68	0.69	0.70	0.67	0.73	0.71	0.74	0.74
0.69	0.67	0.68	0.67	0.70	0.72	0.69	0.69	0.72
0.70	0.70	0.65	0.63	0.67	0.68	0.69	0.68	0.71
0.21	0.21	0.21	0.19	0.23	0.29	0.24	0.19	0.28
0.57	0.56	0.56	0.46	0.58	0.49	0.58	0.53	0.64
0.62	0.58	0.53	0.48	0.60	0.54	0.58	0.61	0.60
0.71	0.75	0.74	0.75	0.73	0.76	0.76	0.76	0.76
0.79	0.78	0.76	0.78	0.79	0.78	0.80	0.80	0.81
0.61	0.55	0.56	0.56	0.56	0.57	0.49	0.52	0.54
0.59	0.51	0.48	0.47	0.52	0.53	0.58	0.60	0.58
0.66	0.59	0.56	0.63	0.63	0.66	0.67	0.57	0.66
0.58	0.49	0.58	0.47	0.48	0.54	0.54	0.54	0.58
0.75	0.70	0.66	0.69	0.75	0.72	0.73	0.73	0.74
0.50	0.42	0.47	0.41	0.49	0.54	0.49	0.42	0.51
0.66	0.68	0.62	0.57	0.64	0.67	0.60	0.57	0.71

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0.57	0.51	0.55	0.54	0.56	0.62	0.68	0.60	0.67
0.68	0.37	0.62	0.53	0.61	0.64	0.62	0.58	0.64
0.60	0.60	0.64	0.62	0.65	0.69	0.66	0.63	0.71
0.43	0.37	0.52	0.29	0.43	0.52	0.37	0.43	0.51
0.82	0.78	0.79	0.76	0.78	0.77	0.79	0.79	0.81
0.81	0.76	0.79	0.79	0.80	0.84	0.81	0.80	0.83
0.77	0.71	0.67	0.70	0.75	0.72	0.69	0.76	0.77
0.78	0.73	0.59	0.73	0.76	0.74	0.77	0.81	0.74
0.81	0.77	0.82	0.78	0.80	0.85	0.82	0.79	0.84
0.86	0.86	0.80	0.87	0.86	0.86	0.87	0.88	0.89
0.45	0.40	0.53	0.58	0.50	0.52	0.57	0.48	0.52
0.54	0.57	0.46	0.46	0.63	0.49	0.56	0.51	0.58
0.78	0.75	0.76	0.81	0.70	0.77	0.84	0.75	0.77
0.79	0.78	0.81	0.83	0.79	0.85	0.86	0.80	0.86
0.86	0.85	0.87	0.84	0.87	0.85	0.87	0.85	0.85
0.93	0.93	0.90	0.91	0.92	0.91	0.92	0.93	0.92
0.95	0.93	0.93	0.93	0.95	0.94	0.95	0.94	0.94

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506	506	507	516	517	523	529	540	542
RXH	**RXK**	**RD1**	**RJL**	**RXF**	**RQ8**	**RXQ**	**RTF**	**RD3**
0.58	0.59	0.61	0.61	0.60	0.61	0.58	0.60	0.63
0.58	0.61	0.60	0.61	0.62	0.60	0.61	0.61	0.61
0.47	0.46	0.44	0.49	0.48	0.48	0.45	0.43	0.48
0.27	0.29	0.31	0.24	0.24	0.20	0.16	0.28	0.37
0.46	0.47	0.43	0.39	0.44	0.41	0.45	0.37	0.42
0.63	0.62	0.61	0.64	0.60	0.62	0.64	0.58	0.66
0.66	0.67	0.67	0.67	0.68	0.67	0.67	0.68	0.69
0.55	0.47	0.57	0.61	0.60	0.59	0.56	0.53	0.57
0.53	0.55	0.56	0.59	0.57	0.54	0.59	0.55	0.58
0.57	0.53	0.55	0.59	0.56	0.55	0.57	0.52	0.58
0.51	0.54	0.50	0.53	0.53	0.53	0.52	0.45	0.53
0.16	0.20	0.24	0.16	0.18	0.15	0.16	0.18	0.34
0.61	0.62	0.59	0.65	0.60	0.63	0.61	0.58	0.66
0.73	0.73	0.73	0.72	0.71	0.72	0.74	0.69	0.73
0.51	0.50	0.46	0.49	0.47	0.51	0.53	0.45	0.48
0.48	0.53	0.44	0.45	0.51	0.41	0.43	0.43	0.45
0.70	0.70	0.67	0.71	0.71	0.70	0.71	0.69	0.71
0.47	0.60	0.55	0.64	0.62	0.58	0.62	0.61	0.64
0.63	0.65	0.63	0.59	0.66	0.64	0.59	0.57	0.64
0.73	0.71	0.72	0.75	0.74	0.73	0.74	0.73	0.76
0.69	0.72	0.72	0.72	0.74	0.73	0.72	0.74	0.73
0.71	0.71	0.70	0.74	0.70	0.72	0.73	0.69	0.72
0.23	0.25	0.28	0.28	0.34	0.19	0.34	0.32	0.26
0.57	0.62	0.57	0.56	0.61	0.58	0.59	0.51	0.56
0.68	0.62	0.56	0.67	0.61	0.64	0.64	0.55	0.58
0.77	0.77	0.76	0.77	0.77	0.77	0.76	0.78	0.78
0.80	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81
0.55	0.65	0.58	0.53	0.60	0.49	0.56	0.55	0.56
0.41	0.54	0.56	0.61	0.58	0.53	0.57	0.57	0.62
0.67	0.64	0.65	0.67	0.68	0.64	0.65	0.67	0.68
0.59	0.62	0.60	0.65	0.65	0.57	0.60	0.58	0.59
0.77	0.74	0.70	0.75	0.72	0.74	0.72	0.73	0.76
0.55	0.52	0.47	0.53	0.49	0.57	0.51	0.37	0.44
0.70	0.72	0.66	0.70	0.68	0.70	0.65	0.56	0.62

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0.61	0.67	0.57	0.66	0.63	0.64	0.68	0.61	0.60
0.62	0.61	0.60	0.68	0.64	0.67	0.66	0.65	0.69
0.65	0.67	0.64	0.64	0.71	0.65	0.64	0.70	0.72
0.52	0.53	0.55	0.48	0.49	0.53	0.51	0.58	0.48
0.78	0.80	0.81	0.81	0.83	0.79	0.78	0.78	0.81
0.79	0.82	0.80	0.82	0.84	0.80	0.79	0.85	0.85
0.80	0.76	0.70	0.83	0.75	0.79	0.76	0.76	0.75
0.80	0.75	0.72	0.73	0.71	0.80	0.83	0.73	0.75
0.83	0.85	0.82	0.86	0.85	0.83	0.81	0.85	0.84
0.81	0.82	0.88	0.90	0.87	0.89	0.88	0.89	0.89
0.59	0.64	0.55	0.65	0.64	0.55	0.63	0.48	0.63
0.61	0.72	0.53	0.66	0.51	0.54	0.62	0.53	0.58
0.86	0.76	0.80	0.83	0.86	0.79	0.81	0.79	0.72
0.82	0.86	0.82	0.87	0.86	0.85	0.82	0.86	0.85
0.87	0.87	0.86	0.88	0.88	0.88	0.88	0.86	0.88
0.94	0.94	0.94	0.94	0.93	0.94	0.93	0.91	0.92
0.95	0.95	0.95	0.94	0.95	0.94	0.95	0.94	0.94

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548	552	572	594	602	613	623	631	644
RW6	**RNA**	**RA9**	**RA2**	**RTX**	**RXC**	**RXL**	**RBA**	**RAJ**
0.64	0.61	0.58	0.63	0.63	0.64	0.63	0.63	0.64
0.63	0.62	0.60	0.62	0.62	0.63	0.66	0.63	0.64
0.47	0.49	0.46	0.55	0.46	0.49	0.53	0.50	0.53
0.29	0.21	0.39	0.32	0.22	0.21	0.25	0.33	0.41
0.44	0.45	0.46	0.52	0.39	0.43	0.45	0.46	0.46
0.66	0.63	0.63	0.67	0.65	0.68	0.67	0.65	0.69
0.68	0.68	0.68	0.71	0.70	0.70	0.72	0.71	0.72
0.57	0.57	0.54	0.57	0.59	0.62	0.62	0.60	0.60
0.62	0.60	0.58	0.62	0.60	0.63	0.62	0.62	0.56
0.59	0.57	0.56	0.61	0.56	0.61	0.62	0.60	0.61
0.51	0.53	0.46	0.62	0.49	0.52	0.57	0.49	0.59
0.21	0.13	0.35	0.30	0.17	0.22	0.25	0.29	0.40
0.65	0.64	0.62	0.67	0.65	0.68	0.67	0.63	0.67
0.75	0.74	0.72	0.76	0.74	0.77	0.76	0.75	0.76
0.53	0.54	0.51	0.66	0.53	0.56	0.50	0.46	0.59
0.51	0.48	0.48	0.57	0.47	0.50	0.51	0.38	0.58
0.74	0.72	0.65	0.73	0.71	0.74	0.74	0.72	0.76
0.52	0.65	0.56	0.56	0.60	0.65	0.66	0.64	0.69
0.65	0.64	0.62	0.73	0.61	0.66	0.68	0.62	0.70
0.75	0.75	0.72	0.75	0.75	0.77	0.77	0.73	0.76
0.75	0.74	0.73	0.76	0.73	0.75	0.76	0.74	0.76
0.75	0.75	0.71	0.73	0.72	0.76	0.75	0.72	0.75
0.29	0.19	0.34	0.35	0.28	0.17	0.28	0.31	0.31
0.61	0.61	0.57	0.66	0.58	0.58	0.61	0.56	0.66
0.62	0.69	0.62	0.70	0.67	0.68	0.66	0.63	0.64
0.77	0.78	0.78	0.78	0.80	0.78	0.81	0.81	0.78
0.83	0.82	0.82	0.83	0.82	0.84	0.84	0.83	0.84
0.62	0.56	0.55	0.69	0.51	0.58	0.62	0.52	0.59
0.49	0.58	0.45	0.54	0.57	0.60	0.61	0.55	0.66
0.70	0.66	0.59	0.68	0.68	0.70	0.72	0.66	0.70
0.68	0.56	0.53	0.65	0.55	0.62	0.63	0.59	0.58
0.74	0.75	0.75	0.81	0.79	0.80	0.78	0.75	0.78
0.63	0.56	0.48	0.52	0.54	0.54	0.65	0.48	0.49
0.70	0.69	0.62	0.75	0.62	0.71	0.73	0.69	0.72

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0.71	0.63	0.67	0.63	0.63	0.76	0.69	0.65	0.66
0.69	0.70	0.65	0.69	0.64	0.70	0.63	0.60	0.71
0.74	0.66	0.65	0.68	0.67	0.67	0.72	0.66	0.72
0.60	0.52	0.43	0.60	0.59	0.49	0.59	0.50	0.43
0.81	0.83	0.79	0.86	0.79	0.81	0.82	0.77	0.85
0.86	0.81	0.80	0.83	0.84	0.83	0.86	0.82	0.85
0.83	0.81	0.74	0.82	0.79	0.83	0.79	0.74	0.79
0.81	0.80	0.79	0.81	0.79	0.84	0.84	0.76	0.81
0.85	0.86	0.81	0.81	0.85	0.85	0.86	0.84	0.86
0.89	0.86	0.87	0.90	0.88	0.90	0.90	0.90	0.90
0.66	0.67	0.66	0.67	0.52	0.52	0.59	0.43	0.52
0.68	0.74	0.53	0.70	0.70	0.62	0.53	0.46	0.75
0.84	0.86	0.79	0.83	0.82	0.77	0.74	0.81	0.85
0.87	0.84	0.78	0.86	0.85	0.89	0.87	0.83	0.80
0.87	0.90	0.88	0.92	0.87	0.86	0.91	0.89	0.91
0.94	0.95	0.93	0.95	0.94	0.95	0.94	0.91	0.95
0.94	0.95	0.94	0.95	0.96	0.95	0.95	0.96	0.95

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659	666	673	678	698	707	723	728	738
RRK	**RHU**	**RXR**	**RJ7**	**RR1**	**RYR**	**RXN**	**RYJ**	**RX1**
0.67	0.66	0.65	0.67	0.65	0.69	0.65	0.70	0.68
0.66	0.66	0.68	0.66	0.68	0.67	0.68	0.68	0.69
0.60	0.55	0.53	0.57	0.58	0.50	0.55	0.61	0.62
0.31	0.49	0.28	0.31	0.29	0.26	0.54	0.43	0.49
0.53	0.49	0.47	0.51	0.56	0.45	0.55	0.58	0.57
0.68	0.68	0.72	0.70	0.70	0.71	0.70	0.73	0.70
0.72	0.72	0.73	0.73	0.73	0.74	0.75	0.75	0.75
0.62	0.60	0.63	0.63	0.61	0.61	0.62	0.67	0.64
0.65	0.64	0.63	0.63	0.64	0.64	0.63	0.68	0.65
0.62	0.61	0.65	0.65	0.64	0.65	0.64	0.68	0.63
0.64	0.62	0.58	0.59	0.64	0.54	0.59	0.65	0.67
0.23	0.42	0.28	0.30	0.23	0.26	0.49	0.45	0.41
0.68	0.68	0.71	0.71	0.72	0.68	0.67	0.74	0.73
0.78	0.77	0.79	0.79	0.79	0.79	0.78	0.80	0.80
0.64	0.62	0.54	0.62	0.64	0.57	0.63	0.68	0.65
0.60	0.55	0.52	0.62	0.61	0.43	0.58	0.64	0.62
0.74	0.74	0.76	0.77	0.77	0.77	0.76	0.80	0.78
0.60	0.70	0.68	0.68	0.68	0.71	0.62	0.70	0.70
0.75	0.71	0.69	0.73	0.74	0.67	0.70	0.77	0.77
0.77	0.79	0.80	0.79	0.78	0.79	0.77	0.82	0.79
0.77	0.77	0.79	0.78	0.79	0.78	0.78	0.81	0.80
0.77	0.78	0.79	0.78	0.79	0.78	0.77	0.81	0.79
0.39	0.40	0.26	0.39	0.34	0.36	0.34	0.49	0.30
0.70	0.63	0.66	0.65	0.70	0.60	0.64	0.73	0.74
0.70	0.72	0.69	0.63	0.74	0.68	0.69	0.73	0.70
0.82	0.80	0.82	0.79	0.81	0.79	0.83	0.81	0.83
0.85	0.84	0.85	0.86	0.86	0.85	0.85	0.86	0.87
0.73	0.66	0.67	0.68	0.71	0.60	0.68	0.76	0.65
0.56	0.67	0.68	0.67	0.61	0.68	0.59	0.73	0.64
0.74	0.70	0.75	0.74	0.73	0.71	0.72	0.77	0.73
0.68	0.69	0.68	0.71	0.70	0.59	0.61	0.76	0.70
0.81	0.81	0.81	0.80	0.80	0.80	0.78	0.85	0.81
0.60	0.63	0.60	0.61	0.66	0.60	0.58	0.68	0.64
0.78	0.78	0.73	0.77	0.78	0.68	0.75	0.81	0.80

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0.73	0.69	0.75	0.77	0.74	0.75	0.74	0.81	0.76
0.75	0.74	0.71	0.72	0.73	0.66	0.68	0.78	0.77
0.74	0.74	0.79	0.72	0.75	0.69	0.77	0.78	0.74
0.58	0.57	0.62	0.62	0.71	0.56	0.57	0.73	0.63
0.88	0.86	0.84	0.85	0.87	0.82	0.85	0.88	0.89
0.85	0.84	0.88	0.84	0.87	0.83	0.87	0.87	0.86
0.80	0.81	0.80	0.87	0.84	0.84	0.82	0.88	0.84
0.80	0.85	0.83	0.85	0.82	0.86	0.82	0.88	0.84
0.87	0.87	0.88	0.87	0.88	0.85	0.87	0.89	0.89
0.89	0.89	0.87	0.91	0.85	0.90	0.87	0.92	0.90
0.71	0.72	0.71	0.76	0.64	0.66	0.72	0.82	0.71
0.63	0.64	0.71	0.71	0.71	0.71	0.66	0.79	0.69
0.84	0.83	0.80	0.85	0.86	0.85	0.83	0.79	0.81
0.89	0.84	0.89	0.89	0.89	0.88	0.86	0.88	0.84
0.93	0.92	0.89	0.92	0.92	0.87	0.90	0.93	0.92
0.95	0.95	0.95	0.96	0.95	0.95	0.95	0.96	0.96
0.97	0.96	0.95	0.96	0.95	0.96	0.95	0.97	0.97

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740	743	748	750	765	766	770	781	801
RWD	**RL4**	**RN5**	**RDU**	**RBV**	**RA7**	**REF**	**RAL**	**RKB**
0.68	0.69	0.70	0.69	0.70	0.70	0.67	0.71	0.71
0.69	0.69	0.70	0.68	0.70	0.70	0.69	0.70	0.71
0.55	0.57	0.57	0.53	0.62	0.58	0.55	0.58	0.61
0.48	0.40	0.36	0.28	0.43	0.47	0.43	0.39	0.41
0.52	0.50	0.50	0.51	0.55	0.53	0.48	0.58	0.54
0.73	0.71	0.72	0.72	0.71	0.71	0.70	0.74	0.72
0.75	0.75	0.75	0.75	0.76	0.75	0.75	0.76	0.76
0.67	0.63	0.67	0.66	0.69	0.69	0.66	0.71	0.68
0.63	0.67	0.68	0.65	0.69	0.66	0.68	0.68	0.69
0.68	0.64	0.67	0.66	0.64	0.68	0.65	0.71	0.65
0.62	0.63	0.62	0.58	0.65	0.64	0.61	0.64	0.66
0.39	0.38	0.36	0.29	0.39	0.46	0.36	0.36	0.37
0.73	0.70	0.72	0.72	0.71	0.72	0.68	0.76	0.72
0.80	0.80	0.80	0.80	0.81	0.81	0.79	0.81	0.80
0.61	0.62	0.55	0.60	0.69	0.64	0.62	0.62	0.71
0.57	0.57	0.53	0.53	0.57	0.56	0.56	0.59	0.63
0.79	0.78	0.79	0.77	0.77	0.78	0.77	0.81	0.79
0.72	0.71	0.69	0.65	0.69	0.74	0.66	0.66	0.71
0.72	0.74	0.71	0.70	0.70	0.73	0.69	0.74	0.76
0.81	0.79	0.81	0.81	0.82	0.82	0.78	0.82	0.82
0.81	0.80	0.79	0.79	0.81	0.81	0.80	0.81	0.81
0.81	0.80	0.78	0.79	0.80	0.80	0.78	0.81	0.81
0.31	0.30	0.34	0.41	0.34	0.40	0.39	0.46	0.30
0.71	0.71	0.61	0.67	0.66	0.70	0.65	0.69	0.72
0.70	0.74	0.73	0.69	0.71	0.70	0.73	0.72	0.72
0.81	0.81	0.80	0.81	0.82	0.82	0.83	0.82	0.84
0.87	0.86	0.86	0.86	0.87	0.87	0.86	0.87	0.87
0.67	0.71	0.59	0.64	0.68	0.64	0.61	0.69	0.73
0.74	0.70	0.70	0.65	0.66	0.73	0.69	0.66	0.63
0.77	0.73	0.74	0.75	0.74	0.70	0.75	0.79	0.71
0.70	0.71	0.69	0.70	0.68	0.68	0.64	0.70	0.69
0.81	0.84	0.82	0.80	0.84	0.83	0.81	0.85	0.83
0.67	0.59	0.65	0.63	0.53	0.59	0.50	0.69	0.63
0.76	0.79	0.69	0.75	0.78	0.78	0.72	0.80	0.79

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0.73	0.72	0.66	0.74	0.74	0.79	0.69	0.77	0.75
0.73	0.67	0.73	0.78	0.77	0.75	0.76	0.79	0.75
0.73	0.74	0.67	0.74	0.79	0.74	0.75	0.76	0.77
0.62	0.62	0.61	0.55	0.45	0.54	0.48	0.66	0.58
0.86	0.87	0.85	0.85	0.87	0.86	0.85	0.86	0.88
0.86	0.86	0.83	0.86	0.89	0.86	0.87	0.87	0.88
0.89	0.82	0.85	0.85	0.85	0.87	0.84	0.87	0.84
0.82	0.84	0.80	0.85	0.85	0.87	0.77	0.86	0.82
0.89	0.89	0.87	0.87	0.89	0.88	0.87	0.88	0.89
0.91	0.88	0.92	0.92	0.92	0.92	0.91	0.93	0.92
0.75	0.62	0.74	0.67	0.76	0.70	0.64	0.78	0.74
0.81	0.75	0.73	0.73	0.70	0.73	0.64	0.71	0.71
0.89	0.87	0.85	0.85	0.88	0.80	0.83	0.87	0.83
0.91	0.90	0.90	0.89	0.88	0.87	0.89	0.90	0.89
0.91	0.92	0.91	0.92	0.93	0.92	0.88	0.93	0.93
0.95	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
0.97	0.96	0.96	0.95	0.97	0.97	0.97	0.97	0.97

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819	827	845	861	900	923	938	963	974
RTR	**RJZ**	**RHM**	**RTG**	**R1H**	**RK9**	**RXW**	**RR8**	**RWP**
0.71	0.72	0.72	0.72	0.75	0.72	0.74	0.74	0.74
0.71	0.71	0.73	0.72	0.73	0.73	0.74	0.74	0.74
0.61	0.61	0.65	0.63	0.63	0.62	0.61	0.68	0.60
0.45	0.36	0.44	0.47	0.49	0.47	0.48	0.53	0.45
0.56	0.54	0.63	0.58	0.60	0.62	0.59	0.62	0.55
0.73	0.74	0.75	0.75	0.77	0.75	0.77	0.75	0.77
0.77	0.77	0.77	0.77	0.79	0.78	0.79	0.79	0.80
0.69	0.70	0.69	0.66	0.74	0.69	0.70	0.70	0.71
0.72	0.69	0.69	0.69	0.72	0.72	0.71	0.71	0.74
0.66	0.71	0.70	0.69	0.75	0.70	0.72	0.67	0.72
0.66	0.67	0.72	0.67	0.68	0.68	0.68	0.70	0.67
0.34	0.35	0.43	0.42	0.42	0.35	0.50	0.46	0.37
0.74	0.73	0.74	0.73	0.78	0.75	0.77	0.75	0.77
0.81	0.82	0.82	0.82	0.84	0.82	0.84	0.84	0.84
0.62	0.66	0.70	0.62	0.68	0.69	0.69	0.69	0.64
0.56	0.64	0.65	0.63	0.67	0.68	0.64	0.70	0.65
0.79	0.81	0.79	0.81	0.83	0.81	0.82	0.80	0.81
0.73	0.68	0.70	0.72	0.78	0.75	0.78	0.71	0.75
0.74	0.76	0.79	0.76	0.78	0.78	0.75	0.81	0.76
0.82	0.84	0.83	0.82	0.85	0.83	0.84	0.85	0.85
0.81	0.80	0.82	0.82	0.83	0.82	0.84	0.84	0.84
0.81	0.81	0.81	0.82	0.85	0.82	0.83	0.84	0.83
0.38	0.42	0.48	0.36	0.46	0.36	0.31	0.42	0.42
0.71	0.75	0.72	0.74	0.76	0.74	0.74	0.76	0.72
0.74	0.73	0.77	0.70	0.80	0.78	0.78	0.76	0.79
0.83	0.83	0.82	0.85	0.85	0.84	0.86	0.87	0.86
0.87	0.88	0.88	0.88	0.89	0.89	0.89	0.89	0.89
0.72	0.72	0.75	0.72	0.76	0.71	0.69	0.77	0.73
0.71	0.65	0.68	0.72	0.79	0.70	0.76	0.70	0.75
0.77	0.78	0.79	0.75	0.83	0.75	0.79	0.74	0.81
0.75	0.71	0.76	0.69	0.77	0.78	0.71	0.72	0.73
0.83	0.84	0.84	0.81	0.88	0.84	0.85	0.85	0.86
0.65	0.62	0.61	0.59	0.73	0.65	0.66	0.69	0.63
0.79	0.81	0.81	0.79	0.83	0.80	0.79	0.83	0.83

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0.70	0.78	0.77	0.77	0.85	0.75	0.79	0.79	0.74
0.76	0.77	0.79	0.79	0.83	0.79	0.77	0.80	0.72
0.79	0.75	0.79	0.79	0.81	0.75	0.79	0.83	0.81
0.67	0.68	0.63	0.60	0.71	0.68	0.62	0.65	0.65
0.88	0.87	0.90	0.88	0.89	0.89	0.88	0.91	0.89
0.88	0.88	0.88	0.89	0.89	0.87	0.89	0.90	0.90
0.84	0.88	0.88	0.82	0.90	0.88	0.88	0.85	0.86
0.80	0.87	0.87	0.85	0.90	0.87	0.89	0.89	0.87
0.89	0.89	0.88	0.89	0.92	0.89	0.91	0.90	0.90
0.91	0.92	0.93	0.92	0.93	0.89	0.92	0.94	0.92
0.65	0.80	0.80	0.65	0.76	0.78	0.70	0.71	0.75
0.70	0.80	0.74	0.70	0.79	0.72	0.80	0.68	0.62
0.87	0.87	0.87	0.87	0.86	0.86	0.87	0.82	0.92
0.90	0.90	0.91	0.90	0.93	0.88	0.90	0.87	0.92
0.91	0.93	0.94	0.91	0.93	0.93	0.92	0.94	0.92
0.96	0.96	0.96	0.96	0.97	0.96	0.96	0.96	0.96
0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.98	0.97

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976	982	992	1024	1053	1056	1062	1067	1225
RWF	**RJE**	**RGT**	**RWA**	**RJ1**	**RRV**	**RH8**	**RVV**	**RM1**
0.74	0.74	0.74	0.75	0.76	0.78	0.74	0.75	0.76
0.73	0.76	0.75	0.76	0.76	0.75	0.74	0.76	0.78
0.57	0.65	0.66	0.69	0.65	0.67	0.63	0.62	0.66
0.52	0.50	0.49	0.50	0.50	0.44	0.48	0.46	0.51
0.54	0.60	0.59	0.64	0.62	0.63	0.57	0.64	0.66
0.75	0.77	0.77	0.77	0.78	0.80	0.77	0.79	0.81
0.80	0.80	0.80	0.80	0.81	0.81	0.80	0.81	0.83
0.72	0.70	0.73	0.71	0.74	0.76	0.71	0.74	0.76
0.70	0.71	0.75	0.73	0.75	0.77	0.74	0.71	0.76
0.71	0.71	0.70	0.72	0.73	0.76	0.70	0.75	0.75
0.65	0.71	0.70	0.71	0.70	0.71	0.66	0.69	0.72
0.42	0.43	0.51	0.41	0.44	0.44	0.47	0.42	0.47
0.75	0.77	0.77	0.78	0.80	0.79	0.75	0.80	0.79
0.84	0.84	0.84	0.84	0.85	0.85	0.84	0.86	0.87
0.64	0.67	0.70	0.69	0.70	0.71	0.67	0.70	0.68
0.53	0.66	0.63	0.68	0.65	0.70	0.61	0.68	0.67
0.80	0.83	0.81	0.83	0.83	0.84	0.81	0.84	0.85
0.77	0.78	0.74	0.76	0.77	0.77	0.74	0.77	0.79
0.72	0.77	0.80	0.81	0.78	0.80	0.74	0.77	0.81
0.85	0.84	0.85	0.86	0.86	0.87	0.84	0.86	0.87
0.84	0.85	0.84	0.83	0.86	0.85	0.84	0.85	0.86
0.83	0.84	0.83	0.83	0.85	0.86	0.82	0.85	0.86
0.34	0.45	0.46	0.50	0.37	0.50	0.27	0.53	0.47
0.71	0.76	0.75	0.77	0.75	0.77	0.71	0.73	0.76
0.72	0.75	0.74	0.79	0.74	0.81	0.72	0.82	0.81
0.86	0.88	0.85	0.87	0.87	0.87	0.86	0.86	0.88
0.89	0.89	0.89	0.90	0.90	0.90	0.89	0.90	0.91
0.64	0.76	0.75	0.77	0.77	0.78	0.69	0.74	0.78
0.75	0.76	0.75	0.75	0.73	0.75	0.72	0.78	0.78
0.80	0.81	0.80	0.80	0.82	0.82	0.72	0.82	0.82
0.72	0.78	0.76	0.77	0.71	0.77	0.75	0.73	0.77
0.84	0.85	0.85	0.87	0.87	0.90	0.84	0.87	0.88
0.63	0.68	0.64	0.76	0.69	0.66	0.58	0.75	0.73
0.78	0.82	0.81	0.85	0.84	0.84	0.80	0.82	0.82

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0.75	0.81	0.76	0.76	0.83	0.83	0.74	0.80	0.82
0.77	0.77	0.79	0.76	0.83	0.84	0.74	0.81	0.82
0.76	0.82	0.79	0.79	0.85	0.82	0.80	0.80	0.82
0.64	0.70	0.64	0.66	0.63	0.73	0.56	0.69	0.71
0.85	0.90	0.90	0.92	0.88	0.90	0.87	0.89	0.91
0.88	0.92	0.89	0.89	0.91	0.91	0.90	0.91	0.91
0.87	0.88	0.86	0.88	0.89	0.89	0.86	0.91	0.86
0.84	0.88	0.89	0.86	0.90	0.91	0.85	0.91	0.91
0.90	0.91	0.90	0.92	0.92	0.92	0.90	0.91	0.92
0.94	0.92	0.94	0.94	0.94	0.94	0.94	0.95	0.95
0.76	0.74	0.71	0.77	0.81	0.83	0.69	0.75	0.81
0.78	0.79	0.75	0.69	0.77	0.77	0.66	0.83	0.66
0.91	0.87	0.83	0.91	0.88	0.84	0.89	0.92	0.87
0.90	0.91	0.91	0.92	0.92	0.91	0.82	0.93	0.91
0.92	0.94	0.94	0.94	0.94	0.94	0.92	0.94	0.94
0.96	0.97	0.97	0.97	0.97	0.97	0.96	0.97	0.97
0.97	0.97	0.98	0.97	0.98	0.98	0.97	0.97	0.97

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1324	1344	1437	1451	1513	1972
RTD	**RTE**	**RWE**	**RTH**	**RHQ**	**RPY**
0.78	0.79	0.82	0.81	0.81	0.86
0.79	0.80	0.81	0.80	0.82	0.85
0.73	0.67	0.74	0.71	0.73	0.72
0.54	0.57	0.61	0.63	0.59	0.67
0.67	0.63	0.68	0.68	0.69	0.64
0.81	0.82	0.84	0.83	0.82	0.88
0.84	0.84	0.85	0.85	0.86	0.89
0.75	0.77	0.81	0.80	0.81	0.86
0.77	0.77	0.80	0.79	0.80	0.85
0.75	0.78	0.80	0.79	0.78	0.86
0.73	0.72	0.79	0.75	0.77	0.73
0.48	0.53	0.55	0.60	0.48	0.57
0.79	0.80	0.84	0.83	0.83	0.86
0.87	0.87	0.89	0.88	0.89	0.91
0.74	0.72	0.78	0.70	0.78	0.76
0.71	0.65	0.77	0.69	0.74	0.65
0.83	0.86	0.88	0.86	0.87	0.90
0.76	0.82	0.83	0.79	0.81	0.86
0.82	0.81	0.85	0.83	0.83	0.81
0.88	0.89	0.90	0.88	0.90	0.92
0.88	0.87	0.90	0.88	0.89	0.92
0.87	0.87	0.89	0.88	0.89	0.91
0.56	0.41	0.54	0.54	0.44	0.43
0.74	0.75	0.84	0.78	0.80	0.78
0.81	0.81	0.86	0.83	0.81	0.84
0.89	0.87	0.89	0.90	0.91	0.91
0.91	0.92	0.92	0.92	0.93	0.95
0.79	0.71	0.83	0.79	0.82	0.74
0.72	0.79	0.83	0.78	0.77	0.83
0.83	0.83	0.87	0.83	0.85	0.90
0.81	0.79	0.83	0.77	0.80	0.78
0.89	0.89	0.90	0.90	0.90	0.94
0.67	0.72	0.77	0.76	0.76	0.68
0.85	0.83	0.89	0.86	0.87	0.85

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0.83	0.81	0.85	0.82	0.85	0.90
0.84	0.82	0.86	0.86	0.86	0.90
0.87	0.83	0.87	0.84	0.88	0.88
0.74	0.74	0.76	0.69	0.70	0.62
0.92	0.91	0.93	0.91	0.92	0.90
0.93	0.92	0.93	0.92	0.94	0.95
0.90	0.90	0.92	0.92	0.91	0.92
0.88	0.90	0.90	0.91	0.91	0.95
0.93	0.92	0.94	0.92	0.94	0.95
0.95	0.95	0.95	0.96	0.96	0.96
0.76	0.85	0.75	0.81	0.86	0.82
0.76	0.76	0.85	0.81	0.86	0.85
0.92	0.94	0.93	0.93	0.91	0.91
0.94	0.92	0.95	0.92	0.93	0.96
0.94	0.93	0.95	0.95	0.96	0.96
0.97	0.98	0.98	0.98	0.98	0.98
0.98	0.98	0.98	0.98	0.98	0.99

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STROBE Statement—Checklist of items that should be included in reports of ***cross-sectional studies***

	Item No	Recommendation	Page No
Title and abstract	1	(*a*) Indicate the study's design with a commonly used term in the title or the abstract	1
		(*b*) Provide in the abstract an informative and balanced summary of what was done and what was found	2
Introduction			
Background/rationale	2	Explain the scientific background and rationale for the investigation being reported	3,4
Objectives	3	State specific objectives, including any prespecified hypotheses	2,4
Methods			
Study design	4	Present key elements of study design early in the paper	4,5
Setting	5	Describe the setting, locations, and relevant dates, including periods of recruitment, exposure, follow-up, and data collection	4
Participants	6	(*a*) Give the eligibility criteria, and the sources and methods of selection of participants	4
Variables	7	Clearly define all outcomes, exposures, predictors, potential confounders, and effect modifiers. Give diagnostic criteria, if applicable	4,5
Data sources/ measurement	8*	For each variable of interest, give sources of data and details of methods of assessment (measurement). Describe comparability of assessment methods if there is more than one group	*4*
Bias	9	Describe any efforts to address potential sources of bias	NA
Study size	10	Explain how the study size was arrived at	4,5
Quantitative variables	11	Explain how quantitative variables were handled in the analyses. If applicable, describe which groupings were chosen and why	4
Statistical methods	12	(*a*) Describe all statistical methods, including those used to control for confounding	4,5
		(*b*) Describe any methods used to examine subgroups and interactions	NA
		(*c*) Explain how missing data were addressed	5
		(*d*) If applicable, describe analytical methods taking account of sampling strategy	5
		(*e*) Describe any sensitivity analyses	NA
Results			
Participants	13*	(a) Report numbers of individuals at each stage of study—eg numbers potentially eligible, examined for eligibility, confirmed eligible, included in the study, completing follow-up, and analysed	5
		(b) Give reasons for non-participation at each stage	5
		(c) Consider use of a flow diagram	NA
Descriptive data	14*	(a) Give characteristics of study participants (eg demographic, clinical, social) and information on exposures and potential confounders	5,6
		(b) Indicate number of participants with missing data for each variable of interest	5,6
Outcome data	15*	Report numbers of outcome events or summary measures	6
Main results	16	(*a*) Give unadjusted estimates and, if applicable, confounder-adjusted estimates and their precision (eg, 95% confidence interval). Make clear which confounders were adjusted for and why they were included	6

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		(*b*) Report category boundaries when continuous variables were categorized	NA
		(*c*) If relevant, consider translating estimates of relative risk into absolute risk for a meaningful time period	NA
Other analyses	17	Report other analyses done—eg analyses of subgroups and interactions, and sensitivity analyses	NA
Discussion			
Key results	18	Summarise key results with reference to study objectives	6
Limitations	19	Discuss limitations of the study, taking into account sources of potential bias or imprecision. Discuss both direction and magnitude of any potential bias	7
Interpretation	20	Give a cautious overall interpretation of results considering objectives, limitations, multiplicity of analyses, results from similar studies, and other relevant evidence	7,8
Generalisability	21	Discuss the generalisability (external validity) of the study results	8
Other information			
Funding	22	Give the source of funding and the role of the funders for the present study and, if applicable, for the original study on which the present article is based	1

*Give information separately for exposed and unexposed groups.

Note: An Explanation and Elaboration article discusses each checklist item and gives methodological background and published examples of transparent reporting. The STROBE checklist is best used in conjunction with this article (freely available on the Web sites of PLoS Medicine at http://www.plosmedicine.org/, Annals of Internal Medicine at http://www.annals.org/, and Epidemiology at http://www.epidem.com/). Information on the STROBE Initiative is available at www.strobe-statement.org.

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The reliability of hospital scores for the Cancer Patient Experience Survey: analysis of publicly reported patient survey data

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The reliability of hospital scores for the Cancer Patient Experience Survey: analysis of publicly reported patient survey data

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Declarations.

Competing Interests. The authors report grants from MacMillan Cancer Support, during the conduct of the study. GA and GL have acted as academic consultants providing methodological advice to NHS England Insight team regarding the Cancer Patient Experience Survey.

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Ethical Approval. This study is entirely based on publically available data and so ethical approval is not required. The actual survey was conducted by the survey providers after obtaining section 251 approval of the NHS Act 2006 and Health Service (Control of Patient Information) Regulations 2002.

Guarantor. GA is guarantor for this paper

Contributorship. GA and GL conceived and designed the study. GA developed the methodological framework. MGC performed the analysis. All authors (GA, MGC, TMP, GL) contributed to the interpretation of findings and the drafting of the manuscript.

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Data sharing statement. This study is based entirely on publically available data which can be found at http://www.ncpes.co.uk/reports/2016-reports/local-reports-1/data-tables-1

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Abstract

Objectives To assess the degree to which variations in publicly reported hospital scores arising from the English Cancer Patient Experience Survey (CPES) are subject to chance.

Design Secondary analysis of publically reported data.

Setting English National Health Service hospitals

Participants 72,756 patients who were recently treated for cancer in one of 146 hospitals and responded to the 2016 English Cancer Patient Experience Survey

Main outcome measures Spearman-Brown reliability of hospital scores on 51 evaluative questions regarding cancer care.

Results Hospitals varied in respondent sample size with a median hospital sample size of 419 responses (range 31 - 1972). There were some hospitals with generally highly reliable scores across most questions, whereas other hospitals had generally unreliable scores (the median reliability of question scores within individual hospitals varied between 0.11 and 0.86). Similarly, there were some questions with generally high reliability across most hospitals whereas other questions had generally low reliability. Of the 7,377 individual hospital scores publically reported (146 hospitals by 51 questions, minus 69 suppressed scores), only 34% reached a reliability of 0.7, the minimum generally considered to be useful. In order for 80% of the individual hospital scores to reach a reliability of 0.7, some hospitals would require a four-fold increase in number of respondents; although in a few other hospitals sample sizes could be reduced.

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Conclusions The English Patient Experience Survey represents a globally unique source for understanding cancer patient experience, but in its present form it is not reliable for high stakes comparisons of the performance of different hospitals. Revised sampling strategies and survey questions could help increase the reliability of hospital scores, and thus make the survey fit for use in performance comparisons.

Strengths and limitations of this study

- We make use of the actual data used in public reporting of a high profile survey with a high response rate, allowing us to make direct inferences about the quality indicators under consideration.
- Mixed effects logistic regression models are used to effectively partition the observed variability in hospital scores into that which is due to chance and that which reflects true differences between hospitals.
- Our analysis considers three different contributing factors affecting the reliability of hospital scores which can give insight into designing potential improvement efforts.
- This study only considers the crude hospital scores and not those adjusted for patient case-mix which have recently been reported. However, as we expect any such adjustment to result in lower reliabilities the conclusions of the study remain valid.

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Introduction

'Before you can improve it you first have to measure it' is a common adage of the quality improvement movement across the world[1] . Coupled with a tendency towards greater public accountability, this maxim has led to an ever-increasing number of measurement initiatives, typically underpinned by public reporting of scores of healthcare organisations.[2, 3]

Together with patient safety and clinical effectiveness, patient experience is being increasingly accepted as a distinct dimension of care quality[4]. Relatedly, policy-makers regularly commission large scale nationwide patient surveys in the US and the UK.[5-7] Most such surveys are aimed at patients with diverse a range of conditions. However, a repeatable disease-specific survey for cancer patients was launched in England in 2010, and its findings are reported publicly and used by healthcare improvement teams in constructing and evaluating action plans.

The statistical reliability of measures of care quality remains a concern, as often the sample sizes involved in organisational comparisons are small. Ideally, measurement initiatives should follow prior examination of the statistical properties of indicators, but this is rarely the case. Some previous UK work has examined the reliability of indicators of stage at diagnosis, diagnostic activity, general practice patient experience and general practice high risk prescribing, on the whole providing cautionary findings indicating the risk of unreliability of organisational rankings.[8-12] Similar approaches and findings have been reported from the US and Dutch settings.[13-19]

These considerations highlight the need for examining the reliability of hospital scores for the Cancer Patient Experience survey, and have motivated us to examine this question empirically in this study. Its aim was to provide a detailed profile of the statistical reliability (and therefore of the role of chance) in hospital scores derived from the Cancer Patient Experience Survey.

Methods

Data were analysed relating to respondents to the 2016 National Cancer Patient Experience Survey. The (English) National Cancer Patient Experience Survey 2016 survey questionnaire is the sixth iteration of the survey first undertaken in 2010. It includes many evaluative questions covering the experience of diagnosis, diagnostic testing, shared-decision-making, specialist nursing, inpatient care, anti-cancer treatment (surgery, radiotherapy, chemotherapy), hospital discharge and care in the community, together with an overall item for overall satisfaction with care. Survey results are reported publicly for each English hospital to drive local quality improvements, to assist commissioners and providers of cancer

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care; and to inform the work of the various charities and stakeholder groups supporting cancer patients. The survey was mailed to all adult patients (aged 16 and over) discharged from a National Health Service hospital after inpatient or a day case cancer-related treatment during April-June 2016 after vital status checks at survey mail-out (between 3-5 months after the sampling period).

Respondents comprised patients aged 16 years and above who were treated for cancer in English National Health Service (NHS) hospitals during April-June 2016. The patients had relevant ICD10 codes for cancer (C00-99 excluding C44 and C84, and D05) and were not known to have died prior to the survey mail out. Questionnaires were sent by post and responses could be made by post, online or using a telephone translation service. Details of the survey and method of administration have been published previously[20]. In this study we make use of publically reported hospital level data[21].

Survey questions have up to 7 response options which are dichotomised for public reporting such that hospitals scores represent the percentage of patients reporting a positive experience for each question. Scores are produced for hospital trusts and Clinical Commissioning Groups (CCG). Further details are given in the Technical Documentation [22].

We calculated the Spearman-Brown (inter-unit) reliability of each hospital score. This is equivalent to the proportion of variation in hospital-level mean scores (for a given hospital sample size) attributable to the true (underlying) variation between them. Following previous work, we estimated reliability by partitioning the observed variability in hospital scores into two components, variability between hospitals and variability within hospitals, using mixed effects logistic regression models[8, 23]. For each question, a random intercept model (with no fixed effects other than the constant) was used to estimate the between hospital variance on the log-odds scale. This variance is a measure of the true (underlying) variation which can be thought of as that which would be seen with very large sample sizes in each hospital, such that the influence of sampling variation would be minimal [8, 23]. Since our scores are binary measures, the within hospital variance also depends on the level of achievement at each hospital, and can be described by the binomial distribution. In this context, for each question the reliability λ of hospital i is given by

$$\lambda_i = \frac{\sigma_b^2}{\sigma_b^2 + \frac{1}{p_i(1-p_i)n_i}} \qquad 1$$

Where σ_b^2 is the true (underlying) between hospital variance on the log-odds scale, p_i is the observed proportion of patients reporting a positive experience in hospital i and n_i is the sample size of hospital i. High stakes purposes have important consequences for an individual or organisation (i.e. when attached to a financial incentive, publicly reported league tables or an outcome measure in a research study) and therefore require high measure reliability. Reliability can takes values from 0 to 1. Values <0.70 are considered to represent low reliability, whereas values ≥0.90 represent high reliability, required for 'high-stake' purposes; in-between values are considered to represent adequate reliability.

Where less than 21 responses were received for an individual question for a hospital, results were not publicly reported. Of the 148 hospitals included in the survey there were two hospitals with less than 21 responses for every question. We excluded these two hospitals from our analysis. However there remained 69 suppressed scores (from 18 hospitals) in the

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publically reported data due to low numbers of respondents to certain questions applicable to only some patients. These scores were excluded from the analysis.

We calculated reliability for every hospital score on each question (a total of 146 hospitals multiplied by 51 questions = 7,446 individual scores, minus 69 suppressed scores = 7,377 individual scores).

Additionally, the model outputs were used to estimate the increase in sample size required for each hospital to reach a reliability of 0.7 for each question [8, 23]. We used R version 3.4.4 for all analyses.

Patient involvement

The Cancer Patient Experience Survey development and administration are supported by an advisory group which includes patient advocates. The present study forms part of a wider project funded by MacMillan Cancer Support for which there is an advisory group with patient representative participation.

Results

Overall, there were 72,756 respondents to the National Cancer Patient Experience Survey in 2016 (response rate 66%) who were treated at the 146 hospitals included in our analysis. Our findings are displayed in three figures each comprising a grid of hospitals by questions. Hospitals are ordered according to the number of responders and questions are ordered according to the between hospital variance. Hospitals varied in respondent sample size with a median of 419 responses (range 31 - 1972). Due to different sections of the questionnaire corresponding to different care pathways, not all questions were applicable to all patients and so the number of respondents varied considerably for each of the 51 questions. The number of respondents answering individual questions varied between 15,968 (22%) and 71,773 (99%) with a median of 52,786 (73%). The number of respondents for each question in each hospital is shown in Figure 1 and supplementary material Table 1.

[Insert Figure 1.]

The percentage of patients reporting a positive experience was highly variable between questions and between hospitals (Figure 2 and supplementary material Table 2). The median percentage of patients reporting positive experience across individual questions was 79% (range 29% - 96%) while the corresponding median across individual hospitals was 75% (range 51% - 82%).

[Insert Figure 2.]

Figure 3 (and supplementary material Table 3) shows the reliability of the score for each question at each hospital. There were some hospitals with generally high reliability across most questions, whereas others had generally low reliability across survey items. The median reliability of question scores within individual hospitals was 0.60 (range 0.11 – 0.86). Similarly there were some questions with generally high reliability whereas others had generally low reliability. The median reliability of hospital scores within individual questions was 0.58 (range 0.21 – 0.93).

[Insert Figure 3.]

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Given that reliability depends on the sample size, the between hospital variance and the hospital performance, we can examine how these factors influence reliability. Consistent with this hospitals which tended to have low reliability also had small sample sizes. Also questions with low reliability tended to be those where the between-hospital variance is low. However, there are some exceptions to this which can be seen as the horizontal lines composed mostly of red squares in Figure 3. Some CPES questions are unreliable across all hospitals because they have, across all hospitals, a small number of respondents to that particular question. Examples include questions only applicable to patients treated by radiotherapy (questions 44 and 45). In general, questions with small sample sizes relate to patients on a particular care pathway. Other cases of low reliability can be seen in questions for which hospitals performance is consistently high (questions 5 and 25).

Overall the reliability of hospitals scores for the survey is low. Of the 7,377 individual hospital-question pairs, only 35 % reached a reliability of 0.7, the minimum generally considered to be useful. As it is possible to improve reliability by increasing the sample size for a given hospital we calculated how many multiples of the current sample size would be required to reach a reliability of 0.7 for each question (Figure 4) It would be possible to increase the percentage of hospital scores reaching a reliability of 0.7 to 60% by doubling the individual hospital sample size. Further increases lead to smaller gains, though 80% of the individual hospital scores would have achieved a reliability of 0.7 or more with 4 times as much data (which represents the upper limit of what could be achieved within a single year of data collection, though could also be achieved by aggregating over longer time periods).

[Insert Figure 4.]

Discussion

In this study we have profiled the reliability of a high-profile national patient experience survey for cancer patients. Our findings show that about two-thirds of hospital scores in this survey do not meet reliability levels generally accepted as useful. In practical terms this means that identification of hospitals that are performing well in specific aspects of care is hampered due to the influence of chance. The lack of reliability can be attributed to different factors which have variable influence.

Although there are thousands of healthcare quality indicators in current use, most are bereft of any evaluation of their statistical reliability. Patient experience scores of English general practices arising from early waves of the GPPS survey were found to have very high reliability, enabling subsequent reductions in the survey sample. [9, 10] In contrast, the present study, examining the reliability of CPES hospital scores for the first time, suggests the need for increases in the survey samples (see below). The present study forms part of an emerging body of literature examining the reliability of a diverse range of quality indicators, including from the UK, the US and The Netherlands[8-19, 22, 23]; we would nonetheless like to re-emphasise the mismatch between the very large number of indicators in current use and the small number of indicators that have been profiled for their reliability.

The key strength of this study is the use of the actual data used in public reporting of a high profile survey with a high response rate. Its main limitation is that our analysis does not take into account the influence of patient case-mix. Certain patient groups have systematic

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tendencies towards reporting positive experiences compared to others[24, 25] and for this reason the results of the survey are reported in both adjusted and unadjusted form. Nonetheless, as patient case-mix explains some of the variability between hospitals[26], had we calculated the reliability of case-mix adjusted scores we would have found the reliability would have been even lower than that presented here.

There are some hospitals that have low reliability for most questions as they treat a small number of patients, meaning that the uncertainty on their scores is inherently high. Further, there are some questions with low reliability due to limited true (underlying) variation between hospitals. In such cases, it is very hard to distinguish between hospitals since they are all performing at a similar level. As a consequence, in the absence of very large sample sizes, the observed variability between hospitals will be dominated by chance. A particular example of this phenomenon occurs for questions whose performance is consistently high/low across hospitals. It is harder to distinguish hospitals when performance is close to 0% or 100%. Lastly, there are other questions with a small number of respondents as they are applicable to only subsets of patients. In brief the key mechanisms leading to low reliability are small hospital-level respondent sample, limited variability between hospitals (including because of ceiling/flooring effects) and small survey-level respondent sample.

Given one of the main uses of NCPES is to inform hospital level performance, one might suggest that in its current form the survey is not fit for one of its main intended purposes (though it should be noted that the reliability limitations we report do not affect the use of the survey for providing national-level intelligence about the experience of cancer patients across English hospitals). It could be argued that rather than suppressing score made on the basis of less than 20 respondents as is currently done, all scores which have a reliability below 0.7 should be suppressed. Work in other contexts have shown that when reliability of metrics is low there is a large amount of misclassification of performance.[23, 27] At the very least we believe that users of the survey results should be made aware of the reliability of the hospital scores (with such reliability estimates accompanying the publicly reported scores) so that an informed interpretation can be made by patients, clinicians, managers and members of the public. There is a range of reasons why such transparent reporting of reliability of hospital scores may be useful. For example, a hospital may chose to focus improvement efforts on those questions where they perform worse than average *and* where they know their scores to be reliable. As we already noted, hospital comparisons are not the only purpose of the NCPES. National assessments of patient experiences are supported by CPES and these data have been used to investigate variation and disparities in care between patient groups[24, 25]. For these uses that do not involve organisational comparisons, concerns about the lack of inter-unit reliability are not applicable. Furthermore, it can also be useful to know that all hospitals are performing above a target level even though we may not be able to distinguish between them.

There are various ways in which the survey could be changed in response to these findings. Firstly, by redesigning the survey instrument or related reporting conventions. For example, questions where the variability between hospitals is very low could be considered as candidates for removal from subsequent survey waves as there is little point in classifying hospitals on aspects of care for which they have no tangible differences between them. A similar approach could be taken for questions where hospital performance is very high, although it may also be possible to add to or redesign the response options (or associated

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reporting conventions) to bring the mean reported scores closer to 50% - which will increase the reliability of these items. We do note that in both these situations there is something to be celebrated as a lack of variability suggests equitable healthcare delivery and -in the context of 'ceiling' effects, a high performance implies high quality health care delivery. However, continued measurement of such aspect may not be the best use of patient survey resources. It is not without irony that the aims of quality improvement efforts underpinned by patient surveys are to improve service and reduce disparities, both of which reduce reliability and in turn reduce the usefulness of such survey items.

Another way by which reliability could be increased is to increase the sample size. Currently the NCPES sample consists of all patients treated in a particular three-month period. If a whole year sample was used instead we would have up to four times as many patients available. Our findings suggest that the vast majority of hospitals-level scores in such a case would be reliable, though of course there would be an increase in cost of delivering the survey. Rather than continuing with the current 'census' approach (whereby all patients who fit eligibility criteria during the survey sampling period form part of the sampling frame), probability sampling could be used. This would mean surveying more patients than is currently done in hospitals treating small numbers of cancer patients and fewer than currently done in those treating many cancer patients, potentially having little impact on the total sample size. Indeed the optimal design for a survey that puts equal importance on every hospital is an equal sample size for each hospital and fixed target respondent numbers per unit of assessment are already used in a number of NHS and international surveys[6, 7]. However, changing the length of the sampling window will likely impact the composition of responders as this is dictated by variation in treatment modalities, early mortality and non-response, the effect of which will depend on the sampling window [28]. This in turn may impact the ability to compare results to those from previous years. An alternative approach of aggregating multiple years of survey results will also improve reliability, though it will reduce the timeliness of scores and potentially reduce the usability of the findings. Similarly, improvements in response rate can also increase the sample size, in turn improving reliability. The scope for improvement in this survey may be limited due to it already having a high response rate, but for other surveys that may not be true.

Conclusion

The English Patient Experience Survey represents a globally unique source for understanding cancer patient experience, but in its present form it is not reliable for high stakes comparisons of the performance of different hospitals. In profiling the survey we have found that around two-thirds of hospital scores are not reliable. This severely hampers the use of this survey for hospital comparisons and raises questions over the suitability of its current design. Classifying hospitals as being a poor performer on an unreliable question may lead to unfair reputational loss and misplaced quality improvement efforts resulting in an opportunity cost. Classifying hospitals as high performers on unreliable questions may lead to false reassurance in related areas thus missing the opportunity for improvement. Redesigning the questions and sampling strategy used could dramatically improve the percentage of reliable hospital scores and thus making the survey far more useful.

Figure legends

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Figure 1 Sample sizes for each of the 146 hospitals included in the analysis by question (CPES 2016). Each rectangle corresponds to a single hospital and question. Its colour indicates one of five sample size categories as shown on the legend. The exact values for each cell in this plot are provided in supplementary material Table 1.

Figure 2 Proportions of patients reporting a positive experience by question and for each of the 146 hospitals included in the analysis (CPES 2016). Each rectangle corresponds to a single hospital and question. Its colour indicates one of five proportions categories as shown on the legend. The exact values for each cell in this plot are provided in supplementary material Table 2.

Figure 3 Main central grid: Reliability of hospital scores for each of the 146 hospitals included in the analysis (CPES 2016). Each rectangle corresponds to a single hospital and question. Its colour indicates one of four reliability categories as shown on the legend. Left hand side plot: The variance for each question on the log odds scale. The order of the questions has the same order than that of the main grid and is sorted from the question with lowest between hospital variance to the question with greatest between hospital variance. Bottom plot: The sample size for each hospital in terms of the total number of responders. The order of the hospitals has the same order than that of the main grid and is sorted from the hospital with the smallest sample size to the hospital with greatest sample size. The exact values for each cell in this plot are provided in the supplementary material Table 3.

Figure 4 The expected percentage of hospital scores reaching a reliability of at least 0.7 when changing individual hospital sample sizes for each question.

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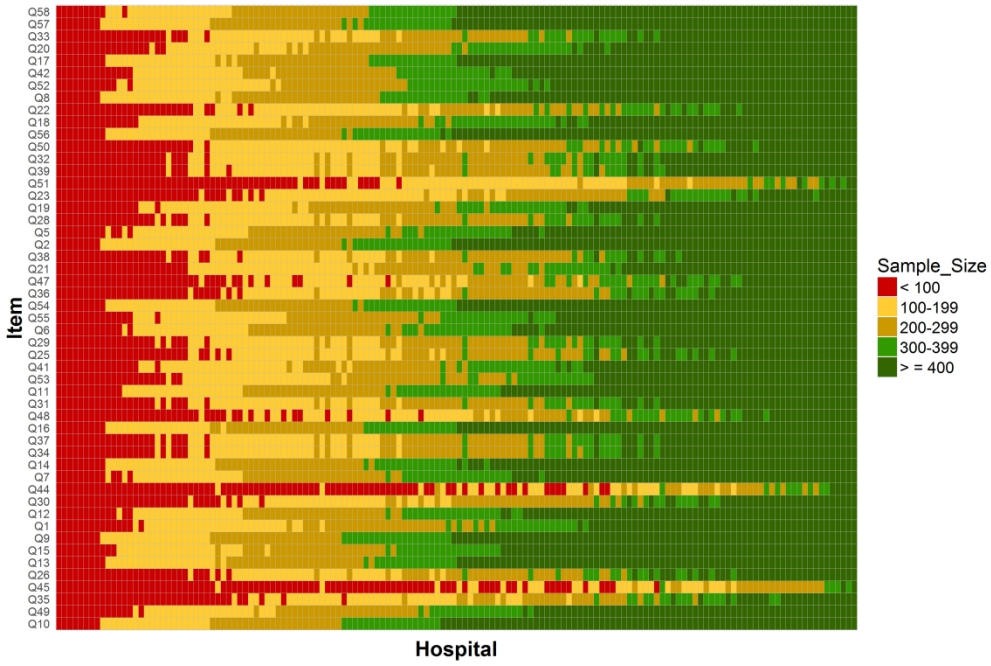

Figure 1 Sample sizes for each of the 146 hospitals included in the analysis by question (CPES 2016). Each rectangle corresponds to a single hospital and question. Its colour indicates one of five sample size categories as shown on the legend. The exact values for each cell in this plot are provided in supplementary material Table 1.

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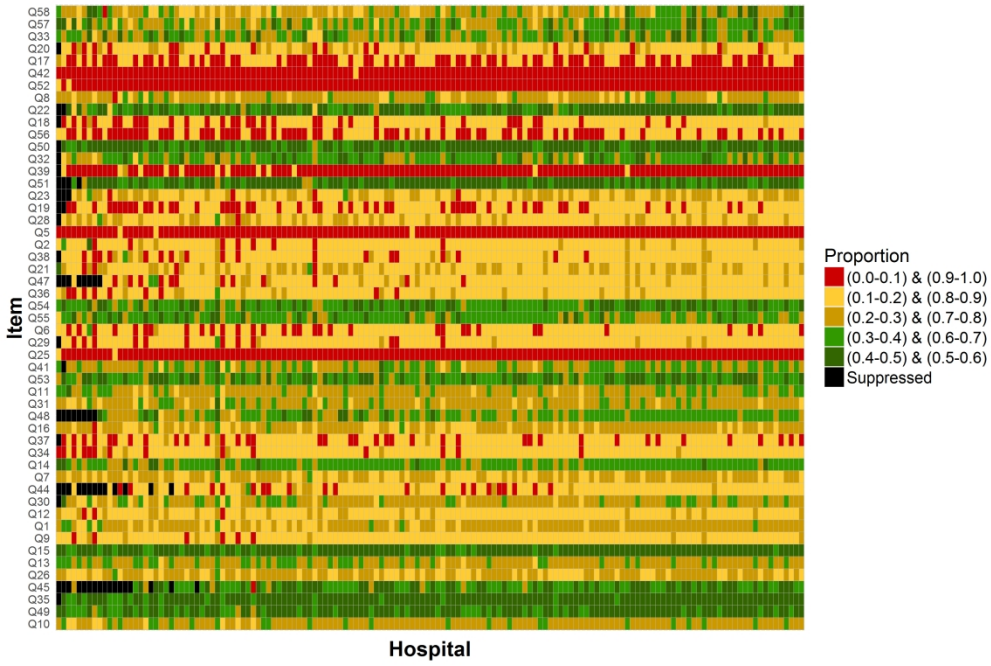

Figure 2 Proportions of patients reporting a positive experience by question and for each of the 146 hospitals included in the analysis (CPES 2016). Each rectangle corresponds to a single hospital and question. Its colour indicates one of five proportions categories as shown on the legend. The exact values for each cell in this plot are provided in supplementary material Table 2.

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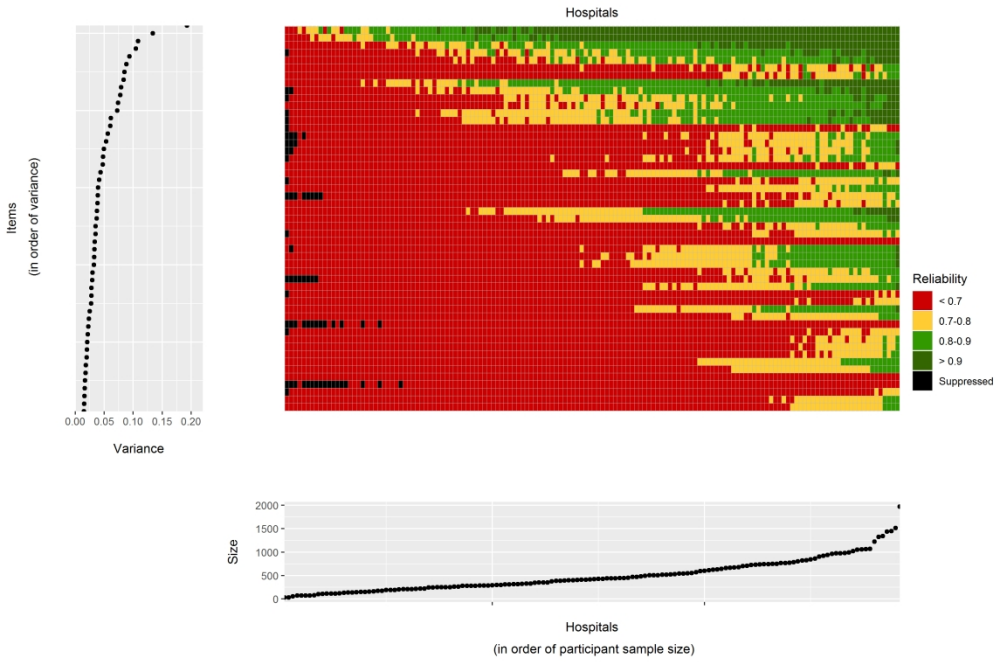

Main central grid: Reliability of hospital scores for each of the 146 hospitals included in the analysis (CPES 2016). Each rectangle corresponds to a single hospital and question. Its colour indicates one of four reliability categories as shown on the legend. Left hand side plot: The variance for each question on the log odds scale. The order of the questions has the same order than that of the main grid and is sorted from the question with lowest between hospital variance to the question with greatest between hospital variance. Bottom plot: The sample size for each hospital in terms of the total number of responders. The order of the hospitals has the same order than that of the main grid and is sorted from the hospital with the smallest sample size to the hospital with greatest sample size. The exact values for each cell in this plot are provided in the supplementary material Table 3.

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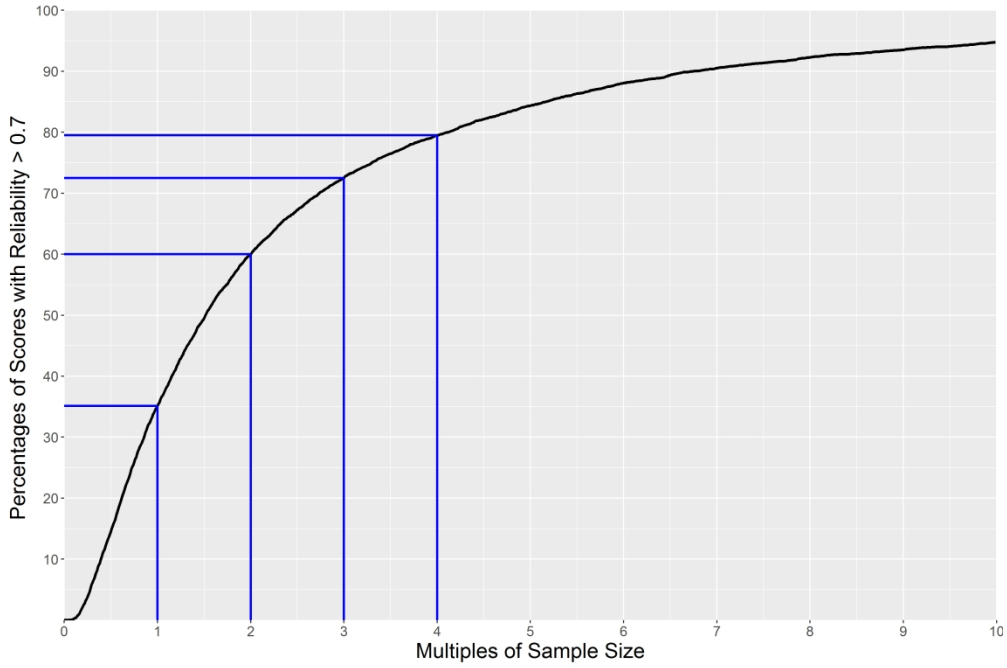

The expected percentage of hospital scores reaching a reliability of at least 0.7 when changing individual hospital sample sizes for each question.

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Table 1. Sample sizes by question for each of the 146 hospitals included in the analysis (CPES 2016). the cells in Figure 1.

Questions \ Hospitals	RQX	RRJ	RT3	RMP	RPC	REP	RAN
Q10	31	30	53	71	70	73	74
Q49	22	27	44	62	54	68	63
Q35	20	23	34	45	33	52	44
Q45	6	6	1	22	6	13	17
Q26	23	27	46	48	63	64	62
Q13	29	30	44	65	61	67	66
Q15	27	29	35	60	54	64	61
Q9	30	31	53	69	68	71	73
Q1	23	21	31	56	54	61	58
Q12	29	23	45	65	54	64	58
Q30	18	23	41	41	40	50	57
Q44	8	6	2	22	7	15	18
Q7	27	26	47	62	55	54	67
Q14	29	31	47	67	64	68	66
Q34	21	28	48	54	50	66	62
Q37	20	28	48	53	50	66	63
Q16	29	30	50	67	69	71	68
Q48	5	1	2	20	6	15	6
Q31	21	28	48	53	50	66	63
Q11	29	28	37	60	57	65	61
Q53	21	22	35	51	43	48	55
Q41	23	19	28	51	40	47	51
Q25	23	27	47	49	66	65	61
Q29	20	28	49	55	50	64	63
Q6	27	27	46	62	56	54	66
Q55	24	28	38	49	57	54	50
Q54	29	32	49	68	67	71	71
Q36	21	26	44	50	45	63	58
Q47	6	2	4	22	8	16	6
Q21	24	23	33	53	38	44	44
Q38	18	27	47	49	48	62	61
Q2	31	32	50	70	70	72	71
Q5	26	26	46	63	55	54	63
Q28	20	28	49	54	49	65	63
Q19	17	19	36	58	44	57	50
Q23	18	14	20	39	23	23	32
Q51	18	14	18	30	17	25	38
Q39	19	28	44	53	47	64	56
Q32	20	28	48	54	50	66	63
Q50	19	23	24	59	29	38	53
Q56	30	32	49	71	68	73	72
Q18	18	21	38	62	48	60	55
Q22	17	20	26	47	24	40	43
Q8	26	30	47	67	69	71	68
Q52	25	25	47	59	56	58	55

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Q42	23	21	33	61	61	54	60
Q17	29	27	47	68	67	70	68
Q20	19	24	34	61	45	57	51
Q33	21	28	48	54	49	66	62
Q57	29	32	48	69	66	73	71
Q58	29	26	49	66	64	69	70

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These values correspond to

RGM	RBQ	R1F	RKE	RE9	RJ6	RVY	RA4	RJN
75	101	107	110	112	115	118	133	134
70	84	83	86	88	89	88	102	97
33	59	49	50	44	50	35	52	43
16	15	16	20	14	19	11	19	33
48	79	69	57	46	68	52	74	76
62	95	101	106	110	108	116	127	131
57	89	94	94	100	101	102	115	124
75	100	108	105	110	112	118	131	133
45	71	70	89	82	79	92	104	83
66	87	93	99	100	96	99	110	115
48	70	61	49	53	64	42	60	50
16	16	20	22	16	22	12	22	36
73	80	100	86	96	103	94	117	108
67	96	103	103	106	109	112	123	130
53	83	75	57	57	76	51	79	66
53	83	75	57	57	76	52	79	66
70	99	102	106	108	106	112	128	131
11	21	28	55	52	40	44	60	62
53	82	75	56	57	76	51	78	65
64	85	94	95	97	103	103	114	120
51	73	71	81	84	75	83	82	98
48	64	76	79	92	82	83	94	103
49	80	68	56	46	70	51	74	78
53	83	75	56	56	75	52	78	66
73	80	99	84	94	103	95	118	108
62	77	92	79	87	76	94	101	105
75	97	102	101	109	107	117	129	130
50	76	66	52	50	58	44	64	56
14	20	31	59	60	43	53	65	68
45	67	67	86	78	64	76	78	77
52	79	70	51	53	69	44	71	59
72	102	107	110	108	112	117	129	131
73	81	101	87	96	101	95	118	106
53	81	75	55	56	73	52	79	66
56	73	82	94	95	71	78	84	101
22	37	39	60	49	44	45	56	55
22	56	36	37	33	35	37	27	35
51	81	71	54	55	69	47	76	64
53	82	75	57	57	75	50	78	65
35	77	62	60	60	56	60	42	71
75	99	105	105	109	107	120	132	133
63	78	86	98	94	73	82	97	107
37	58	58	63	72	48	56	69	49
70	100	100	105	104	106	109	125	125
65	83	85	90	100	101	89	115	110

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59	79	87	94	97	94	94	115	125
74	98	105	109	106	100	110	129	127
50	73	84	92	87	75	87	86	93
53	81	75	57	57	74	49	78	65
74	100	103	105	109	109	117	131	130
70	97	105	102	104	98	120	124	127

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RAS	RFR	RAX	RWW	RM3	RQM	RVR	RJR	RC1
137	138	143	149	150	157	170	175	187
111	121	113	114	133	112	120	130	136
60	67	62	62	90	62	55	61	85
25	24	15	24	29	32	12	25	35
71	72	92	77	92	70	66	82	129
128	132	132	136	146	149	154	163	179
121	122	112	129	132	134	139	150	160
136	137	142	147	146	154	166	172	187
101	104	108	105	102	110	128	127	133
113	117	116	120	130	140	136	156	158
67	68	78	77	97	61	76	76	100
28	27	18	28	36	36	15	30	41
115	117	125	126	128	128	135	155	165
128	133	132	135	143	144	155	164	174
79	83	100	89	112	88	83	89	119
79	81	100	88	112	87	83	89	119
133	134	133	143	145	150	154	166	179
56	54	49	36	49	73	57	61	58
79	83	100	89	110	87	82	89	117
128	122	122	129	121	138	147	155	167
87	85	92	94	106	98	92	113	128
102	109	98	106	106	117	109	110	139
71	72	94	80	93	71	64	82	130
78	83	100	89	112	87	83	88	118
116	116	122	128	128	130	133	157	163
108	111	96	111	114	110	118	134	149
128	129	134	140	140	150	161	169	176
65	75	77	77	95	73	67	69	104
60	58	53	40	55	77	61	68	65
81	84	68	86	90	93	85	92	105
73	79	96	84	105	76	76	83	112
135	136	144	151	148	154	161	172	184
114	117	124	125	129	124	129	156	165
79	83	100	89	111	87	82	87	117
105	114	97	105	114	111	134	131	122
59	57	53	63	62	70	51	54	67
38	51	36	40	64	43	35	44	45
76	83	95	86	106	79	79	86	111
79	81	99	86	111	88	83	89	119
64	85	56	85	92	73	66	74	78
137	135	145	145	147	156	163	171	181
108	125	108	111	116	115	140	133	122
66	79	45	77	86	68	54	63	80
130	133	124	140	138	139	158	163	170
115	110	116	111	135	136	130	139	157

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113	117	115	123	121	136	141	144	162
131	138	132	137	142	149	159	164	172
99	100	92	97	113	110	106	111	121
79	83	96	88	110	86	82	88	119
135	135	141	146	145	152	163	173	181
129	132	135	145	133	145	153	164	175

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RFF	RJ2	RA3	RBT	REN	RRF	RAP	RMC	RLQ
189	191	197	209	208	209	208	214	213
150	157	150	168	170	161	180	170	169
84	87	57	74	89	81	80	101	68
27	33	20	22	135	25	77	36	43
99	96	94	119	59	119	88	138	109
168	187	182	197	204	196	203	205	204
148	179	177	184	201	173	188	184	185
187	191	190	205	204	205	208	211	213
137	145	150	154	173	146	134	134	165
159	176	157	171	183	181	180	192	190
93	91	72	93	94	101	95	116	82
28	36	27	25	160	30	81	51	49
154	164	163	185	178	177	167	189	160
173	188	186	194	201	201	203	204	200
118	106	91	109	110	120	106	139	102
118	106	88	111	110	123	106	139	102
174	189	188	202	203	192	203	203	212
76	117	94	66	88	72	132	64	74
118	107	90	111	110	121	106	139	102
158	177	168	181	177	183	187	191	187
117	133	117	125	158	137	155	137	149
129	146	140	142	169	150	159	162	147
102	95	94	122	57	123	86	139	112
118	107	91	111	110	121	108	140	102
152	164	164	185	175	175	169	190	161
143	138	144	154	167	171	168	159	166
180	180	186	199	202	202	202	205	215
88	95	81	98	95	110	86	120	88
82	125	97	73	95	83	145	75	83
114	140	115	121	152	127	156	145	131
105	98	82	104	102	112	100	133	95
182	191	192	199	205	205	210	214	214
151	159	165	185	174	176	167	187	164
118	107	89	110	109	118	107	139	102
126	147	142	156	159	143	179	158	150
79	103	78	80	84	77	129	75	86
68	62	50	64	97	62	89	63	62
112	105	89	102	107	115	99	137	100
118	107	90	110	110	120	105	138	101
108	105	68	112	114	119	131	109	126
185	189	192	203	208	206	208	213	219
136	152	147	163	159	148	178	159	156
109	119	99	94	119	107	142	105	99
175	178	177	191	200	198	194	207	200
140	168	152	169	167	173	188	173	166

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153	174	173	172	192	177	179	188	190
171	187	193	197	201	191	204	198	207
126	134	150	138	173	145	169	165	153
113	104	90	110	110	119	105	139	100
181	189	191	204	207	207	212	212	219
179	184	180	199	198	196	199	200	210

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RLT	RDZ	RBK	RQQ	RBN	RDD	RFS	RTK	RCF
241	243	247	247	249	248	254	257	272
198	190	200	197	197	185	202	203	215
88	125	125	80	129	108	115	95	114
58	52	43	31	21	30	39	25	40
106	196	134	109	195	118	132	133	132
231	232	234	234	224	238	244	236	262
214	208	225	217	196	217	218	225	234
232	237	242	245	248	248	253	255	265
184	177	164	197	195	170	186	175	213
205	219	214	213	211	212	216	218	230
102	138	135	99	158	117	125	125	128
67	54	48	38	26	33	45	31	50
201	217	219	208	215	204	212	211	233
228	232	232	232	231	231	238	238	259
121	179	155	118	187	141	153	145	165
122	179	154	118	190	141	152	144	166
228	240	235	234	232	236	241	251	263
134	87	134	119	57	103	102	91	149
122	179	154	120	187	143	153	145	166
207	207	211	213	207	219	222	228	227
158	146	162	177	163	151	162	160	167
192	173	185	185	174	184	193	160	213
104	194	135	111	197	117	132	135	136
122	180	155	118	188	142	153	145	165
198	218	216	208	217	206	211	207	230
174	196	183	192	186	197	190	199	206
228	233	232	239	236	234	240	250	259
104	157	139	105	165	121	136	121	134
140	94	148	134	64	109	111	104	167
163	145	169	152	142	158	147	154	166
114	172	146	108	180	131	144	131	151
236	241	244	241	250	242	255	252	271
197	216	216	207	217	200	209	206	226
120	179	153	119	188	142	151	145	165
192	191	178	198	169	164	157	190	172
113	95	131	90	104	104	111	107	111
64	72	72	74	77	83	87	70	94
116	177	150	110	183	131	144	138	156
122	179	155	118	188	143	152	144	163
102	133	120	140	132	131	148	114	159
233	242	245	242	244	244	250	256	272
193	194	189	197	181	177	165	200	185
132	97	168	129	123	123	115	107	132
226	234	229	228	231	231	233	242	244
187	196	183	197	195	206	189	214	205

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212	201	210	222	204	196	218	204	250
231	240	235	235	232	227	235	245	254
170	174	209	179	167	176	174	172	215
119	177	153	118	186	140	153	145	163
234	241	240	241	243	239	250	256	268
227	235	235	234	231	232	243	247	259

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RWG	REM	RJF	RQW	RCB	RF4	RK5	RCD	RBZ
274	279	274	282	285	282	290	294	296
210	224	223	227	228	216	234	229	229
118	142	129	120	162	136	155	116	120
35	68	40	41	46	115	36	47	46
182	176	155	144	211	171	193	144	162
245	267	262	272	276	271	275	281	278
217	254	244	239	252	259	250	248	259
270	271	272	280	284	278	283	293	288
193	176	210	224	219	192	221	204	247
234	246	236	241	252	244	249	259	249
149	161	148	140	184	148	170	130	147
39	81	49	51	52	128	41	55	59
235	243	245	258	257	256	264	256	251
250	259	261	265	273	270	276	278	279
183	191	179	170	228	182	209	160	170
187	191	178	168	229	181	209	159	171
256	272	270	264	280	277	279	288	280
65	79	146	129	121	128	94	118	154
185	191	179	171	227	183	207	160	171
240	231	246	256	256	243	260	246	252
182	176	192	185	193	168	190	203	236
168	195	212	217	203	211	208	210	189
183	181	156	141	213	171	195	145	160
186	191	179	167	229	183	208	160	170
235	242	244	255	255	254	261	257	249
205	203	211	220	222	215	233	213	230
260	265	269	277	278	271	277	278	285
163	164	152	138	210	153	187	138	155
76	93	161	157	132	144	106	133	162
157	181	183	173	183	187	165	186	178
176	179	170	160	220	170	194	149	160
270	273	273	282	283	284	292	289	291
234	240	244	255	254	250	263	259	248
184	190	177	171	228	181	208	160	171
200	198	186	213	212	220	213	233	222
111	107	124	117	131	160	121	140	117
82	101	81	70	83	101	71	91	87
176	188	165	162	224	173	201	156	170
185	190	179	171	227	182	206	159	168
139	169	153	146	136	153	133	166	152
270	273	270	281	285	283	285	293	290
210	210	193	228	223	232	219	247	236
113	165	150	137	137	161	146	153	128
254	255	263	262	266	270	278	274	267
239	222	251	251	238	225	243	243	267

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204	245	240	263	233	251	246	254	251
262	266	261	264	272	279	283	286	279
198	202	185	203	211	203	205	228	200
185	191	177	167	225	181	208	158	170
264	274	269	282	284	276	286	290	292
259	260	262	269	274	272	275	271	282

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RTP	RWJ	RC9	RGP	RD8	RBD	RNQ	RP5	RVJ
306	305	306	308	315	321	324	337	350
237	227	251	251	249	256	263	274	290
95	165	122	133	127	116	141	150	172
79	47	55	45	44	39	69	44	82
159	205	182	142	161	164	175	174	275
294	285	294	295	306	299	307	313	335
272	260	272	268	288	270	288	292	304
306	304	302	308	312	315	320	331	345
230	259	212	239	235	238	224	243	254
266	272	278	255	267	262	278	289	311
117	182	155	160	148	135	152	179	202
96	50	59	59	56	49	79	53	95
269	269	271	279	269	272	288	289	310
298	283	298	294	303	293	311	319	335
149	227	182	184	181	166	191	216	241
147	225	182	182	183	167	191	215	244
299	294	297	292	302	303	313	318	333
147	66	139	133	178	128	165	106	74
150	227	182	184	183	167	192	215	243
276	263	273	265	274	272	277	293	311
198	205	201	206	221	225	208	219	234
224	194	223	226	232	234	249	235	244
158	208	184	141	164	164	174	177	277
150	226	182	183	183	166	191	213	244
267	267	271	281	269	274	290	286	309
230	238	247	236	227	247	250	249	269
289	291	303	298	306	309	313	320	327
121	192	163	159	157	144	171	202	219
163	71	158	152	192	142	184	122	85
193	182	216	195	221	193	209	200	235
133	213	169	171	173	156	173	195	233
302	298	308	307	313	316	320	336	341
270	266	268	281	266	271	286	279	302
150	225	181	183	182	165	190	213	243
234	224	249	215	212	242	237	236	259
136	112	150	125	155	137	136	144	148
75	108	121	86	90	98	83	119	109
141	216	173	170	172	160	185	202	236
149	225	180	182	180	166	190	215	240
148	165	199	159	135	173	151	210	151
303	298	306	305	313	314	323	329	344
239	231	260	223	217	252	258	248	263
130	128	168	175	159	169	164	177	144
289	282	285	292	299	299	298	323	335
273	268	274	232	272	253	267	262	291

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277	233	273	272	273	259	277	276	281
293	289	299	284	296	307	315	319	330
209	201	239	234	233	226	239	249	282
149	222	178	181	182	164	187	215	238
304	298	302	298	309	314	317	331	340
292	285	290	292	298	302	312	318	329

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RW3	RJC	RAE	RBL	RGR	RQ6	R1K	RN7	RHW
349	347	372	377	383	387	390	395	394
290	270	299	287	286	321	297	312	319
174	126	205	172	151	177	166	152	180
47	59	51	80	63	98	66	61	189
169	161	247	205	209	217	214	181	236
329	335	353	349	355	377	366	376	389
292	312	334	311	331	360	340	345	366
342	341	368	367	374	385	384	387	395
247	235	262	282	283	259	263	264	273
296	292	312	338	325	359	336	341	357
200	146	222	183	179	200	189	178	220
51	66	56	93	69	110	69	71	219
274	283	320	331	321	300	329	327	361
317	338	350	352	356	369	362	373	387
232	180	268	239	227	241	221	205	257
232	182	272	243	227	242	223	204	258
327	338	352	350	365	375	369	366	395
124	189	143	103	177	92	174	179	152
231	181	272	244	227	240	223	206	258
296	306	334	341	345	343	330	347	350
220	238	232	244	264	245	256	260	284
240	268	268	269	265	280	280	273	293
169	161	249	211	211	218	214	183	236
232	180	271	242	227	240	226	206	259
267	283	320	332	315	298	327	323	360
256	271	284	299	289	311	285	295	297
333	330	361	358	368	377	364	380	390
208	148	243	205	187	217	193	176	219
132	208	153	118	195	101	185	203	174
225	225	246	214	222	251	251	237	274
213	171	243	234	216	230	210	191	241
341	341	368	366	375	384	387	380	395
273	283	315	330	320	295	324	321	356
231	180	269	243	226	240	223	205	259
269	252	245	255	271	293	284	274	304
155	171	169	138	147	160	200	174	183
114	80	129	107	100	130	143	109	129
219	179	263	233	215	236	213	195	248
232	179	269	243	226	241	222	206	256
192	141	208	175	160	210	213	209	216
342	348	364	374	376	387	377	389	398
282	256	250	265	283	315	298	295	325
198	179	210	166	164	211	211	187	170
322	326	354	352	348	370	339	367	361
287	280	283	301	308	337	336	338	341

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274	317	323	327	331	337	320	338	347
334	333	345	351	360	372	364	365	383
247	265	280	264	243	272	278	262	296
229	180	266	241	224	239	218	205	256
345	344	364	371	374	385	378	383	396
330	327	348	354	369	368	354	373	387

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RNL	RCX	RPA	RWH	RM2	RR7	RNS	RN3	RGN
406	407	409	421	423	428	432	425	432
318	319	343	332	338	342	347	358	329
164	179	184	216	242	189	207	202	201
97	70	76	130	74	102	108	71	95
193	208	218	232	336	248	212	244	252
383	374	397	405	402	416	422	409	405
363	341	374	382	373	382	393	384	366
399	399	401	418	414	419	429	422	431
297	305	292	320	249	290	307	297	327
355	341	351	369	373	396	397	364	381
188	186	221	251	280	206	233	222	224
119	84	93	168	87	114	123	82	113
343	366	379	375	377	383	381	396	393
382	374	398	402	399	412	418	409	397
225	231	266	293	330	251	269	288	275
225	235	265	291	331	249	269	289	276
388	387	394	403	409	409	416	406	405
196	184	199	172	114	179	251	245	176
226	232	265	290	329	250	270	288	277
353	351	382	374	366	355	389	386	382
311	245	262	298	296	314	301	297	277
326	288	292	308	279	320	338	323	323
194	210	220	230	335	248	212	247	256
226	233	266	295	331	253	269	289	275
343	364	376	376	373	383	376	395	395
322	303	325	325	326	315	342	313	333
390	385	398	409	407	403	419	409	415
197	198	230	249	308	231	243	248	236
216	198	226	199	123	204	271	274	204
261	254	268	294	273	299	306	302	260
215	221	247	265	308	233	258	264	264
395	396	406	413	420	423	427	421	428
343	357	376	370	375	374	374	391	389
225	228	265	293	330	250	271	290	274
288	266	291	302	306	329	336	307	299
180	182	198	222	185	212	207	211	177
111	106	110	131	160	129	144	115	105
214	226	250	286	317	241	257	279	267
222	230	266	292	329	248	267	289	274
187	203	213	199	229	214	249	230	179
402	397	409	416	417	418	425	421	426
304	281	307	323	322	349	355	320	305
206	206	221	221	227	223	226	235	189
380	380	378	386	393	400	422	399	394
320	309	368	363	337	367	390	384	369

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364	349	365	368	345	379	392	388	363
383	388	393	400	412	412	418	405	407
295	281	317	324	299	316	313	337	314
224	230	261	287	322	246	267	289	273
399	394	403	413	417	418	426	416	421
381	382	398	401	401	407	414	408	412

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RVW	RNZ	RDE	RLN	RWY	RGQ	RXP	RXH	RXK
439	442	446	464	465	479	494	499	500
375	338	369	391	356	376	401	378	418
207	171	202	183	172	190	214	226	215
96	67	110	70	76	127	70	108	104
234	241	211	210	241	202	244	304	280
423	419	436	444	440	454	470	462	485
391	380	411	405	419	409	422	425	460
431	441	441	453	457	467	488	497	491
279	311	332	349	341	353	387	349	324
393	379	402	420	395	386	429	430	446
235	205	216	215	209	230	227	240	245
121	77	139	73	90	150	81	130	124
375	383	384	391	404	408	408	413	437
419	420	434	443	449	448	475	465	485
274	252	257	254	270	266	279	307	298
277	251	258	255	270	268	282	305	299
412	431	437	441	455	443	462	483	473
237	193	210	219	235	237	244	156	242
276	251	257	253	272	269	281	307	299
385	377	400	411	408	410	436	438	455
274	282	293	332	295	304	350	310	322
352	306	336	343	347	373	380	345	355
234	239	215	212	244	205	243	311	277
276	252	258	254	274	271	283	310	300
375	383	379	384	401	406	402	410	434
331	348	321	352	359	369	375	403	375
412	428	426	447	449	458	478	473	475
244	218	221	220	227	221	244	257	268
261	215	228	231	255	250	274	181	258
292	275	309	301	294	270	288	306	339
261	224	242	239	244	248	261	289	276
431	435	446	457	458	464	482	490	493
378	379	374	379	405	409	400	410	427
274	250	257	254	272	270	281	306	299
331	313	362	345	329	359	384	325	354
217	183	191	204	223	202	207	208	244
125	115	132	159	138	122	170	134	153
266	237	253	241	261	260	279	293	288
276	250	253	254	271	268	279	306	298
212	215	214	291	243	222	278	204	254
432	436	444	455	462	469	486	490	495
342	326	383	364	338	380	393	346	363
250	194	209	284	233	212	264	241	307
425	403	415	439	424	420	462	485	478
361	365	379	395	385	386	397	405	399

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404	389	395	397	403	438	428	412	421
409	422	439	443	446	455	467	479	476
314	307	356	335	324	356	331	351	375
275	247	250	254	271	264	280	306	300
432	436	444	455	457	471	480	486	491
405	421	429	438	437	453	460	471	458

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RD1	RJL	RXF	RQ8	RXQ	RTF	RD3	RW6	RNA
496	507	511	517	519	530	538	543	547
400	403	440	422	414	439	432	437	440
200	241	233	232	203	191	234	220	245
118	83	82	74	54	96	153	100	67
263	256	264	309	284	219	274	237	301
473	492	482	483	491	515	513	507	512
443	455	462	448	459	484	484	478	478
494	502	499	511	512	522	528	528	536
362	394	379	383	389	396	397	426	395
435	444	452	445	436	464	454	468	477
242	259	276	263	243	213	290	246	271
141	95	88	84	59	119	185	125	81
395	452	424	446	451	430	473	458	476
478	490	486	500	497	515	515	505	515
295	312	320	305	308	258	337	299	326
297	312	321	307	306	258	338	301	329
480	489	491	500	504	516	523	517	524
205	289	284	244	263	321	266	166	285
299	311	316	305	307	260	340	301	328
457	432	457	450	443	446	461	486	480
353	321	351	332	343	395	371	373	349
336	398	396	401	381	426	392	389	418
265	257	272	311	290	220	275	238	306
297	311	321	307	309	260	337	298	329
396	453	425	448	451	420	475	455	475
375	388	393	416	410	413	411	408	418
483	478	494	496	497	526	515	518	525
260	273	272	257	254	232	288	260	262
228	315	316	261	293	352	290	181	315
291	340	337	329	305	353	349	336	344
272	294	291	293	292	235	326	279	310
487	502	504	510	507	524	525	537	540
392	450	425	446	449	421	471	443	470
296	311	318	305	307	257	339	301	329
342	391	341	394	363	400	438	354	359
217	214	240	229	216	235	231	246	253
131	132	181	134	141	165	182	206	145
290	292	304	301	299	246	338	282	318
293	311	316	305	307	258	337	299	329
223	256	296	226	208	334	342	335	240
497	495	506	512	518	530	534	535	542
368	399	359	414	388	424	463	370	381
237	304	292	262	219	309	264	298	318
464	468	482	484	461	489	492	497	506
453	371	405	434	428	473	423	425	420

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433	459	448	456	462	481	479	452	497
476	493	472	498	496	515	526	507	517
357	374	381	369	388	385	404	381	431
294	308	317	304	302	254	335	300	323
494	499	507	508	514	530	529	527	538
474	485	479	490	504	508	495	519	517

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RA9	RA2	RTX	RXC	RXL	RBA	RAJ	RRK	RHU
562	591	595	601	616	628	636	644	661
440	444	458	442	508	474	493	512	533
227	301	218	240	285	255	291	373	307
175	131	79	69	83	139	178	119	240
324	399	273	294	318	332	299	398	402
532	560	571	578	594	595	620	613	631
497	536	524	521	552	555	584	577	590
563	581	581	589	609	620	623	644	649
411	451	434	476	456	451	449	475	482
484	537	521	518	540	543	567	564	580
263	363	248	276	317	298	333	423	371
211	170	85	78	107	169	226	150	266
521	501	520	508	511	539	536	559	593
539	562	563	579	589	602	613	616	625
321	454	314	334	370	359	401	504	452
323	454	315	333	372	361	402	507	451
553	569	570	583	598	602	615	617	640
210	189	293	290	301	304	323	215	336
321	454	314	334	371	361	402	504	452
496	518	493	534	542	558	556	566	593
347	408	406	406	402	420	405	439	439
426	402	465	439	471	449	479	455	466
328	400	271	294	321	328	299	404	401
323	454	315	333	372	363	402	506	452
511	496	523	502	513	529	534	555	591
432	450	462	473	476	478	472	529	517
554	568	577	584	580	607	605	629	616
285	394	250	289	337	308	334	451	399
234	222	324	327	331	337	355	243	366
367	355	352	368	400	385	431	403	450
305	425	289	305	348	327	377	490	422
557	579	587	597	608	617	631	642	650
513	498	525	500	500	528	531	553	588
318	452	315	332	373	359	402	506	450
415	454	427	465	487	464	468	452	461
226	255	229	241	263	284	298	301	323
137	151	147	151	184	140	186	210	200
314	439	296	321	362	353	387	495	446
318	452	313	332	370	358	399	504	447
215	268	306	279	354	243	337	321	293
564	578	591	599	612	619	626	649	652
422	465	443	500	514	477	490	472	507
291	233	321	288	322	283	323	356	335
534	547	561	552	570	588	592	604	615
427	527	491	511	459	581	526	538	498

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507	487	539	539	534	551	553	557	575
546	567	559	587	602	597	613	614	637
456	404	436	395	454	438	520	426	519
312	452	312	332	366	359	399	504	448
561	574	588	596	612	614	624	640	643
543	553	579	575	595	589	602	623	625

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RXR	RJ7	RR1	RYR	RXN	RYJ	RX1	RWD	RL4
668	661	689	702	712	713	729	733	735
558	520	552	526	571	559	587	591	592
278	332	348	263	302	397	404	304	336
101	115	109	91	310	196	240	237	165
300	378	447	334	414	428	473	346	375
642	640	665	654	680	696	689	711	705
601	595	614	611	653	670	666	657	658
660	657	683	693	711	706	715	729	723
497	452	508	492	545	510	537	529	544
582	598	601	599	641	632	646	644	656
295	367	402	307	343	407	449	347	389
126	132	130	116	372	228	294	269	199
585	563	642	595	632	611	666	632	633
637	635	652	657	685	688	701	696	707
351	435	482	365	406	495	549	413	448
348	438	484	363	407	493	548	414	451
640	643	669	676	692	691	712	700	705
317	324	347	367	240	382	338	368	373
351	438	482	364	407	497	550	414	454
567	588	618	633	632	624	662	655	654
489	455	462	445	486	506	517	540	489
517	481	506	523	530	574	526	549	550
307	375	448	334	419	428	477	348	374
351	443	484	365	411	497	549	413	454
582	563	638	603	634	610	669	624	635
505	501	514	534	571	551	551	555	560
644	642	659	674	691	686	708	693	695
311	387	414	310	366	465	481	331	395
346	347	389	393	282	414	372	407	430
421	434	440	439	464	515	511	493	478
328	403	459	345	372	463	511	386	423
659	651	678	693	714	709	722	725	724
578	557	631	600	627	608	654	628	629
350	435	482	363	408	496	546	407	451
500	501	492	501	532	582	559	495	516
311	346	296	285	292	409	370	322	348
266	202	219	163	243	268	213	205	207
335	416	454	350	386	473	519	404	439
349	439	480	362	403	494	544	412	448
473	300	362	282	396	387	334	345	342
655	661	680	693	707	710	718	719	723
534	527	506	525	553	614	569	518	541
365	349	378	298	354	415	394	394	417
642	619	667	632	691	654	681	701	695
509	592	592	578	574	625	610	585	553

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579	578	578	622	631	633	622	633	650
644	645	653	672	687	697	706	682	686
475	478	524	530	507	551	586	555	571
350	434	480	363	401	494	543	414	446
653	652	672	688	698	710	716	709	715
625	629	658	672	692	675	679	693	700

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RN5	RDU	RBV	RA7	REF	RAL	RKB	RTR	RJZ
733	738	751	759	763	765	796	807	809
621	577	621	628	591	602	649	659	625
334	288	423	343	305	348	397	400	394
138	100	198	232	188	163	184	208	145
410	391	405	410	380	422	419	458	387
713	697	733	723	716	723	757	780	771
665	648	698	676	662	684	715	736	741
733	728	742	749	757	752	776	797	800
548	537	578	573	572	524	598	656	573
645	628	661	670	676	655	703	710	711
396	348	448	403	340	387	429	453	423
159	119	231	284	224	187	210	244	165
636	652	632	640	656	677	676	697	663
710	707	736	725	709	728	759	782	764
454	432	547	467	419	472	508	536	495
455	433	547	467	422	469	502	535	497
722	708	733	735	729	733	765	787	782
350	289	359	429	309	280	370	423	341
458	432	549	468	422	470	503	534	491
644	654	666	631	666	673	699	684	734
479	495	536	522	542	520	526	595	509
543	540	579	559	534	557	608	633	595
410	393	403	413	379	427	429	457	382
456	433	547	467	423	473	508	536	492
638	652	631	638	656	675	673	696	667
578	586	598	588	579	578	615	606	625
714	713	732	734	729	747	755	772	781
387	385	474	416	369	419	450	467	430
393	321	397	472	339	310	414	464	376
477	454	512	514	477	498	532	531	554
431	411	514	425	401	439	481	496	462
720	731	753	747	757	762	782	797	801
634	641	625	635	650	656	672	673	663
455	430	546	469	420	472	507	534	486
546	557	519	595	551	556	624	579	605
327	341	376	365	363	376	390	357	413
154	200	269	227	211	238	243	264	233
447	422	532	439	403	439	477	514	475
457	430	545	468	420	470	504	529	493
280	367	480	334	383	379	395	426	412
727	732	746	751	752	758	785	804	800
578	585	553	624	588	592	638	601	633
328	352	421	399	352	380	436	406	413
673	672	704	696	720	719	731	760	756
578	667	615	628	620	677	611	660	706

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630	647	678	666	638	652	704	725	702
709	712	714	728	728	738	769	758	778
521	516	543	607	542	558	629	594	603
452	428	540	465	421	469	505	527	488
723	729	752	744	742	752	776	796	794
708	705	728	708	717	718	748	768	765

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RHM	RTG	R1H	RK9	RXW	RR8	RWP	RWF	RJE
839	852	887	916	928	956	962	962	971
694	692	708	743	765	778	777	734	849
462	433	427	412	401	543	385	346	458
206	224	251	220	225	293	209	277	251
506	482	454	516	458	644	454	430	532
796	815	869	869	906	906	921	937	934
727	763	819	798	848	855	867	876	893
827	842	880	904	922	936	955	946	963
631	623	617	684	671	712	743	717	679
742	754	791	795	827	852	822	839	853
552	470	470	467	439	616	456	401	530
248	258	285	253	267	349	253	332	282
725	722	772	797	816	834	809	832	851
802	808	860	862	891	924	913	922	936
636	563	531	570	528	736	549	486	613
637	564	534	574	528	740	550	485	611
802	827	855	875	896	928	925	935	943
353	416	534	440	525	380	496	488	533
637	561	534	574	528	739	551	487	615
710	753	786	780	794	831	827	860	845
549	586	614	647	692	647	727	690	695
590	647	716	657	731	709	698	724	749
503	486	457	512	453	648	457	436	522
638	561	533	575	530	741	551	488	614
725	728	778	799	807	831	806	831	847
640	675	679	711	710	737	748	760	779
790	821	858	885	894	925	938	937	935
575	489	479	506	469	660	479	413	529
390	471	569	489	574	434	546	530	587
555	570	651	591	630	635	597	628	658
590	542	486	541	506	695	518	471	560
822	833	877	900	915	945	958	950	957
720	722	765	794	801	825	804	827	844
633	562	527	573	529	737	550	487	609
606	603	677	646	674	739	619	677	751
383	395	543	387	446	439	447	433	468
276	273	333	220	277	345	300	226	322
619	549	510	549	500	721	527	475	586
635	561	527	567	527	735	546	488	611
426	465	502	375	453	514	552	414	612
826	845	876	903	926	950	962	956	966
647	624	717	693	718	786	660	710	773
395	425	572	428	490	483	441	460	541
774	792	836	860	873	895	909	875	894
640	685	780	722	767	781	801	882	754

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714	773	793	800	841	839	851	883	863
805	827	841	868	877	925	920	926	949
602	641	683	738	706	739	675	708	720
632	562	518	566	526	733	549	484	606
821	843	869	903	905	939	958	948	960
796	806	837	860	894	900	931	922	915

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RGT	RWA	RJ1	RRV	RH8	RVV	RM1	RTD	RTE
977	1004	1034	1033	1047	1053	1207	1315	1320
795	845	855	805	821	821	955	1047	1057
494	561	468	506	444	412	494	678	515
254	261	255	200	244	212	298	301	345
574	584	551	511	583	594	643	804	685
944	975	1010	1013	995	1001	1149	1257	1269
893	912	955	965	914	908	1079	1183	1173
955	997	1026	1015	1029	1041	1190	1297	1319
747	745	782	773	817	754	902	956	1002
845	892	927	915	919	901	1019	1162	1141
584	629	529	565	542	483	573	744	616
312	320	301	234	306	273	354	356	406
873	888	895	865	878	926	1063	1142	1153
946	978	1006	998	1012	1003	1146	1246	1261
678	750	631	659	648	600	707	903	753
676	751	633	658	645	607	708	901	752
956	990	1011	1007	1029	996	1155	1274	1283
486	509	517	526	448	477	576	523	685
682	750	632	661	648	604	708	907	754
853	848	913	900	890	922	1043	1122	1100
676	631	774	704	788	705	857	929	937
722	758	760	781	754	760	860	963	931
576	588	550	515	579	596	645	817	689
680	751	633	663	652	603	711	905	751
871	884	884	860	874	928	1060	1135	1137
741	776	788	798	808	798	932	992	1026
948	974	1002	1003	1016	994	1164	1256	1279
595	655	586	594	573	516	616	806	649
541	561	553	558	498	566	636	578	772
622	688	749	759	668	637	748	836	871
645	700	596	610	599	573	662	849	687
963	1002	1029	1026	1032	1043	1197	1304	1313
863	885	883	858	867	928	1047	1129	1141
676	751	623	662	646	603	710	901	750
767	680	785	861	778	659	913	916	865
455	481	552	590	438	399	480	538	584
277	281	409	357	288	299	331	492	358
657	736	610	640	626	584	689	871	725
678	749	633	657	643	597	704	903	753
451	468	593	542	510	574	574	781	665
966	999	1040	1036	1046	1042	1201	1292	1315
794	701	817	902	816	716	959	955	896
436	596	609	612	495	483	627	690	606
887	941	963	953	955	983	1133	1222	1212
880	748	930	940	901	893	958	1149	1011

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900	915	902	922	913	918	1067	1156	1149
949	971	1002	1013	1013	987	1160	1257	1242
724	783	817	801	853	724	961	939	1031
668	742	632	654	643	594	699	896	750
964	997	1028	1022	1030	1025	1195	1288	1300
935	965	986	968	1001	1010	1150	1233	1272

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RWE	RTH	RHQ	RPY
1421	1428	1494	1920
1146	1117	1258	1471
725	617	685	670
391	424	375	537
751	817	767	709
1358	1380	1436	1893
1290	1283	1356	1803
1396	1400	1471	1894
1047	1085	1102	1485
1257	1272	1336	1750
803	725	779	719
450	519	441	620
1212	1241	1222	1664
1356	1370	1438	1870
952	893	912	892
948	892	912	894
1366	1382	1446	1898
714	564	706	1036
950	893	917	890
1269	1230	1285	1639
1062	1033	1033	1347
1059	1025	1125	1528
759	815	764	712
951	897	911	893
1210	1241	1216	1665
1098	1126	1154	1494
1358	1375	1442	1877
835	779	826	772
782	624	779	1119
944	920	1058	1358
903	831	855	821
1399	1413	1481	1911
1210	1238	1199	1654
953	889	909	886
965	990	1096	1561
680	624	739	1110
462	392	543	562
921	860	889	861
947	892	904	889
750	638	879	960
1396	1420	1478	1938
997	1041	1123	1642
792	629	894	1031
1312	1295	1385	1786
1309	1274	1180	1743

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1259	1251	1317	1788
1350	1357	1422	1897
1015	1091	1213	1426
946	888	908	881
1385	1412	1471	1926
1338	1366	1421	1857

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Table 2. Porportions of patients reporting a positive experience by question and for each of the 146 h
values correspond to the cells in Figure 2.

Note

Entries with NA come from hospitals which received less than 21 respondes for the corresponding question.

Questions \ Hospitals	RQX	RRJ	RT3	RMP	RPC	REP	RAN
Q10	0.71	0.70	0.81	0.82	0.74	0.75	0.73
Q49	0.50	0.41	0.64	0.65	0.67	0.60	0.57
Q35	NA	0.57	0.62	0.62	0.42	0.62	0.59
Q45	NA	NA	NA	0.77	NA	NA	NA
Q26	0.78	0.74	0.80	0.81	0.81	0.83	0.77
Q13	0.66	0.63	0.66	0.74	0.69	0.72	0.65
Q15	0.48	0.59	0.66	0.62	0.57	0.52	0.41
Q9	0.80	0.81	0.87	0.93	0.85	0.80	0.79
Q1	0.78	0.62	0.65	0.73	0.87	0.80	0.64
Q12	0.72	0.83	0.80	0.89	0.80	0.91	0.86
Q30	NA	0.52	0.71	0.76	0.85	0.80	0.68
Q44	NA	NA	NA	0.86	NA	NA	NA
Q7	0.74	0.73	0.83	0.79	0.75	0.85	0.70
Q14	0.52	0.48	0.64	0.76	0.63	0.71	0.62
Q34	0.90	0.96	0.90	0.93	0.88	0.97	0.94
Q37	NA	0.93	0.90	0.91	0.90	0.91	0.86
Q16	0.72	0.73	0.76	0.84	0.77	0.77	0.74
Q48	NA	NA	NA	NA	NA	NA	NA
Q31	0.71	0.71	0.81	0.81	0.76	0.80	0.70
Q11	0.62	0.68	0.59	0.75	0.72	0.66	0.66
Q53	0.76	0.41	0.60	0.67	0.72	0.58	0.51
Q41	0.70	NA	0.71	0.78	0.60	0.79	0.71
Q25	0.83	0.93	0.94	0.98	0.95	0.98	0.90
Q29	NA	0.89	0.90	0.91	0.90	0.94	0.87
Q6	0.89	0.85	0.91	0.85	0.93	0.87	0.67
Q55	0.17	0.36	0.37	0.49	0.26	0.35	0.28
Q54	0.62	0.47	0.63	0.69	0.67	0.61	0.45
Q36	0.81	0.77	0.91	0.94	0.89	0.90	0.83
Q47	NA	NA	NA	0.86	NA	NA	NA
Q21	0.58	0.74	0.85	0.85	0.84	0.91	0.77
Q38	NA	0.85	0.85	0.90	0.90	0.95	0.84
Q2	0.87	0.66	0.86	0.89	0.84	0.81	0.49
Q5	1.00	0.96	0.96	0.97	0.91	0.96	0.92
Q28	NA	0.86	0.76	0.87	0.76	0.89	0.76
Q19	NA	NA	0.94	0.93	0.84	0.88	0.80
Q23	NA	NA	NA	0.87	0.78	0.83	0.66
Q51	NA	NA	NA	0.63	NA	0.24	0.47
Q39	NA	0.82	0.95	0.96	0.91	0.97	0.91
Q32	NA	0.82	0.77	0.65	0.78	0.79	0.76
Q50	NA	0.57	0.33	0.69	0.55	0.39	0.57
Q56	0.83	0.88	0.96	0.92	0.90	0.93	0.82
Q18	NA	0.95	0.87	0.92	0.85	0.93	0.76

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Q22	NA	NA	0.50	0.81	0.46	0.77	0.67
Q8	0.77	0.77	0.79	0.81	0.74	0.72	0.74
Q52	0.84	0.92	0.87	1.00	0.95	0.95	0.91
Q42	0.91	1.00	0.97	0.97	0.92	1.00	0.95
Q17	0.72	0.89	0.94	0.97	0.82	0.96	0.87
Q20	NA	0.83	0.85	0.90	0.78	0.95	0.80
Q33	0.38	0.71	0.67	0.65	0.67	0.79	0.55
Q57	0.59	0.56	0.85	0.55	0.82	0.66	0.56
Q58	0.31	0.23	0.22	0.27	0.14	0.29	0.59

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ıospitals included in the analysis (CPES 2016). These

RGM	RBQ	R1F	RKE	RE9	RJ6	RVY	RA4	RJN
0.85	0.83	0.76	0.68	0.71	0.67	0.72	0.79	0.77
0.71	0.62	0.55	0.63	0.65	0.67	0.50	0.60	0.63
0.58	0.56	0.53	0.60	0.66	0.60	0.43	0.62	0.56
NA	NA	NA	NA	NA	NA	NA	NA	0.64
0.81	0.81	0.78	0.79	0.67	0.82	0.79	0.76	0.79
0.79	0.79	0.67	0.69	0.75	0.78	0.73	0.74	0.68
0.60	0.65	0.59	0.56	0.62	0.59	0.60	0.50	0.58
0.96	0.82	0.86	0.86	0.90	0.87	0.79	0.86	0.89
0.80	0.66	0.74	0.76	0.78	0.72	0.79	0.85	0.78
0.94	0.86	0.76	0.83	0.82	0.86	0.81	0.82	0.83
0.85	0.76	0.75	0.82	0.72	0.69	0.64	0.80	0.74
NA	NA	NA	0.82	NA	0.91	NA	0.91	0.89
0.89	0.74	0.80	0.78	0.75	0.78	0.85	0.75	0.88
0.69	0.69	0.62	0.73	0.76	0.71	0.60	0.76	0.68
0.92	0.84	0.75	0.91	0.88	0.87	0.78	0.85	0.83
0.94	0.89	0.85	0.93	0.91	0.87	0.85	0.91	0.88
0.93	0.81	0.72	0.75	0.79	0.75	0.81	0.85	0.85
NA	0.48	0.61	0.73	0.73	0.77	0.73	0.75	0.71
0.75	0.84	0.76	0.79	0.74	0.72	0.71	0.73	0.82
0.80	0.62	0.66	0.69	0.75	0.74	0.79	0.74	0.81
0.63	0.53	0.59	0.69	0.61	0.61	0.55	0.65	0.63
0.71	0.67	0.72	0.73	0.78	0.74	0.76	0.79	0.72
1.00	1.00	0.96	0.98	0.89	0.93	0.94	0.97	0.92
0.94	0.84	0.88	0.84	0.80	0.84	0.88	0.81	0.91
0.92	0.88	0.86	0.89	0.95	0.89	0.89	0.88	0.94
0.42	0.38	0.37	0.43	0.37	0.42	0.27	0.31	0.35
0.76	0.56	0.55	0.68	0.72	0.65	0.62	0.71	0.69
0.96	0.87	0.88	0.92	0.82	0.83	0.80	0.84	0.88
NA	NA	0.84	0.86	0.95	0.88	0.77	0.91	0.87
0.91	0.70	0.72	0.86	0.88	0.86	0.80	0.83	0.90
0.94	0.92	0.86	0.90	0.77	0.86	0.68	0.76	0.90
0.94	0.85	0.83	0.86	0.88	0.84	0.84	0.91	0.89
0.96	0.93	0.91	0.91	0.97	0.89	0.95	0.97	0.95
0.85	0.65	0.77	0.84	0.79	0.75	0.87	0.86	0.86
0.96	0.81	0.88	0.91	0.93	0.94	0.95	0.94	0.94
0.77	0.78	0.82	0.93	0.84	0.70	0.73	0.82	0.76
0.41	0.45	0.42	0.41	0.55	0.34	0.38	0.44	0.63
0.96	0.90	0.90	0.96	0.96	0.90	0.79	0.92	0.98
0.81	0.79	0.63	0.68	0.68	0.68	0.48	0.63	0.82
0.43	0.56	0.47	0.48	0.55	0.46	0.42	0.52	0.58
0.96	0.94	0.85	0.95	0.95	0.91	0.93	0.90	0.90
0.90	0.90	0.84	0.90	0.96	0.97	0.82	0.89	0.94

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0.62	0.52	0.50	0.83	0.64	0.46	0.39	0.70	0.55
0.87	0.79	0.74	0.79	0.90	0.81	0.70	0.83	0.78
0.95	0.94	0.93	0.93	0.99	0.95	0.97	0.97	0.97
0.98	0.96	0.94	0.96	0.97	0.97	1.00	0.98	0.97
0.91	0.90	0.90	0.97	0.96	0.88	0.84	0.88	0.94
0.92	0.74	0.81	0.96	0.86	0.88	0.82	0.86	0.87
0.83	0.70	0.55	0.72	0.77	0.49	0.71	0.69	0.71
0.78	0.68	0.77	0.68	0.82	0.70	0.70	0.84	0.72
0.51	0.34	0.07	0.38	0.24	0.28	0.11	0.25	0.24

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RAS	RFR	RAX	RWW	RM3	RQM	RVR	RJR	RC1
0.73	0.83	0.66	0.69	0.73	0.70	0.65	0.73	0.79
0.54	0.64	0.51	0.55	0.69	0.57	0.59	0.65	0.57
0.52	0.67	0.48	0.52	0.66	0.45	0.55	0.57	0.45
0.56	0.71	NA	0.50	0.55	0.63	NA	0.60	0.63
0.76	0.88	0.84	0.75	0.83	0.71	0.79	0.78	0.78
0.68	0.76	0.63	0.65	0.82	0.70	0.69	0.73	0.77
0.53	0.62	0.39	0.49	0.58	0.56	0.47	0.54	0.61
0.88	0.90	0.85	0.84	0.89	0.84	0.83	0.86	0.84
0.74	0.85	0.74	0.83	0.76	0.77	0.70	0.80	0.75
0.85	0.89	0.79	0.79	0.89	0.78	0.82	0.85	0.82
0.64	0.84	0.72	0.71	0.80	0.69	0.71	0.74	0.73
0.82	0.89	NA	0.75	0.89	0.89	NA	0.83	0.83
0.74	0.79	0.77	0.74	0.86	0.78	0.76	0.88	0.81
0.71	0.74	0.57	0.59	0.74	0.60	0.68	0.70	0.67
0.86	0.90	0.87	0.81	0.87	0.84	0.89	0.90	0.83
0.86	0.90	0.88	0.89	0.88	0.76	0.86	0.93	0.86
0.77	0.81	0.80	0.69	0.86	0.71	0.79	0.86	0.79
0.70	0.56	0.63	0.50	0.88	0.73	0.77	0.75	0.67
0.65	0.84	0.76	0.79	0.68	0.64	0.66	0.75	0.72
0.79	0.80	0.72	0.66	0.76	0.67	0.74	0.81	0.73
0.61	0.71	0.60	0.60	0.57	0.56	0.64	0.62	0.55
0.69	0.79	0.71	0.70	0.82	0.68	0.77	0.68	0.68
0.96	0.99	0.97	0.94	0.95	0.90	0.91	0.99	0.95
0.83	0.92	0.83	0.87	0.89	0.87	0.87	0.89	0.82
0.87	0.91	0.92	0.79	0.90	0.88	0.83	0.90	0.86
0.39	0.50	0.30	0.38	0.45	0.38	0.38	0.44	0.30
0.57	0.71	0.61	0.58	0.64	0.60	0.65	0.62	0.60
0.83	0.91	0.81	0.81	0.91	0.81	0.87	0.80	0.76
0.92	0.90	0.70	0.68	0.96	0.83	0.90	0.93	0.89
0.80	0.89	0.76	0.73	0.89	0.80	0.87	0.90	0.73
0.79	0.91	0.86	0.83	0.90	0.82	0.93	0.88	0.78
0.79	0.88	0.87	0.76	0.87	0.81	0.88	0.85	0.82
0.90	0.97	0.91	0.89	0.94	0.90	0.96	0.97	0.96
0.75	0.84	0.87	0.81	0.84	0.80	0.84	0.86	0.74
0.90	0.95	0.93	0.90	0.93	0.88	0.92	0.90	0.84
0.75	0.89	0.74	0.76	0.84	0.80	0.86	0.87	0.72
0.47	0.57	0.36	0.35	0.61	0.49	0.51	0.48	0.33
0.88	0.99	0.95	0.91	0.94	0.89	0.95	0.99	0.86
0.61	0.74	0.70	0.67	0.66	0.73	0.70	0.66	0.60
0.56	0.64	0.54	0.49	0.63	0.48	0.61	0.62	0.50
0.91	0.91	0.87	0.86	0.93	0.90	0.92	0.87	0.88
0.94	0.92	0.90	0.88	0.82	0.88	0.91	0.89	0.84

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0.56	0.62	0.53	0.64	0.59	0.50	0.61	0.60	0.43
0.69	0.82	0.60	0.73	0.78	0.61	0.78	0.83	0.71
0.97	0.93	0.91	0.93	0.97	0.93	0.97	0.97	0.98
0.97	0.96	0.97	0.94	0.98	0.93	0.98	0.97	0.99
0.85	0.99	0.90	0.85	0.94	0.84	0.92	0.90	0.85
0.81	0.87	0.79	0.75	0.84	0.85	0.91	0.93	0.79
0.71	0.70	0.49	0.69	0.76	0.49	0.63	0.69	0.54
0.66	0.73	0.78	0.75	0.75	0.64	0.68	0.73	0.64
0.24	0.30	0.14	0.10	0.37	0.23	0.30	0.22	0.13

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RFF	RJ2	RA3	RBT	REN	RRF	RAP	RMC	RLQ
0.76	0.66	0.71	0.73	0.74	0.70	0.64	0.81	0.76
0.63	0.52	0.56	0.63	0.59	0.59	0.48	0.65	0.62
0.54	0.56	0.40	0.51	0.62	0.54	0.45	0.69	0.47
0.63	0.61	NA	0.68	0.58	0.72	0.51	0.64	0.60
0.82	0.73	0.80	0.81	0.83	0.78	0.67	0.83	0.75
0.75	0.72	0.65	0.73	0.70	0.74	0.60	0.79	0.74
0.58	0.53	0.48	0.59	0.63	0.57	0.48	0.69	0.59
0.90	0.84	0.79	0.87	0.83	0.84	0.77	0.92	0.88
0.77	0.73	0.71	0.82	0.79	0.84	0.69	0.81	0.84
0.84	0.81	0.75	0.82	0.88	0.80	0.73	0.93	0.86
0.78	0.78	0.63	0.70	0.77	0.76	0.66	0.82	0.65
0.93	0.86	0.89	0.80	0.87	0.93	0.85	0.92	0.84
0.81	0.76	0.74	0.78	0.81	0.79	0.64	0.84	0.84
0.68	0.64	0.61	0.69	0.64	0.65	0.56	0.73	0.63
0.89	0.82	0.85	0.89	0.89	0.88	0.76	0.91	0.78
0.93	0.81	0.89	0.87	0.93	0.89	0.75	0.91	0.80
0.82	0.78	0.72	0.83	0.80	0.77	0.62	0.86	0.81
0.76	0.73	0.62	0.76	0.64	0.69	0.54	0.72	0.72
0.86	0.72	0.77	0.77	0.78	0.84	0.55	0.81	0.70
0.72	0.77	0.71	0.72	0.73	0.75	0.67	0.84	0.75
0.63	0.52	0.45	0.71	0.67	0.69	0.52	0.69	0.73
0.79	0.71	0.67	0.71	0.69	0.70	0.56	0.81	0.69
1.00	0.96	0.94	0.99	0.96	0.97	0.95	0.98	0.94
0.92	0.80	0.85	0.81	0.84	0.89	0.69	0.91	0.82
0.92	0.87	0.85	0.91	0.88	0.93	0.85	0.92	0.89
0.41	0.31	0.28	0.32	0.37	0.41	0.40	0.26	0.32
0.70	0.54	0.58	0.73	0.68	0.67	0.49	0.71	0.68
0.88	0.86	0.86	0.85	0.80	0.85	0.69	0.88	0.83
0.89	0.86	0.85	0.86	0.82	0.86	0.72	0.91	0.87
0.85	0.81	0.82	0.78	0.86	0.84	0.76	0.88	0.76
0.91	0.84	0.84	0.87	0.84	0.82	0.77	0.91	0.84
0.85	0.82	0.81	0.88	0.86	0.89	0.79	0.93	0.86
0.94	0.91	0.91	0.95	0.95	0.91	0.92	0.93	0.96
0.90	0.75	0.79	0.82	0.83	0.85	0.65	0.83	0.76
0.88	0.87	0.92	0.89	0.90	0.89	0.83	0.94	0.92
0.90	0.83	0.86	0.82	0.80	0.84	0.82	0.81	0.77
0.54	0.44	0.34	0.45	0.51	0.52	0.25	0.57	0.65
0.96	0.97	0.93	0.97	0.95	0.93	0.87	0.94	0.90
0.78	0.62	0.67	0.60	0.72	0.72	0.55	0.75	0.77
0.61	0.46	0.43	0.63	0.60	0.55	0.49	0.59	0.67
0.93	0.88	0.88	0.91	0.93	0.90	0.83	0.95	0.91
0.91	0.84	0.88	0.88	0.92	0.87	0.86	0.94	0.87

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0.62	0.62	0.69	0.54	0.61	0.51	0.56	0.63	0.55
0.74	0.72	0.75	0.75	0.77	0.87	0.71	0.88	0.74
0.95	0.92	0.98	0.93	0.95	0.97	0.90	0.97	0.95
0.96	0.95	0.97	0.96	0.96	0.95	0.92	0.98	0.97
0.89	0.95	0.90	0.93	0.88	0.91	0.91	0.92	0.89
0.88	0.84	0.83	0.83	0.91	0.86	0.84	0.91	0.84
0.65	0.63	0.74	0.78	0.65	0.80	0.39	0.75	0.70
0.81	0.69	0.71	0.75	0.76	0.86	0.50	0.81	0.74
0.18	0.18	0.27	0.15	0.20	0.17	0.26	0.16	0.28

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RLT	RDZ	RBK	RQQ	RBN	RDD	RFS	RTK	RCF
0.76	0.82	0.75	0.72	0.81	0.71	0.68	0.67	0.73
0.65	0.73	0.55	0.55	0.71	0.52	0.60	0.54	0.57
0.55	0.58	0.50	0.49	0.66	0.55	0.49	0.43	0.53
0.60	0.69	0.47	0.65	0.90	0.57	0.62	0.72	0.50
0.77	0.82	0.77	0.79	0.85	0.78	0.77	0.75	0.78
0.76	0.76	0.68	0.67	0.76	0.69	0.72	0.66	0.71
0.58	0.62	0.52	0.51	0.65	0.52	0.56	0.48	0.53
0.82	0.90	0.81	0.82	0.91	0.84	0.86	0.84	0.82
0.72	0.87	0.77	0.73	0.88	0.79	0.84	0.80	0.79
0.85	0.86	0.80	0.80	0.84	0.80	0.80	0.78	0.82
0.81	0.81	0.73	0.71	0.78	0.68	0.72	0.69	0.66
0.81	0.83	0.75	0.68	0.96	0.85	0.96	0.90	0.90
0.79	0.80	0.72	0.79	0.83	0.77	0.80	0.77	0.74
0.68	0.75	0.62	0.66	0.66	0.60	0.68	0.61	0.64
0.85	0.88	0.82	0.86	0.92	0.84	0.87	0.89	0.90
0.83	0.92	0.84	0.91	0.91	0.83	0.88	0.88	0.83
0.79	0.83	0.73	0.79	0.81	0.77	0.80	0.70	0.77
0.81	0.70	0.65	0.69	0.63	0.62	0.72	0.69	0.64
0.70	0.77	0.68	0.75	0.75	0.70	0.73	0.72	0.68
0.74	0.77	0.70	0.74	0.73	0.74	0.73	0.72	0.78
0.54	0.62	0.56	0.62	0.67	0.55	0.71	0.59	0.70
0.80	0.80	0.65	0.70	0.71	0.69	0.74	0.63	0.73
0.97	0.97	0.96	0.93	0.98	0.97	0.93	0.97	0.95
0.84	0.92	0.81	0.86	0.93	0.79	0.84	0.82	0.85
0.88	0.92	0.86	0.88	0.91	0.87	0.91	0.88	0.90
0.40	0.34	0.40	0.27	0.35	0.32	0.35	0.33	0.38
0.65	0.74	0.58	0.66	0.68	0.58	0.68	0.64	0.61
0.83	0.85	0.76	0.84	0.87	0.88	0.82	0.83	0.77
0.92	0.81	0.76	0.78	0.89	0.86	0.90	0.80	0.80
0.84	0.83	0.82	0.76	0.87	0.80	0.84	0.77	0.81
0.87	0.91	0.84	0.82	0.89	0.82	0.85	0.83	0.86
0.85	0.91	0.82	0.88	0.91	0.86	0.89	0.84	0.90
0.94	0.94	0.94	0.93	0.93	0.93	0.93	0.96	0.96
0.76	0.92	0.78	0.75	0.90	0.76	0.80	0.84	0.88
0.94	0.95	0.85	0.91	0.94	0.88	0.89	0.87	0.90
0.91	0.86	0.82	0.78	0.86	0.81	0.79	0.82	0.79
0.50	0.57	0.31	0.53	0.53	0.47	0.47	0.41	0.47
0.91	0.97	0.94	0.95	0.96	0.88	0.94	0.88	0.93
0.63	0.76	0.66	0.68	0.78	0.64	0.65	0.67	0.55
0.53	0.64	0.42	0.61	0.57	0.55	0.55	0.44	0.62
0.95	0.94	0.85	0.90	0.91	0.94	0.93	0.89	0.92
0.93	0.92	0.84	0.93	0.92	0.86	0.91	0.88	0.92

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0.61	0.52	0.70	0.50	0.63	0.60	0.44	0.44	0.63
0.73	0.89	0.74	0.73	0.73	0.73	0.74	0.70	0.78
0.97	0.97	0.92	0.95	0.96	0.94	0.96	0.97	0.98
0.98	0.99	0.92	0.96	0.98	0.95	0.96	0.95	0.98
0.92	0.93	0.89	0.89	0.90	0.90	0.83	0.89	0.86
0.86	0.90	0.83	0.83	0.92	0.78	0.86	0.77	0.86
0.66	0.73	0.67	0.53	0.71	0.56	0.72	0.72	0.72
0.77	0.77	0.64	0.75	0.82	0.79	0.66	0.76	0.57
0.29	0.19	0.29	0.25	0.11	0.13	0.20	0.18	0.31

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RWG	REM	RJF	RQW	RCB	RF4	RK5	RCD	RBZ
0.74	0.72	0.72	0.76	0.76	0.76	0.66	0.77	0.73
0.59	0.57	0.58	0.54	0.60	0.50	0.55	0.62	0.57
0.49	0.49	0.52	0.54	0.57	0.49	0.45	0.63	0.58
0.63	0.47	0.55	0.59	0.65	0.50	0.42	0.57	0.43
0.79	0.77	0.79	0.80	0.82	0.76	0.72	0.81	0.78
0.69	0.70	0.69	0.68	0.75	0.70	0.67	0.75	0.73
0.47	0.52	0.53	0.48	0.61	0.53	0.56	0.60	0.52
0.83	0.84	0.86	0.84	0.89	0.86	0.79	0.89	0.85
0.83	0.80	0.76	0.81	0.80	0.82	0.81	0.81	0.77
0.81	0.86	0.81	0.82	0.87	0.81	0.76	0.85	0.79
0.66	0.76	0.62	0.68	0.77	0.74	0.75	0.84	0.73
0.85	0.80	0.92	0.73	0.87	0.79	0.76	0.82	0.83
0.79	0.81	0.77	0.83	0.83	0.78	0.69	0.85	0.82
0.62	0.62	0.62	0.60	0.76	0.67	0.63	0.76	0.68
0.85	0.89	0.89	0.84	0.84	0.86	0.88	0.89	0.89
0.88	0.87	0.88	0.87	0.88	0.85	0.90	0.88	0.92
0.77	0.77	0.77	0.79	0.81	0.73	0.71	0.85	0.80
0.69	0.58	0.66	0.70	0.66	0.59	0.55	0.77	0.67
0.74	0.74	0.76	0.71	0.73	0.66	0.80	0.74	0.81
0.74	0.64	0.72	0.73	0.79	0.74	0.69	0.87	0.78
0.64	0.61	0.58	0.65	0.68	0.56	0.54	0.66	0.71
0.71	0.65	0.77	0.67	0.74	0.67	0.65	0.82	0.71
0.98	0.94	0.98	0.96	0.97	0.96	0.94	0.99	0.96
0.87	0.88	0.83	0.83	0.89	0.85	0.86	0.87	0.86
0.86	0.92	0.87	0.91	0.94	0.84	0.85	0.93	0.92
0.31	0.33	0.28	0.31	0.40	0.36	0.28	0.43	0.27
0.58	0.68	0.64	0.58	0.62	0.55	0.61	0.70	0.71
0.82	0.80	0.85	0.80	0.84	0.80	0.83	0.84	0.88
0.82	0.84	0.86	0.84	0.86	0.82	0.83	0.90	0.84
0.78	0.76	0.81	0.79	0.85	0.77	0.70	0.92	0.81
0.86	0.84	0.84	0.85	0.89	0.84	0.81	0.91	0.84
0.84	0.86	0.85	0.85	0.87	0.81	0.90	0.90	0.87
0.93	0.93	0.94	0.94	0.94	0.91	0.94	0.96	0.98
0.80	0.87	0.85	0.72	0.86	0.78	0.83	0.87	0.78
0.93	0.88	0.90	0.88	0.92	0.84	0.85	0.92	0.91
0.85	0.88	0.71	0.76	0.86	0.80	0.77	0.93	0.85
0.51	0.51	0.41	0.40	0.49	0.29	0.28	0.67	0.51
0.92	0.94	0.94	0.90	0.98	0.93	0.94	0.96	0.95
0.66	0.59	0.68	0.57	0.63	0.65	0.67	0.72	0.65
0.58	0.64	0.45	0.49	0.59	0.41	0.38	0.71	0.69
0.87	0.91	0.92	0.90	0.92	0.91	0.87	0.98	0.95
0.89	0.89	0.84	0.86	0.87	0.85	0.85	0.93	0.95

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0.57	0.55	0.53	0.50	0.69	0.47	0.42	0.86	0.59
0.73	0.75	0.82	0.72	0.73	0.73	0.78	0.77	0.78
0.96	0.94	0.97	0.94	0.98	0.90	0.96	0.97	0.97
0.94	0.97	0.96	0.94	0.96	0.97	0.97	0.99	0.97
0.90	0.89	0.91	0.91	0.92	0.94	0.87	0.97	0.91
0.89	0.80	0.74	0.81	0.87	0.71	0.72	0.92	0.83
0.68	0.69	0.72	0.62	0.68	0.52	0.82	0.82	0.85
0.64	0.70	0.49	0.70	0.77	0.64	0.61	0.84	0.71
0.12	0.20	0.27	0.27	0.24	0.23	0.19	0.24	0.23

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RTP	RWJ	RC9	RGP	RD8	RBD	RNQ	RP5	RVJ
0.74	0.75	0.75	0.73	0.65	0.75	0.77	0.72	0.79
0.56	0.52	0.62	0.60	0.47	0.56	0.54	0.54	0.56
0.45	0.47	0.57	0.54	0.44	0.52	0.52	0.51	0.49
0.66	0.64	0.62	0.67	0.68	0.69	0.61	0.50	0.50
0.73	0.80	0.82	0.73	0.73	0.80	0.85	0.78	0.74
0.72	0.69	0.75	0.68	0.68	0.70	0.72	0.64	0.70
0.50	0.55	0.56	0.52	0.47	0.51	0.53	0.54	0.54
0.82	0.83	0.87	0.81	0.81	0.85	0.86	0.85	0.87
0.83	0.77	0.76	0.76	0.80	0.78	0.79	0.77	0.77
0.84	0.81	0.85	0.77	0.78	0.81	0.83	0.80	0.84
0.67	0.74	0.76	0.76	0.72	0.76	0.75	0.74	0.74
0.92	0.86	0.92	0.85	0.86	0.84	0.81	0.81	0.82
0.76	0.81	0.83	0.79	0.70	0.84	0.78	0.76	0.79
0.66	0.63	0.68	0.66	0.63	0.66	0.67	0.61	0.64
0.88	0.81	0.88	0.88	0.87	0.86	0.87	0.87	0.94
0.94	0.88	0.88	0.88	0.85	0.90	0.92	0.85	0.88
0.79	0.75	0.80	0.76	0.72	0.80	0.74	0.72	0.83
0.71	0.77	0.71	0.59	0.53	0.71	0.68	0.58	0.68
0.69	0.74	0.74	0.77	0.68	0.81	0.72	0.75	0.75
0.77	0.76	0.72	0.73	0.63	0.71	0.74	0.71	0.75
0.58	0.62	0.60	0.65	0.54	0.68	0.61	0.59	0.60
0.70	0.72	0.71	0.74	0.65	0.73	0.68	0.71	0.73
0.96	0.96	0.96	0.96	0.90	0.97	0.97	0.97	0.96
0.85	0.83	0.86	0.83	0.84	0.84	0.86	0.81	0.86
0.87	0.92	0.87	0.86	0.87	0.91	0.84	0.87	0.84
0.30	0.31	0.45	0.34	0.31	0.31	0.30	0.32	0.40
0.60	0.60	0.62	0.65	0.55	0.62	0.56	0.53	0.65
0.81	0.84	0.83	0.86	0.83	0.85	0.87	0.85	0.83
0.88	0.86	0.92	0.81	0.81	0.85	0.88	0.74	0.82
0.79	0.77	0.85	0.77	0.80	0.81	0.77	0.79	0.87
0.89	0.87	0.86	0.80	0.82	0.83	0.86	0.84	0.91
0.83	0.87	0.84	0.83	0.83	0.84	0.82	0.83	0.83
0.95	0.96	0.96	0.93	0.92	0.98	0.94	0.92	0.92
0.86	0.80	0.78	0.75	0.77	0.82	0.78	0.83	0.87
0.84	0.89	0.86	0.91	0.86	0.92	0.84	0.83	0.90
0.88	0.82	0.86	0.82	0.69	0.77	0.80	0.77	0.73
0.35	0.51	0.52	0.45	0.30	0.48	0.42	0.35	0.40
0.94	0.93	0.93	0.94	0.91	0.98	0.91	0.92	0.92
0.70	0.64	0.66	0.58	0.53	0.67	0.62	0.57	0.68
0.49	0.55	0.70	0.53	0.39	0.62	0.47	0.54	0.57
0.86	0.90	0.92	0.93	0.87	0.89	0.83	0.83	0.85
0.82	0.84	0.87	0.93	0.81	0.91	0.80	0.81	0.83

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0.48	0.38	0.69	0.62	0.47	0.62	0.40	0.47	0.54
0.87	0.66	0.78	0.71	0.73	0.76	0.73	0.76	0.72
0.97	0.95	0.96	0.94	0.95	0.93	0.93	0.92	0.96
0.96	0.95	0.93	0.95	0.96	0.97	0.90	0.94	0.94
0.91	0.92	0.97	0.88	0.83	0.91	0.89	0.89	0.94
0.90	0.79	0.86	0.85	0.77	0.89	0.72	0.86	0.90
0.59	0.65	0.59	0.67	0.66	0.73	0.74	0.78	0.71
0.69	0.74	0.63	0.77	0.69	0.77	0.61	0.69	0.76
0.22	0.16	0.22	0.12	0.30	0.22	0.17	0.19	0.27

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RW3	RJC	RAE	RBL	RGR	RQ6	R1K	RN7	RHW
0.68	0.78	0.70	0.75	0.74	0.71	0.73	0.76	0.75
0.60	0.59	0.54	0.60	0.57	0.63	0.58	0.62	0.58
0.51	0.56	0.39	0.56	0.55	0.58	0.51	0.47	0.46
0.74	0.54	0.57	0.44	0.57	0.67	0.68	0.67	0.49
0.75	0.84	0.75	0.80	0.84	0.86	0.75	0.80	0.81
0.74	0.77	0.69	0.74	0.72	0.76	0.68	0.80	0.78
0.59	0.54	0.49	0.57	0.53	0.59	0.54	0.60	0.56
0.86	0.85	0.82	0.84	0.83	0.86	0.86	0.86	0.81
0.68	0.80	0.78	0.80	0.83	0.70	0.70	0.76	0.82
0.84	0.84	0.82	0.83	0.86	0.86	0.78	0.87	0.82
0.77	0.82	0.65	0.74	0.75	0.78	0.71	0.75	0.71
0.88	0.83	0.89	0.84	0.86	0.85	0.86	0.92	0.84
0.81	0.83	0.74	0.83	0.81	0.85	0.76	0.81	0.75
0.67	0.67	0.60	0.66	0.65	0.69	0.64	0.75	0.64
0.87	0.87	0.78	0.86	0.87	0.88	0.86	0.80	0.88
0.84	0.93	0.83	0.90	0.92	0.89	0.88	0.89	0.92
0.81	0.81	0.71	0.77	0.80	0.80	0.70	0.85	0.78
0.76	0.71	0.61	0.59	0.68	0.73	0.64	0.75	0.61
0.68	0.78	0.69	0.77	0.79	0.79	0.76	0.71	0.74
0.73	0.76	0.69	0.74	0.76	0.72	0.72	0.80	0.75
0.59	0.76	0.54	0.62	0.70	0.63	0.59	0.63	0.64
0.71	0.74	0.59	0.68	0.68	0.72	0.69	0.75	0.66
0.98	0.96	0.94	0.97	0.94	0.97	0.94	0.96	0.97
0.82	0.86	0.78	0.88	0.90	0.92	0.85	0.86	0.81
0.88	0.89	0.89	0.86	0.85	0.87	0.85	0.87	0.86
0.36	0.37	0.33	0.31	0.35	0.36	0.39	0.40	0.29
0.58	0.66	0.57	0.66	0.70	0.68	0.60	0.67	0.54
0.84	0.93	0.78	0.82	0.90	0.90	0.84	0.85	0.89
0.89	0.88	0.81	0.80	0.84	0.86	0.79	0.90	0.86
0.82	0.88	0.76	0.84	0.81	0.85	0.81	0.87	0.82
0.80	0.83	0.81	0.87	0.90	0.91	0.80	0.88	0.90
0.84	0.85	0.85	0.85	0.85	0.83	0.80	0.81	0.82
0.94	0.97	0.92	0.94	0.94	0.95	0.90	0.95	0.89
0.76	0.85	0.75	0.86	0.87	0.85	0.75	0.83	0.84
0.90	0.94	0.83	0.90	0.90	0.90	0.86	0.89	0.88
0.82	0.86	0.80	0.72	0.77	0.81	0.81	0.89	0.78
0.52	0.51	0.45	0.52	0.36	0.52	0.45	0.48	0.45
0.91	0.92	0.93	0.93	0.94	0.96	0.93	0.95	0.96
0.60	0.70	0.59	0.73	0.73	0.76	0.70	0.65	0.71
0.53	0.62	0.50	0.58	0.41	0.62	0.53	0.62	0.58
0.89	0.94	0.86	0.90	0.92	0.95	0.87	0.92	0.85
0.87	0.96	0.86	0.89	0.87	0.88	0.86	0.88	0.84

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0.65	0.72	0.52	0.48	0.55	0.52	0.52	0.60	0.49
0.77	0.71	0.81	0.85	0.68	0.72	0.71	0.77	0.76
0.94	0.96	0.94	0.95	0.96	0.98	0.96	0.95	0.94
0.96	0.97	0.94	0.95	0.98	0.97	0.96	0.92	0.95
0.93	0.88	0.83	0.90	0.86	0.91	0.89	0.91	0.95
0.82	0.91	0.81	0.85	0.81	0.85	0.79	0.85	0.82
0.69	0.76	0.68	0.71	0.67	0.74	0.53	0.62	0.63
0.70	0.88	0.63	0.77	0.64	0.72	0.62	0.75	0.67
0.32	0.24	0.27	0.21	0.26	0.37	0.26	0.25	0.16

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RNL	RCX	RPA	RWH	RM2	RR7	RNS	RN3	RGN
0.72	0.77	0.73	0.72	0.80	0.75	0.70	0.75	0.77
0.53	0.59	0.52	0.55	0.60	0.60	0.60	0.56	0.58
0.53	0.50	0.44	0.50	0.54	0.65	0.52	0.47	0.59
0.54	0.76	0.66	0.47	0.62	0.62	0.52	0.49	0.66
0.74	0.83	0.75	0.77	0.86	0.84	0.74	0.80	0.83
0.69	0.73	0.74	0.70	0.77	0.81	0.77	0.75	0.76
0.52	0.58	0.57	0.52	0.63	0.61	0.50	0.51	0.61
0.85	0.89	0.83	0.81	0.86	0.89	0.83	0.86	0.86
0.81	0.77	0.76	0.75	0.81	0.85	0.74	0.79	0.80
0.75	0.83	0.82	0.80	0.88	0.89	0.84	0.82	0.84
0.72	0.78	0.71	0.73	0.77	0.79	0.67	0.68	0.73
0.79	0.87	0.84	0.82	0.85	0.90	0.81	0.82	0.88
0.76	0.80	0.79	0.75	0.84	0.85	0.77	0.81	0.81
0.60	0.68	0.62	0.63	0.69	0.79	0.69	0.66	0.69
0.84	0.82	0.83	0.84	0.85	0.90	0.83	0.87	0.92
0.89	0.85	0.80	0.89	0.88	0.93	0.86	0.88	0.90
0.74	0.81	0.75	0.75	0.81	0.84	0.79	0.80	0.81
0.61	0.70	0.69	0.58	0.67	0.74	0.66	0.61	0.68
0.83	0.73	0.69	0.74	0.71	0.84	0.72	0.70	0.80
0.69	0.77	0.77	0.69	0.72	0.75	0.77	0.80	0.78
0.67	0.71	0.57	0.61	0.61	0.60	0.60	0.64	0.67
0.67	0.73	0.66	0.65	0.73	0.80	0.73	0.69	0.69
0.94	0.94	0.97	0.96	0.98	0.98	0.92	0.97	0.97
0.80	0.83	0.81	0.87	0.90	0.90	0.83	0.84	0.84
0.86	0.89	0.85	0.83	0.90	0.93	0.84	0.86	0.89
0.34	0.35	0.27	0.28	0.32	0.46	0.29	0.31	0.44
0.55	0.68	0.58	0.55	0.63	0.69	0.58	0.59	0.66
0.89	0.83	0.83	0.80	0.87	0.88	0.85	0.79	0.83
0.76	0.85	0.84	0.81	0.86	0.89	0.85	0.84	0.84
0.76	0.83	0.80	0.82	0.80	0.87	0.81	0.80	0.83
0.83	0.86	0.84	0.79	0.85	0.91	0.79	0.85	0.90
0.85	0.85	0.82	0.81	0.89	0.92	0.82	0.80	0.85
0.94	0.94	0.91	0.91	0.95	0.98	0.92	0.94	0.96
0.88	0.82	0.78	0.80	0.85	0.86	0.76	0.84	0.80
0.87	0.90	0.86	0.87	0.88	0.92	0.89	0.90	0.92
0.79	0.85	0.88	0.84	0.72	0.84	0.85	0.75	0.93
0.41	0.42	0.43	0.44	0.45	0.56	0.45	0.36	0.52
0.93	0.93	0.92	0.91	0.93	0.97	0.94	0.95	0.96
0.65	0.68	0.61	0.69	0.62	0.79	0.65	0.51	0.69
0.48	0.49	0.53	0.47	0.47	0.64	0.57	0.47	0.57
0.79	0.88	0.90	0.86	0.89	0.93	0.87	0.88	0.92
0.84	0.90	0.86	0.84	0.89	0.92	0.86	0.82	0.87

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0.50	0.56	0.65	0.59	0.56	0.64	0.66	0.63	0.67
0.76	0.76	0.69	0.69	0.76	0.83	0.80	0.76	0.75
0.96	0.93	0.96	0.96	0.93	0.97	0.94	0.97	0.98
0.91	0.96	0.96	0.94	0.97	0.96	0.93	0.96	0.96
0.85	0.87	0.90	0.87	0.92	0.95	0.93	0.90	0.91
0.77	0.84	0.82	0.88	0.86	0.84	0.81	0.88	0.88
0.79	0.73	0.51	0.59	0.62	0.71	0.68	0.73	0.74
0.70	0.73	0.65	0.49	0.67	0.78	0.68	0.60	0.67
0.16	0.26	0.22	0.23	0.34	0.19	0.23	0.34	0.23

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RVW	RNZ	RDE	RLN	RWY	RGQ	RXP	RXH	RXK
0.77	0.76	0.76	0.73	0.74	0.69	0.73	0.77	0.75
0.65	0.63	0.62	0.61	0.57	0.62	0.59	0.60	0.57
0.55	0.58	0.53	0.58	0.49	0.55	0.55	0.55	0.47
0.72	0.61	0.69	0.59	0.59	0.65	0.64	0.69	0.59
0.82	0.82	0.80	0.80	0.75	0.78	0.78	0.79	0.75
0.80	0.72	0.78	0.76	0.75	0.69	0.71	0.71	0.74
0.63	0.54	0.62	0.58	0.51	0.52	0.54	0.53	0.55
0.88	0.83	0.86	0.85	0.84	0.82	0.82	0.85	0.90
0.77	0.79	0.79	0.72	0.79	0.78	0.79	0.80	0.75
0.88	0.86	0.83	0.83	0.83	0.83	0.81	0.82	0.85
0.80	0.80	0.72	0.76	0.72	0.77	0.71	0.73	0.67
0.91	0.87	0.91	0.82	0.90	0.91	0.77	0.93	0.90
0.83	0.84	0.80	0.78	0.78	0.83	0.80	0.80	0.80
0.74	0.68	0.72	0.74	0.66	0.67	0.65	0.63	0.66
0.87	0.87	0.89	0.83	0.84	0.88	0.85	0.86	0.86
0.87	0.89	0.89	0.89	0.89	0.90	0.87	0.88	0.84
0.85	0.81	0.81	0.78	0.77	0.78	0.74	0.78	0.77
0.73	0.76	0.70	0.77	0.68	0.69	0.69	0.74	0.71
0.76	0.78	0.72	0.77	0.75	0.74	0.72	0.75	0.70
0.76	0.74	0.80	0.71	0.75	0.70	0.71	0.73	0.79
0.59	0.67	0.57	0.63	0.64	0.65	0.65	0.67	0.55
0.80	0.78	0.76	0.75	0.73	0.78	0.74	0.69	0.70
0.97	0.97	0.96	0.94	0.96	0.97	0.95	0.97	0.96
0.84	0.89	0.81	0.88	0.82	0.86	0.77	0.86	0.81
0.91	0.93	0.87	0.90	0.89	0.87	0.88	0.82	0.88
0.37	0.36	0.37	0.39	0.38	0.36	0.33	0.35	0.39
0.71	0.65	0.64	0.68	0.64	0.64	0.61	0.63	0.58
0.84	0.81	0.82	0.81	0.87	0.85	0.85	0.85	0.76
0.90	0.88	0.86	0.85	0.83	0.80	0.84	0.89	0.86
0.87	0.80	0.83	0.79	0.77	0.85	0.78	0.79	0.84
0.85	0.89	0.90	0.86	0.86	0.87	0.85	0.86	0.83
0.88	0.87	0.82	0.85	0.84	0.84	0.84	0.81	0.84
0.95	0.96	0.94	0.93	0.95	0.96	0.94	0.93	0.94
0.86	0.88	0.83	0.79	0.87	0.89	0.77	0.80	0.77
0.92	0.92	0.92	0.89	0.85	0.91	0.88	0.89	0.87
0.82	0.86	0.81	0.79	0.84	0.85	0.79	0.82	0.86
0.50	0.50	0.49	0.53	0.51	0.56	0.49	0.53	0.39
0.93	0.97	0.95	0.92	0.96	0.95	0.94	0.94	0.93
0.67	0.70	0.64	0.70	0.66	0.65	0.57	0.74	0.66
0.59	0.57	0.49	0.56	0.56	0.58	0.58	0.49	0.49
0.93	0.92	0.90	0.92	0.93	0.90	0.90	0.88	0.91
0.94	0.88	0.88	0.89	0.85	0.82	0.90	0.82	0.88

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0.63	0.63	0.57	0.56	0.48	0.65	0.53	0.52	0.62
0.87	0.71	0.77	0.79	0.74	0.72	0.72	0.88	0.87
0.96	0.95	0.97	0.97	0.96	0.97	0.97	0.96	0.94
0.98	0.97	0.95	0.97	0.96	0.97	0.96	0.95	0.93
0.91	0.88	0.94	0.91	0.86	0.93	0.91	0.84	0.92
0.84	0.82	0.89	0.80	0.75	0.88	0.77	0.85	0.79
0.67	0.72	0.60	0.70	0.65	0.73	0.74	0.73	0.69
0.81	0.79	0.72	0.78	0.74	0.71	0.76	0.65	0.61
0.22	0.23	0.34	0.24	0.33	0.23	0.21	0.26	0.33

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RD1	RJL	RXF	RQ8	RXQ	RTF	RD3	RW6	RNA
0.70	0.72	0.74	0.72	0.77	0.75	0.70	0.69	0.74
0.59	0.53	0.56	0.63	0.55	0.65	0.62	0.51	0.59
0.48	0.52	0.55	0.54	0.51	0.49	0.55	0.53	0.52
0.64	0.63	0.63	0.72	0.69	0.57	0.60	0.52	0.60
0.78	0.82	0.77	0.84	0.77	0.79	0.81	0.73	0.80
0.75	0.72	0.78	0.75	0.72	0.81	0.70	0.69	0.76
0.55	0.52	0.55	0.53	0.55	0.62	0.51	0.54	0.55
0.84	0.80	0.82	0.83	0.85	0.88	0.85	0.85	0.86
0.77	0.76	0.77	0.81	0.76	0.81	0.78	0.74	0.75
0.84	0.81	0.83	0.84	0.83	0.87	0.82	0.82	0.84
0.74	0.72	0.75	0.72	0.71	0.77	0.77	0.73	0.73
0.89	0.91	0.88	0.89	0.83	0.91	0.85	0.90	0.91
0.81	0.77	0.81	0.79	0.82	0.84	0.78	0.78	0.80
0.65	0.69	0.72	0.70	0.63	0.77	0.70	0.63	0.66
0.88	0.87	0.89	0.86	0.84	0.87	0.89	0.84	0.84
0.90	0.90	0.87	0.91	0.90	0.88	0.90	0.86	0.88
0.81	0.76	0.78	0.79	0.78	0.81	0.78	0.74	0.77
0.71	0.69	0.73	0.75	0.69	0.79	0.65	0.67	0.67
0.75	0.80	0.71	0.73	0.80	0.78	0.76	0.69	0.77
0.77	0.68	0.74	0.76	0.73	0.74	0.70	0.73	0.74
0.67	0.58	0.58	0.58	0.65	0.66	0.66	0.57	0.56
0.71	0.68	0.76	0.74	0.70	0.81	0.73	0.65	0.67
0.95	0.95	0.94	0.98	0.94	0.93	0.96	0.95	0.98
0.85	0.86	0.83	0.85	0.84	0.87	0.88	0.82	0.84
0.90	0.85	0.88	0.87	0.87	0.91	0.91	0.88	0.84
0.34	0.35	0.38	0.33	0.30	0.38	0.36	0.35	0.35
0.63	0.62	0.64	0.62	0.61	0.67	0.65	0.57	0.62
0.83	0.88	0.83	0.89	0.84	0.84	0.87	0.80	0.85
0.82	0.85	0.87	0.87	0.86	0.89	0.82	0.84	0.87
0.80	0.81	0.80	0.84	0.81	0.83	0.81	0.78	0.82
0.84	0.81	0.81	0.88	0.86	0.83	0.88	0.76	0.89
0.87	0.84	0.86	0.85	0.87	0.86	0.84	0.86	0.85
0.95	0.94	0.95	0.93	0.95	0.97	0.96	0.91	0.94
0.84	0.80	0.83	0.80	0.86	0.88	0.89	0.80	0.83
0.92	0.89	0.89	0.90	0.87	0.92	0.93	0.83	0.89
0.85	0.74	0.83	0.79	0.78	0.82	0.76	0.78	0.78
0.40	0.42	0.43	0.47	0.33	0.57	0.52	0.40	0.39
0.92	0.95	0.94	0.93	0.94	0.90	0.95	0.90	0.94
0.61	0.66	0.56	0.72	0.74	0.68	0.71	0.63	0.59
0.46	0.50	0.52	0.53	0.44	0.63	0.65	0.48	0.45
0.93	0.84	0.91	0.89	0.91	0.91	0.92	0.86	0.88
0.90	0.90	0.90	0.86	0.80	0.91	0.91	0.82	0.84

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0.59	0.51	0.55	0.62	0.60	0.65	0.58	0.57	0.59
0.74	0.67	0.78	0.72	0.75	0.73	0.74	0.73	0.82
0.97	0.94	0.95	0.97	0.95	0.98	0.95	0.94	0.94
0.97	0.95	0.97	0.97	0.96	0.97	0.97	0.94	0.93
0.90	0.88	0.84	0.91	0.90	0.92	0.94	0.88	0.86
0.85	0.78	0.82	0.81	0.87	0.82	0.84	0.80	0.87
0.74	0.68	0.70	0.66	0.66	0.69	0.73	0.70	0.53
0.67	0.68	0.72	0.67	0.74	0.84	0.79	0.63	0.46
0.28	0.22	0.31	0.20	0.27	0.19	0.23	0.18	0.23

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RA9	RA2	RTX	RXC	RXL	RBA	RAJ	RRK	RHU
0.80	0.74	0.74	0.73	0.76	0.76	0.75	0.70	0.73
0.66	0.58	0.62	0.55	0.56	0.62	0.61	0.57	0.60
0.61	0.49	0.54	0.52	0.52	0.58	0.56	0.51	0.48
0.65	0.66	0.66	0.62	0.54	0.67	0.59	0.63	0.55
0.81	0.80	0.84	0.82	0.81	0.82	0.78	0.78	0.83
0.77	0.73	0.76	0.71	0.73	0.77	0.72	0.73	0.74
0.63	0.55	0.57	0.51	0.52	0.58	0.57	0.60	0.58
0.88	0.87	0.86	0.84	0.84	0.85	0.86	0.85	0.87
0.78	0.77	0.78	0.76	0.77	0.77	0.83	0.72	0.76
0.85	0.83	0.86	0.82	0.82	0.84	0.84	0.84	0.84
0.82	0.71	0.77	0.77	0.74	0.82	0.72	0.73	0.73
0.87	0.87	0.88	0.79	0.83	0.88	0.85	0.90	0.86
0.84	0.77	0.82	0.77	0.78	0.84	0.80	0.80	0.81
0.73	0.65	0.71	0.65	0.67	0.72	0.69	0.63	0.67
0.86	0.81	0.84	0.83	0.89	0.91	0.85	0.85	0.84
0.88	0.88	0.89	0.88	0.89	0.94	0.86	0.88	0.89
0.86	0.79	0.81	0.78	0.78	0.81	0.75	0.79	0.80
0.70	0.63	0.77	0.68	0.68	0.72	0.62	0.61	0.61
0.78	0.71	0.79	0.73	0.74	0.81	0.73	0.71	0.75
0.80	0.76	0.74	0.73	0.73	0.81	0.76	0.75	0.72
0.63	0.59	0.71	0.66	0.59	0.70	0.60	0.65	0.61
0.78	0.71	0.79	0.69	0.74	0.78	0.75	0.67	0.67
0.95	0.96	0.96	0.98	0.96	0.96	0.95	0.95	0.95
0.87	0.86	0.85	0.86	0.86	0.89	0.83	0.84	0.88
0.90	0.84	0.88	0.86	0.88	0.90	0.89	0.86	0.85
0.34	0.30	0.40	0.28	0.41	0.40	0.29	0.36	0.30
0.67	0.62	0.68	0.61	0.62	0.70	0.64	0.59	0.62
0.87	0.82	0.88	0.85	0.85	0.90	0.87	0.81	0.85
0.90	0.84	0.88	0.87	0.86	0.89	0.83	0.84	0.83
0.89	0.81	0.81	0.79	0.80	0.85	0.84	0.76	0.84
0.90	0.88	0.88	0.85	0.86	0.88	0.90	0.88	0.85
0.85	0.79	0.83	0.81	0.85	0.87	0.85	0.81	0.82
0.96	0.95	0.95	0.95	0.91	0.96	0.96	0.94	0.93
0.88	0.84	0.88	0.81	0.82	0.85	0.84	0.82	0.80
0.89	0.92	0.91	0.84	0.90	0.91	0.91	0.86	0.89
0.81	0.80	0.83	0.76	0.86	0.89	0.81	0.75	0.79
0.40	0.48	0.52	0.41	0.53	0.44	0.47	0.42	0.44
0.96	0.94	0.91	0.95	0.93	0.95	0.97	0.95	0.95
0.75	0.69	0.74	0.70	0.73	0.81	0.66	0.59	0.64
0.52	0.56	0.59	0.47	0.60	0.51	0.63	0.50	0.49
0.93	0.88	0.90	0.88	0.91	0.93	0.91	0.91	0.90
0.87	0.87	0.88	0.83	0.84	0.90	0.87	0.88	0.82

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0.75	0.38	0.65	0.51	0.61	0.60	0.57	0.57	0.51
0.81	0.75	0.81	0.71	0.76	0.77	0.74	0.80	0.80
0.94	0.95	0.97	0.97	0.96	0.98	0.98	0.94	0.94
0.97	0.94	0.95	0.96	0.98	0.98	0.93	0.96	0.96
0.92	0.90	0.90	0.93	0.95	0.92	0.89	0.90	0.91
0.92	0.82	0.85	0.75	0.83	0.88	0.92	0.76	0.89
0.68	0.67	0.73	0.78	0.53	0.73	0.55	0.64	0.63
0.77	0.65	0.74	0.67	0.71	0.86	0.70	0.64	0.66
0.20	0.25	0.30	0.22	0.21	0.26	0.24	0.39	0.24

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RXR	RJ7	RR1	RYR	RXN	RYJ	RX1	RWD	RL4
0.75	0.71	0.76	0.71	0.77	0.70	0.74	0.74	0.72
0.53	0.56	0.55	0.56	0.60	0.55	0.54	0.48	0.57
0.50	0.54	0.47	0.61	0.51	0.50	0.49	0.51	0.49
0.60	0.60	0.61	0.58	0.61	0.61	0.57	0.57	0.53
0.77	0.79	0.78	0.83	0.77	0.74	0.78	0.76	0.81
0.67	0.71	0.72	0.71	0.73	0.68	0.74	0.69	0.74
0.49	0.53	0.56	0.53	0.57	0.49	0.56	0.51	0.54
0.85	0.84	0.87	0.87	0.87	0.82	0.85	0.83	0.86
0.77	0.75	0.78	0.77	0.81	0.71	0.78	0.80	0.74
0.81	0.82	0.83	0.81	0.84	0.80	0.85	0.80	0.84
0.69	0.75	0.71	0.77	0.74	0.70	0.71	0.67	0.71
0.84	0.83	0.88	0.84	0.87	0.81	0.88	0.88	0.83
0.77	0.76	0.79	0.81	0.84	0.72	0.78	0.76	0.80
0.62	0.62	0.64	0.66	0.69	0.61	0.64	0.61	0.64
0.85	0.84	0.84	0.84	0.82	0.81	0.86	0.84	0.84
0.87	0.84	0.87	0.92	0.86	0.85	0.88	0.87	0.88
0.76	0.75	0.76	0.77	0.79	0.71	0.78	0.74	0.76
0.64	0.67	0.69	0.65	0.64	0.70	0.61	0.60	0.65
0.70	0.69	0.72	0.74	0.73	0.66	0.71	0.71	0.69
0.68	0.73	0.76	0.76	0.80	0.66	0.77	0.71	0.76
0.63	0.59	0.58	0.61	0.65	0.51	0.59	0.59	0.57
0.68	0.67	0.67	0.71	0.74	0.65	0.70	0.62	0.68
0.96	0.95	0.96	0.95	0.96	0.93	0.97	0.96	0.97
0.80	0.86	0.83	0.87	0.85	0.80	0.82	0.79	0.81
0.87	0.91	0.85	0.88	0.89	0.85	0.89	0.88	0.85
0.41	0.29	0.32	0.25	0.35	0.31	0.37	0.30	0.30
0.60	0.55	0.59	0.64	0.66	0.51	0.59	0.55	0.61
0.78	0.83	0.80	0.85	0.81	0.76	0.89	0.80	0.79
0.80	0.82	0.88	0.83	0.84	0.78	0.85	0.76	0.83
0.76	0.79	0.80	0.83	0.83	0.79	0.85	0.77	0.83
0.80	0.82	0.86	0.88	0.88	0.80	0.87	0.83	0.83
0.82	0.82	0.84	0.84	0.87	0.77	0.84	0.84	0.79
0.94	0.94	0.93	0.94	0.95	0.92	0.94	0.93	0.95
0.80	0.81	0.81	0.86	0.81	0.76	0.82	0.80	0.77
0.86	0.84	0.87	0.86	0.88	0.83	0.87	0.87	0.89
0.81	0.84	0.79	0.85	0.84	0.79	0.79	0.80	0.87
0.54	0.35	0.42	0.39	0.52	0.35	0.41	0.37	0.41
0.91	0.93	0.90	0.94	0.94	0.89	0.94	0.93	0.93
0.59	0.68	0.66	0.72	0.65	0.64	0.64	0.60	0.56
0.67	0.41	0.55	0.43	0.62	0.39	0.48	0.42	0.47
0.91	0.84	0.88	0.89	0.90	0.82	0.89	0.82	0.91
0.87	0.83	0.86	0.82	0.88	0.80	0.86	0.87	0.86

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0.53	0.51	0.56	0.53	0.56	0.56	0.51	0.50	0.59
0.85	0.73	0.89	0.77	0.86	0.68	0.80	0.77	0.85
0.94	0.93	0.96	0.96	0.94	0.90	0.95	0.94	0.96
0.95	0.95	0.95	0.95	0.96	0.93	0.96	0.92	0.94
0.93	0.89	0.89	0.90	0.92	0.94	0.93	0.86	0.89
0.80	0.81	0.82	0.83	0.87	0.85	0.90	0.78	0.82
0.67	0.55	0.62	0.77	0.69	0.59	0.73	0.65	0.59
0.69	0.55	0.66	0.69	0.73	0.60	0.63	0.67	0.58
0.20	0.31	0.19	0.29	0.16	0.50	0.35	0.30	0.22

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RN5	RDU	RBV	RA7	REF	RAL	RKB	RTR	RJZ
0.70	0.72	0.72	0.72	0.77	0.70	0.71	0.72	0.69
0.56	0.58	0.60	0.55	0.60	0.52	0.58	0.60	0.52
0.56	0.53	0.58	0.50	0.50	0.46	0.48	0.55	0.53
0.46	0.61	0.62	0.62	0.59	0.58	0.62	0.58	0.58
0.82	0.80	0.77	0.79	0.82	0.73	0.79	0.79	0.76
0.71	0.71	0.74	0.74	0.75	0.66	0.74	0.74	0.71
0.48	0.51	0.55	0.50	0.55	0.47	0.58	0.53	0.49
0.83	0.84	0.81	0.82	0.85	0.79	0.83	0.83	0.81
0.73	0.78	0.74	0.78	0.76	0.73	0.75	0.74	0.74
0.81	0.82	0.84	0.81	0.84	0.76	0.85	0.84	0.79
0.75	0.76	0.74	0.71	0.70	0.70	0.69	0.73	0.66
0.81	0.82	0.86	0.85	0.87	0.84	0.86	0.89	0.82
0.78	0.78	0.79	0.78	0.84	0.73	0.80	0.78	0.77
0.63	0.64	0.63	0.64	0.68	0.60	0.68	0.68	0.61
0.89	0.85	0.82	0.83	0.83	0.85	0.78	0.88	0.82
0.90	0.90	0.90	0.89	0.87	0.88	0.86	0.90	0.85
0.76	0.79	0.79	0.78	0.79	0.72	0.77	0.78	0.74
0.67	0.66	0.70	0.65	0.68	0.64	0.65	0.66	0.69
0.76	0.77	0.82	0.74	0.77	0.71	0.68	0.77	0.68
0.71	0.72	0.70	0.68	0.79	0.68	0.71	0.70	0.68
0.61	0.62	0.56	0.59	0.64	0.57	0.56	0.66	0.56
0.74	0.69	0.70	0.68	0.73	0.62	0.69	0.73	0.69
0.96	0.94	0.96	0.95	0.95	0.94	0.97	0.96	0.94
0.89	0.84	0.88	0.83	0.85	0.84	0.82	0.84	0.78
0.86	0.89	0.87	0.88	0.86	0.88	0.88	0.86	0.87
0.25	0.28	0.29	0.30	0.33	0.29	0.34	0.32	0.29
0.61	0.63	0.57	0.57	0.67	0.52	0.60	0.65	0.51
0.89	0.86	0.87	0.87	0.87	0.83	0.81	0.82	0.80
0.81	0.81	0.85	0.82	0.78	0.80	0.88	0.84	0.85
0.81	0.79	0.84	0.86	0.80	0.73	0.86	0.80	0.79
0.85	0.84	0.89	0.86	0.88	0.85	0.87	0.82	0.85
0.83	0.85	0.80	0.82	0.85	0.78	0.83	0.83	0.82
0.93	0.94	0.96	0.95	0.97	0.92	0.94	0.94	0.95
0.88	0.83	0.84	0.80	0.85	0.76	0.82	0.83	0.77
0.92	0.89	0.88	0.85	0.91	0.86	0.89	0.91	0.86
0.80	0.74	0.79	0.81	0.79	0.74	0.83	0.78	0.81
0.37	0.46	0.56	0.33	0.45	0.39	0.41	0.47	0.37
0.94	0.95	0.97	0.95	0.96	0.92	0.95	0.93	0.92
0.73	0.70	0.73	0.69	0.66	0.69	0.63	0.67	0.64
0.46	0.61	0.59	0.42	0.56	0.42	0.50	0.56	0.46
0.88	0.88	0.89	0.87	0.89	0.87	0.90	0.90	0.86
0.90	0.86	0.85	0.84	0.92	0.84	0.90	0.91	0.84

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0.51	0.50	0.57	0.59	0.60	0.50	0.59	0.50	0.48
0.69	0.69	0.70	0.75	0.79	0.68	0.74	0.78	0.76
0.94	0.96	0.94	0.95	0.96	0.93	0.94	0.97	0.93
0.95	0.95	0.96	0.95	0.97	0.96	0.96	0.96	0.93
0.91	0.90	0.88	0.94	0.92	0.89	0.92	0.90	0.89
0.79	0.83	0.85	0.88	0.82	0.80	0.86	0.83	0.83
0.73	0.63	0.64	0.65	0.79	0.55	0.55	0.75	0.60
0.66	0.66	0.61	0.67	0.68	0.65	0.68	0.72	0.56
0.23	0.16	0.36	0.35	0.33	0.31	0.33	0.25	0.33

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RHM	RTG	R1H	RK9	RXW	RR8	RWP	RWF	RJE
0.72	0.73	0.68	0.75	0.72	0.73	0.73	0.74	0.74
0.55	0.62	0.52	0.59	0.55	0.61	0.58	0.58	0.59
0.47	0.53	0.48	0.46	0.51	0.50	0.48	0.58	0.50
0.61	0.59	0.61	0.57	0.52	0.60	0.58	0.59	0.53
0.73	0.78	0.72	0.75	0.75	0.81	0.80	0.80	0.79
0.70	0.72	0.69	0.73	0.69	0.75	0.71	0.76	0.73
0.53	0.56	0.51	0.55	0.52	0.57	0.52	0.58	0.56
0.84	0.87	0.79	0.85	0.85	0.85	0.84	0.84	0.86
0.77	0.77	0.71	0.75	0.76	0.78	0.74	0.79	0.76
0.82	0.83	0.75	0.83	0.81	0.87	0.81	0.83	0.83
0.69	0.71	0.71	0.70	0.67	0.77	0.71	0.70	0.68
0.84	0.85	0.87	0.89	0.79	0.88	0.89	0.89	0.87
0.79	0.79	0.72	0.80	0.77	0.81	0.77	0.81	0.78
0.62	0.67	0.59	0.68	0.63	0.67	0.63	0.67	0.67
0.84	0.88	0.82	0.82	0.81	0.87	0.87	0.84	0.86
0.88	0.88	0.84	0.84	0.86	0.87	0.86	0.91	0.87
0.78	0.77	0.70	0.78	0.77	0.81	0.79	0.80	0.76
0.64	0.69	0.66	0.65	0.63	0.66	0.70	0.64	0.63
0.72	0.75	0.66	0.71	0.75	0.73	0.73	0.77	0.75
0.68	0.75	0.63	0.74	0.69	0.71	0.70	0.73	0.75
0.57	0.64	0.55	0.67	0.62	0.60	0.68	0.65	0.58
0.68	0.71	0.61	0.70	0.72	0.69	0.70	0.72	0.70
0.94	0.97	0.94	0.97	0.97	0.97	0.95	0.96	0.95
0.87	0.82	0.79	0.83	0.80	0.86	0.84	0.83	0.83
0.84	0.90	0.81	0.85	0.86	0.87	0.84	0.90	0.89
0.25	0.36	0.32	0.29	0.34	0.45	0.35	0.34	0.46
0.56	0.62	0.51	0.61	0.58	0.61	0.64	0.66	0.58
0.84	0.84	0.78	0.85	0.85	0.85	0.82	0.87	0.81
0.83	0.83	0.79	0.85	0.82	0.83	0.83	0.82	0.83
0.78	0.84	0.73	0.85	0.81	0.87	0.77	0.80	0.79
0.85	0.89	0.78	0.80	0.86	0.90	0.86	0.85	0.81
0.82	0.86	0.76	0.85	0.82	0.84	0.81	0.85	0.84
0.95	0.96	0.92	0.95	0.95	0.94	0.95	0.95	0.94
0.83	0.83	0.74	0.83	0.81	0.84	0.75	0.82	0.82
0.87	0.87	0.79	0.90	0.87	0.88	0.90	0.90	0.87
0.76	0.77	0.79	0.76	0.83	0.77	0.88	0.82	0.84
0.40	0.50	0.34	0.44	0.39	0.57	0.47	0.48	0.43
0.95	0.95	0.91	0.93	0.94	0.96	0.94	0.93	0.93
0.64	0.70	0.60	0.59	0.65	0.62	0.64	0.76	0.61
0.45	0.58	0.36	0.49	0.45	0.59	0.62	0.51	0.56
0.86	0.92	0.84	0.87	0.88	0.91	0.91	0.90	0.89
0.85	0.87	0.80	0.85	0.82	0.85	0.84	0.89	0.86

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0.41	0.56	0.48	0.56	0.57	0.61	0.49	0.61	0.58
0.70	0.78	0.72	0.87	0.81	0.69	0.82	0.71	0.80
0.92	0.97	0.95	0.94	0.96	0.96	0.95	0.96	0.95
0.95	0.96	0.94	0.96	0.94	0.97	0.98	0.95	0.95
0.90	0.91	0.91	0.91	0.91	0.94	0.84	0.87	0.92
0.81	0.84	0.75	0.89	0.86	0.90	0.79	0.86	0.83
0.69	0.77	0.55	0.64	0.69	0.73	0.74	0.62	0.66
0.60	0.72	0.49	0.67	0.69	0.70	0.70	0.70	0.68
0.41	0.25	0.35	0.27	0.23	0.45	0.32	0.25	0.21

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RGT	RWA	RJ1	RRV	RH8	RVV	RM1	RTD	RTE
0.74	0.73	0.73	0.67	0.76	0.74	0.78	0.76	0.75
0.58	0.56	0.59	0.57	0.65	0.53	0.58	0.60	0.59
0.54	0.53	0.50	0.50	0.57	0.47	0.50	0.55	0.47
0.61	0.61	0.60	0.59	0.61	0.56	0.68	0.61	0.59
0.82	0.76	0.77	0.73	0.84	0.77	0.77	0.81	0.82
0.73	0.73	0.73	0.68	0.75	0.71	0.70	0.75	0.72
0.53	0.55	0.59	0.50	0.58	0.49	0.51	0.61	0.53
0.82	0.85	0.83	0.81	0.86	0.83	0.84	0.87	0.85
0.72	0.75	0.75	0.70	0.78	0.79	0.77	0.78	0.78
0.84	0.83	0.83	0.78	0.86	0.80	0.83	0.85	0.82
0.75	0.76	0.70	0.72	0.79	0.69	0.71	0.78	0.74
0.82	0.89	0.87	0.82	0.85	0.86	0.88	0.87	0.86
0.79	0.78	0.75	0.75	0.82	0.77	0.81	0.83	0.82
0.67	0.67	0.67	0.61	0.71	0.57	0.66	0.70	0.67
0.86	0.87	0.84	0.84	0.87	0.82	0.87	0.86	0.86
0.90	0.89	0.88	0.85	0.91	0.85	0.88	0.89	0.90
0.81	0.77	0.77	0.75	0.82	0.75	0.77	0.83	0.77
0.72	0.68	0.66	0.69	0.69	0.61	0.65	0.70	0.67
0.74	0.73	0.75	0.70	0.82	0.74	0.70	0.79	0.75
0.71	0.65	0.69	0.64	0.76	0.68	0.72	0.72	0.68
0.60	0.58	0.56	0.55	0.72	0.61	0.66	0.64	0.65
0.73	0.72	0.67	0.65	0.76	0.66	0.70	0.72	0.69
0.95	0.95	0.97	0.94	0.98	0.94	0.96	0.95	0.97
0.85	0.85	0.84	0.82	0.88	0.85	0.85	0.90	0.87
0.90	0.85	0.90	0.83	0.91	0.84	0.87	0.88	0.88
0.30	0.35	0.35	0.32	0.29	0.31	0.31	0.33	0.23
0.62	0.61	0.53	0.51	0.69	0.58	0.65	0.65	0.62
0.84	0.84	0.81	0.80	0.88	0.82	0.82	0.86	0.89
0.82	0.83	0.85	0.83	0.85	0.80	0.82	0.87	0.85
0.80	0.82	0.81	0.81	0.89	0.76	0.81	0.82	0.82
0.87	0.87	0.89	0.84	0.85	0.87	0.85	0.86	0.84
0.83	0.82	0.81	0.74	0.87	0.81	0.83	0.84	0.83
0.95	0.92	0.94	0.95	0.97	0.93	0.94	0.96	0.95
0.84	0.81	0.78	0.79	0.85	0.81	0.84	0.84	0.84
0.91	0.90	0.85	0.86	0.92	0.86	0.89	0.88	0.89
0.80	0.85	0.79	0.78	0.86	0.72	0.77	0.76	0.83
0.42	0.42	0.39	0.35	0.53	0.38	0.48	0.53	0.48
0.95	0.95	0.95	0.93	0.96	0.93	0.94	0.94	0.93
0.70	0.60	0.73	0.68	0.79	0.65	0.56	0.71	0.66
0.52	0.48	0.46	0.44	0.63	0.51	0.56	0.61	0.58
0.91	0.88	0.89	0.88	0.92	0.84	0.92	0.90	0.90
0.85	0.87	0.82	0.83	0.90	0.78	0.85	0.89	0.85

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0.55	0.59	0.55	0.59	0.66	0.51	0.63	0.49	0.57
0.71	0.71	0.75	0.73	0.75	0.67	0.75	0.74	0.76
0.97	0.95	0.94	0.94	0.97	0.96	0.95	0.97	0.93
0.96	0.97	0.96	0.96	0.97	0.93	0.98	0.97	0.97
0.94	0.88	0.92	0.94	0.91	0.85	0.94	0.89	0.84
0.85	0.83	0.84	0.86	0.94	0.77	0.89	0.81	0.88
0.62	0.71	0.60	0.66	0.79	0.63	0.67	0.79	0.77
0.62	0.66	0.62	0.53	0.73	0.66	0.76	0.69	0.61
0.51	0.26	0.47	0.54	0.27	0.22	0.22	0.27	0.23

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RWE	RTH	RHQ	RPY
0.68	0.73	0.74	0.71
0.56	0.62	0.59	0.58
0.47	0.53	0.53	0.59
0.57	0.57	0.61	0.63
0.78	0.80	0.77	0.82
0.68	0.74	0.76	0.70
0.50	0.58	0.57	0.53
0.81	0.83	0.82	0.80
0.73	0.79	0.76	0.73
0.81	0.83	0.85	0.79
0.67	0.74	0.72	0.78
0.86	0.85	0.90	0.90
0.76	0.79	0.78	0.80
0.61	0.66	0.67	0.64
0.83	0.89	0.83	0.85
0.85	0.90	0.87	0.92
0.75	0.79	0.78	0.77
0.62	0.66	0.69	0.73
0.72	0.75	0.77	0.80
0.70	0.74	0.69	0.69
0.57	0.68	0.61	0.55
0.66	0.70	0.69	0.72
0.95	0.95	0.97	0.97
0.80	0.87	0.85	0.87
0.83	0.88	0.88	0.90
0.29	0.34	0.34	0.26
0.59	0.63	0.61	0.55
0.81	0.85	0.83	0.89
0.79	0.82	0.87	0.87
0.76	0.83	0.83	0.79
0.84	0.89	0.87	0.88
0.81	0.82	0.84	0.78
0.94	0.94	0.94	0.97
0.77	0.83	0.82	0.85
0.87	0.89	0.89	0.86
0.78	0.75	0.80	0.80
0.44	0.44	0.46	0.39
0.94	0.95	0.96	0.97
0.62	0.73	0.67	0.79
0.51	0.54	0.56	0.48
0.88	0.88	0.89	0.91
0.87	0.85	0.87	0.83

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0.55	0.59	0.59	0.57
0.75	0.73	0.76	0.82
0.97	0.96	0.93	0.97
0.95	0.96	0.95	0.96
0.89	0.89	0.91	0.94
0.76	0.88	0.89	0.82
0.75	0.73	0.67	0.65
0.56	0.68	0.64	0.59
0.32	0.43	0.37	0.56

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Table 3. Main central grid: Reliability of hospital scores by question for each of the 146 hospitals inclu
between hospital variance starting with the question with the lowest variance (Q10 with between h
sizes, starting with the hospital with the lowest sample size (RQX with sample size equal to 31). These

Notes

- The **between hospital variance** is given in a log-odds scale. These variances are the direct output
- The **sample size** is the number of completed questionnaires received by the corresponding hospit
- Entries with NA come from hospitals which received less than 21 respondes for the corresponding

	Sample Size	31	32	53	71	71
Between Hospital Variance	Hospitals / Questions	RQX	RRJ	RT3	RMP	RPC
0.0151	Q10	0.09	0.09	0.11	0.14	0.17
0.0154	Q49	0.08	0.09	0.14	0.18	0.16
0.0159	Q35	NA	0.08	0.11	0.14	0.11
0.0162	Q45	NA	NA	NA	0.06	NA
0.0168	Q26	0.06	0.08	0.11	0.11	0.14
0.0178	Q13	0.10	0.11	0.15	0.18	0.19
0.0182	Q15	0.11	0.11	0.13	0.21	0.19
0.0198	Q9	0.09	0.09	0.11	0.08	0.14
0.0200	Q1	0.07	0.09	0.12	0.18	0.11
0.0207	Q12	0.11	0.06	0.13	0.11	0.15
0.0216	Q30	NA	0.11	0.16	0.14	0.10
0.0227	Q44	NA	NA	NA	0.06	NA
0.0234	Q7	0.11	0.11	0.13	0.19	0.20
0.0249	Q14	0.15	0.16	0.21	0.23	0.27
0.0273	Q34	0.05	0.03	0.11	0.09	0.13
0.0280	Q37	NA	0.05	0.11	0.11	0.11
0.0280	Q16	0.14	0.14	0.20	0.20	0.26
0.0293	Q48	NA	NA	NA	NA	NA
0.0296	Q31	0.11	0.14	0.18	0.19	0.21
0.0321	Q11	0.18	0.16	0.22	0.27	0.27
0.0328	Q53	0.11	0.15	0.22	0.27	0.22
0.0332	Q41	0.14	NA	0.16	0.22	0.24
0.0337	Q25	0.10	0.06	0.09	0.03	0.09
0.0349	Q29	NA	0.09	0.14	0.14	0.14
0.0350	Q6	0.09	0.11	0.11	0.21	0.12
0.0371	Q55	0.11	0.19	0.25	0.31	0.29
0.0374	Q54	0.20	0.23	0.30	0.35	0.36
0.0383	Q36	0.11	0.15	0.12	0.10	0.15
0.0387	Q47	NA	NA	NA	0.09	NA
0.0395	Q21	0.19	0.15	0.14	0.21	0.17
0.0414	Q38	NA	0.12	0.20	0.16	0.16
0.0439	Q2	0.13	0.24	0.21	0.24	0.29
0.0475	Q5	0.00	0.04	0.08	0.08	0.18
0.0483	Q28	NA	0.14	0.30	0.23	0.30

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0.0497	**Q19**	NA	NA	0.09	0.16	0.23
0.0532	**Q23**	NA	NA	NA	0.19	0.17
0.0564	**Q51**	NA	NA	NA	0.28	NA
0.0607	**Q39**	NA	0.20	0.10	0.10	0.18
0.0615	**Q32**	NA	0.20	0.34	0.43	0.35
0.0727	**Q50**	NA	0.29	0.28	0.48	0.34
0.0740	**Q56**	0.24	0.21	0.12	0.29	0.32
0.0778	**Q18**	NA	0.07	0.25	0.26	0.32
0.0793	**Q22**	NA	NA	0.34	0.37	0.32
0.0836	**Q8**	0.28	0.31	0.40	0.47	0.53
0.0849	**Q52**	0.22	0.14	0.31	0.00	0.19
0.0881	**Q42**	0.14	0.00	0.08	0.15	0.29
0.0936	**Q17**	0.35	0.20	0.21	0.15	0.48
0.1046	**Q20**	NA	0.26	0.31	0.36	0.45
0.1084	**Q33**	0.35	0.38	0.54	0.57	0.54
0.1341	**Q57**	0.49	0.51	0.44	0.70	0.57
0.1930	**Q58**	0.54	0.47	0.62	0.72	0.60

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ıded in the analysis (CPES 2016). The questions are ordered according to their
ospital variance equal to 0.0151). The hospitals are ordered according to their sample
values correspond to the cells in Figure 3.

of each of the 51 fitted logisted regression models.
al.
; question.

73	74	76	102	108	111	112	115	122
REP	**RAN**	**RGM**	**RBQ**	**R1F**	**RKE**	**RE9**	**RJ6**	**RVY**
0.17	0.18	0.12	0.18	0.23	0.27	0.26	0.28	0.26
0.20	0.19	0.18	0.23	0.24	0.24	0.24	0.23	0.25
0.16	0.14	0.11	0.19	0.16	0.16	0.14	0.16	0.12
NA	NA	NA	NA	NA	NA	NA	NA	NA
0.13	0.15	0.11	0.17	0.16	0.14	0.15	0.14	0.13
0.20	0.21	0.15	0.22	0.28	0.29	0.27	0.25	0.29
0.23	0.21	0.20	0.27	0.29	0.30	0.30	0.31	0.31
0.18	0.19	0.05	0.23	0.20	0.20	0.16	0.20	0.28
0.16	0.21	0.13	0.24	0.21	0.24	0.22	0.24	0.23
0.10	0.13	0.07	0.18	0.26	0.23	0.23	0.19	0.24
0.15	0.21	0.11	0.22	0.20	0.14	0.19	0.23	0.17
NA	NA	NA	NA	NA	0.07	NA	0.04	NA
0.14	0.25	0.14	0.27	0.27	0.26	0.30	0.29	0.22
0.26	0.28	0.26	0.34	0.38	0.34	0.32	0.36	0.40
0.05	0.09	0.09	0.23	0.28	0.11	0.14	0.19	0.19
0.13	0.18	0.07	0.18	0.21	0.09	0.11	0.20	0.16
0.26	0.27	0.12	0.30	0.37	0.35	0.34	0.36	0.32
NA	NA	NA	0.13	0.16	0.24	0.23	0.17	0.20
0.24	0.28	0.23	0.24	0.29	0.22	0.25	0.31	0.24
0.32	0.31	0.25	0.39	0.40	0.39	0.37	0.39	0.36
0.28	0.31	0.28	0.37	0.36	0.36	0.40	0.37	0.40
0.21	0.26	0.25	0.32	0.34	0.34	0.34	0.34	0.34
0.03	0.15	0.00	0.00	0.09	0.03	0.13	0.14	0.09
0.12	0.20	0.09	0.28	0.22	0.21	0.24	0.26	0.16
0.18	0.34	0.16	0.23	0.30	0.22	0.14	0.26	0.24
0.31	0.27	0.36	0.40	0.44	0.42	0.43	0.41	0.40
0.39	0.40	0.34	0.47	0.49	0.45	0.45	0.47	0.51
0.17	0.24	0.07	0.25	0.21	0.12	0.22	0.24	0.21
NA	NA	NA	NA	0.14	0.21	0.10	0.15	0.26
0.13	0.23	0.13	0.36	0.35	0.29	0.24	0.23	0.32
0.11	0.26	0.10	0.19	0.26	0.16	0.28	0.26	0.28
0.33	0.44	0.14	0.36	0.40	0.36	0.33	0.40	0.41
0.08	0.18	0.12	0.21	0.28	0.26	0.12	0.32	0.18
0.23	0.36	0.25	0.47	0.39	0.27	0.31	0.40	0.23

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0.23	0.28	0.09	0.36	0.30	0.27	0.24	0.16	0.16
0.15	0.28	0.17	0.25	0.23	0.17	0.26	0.33	0.32
0.20	0.35	0.23	0.44	0.33	0.33	0.32	0.31	0.33
0.11	0.22	0.10	0.30	0.28	0.10	0.10	0.28	0.32
0.40	0.41	0.33	0.45	0.52	0.43	0.43	0.50	0.43
0.40	0.49	0.38	0.58	0.53	0.52	0.52	0.50	0.51
0.26	0.44	0.18	0.29	0.50	0.26	0.26	0.40	0.36
0.22	0.44	0.30	0.36	0.48	0.41	0.23	0.13	0.49
0.36	0.43	0.41	0.53	0.53	0.42	0.57	0.49	0.51
0.55	0.53	0.40	0.58	0.62	0.59	0.43	0.58	0.66
0.19	0.28	0.20	0.29	0.32	0.32	0.08	0.29	0.20
0.00	0.20	0.08	0.20	0.29	0.25	0.20	0.20	0.00
0.21	0.42	0.37	0.46	0.46	0.21	0.26	0.50	0.58
0.23	0.46	0.28	0.60	0.58	0.29	0.52	0.45	0.58
0.54	0.62	0.45	0.65	0.67	0.56	0.52	0.67	0.52
0.69	0.70	0.63	0.74	0.71	0.76	0.69	0.76	0.77
0.73	0.77	0.77	0.81	0.56	0.82	0.79	0.79	0.69

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133	136	138	141	147	151	152	158	170
RA4	**RJN**	**RAS**	**RFR**	**RAX**	**RWW**	**RM3**	**RQM**	**RVR**
0.25	0.27	0.29	0.23	0.33	0.32	0.31	0.33	0.37
0.27	0.26	0.30	0.30	0.30	0.30	0.30	0.30	0.31
0.16	0.14	0.19	0.19	0.20	0.20	0.24	0.20	0.18
NA	0.11	0.09	0.07	NA	0.09	0.10	0.11	NA
0.19	0.17	0.18	0.12	0.17	0.19	0.18	0.19	0.16
0.30	0.34	0.33	0.30	0.35	0.36	0.28	0.36	0.37
0.34	0.35	0.35	0.34	0.33	0.37	0.37	0.38	0.39
0.24	0.21	0.22	0.20	0.26	0.28	0.22	0.29	0.32
0.21	0.22	0.28	0.21	0.29	0.23	0.27	0.28	0.35
0.25	0.26	0.23	0.19	0.28	0.29	0.21	0.33	0.30
0.17	0.17	0.25	0.17	0.25	0.25	0.25	0.22	0.25
0.04	0.07	0.09	0.06	NA	0.11	0.07	0.07	NA
0.34	0.21	0.34	0.31	0.34	0.36	0.27	0.34	0.36
0.36	0.41	0.40	0.39	0.45	0.45	0.41	0.46	0.46
0.22	0.20	0.21	0.17	0.24	0.27	0.26	0.24	0.18
0.15	0.16	0.21	0.17	0.23	0.20	0.26	0.31	0.22
0.31	0.31	0.39	0.36	0.38	0.46	0.33	0.47	0.42
0.25	0.27	0.26	0.28	0.25	0.21	0.13	0.30	0.23
0.31	0.22	0.35	0.24	0.35	0.31	0.41	0.37	0.35
0.42	0.37	0.41	0.38	0.44	0.48	0.41	0.50	0.48
0.38	0.43	0.40	0.37	0.42	0.43	0.46	0.44	0.41
0.34	0.41	0.42	0.38	0.40	0.43	0.34	0.46	0.39
0.06	0.16	0.09	0.03	0.09	0.14	0.14	0.18	0.15
0.30	0.16	0.27	0.18	0.33	0.27	0.27	0.25	0.25
0.30	0.19	0.31	0.26	0.24	0.43	0.29	0.32	0.39
0.44	0.47	0.49	0.51	0.43	0.49	0.51	0.49	0.51
0.50	0.51	0.54	0.50	0.54	0.56	0.55	0.57	0.58
0.24	0.19	0.26	0.20	0.32	0.32	0.24	0.30	0.23
0.17	0.23	0.15	0.17	0.30	0.25	0.07	0.29	0.17
0.30	0.22	0.34	0.24	0.33	0.40	0.26	0.37	0.27
0.35	0.18	0.33	0.21	0.32	0.33	0.27	0.32	0.16
0.32	0.37	0.50	0.38	0.42	0.55	0.42	0.51	0.43
0.12	0.18	0.32	0.16	0.32	0.37	0.26	0.34	0.19
0.31	0.27	0.42	0.35	0.35	0.40	0.42	0.40	0.35

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0.19	0.22	0.33	0.22	0.24	0.33	0.27	0.36	0.33
0.30	0.35	0.37	0.22	0.35	0.38	0.31	0.37	0.24
0.27	0.32	0.35	0.41	0.32	0.34	0.46	0.38	0.33
0.25	0.06	0.33	0.06	0.22	0.31	0.26	0.33	0.19
0.53	0.38	0.54	0.49	0.56	0.54	0.61	0.52	0.52
0.43	0.56	0.53	0.59	0.50	0.61	0.61	0.57	0.53
0.46	0.46	0.45	0.45	0.55	0.57	0.41	0.50	0.47
0.43	0.31	0.34	0.42	0.43	0.47	0.57	0.49	0.46
0.54	0.49	0.56	0.60	0.47	0.59	0.62	0.57	0.50
0.59	0.64	0.70	0.62	0.71	0.70	0.66	0.73	0.69
0.25	0.20	0.25	0.39	0.44	0.39	0.25	0.42	0.25
0.15	0.25	0.20	0.30	0.25	0.37	0.15	0.43	0.21
0.55	0.38	0.60	0.16	0.52	0.62	0.44	0.65	0.51
0.52	0.52	0.62	0.54	0.61	0.65	0.61	0.59	0.49
0.64	0.59	0.64	0.65	0.72	0.67	0.68	0.70	0.67
0.70	0.78	0.80	0.78	0.76	0.78	0.78	0.82	0.83
0.82	0.82	0.82	0.84	0.76	0.72	0.86	0.83	0.86

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175	189	192	193	200	210	210	211	216
RJR	**RC1**	**RFF**	**RJ2**	**RA3**	**RBT**	**REN**	**RRF**	**RAP**
0.35	0.32	0.35	0.39	0.38	0.39	0.38	0.40	0.42
0.31	0.34	0.35	0.38	0.36	0.38	0.39	0.37	0.41
0.19	0.25	0.25	0.25	0.18	0.23	0.25	0.24	0.24
0.09	0.12	0.09	0.11	NA	0.07	0.35	0.08	0.24
0.19	0.27	0.20	0.24	0.20	0.24	0.12	0.25	0.25
0.36	0.36	0.36	0.40	0.42	0.41	0.43	0.40	0.46
0.40	0.41	0.40	0.45	0.45	0.45	0.46	0.44	0.46
0.29	0.33	0.24	0.33	0.38	0.32	0.36	0.35	0.42
0.29	0.33	0.32	0.36	0.38	0.31	0.36	0.29	0.36
0.30	0.32	0.30	0.36	0.38	0.34	0.29	0.37	0.42
0.24	0.30	0.25	0.25	0.27	0.30	0.27	0.28	0.31
0.09	0.12	0.04	0.09	0.06	0.08	0.29	0.04	0.19
0.27	0.37	0.36	0.41	0.42	0.42	0.39	0.41	0.47
0.46	0.49	0.48	0.52	0.52	0.51	0.53	0.53	0.55
0.18	0.31	0.24	0.30	0.24	0.23	0.23	0.26	0.34
0.14	0.29	0.17	0.31	0.20	0.25	0.17	0.26	0.35
0.37	0.45	0.42	0.47	0.52	0.44	0.48	0.49	0.57
0.25	0.27	0.29	0.41	0.39	0.26	0.37	0.31	0.49
0.33	0.41	0.29	0.39	0.32	0.37	0.36	0.32	0.44
0.44	0.51	0.50	0.50	0.53	0.54	0.53	0.52	0.57
0.47	0.51	0.47	0.52	0.49	0.46	0.53	0.49	0.56
0.44	0.50	0.41	0.50	0.51	0.49	0.54	0.51	0.57
0.03	0.16	0.00	0.11	0.16	0.03	0.06	0.12	0.11
0.24	0.38	0.24	0.37	0.29	0.37	0.34	0.29	0.45
0.33	0.41	0.28	0.39	0.42	0.35	0.39	0.30	0.44
0.55	0.54	0.56	0.52	0.52	0.55	0.59	0.61	0.60
0.60	0.61	0.59	0.63	0.63	0.60	0.62	0.63	0.65
0.30	0.42	0.27	0.30	0.27	0.33	0.37	0.35	0.41
0.15	0.19	0.24	0.37	0.33	0.25	0.35	0.28	0.53
0.24	0.45	0.36	0.46	0.40	0.45	0.42	0.40	0.53
0.27	0.45	0.25	0.36	0.31	0.33	0.36	0.40	0.42
0.48	0.55	0.50	0.55	0.56	0.48	0.51	0.47	0.60
0.19	0.24	0.29	0.38	0.39	0.31	0.27	0.41	0.36
0.33	0.52	0.34	0.49	0.42	0.44	0.43	0.42	0.54

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0.37	0.44	0.40	0.45	0.35	0.43	0.42	0.41	0.56
0.24	0.42	0.28	0.44	0.33	0.38	0.42	0.35	0.50
0.38	0.36	0.49	0.46	0.39	0.47	0.58	0.47	0.48
0.06	0.44	0.19	0.15	0.25	0.15	0.22	0.31	0.41
0.55	0.64	0.55	0.61	0.55	0.62	0.58	0.60	0.61
0.56	0.59	0.65	0.65	0.55	0.65	0.67	0.68	0.70
0.59	0.58	0.47	0.59	0.61	0.56	0.49	0.57	0.68
0.49	0.56	0.46	0.62	0.55	0.57	0.46	0.56	0.63
0.54	0.61	0.67	0.69	0.63	0.65	0.69	0.68	0.73
0.66	0.74	0.74	0.75	0.73	0.75	0.75	0.65	0.77
0.25	0.20	0.36	0.52	0.20	0.47	0.42	0.33	0.58
0.26	0.15	0.34	0.43	0.30	0.37	0.40	0.40	0.55
0.57	0.67	0.61	0.44	0.63	0.55	0.67	0.60	0.61
0.44	0.67	0.58	0.66	0.69	0.67	0.60	0.65	0.70
0.67	0.76	0.73	0.72	0.65	0.67	0.73	0.68	0.73
0.82	0.85	0.79	0.84	0.84	0.84	0.84	0.77	0.88
0.84	0.79	0.84	0.84	0.87	0.83	0.86	0.84	0.88

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219	221	241	245	250	251	252	252	259
RMC	**RLQ**	**RLT**	**RDZ**	**RBK**	**RQQ**	**RBN**	**RDD**	**RFS**
0.33	0.37	0.40	0.35	0.41	0.43	0.37	0.44	0.46
0.37	0.38	0.41	0.37	0.43	0.43	0.39	0.42	0.43
0.25	0.21	0.26	0.33	0.33	0.24	0.32	0.30	0.31
0.12	0.14	0.18	0.15	0.15	0.10	0.03	0.11	0.13
0.25	0.25	0.24	0.33	0.29	0.23	0.30	0.25	0.28
0.38	0.41	0.43	0.43	0.47	0.48	0.42	0.47	0.47
0.42	0.45	0.49	0.47	0.51	0.50	0.45	0.50	0.49
0.23	0.31	0.41	0.29	0.43	0.42	0.29	0.40	0.38
0.30	0.31	0.43	0.29	0.36	0.44	0.30	0.36	0.33
0.21	0.32	0.35	0.36	0.42	0.41	0.37	0.41	0.42
0.27	0.29	0.25	0.31	0.36	0.31	0.37	0.36	0.35
0.08	0.13	0.19	0.15	0.17	0.16	0.02	0.09	0.04
0.38	0.34	0.44	0.45	0.51	0.44	0.41	0.46	0.45
0.50	0.54	0.55	0.52	0.58	0.57	0.56	0.58	0.56
0.23	0.32	0.30	0.35	0.39	0.28	0.27	0.34	0.32
0.25	0.31	0.33	0.28	0.37	0.22	0.30	0.36	0.31
0.41	0.48	0.51	0.49	0.57	0.52	0.50	0.54	0.52
0.27	0.31	0.38	0.35	0.47	0.43	0.28	0.42	0.38
0.38	0.39	0.43	0.48	0.50	0.40	0.51	0.47	0.47
0.45	0.53	0.56	0.54	0.59	0.57	0.57	0.58	0.59
0.49	0.49	0.56	0.53	0.57	0.58	0.54	0.55	0.52
0.45	0.51	0.50	0.48	0.58	0.56	0.54	0.57	0.55
0.09	0.18	0.09	0.16	0.14	0.20	0.09	0.12	0.22
0.28	0.34	0.37	0.32	0.46	0.33	0.30	0.45	0.42
0.33	0.35	0.42	0.37	0.48	0.43	0.38	0.44	0.39
0.53	0.57	0.61	0.62	0.62	0.58	0.61	0.61	0.62
0.61	0.64	0.66	0.62	0.68	0.67	0.66	0.68	0.66
0.32	0.32	0.36	0.43	0.50	0.35	0.41	0.32	0.43
0.20	0.27	0.28	0.36	0.51	0.47	0.19	0.33	0.28
0.38	0.48	0.46	0.44	0.49	0.53	0.38	0.50	0.44
0.31	0.34	0.35	0.36	0.45	0.39	0.41	0.44	0.44
0.38	0.53	0.57	0.47	0.61	0.52	0.48	0.56	0.53
0.37	0.24	0.33	0.35	0.38	0.40	0.40	0.38	0.38
0.48	0.47	0.51	0.40	0.56	0.52	0.45	0.56	0.54

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0.30	0.35	0.34	0.30	0.53	0.45	0.32	0.47	0.44
0.38	0.45	0.33	0.37	0.51	0.45	0.41	0.46	0.49
0.47	0.44	0.47	0.50	0.46	0.51	0.52	0.54	0.55
0.31	0.35	0.36	0.26	0.34	0.26	0.29	0.46	0.31
0.62	0.52	0.64	0.67	0.68	0.61	0.66	0.67	0.68
0.66	0.67	0.65	0.69	0.68	0.71	0.70	0.70	0.73
0.41	0.57	0.46	0.51	0.69	0.62	0.60	0.49	0.55
0.42	0.58	0.49	0.53	0.66	0.49	0.52	0.63	0.51
0.66	0.66	0.71	0.66	0.74	0.72	0.69	0.70	0.69
0.65	0.77	0.79	0.65	0.79	0.79	0.79	0.79	0.79
0.33	0.42	0.29	0.29	0.52	0.42	0.36	0.49	0.39
0.21	0.34	0.30	0.21	0.57	0.40	0.26	0.43	0.40
0.56	0.66	0.61	0.58	0.68	0.68	0.67	0.66	0.76
0.59	0.69	0.68	0.63	0.75	0.73	0.57	0.76	0.69
0.74	0.69	0.74	0.79	0.78	0.76	0.81	0.79	0.77
0.82	0.85	0.85	0.85	0.88	0.86	0.83	0.84	0.88
0.84	0.89	0.90	0.87	0.90	0.89	0.82	0.84	0.88

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261	277	277	279	279	287	288	288	294
RTK	**RCF**	**RWG**	**REM**	**RJF**	**RQW**	**RCB**	**RF4**	**RK5**
0.46	0.45	0.44	0.46	0.45	0.44	0.44	0.44	0.50
0.44	0.45	0.44	0.46	0.46	0.46	0.46	0.45	0.47
0.27	0.31	0.32	0.36	0.34	0.32	0.39	0.35	0.38
0.08	0.14	0.12	0.22	0.14	0.14	0.14	0.32	0.12
0.29	0.28	0.34	0.34	0.30	0.28	0.35	0.34	0.39
0.49	0.49	0.48	0.50	0.50	0.51	0.48	0.50	0.52
0.51	0.51	0.50	0.54	0.53	0.52	0.52	0.54	0.53
0.41	0.44	0.43	0.42	0.39	0.43	0.35	0.40	0.48
0.36	0.42	0.35	0.36	0.44	0.41	0.41	0.36	0.41
0.43	0.41	0.43	0.38	0.43	0.43	0.37	0.44	0.49
0.37	0.38	0.42	0.39	0.43	0.40	0.42	0.38	0.41
0.06	0.09	0.10	0.23	0.08	0.19	0.12	0.33	0.15
0.47	0.51	0.48	0.47	0.51	0.47	0.46	0.51	0.57
0.59	0.60	0.59	0.60	0.60	0.61	0.55	0.60	0.62
0.28	0.29	0.39	0.34	0.33	0.38	0.45	0.38	0.38
0.30	0.39	0.35	0.38	0.34	0.35	0.40	0.39	0.35
0.60	0.57	0.56	0.57	0.58	0.55	0.54	0.61	0.62
0.36	0.50	0.29	0.36	0.49	0.44	0.44	0.47	0.40
0.46	0.52	0.51	0.52	0.49	0.51	0.57	0.55	0.50
0.60	0.56	0.60	0.63	0.62	0.62	0.58	0.60	0.64
0.56	0.53	0.58	0.58	0.61	0.58	0.58	0.58	0.61
0.55	0.58	0.53	0.60	0.56	0.61	0.57	0.61	0.61
0.12	0.18	0.12	0.26	0.09	0.14	0.16	0.16	0.28
0.43	0.42	0.42	0.40	0.47	0.46	0.44	0.45	0.47
0.43	0.43	0.50	0.38	0.49	0.43	0.34	0.55	0.54
0.62	0.64	0.62	0.62	0.61	0.64	0.66	0.65	0.63
0.68	0.70	0.70	0.68	0.70	0.72	0.71	0.71	0.71
0.39	0.48	0.48	0.50	0.43	0.45	0.52	0.48	0.50
0.39	0.51	0.31	0.33	0.43	0.45	0.39	0.45	0.37
0.52	0.50	0.51	0.57	0.53	0.53	0.48	0.57	0.58
0.43	0.43	0.46	0.49	0.49	0.46	0.48	0.49	0.55
0.60	0.52	0.62	0.59	0.61	0.61	0.59	0.65	0.54
0.27	0.31	0.43	0.43	0.39	0.40	0.39	0.49	0.43
0.48	0.46	0.59	0.51	0.52	0.63	0.56	0.60	0.58

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0.51	0.44	0.41	0.50	0.46	0.52	0.45	0.59	0.58
0.45	0.49	0.43	0.38	0.58	0.53	0.45	0.58	0.53
0.49	0.57	0.54	0.59	0.52	0.49	0.54	0.54	0.45
0.48	0.38	0.44	0.39	0.36	0.48	0.19	0.40	0.41
0.66	0.71	0.72	0.74	0.70	0.72	0.77	0.72	0.74
0.67	0.73	0.71	0.74	0.73	0.73	0.71	0.73	0.70
0.64	0.61	0.69	0.62	0.59	0.64	0.62	0.63	0.70
0.63	0.52	0.62	0.62	0.67	0.69	0.66	0.70	0.69
0.68	0.71	0.69	0.76	0.75	0.73	0.70	0.76	0.74
0.81	0.78	0.81	0.80	0.77	0.82	0.81	0.82	0.80
0.33	0.29	0.42	0.51	0.37	0.53	0.25	0.63	0.45
0.48	0.30	0.52	0.37	0.43	0.57	0.43	0.41	0.37
0.70	0.74	0.69	0.70	0.67	0.66	0.66	0.61	0.75
0.76	0.73	0.67	0.77	0.79	0.77	0.71	0.81	0.81
0.76	0.78	0.81	0.82	0.79	0.81	0.84	0.83	0.77
0.86	0.90	0.89	0.89	0.90	0.89	0.87	0.89	0.90
0.87	0.91	0.84	0.89	0.91	0.91	0.91	0.90	0.89

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298	299	308	309	313	313	320	324	327
RCD	**RBZ**	**RTP**	**RWJ**	**RC9**	**RGP**	**RD8**	**RBD**	**RNQ**
0.44	0.47	0.47	0.46	0.47	0.48	0.52	0.47	0.47
0.45	0.46	0.47	0.47	0.48	0.48	0.49	0.49	0.50
0.30	0.32	0.27	0.40	0.32	0.34	0.33	0.32	0.36
0.16	0.15	0.22	0.15	0.17	0.14	0.13	0.12	0.21
0.27	0.32	0.34	0.35	0.31	0.32	0.35	0.31	0.28
0.48	0.49	0.51	0.52	0.50	0.53	0.54	0.53	0.52
0.52	0.54	0.55	0.54	0.55	0.55	0.57	0.55	0.57
0.35	0.42	0.48	0.46	0.40	0.48	0.48	0.44	0.43
0.38	0.47	0.39	0.48	0.43	0.47	0.43	0.45	0.42
0.40	0.46	0.42	0.46	0.42	0.48	0.49	0.46	0.45
0.28	0.39	0.36	0.43	0.38	0.39	0.39	0.35	0.38
0.16	0.16	0.14	0.12	0.09	0.15	0.13	0.13	0.22
0.44	0.46	0.53	0.49	0.48	0.52	0.57	0.46	0.54
0.56	0.60	0.63	0.62	0.62	0.62	0.64	0.62	0.63
0.30	0.31	0.30	0.49	0.35	0.35	0.36	0.36	0.36
0.32	0.26	0.19	0.41	0.35	0.35	0.39	0.29	0.29
0.51	0.56	0.58	0.61	0.57	0.60	0.63	0.58	0.63
0.38	0.50	0.47	0.25	0.45	0.48	0.57	0.44	0.51
0.48	0.43	0.49	0.57	0.51	0.49	0.54	0.43	0.53
0.47	0.58	0.61	0.60	0.64	0.63	0.67	0.64	0.63
0.60	0.62	0.61	0.61	0.61	0.61	0.64	0.62	0.62
0.50	0.56	0.61	0.56	0.60	0.59	0.64	0.60	0.64
0.06	0.18	0.16	0.22	0.18	0.14	0.33	0.14	0.14
0.39	0.42	0.40	0.52	0.43	0.47	0.47	0.44	0.44
0.38	0.38	0.51	0.41	0.52	0.53	0.51	0.44	0.58
0.66	0.62	0.64	0.65	0.69	0.66	0.64	0.66	0.66
0.69	0.69	0.72	0.72	0.73	0.72	0.74	0.73	0.74
0.41	0.39	0.42	0.50	0.46	0.43	0.46	0.41	0.43
0.31	0.46	0.40	0.25	0.32	0.48	0.54	0.41	0.43
0.34	0.52	0.56	0.56	0.52	0.57	0.59	0.54	0.59
0.33	0.47	0.36	0.50	0.45	0.53	0.52	0.47	0.47
0.53	0.59	0.65	0.59	0.64	0.65	0.66	0.65	0.68
0.33	0.19	0.39	0.33	0.35	0.46	0.47	0.22	0.43
0.47	0.59	0.47	0.63	0.60	0.62	0.61	0.54	0.61

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0.46	0.49	0.61	0.52	0.60	0.47	0.56	0.48	0.61
0.33	0.45	0.44	0.47	0.49	0.49	0.64	0.57	0.54
0.53	0.55	0.49	0.60	0.63	0.55	0.52	0.58	0.53
0.26	0.32	0.31	0.46	0.40	0.36	0.45	0.19	0.47
0.66	0.70	0.66	0.76	0.71	0.73	0.73	0.69	0.73
0.71	0.70	0.73	0.75	0.75	0.74	0.70	0.75	0.73
0.34	0.51	0.73	0.67	0.64	0.60	0.73	0.69	0.77
0.56	0.45	0.73	0.70	0.70	0.52	0.72	0.62	0.76
0.59	0.71	0.72	0.71	0.74	0.77	0.76	0.76	0.76
0.80	0.80	0.73	0.84	0.81	0.83	0.83	0.82	0.83
0.37	0.37	0.40	0.53	0.49	0.54	0.51	0.59	0.60
0.15	0.37	0.48	0.48	0.60	0.52	0.50	0.43	0.69
0.47	0.67	0.68	0.66	0.45	0.74	0.79	0.70	0.74
0.63	0.75	0.65	0.78	0.75	0.75	0.81	0.70	0.84
0.72	0.70	0.80	0.85	0.82	0.81	0.82	0.78	0.79
0.84	0.89	0.90	0.88	0.90	0.88	0.90	0.88	0.91
0.91	0.91	0.91	0.88	0.91	0.85	0.92	0.91	0.89

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344	350	350	352	374	384	387	395	396
RP5	**RVJ**	**RW3**	**RJC**	**RAE**	**RBL**	**RGR**	**RQ6**	**R1K**
0.50	0.46	0.53	0.47	0.54	0.52	0.53	0.55	0.54
0.51	0.52	0.52	0.50	0.53	0.51	0.52	0.54	0.53
0.37	0.41	0.41	0.33	0.44	0.40	0.37	0.41	0.40
0.15	0.25	0.13	0.19	0.17	0.24	0.20	0.26	0.19
0.33	0.47	0.35	0.26	0.44	0.36	0.32	0.31	0.40
0.56	0.55	0.53	0.52	0.58	0.55	0.56	0.55	0.59
0.57	0.58	0.56	0.59	0.60	0.58	0.60	0.61	0.61
0.46	0.44	0.45	0.46	0.52	0.49	0.51	0.47	0.47
0.47	0.47	0.52	0.43	0.47	0.48	0.45	0.52	0.53
0.49	0.47	0.45	0.45	0.49	0.50	0.45	0.48	0.54
0.43	0.45	0.43	0.32	0.52	0.43	0.42	0.43	0.45
0.16	0.24	0.11	0.17	0.11	0.22	0.16	0.24	0.16
0.55	0.54	0.50	0.49	0.59	0.52	0.54	0.47	0.58
0.65	0.66	0.64	0.65	0.68	0.66	0.67	0.66	0.67
0.41	0.28	0.42	0.35	0.56	0.44	0.41	0.41	0.43
0.43	0.42	0.47	0.25	0.52	0.38	0.33	0.39	0.39
0.64	0.57	0.59	0.60	0.67	0.64	0.62	0.63	0.68
0.43	0.32	0.40	0.53	0.50	0.42	0.53	0.35	0.54
0.54	0.57	0.60	0.48	0.63	0.56	0.52	0.54	0.54
0.66	0.65	0.65	0.64	0.70	0.68	0.67	0.69	0.68
0.63	0.65	0.64	0.59	0.65	0.65	0.65	0.65	0.67
0.62	0.62	0.62	0.63	0.68	0.66	0.66	0.65	0.67
0.16	0.28	0.12	0.18	0.31	0.16	0.28	0.16	0.29
0.54	0.51	0.54	0.43	0.62	0.47	0.41	0.38	0.50
0.53	0.59	0.49	0.48	0.52	0.59	0.58	0.54	0.59
0.67	0.71	0.69	0.70	0.70	0.70	0.71	0.73	0.71
0.75	0.74	0.75	0.73	0.77	0.75	0.74	0.76	0.77
0.50	0.54	0.52	0.26	0.61	0.54	0.40	0.42	0.50
0.48	0.32	0.34	0.46	0.48	0.43	0.51	0.32	0.54
0.57	0.51	0.57	0.49	0.64	0.54	0.58	0.55	0.60
0.53	0.43	0.59	0.50	0.60	0.53	0.44	0.44	0.58
0.68	0.68	0.67	0.66	0.67	0.67	0.67	0.70	0.73
0.48	0.52	0.42	0.27	0.53	0.46	0.46	0.42	0.57
0.59	0.57	0.67	0.53	0.71	0.59	0.55	0.59	0.67

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0.62	0.53	0.56	0.41	0.63	0.53	0.54	0.57	0.63
0.57	0.61	0.55	0.52	0.59	0.59	0.58	0.56	0.62
0.61	0.60	0.62	0.53	0.64	0.60	0.57	0.65	0.67
0.49	0.51	0.51	0.44	0.50	0.48	0.43	0.37	0.46
0.76	0.76	0.77	0.70	0.80	0.75	0.73	0.73	0.74
0.79	0.73	0.78	0.71	0.79	0.76	0.74	0.78	0.79
0.77	0.76	0.71	0.60	0.76	0.71	0.66	0.57	0.76
0.75	0.74	0.71	0.45	0.71	0.67	0.72	0.72	0.74
0.78	0.74	0.78	0.74	0.81	0.77	0.76	0.81	0.81
0.83	0.85	0.83	0.85	0.82	0.79	0.86	0.86	0.85
0.63	0.51	0.59	0.47	0.58	0.53	0.47	0.33	0.55
0.58	0.57	0.48	0.46	0.60	0.59	0.34	0.46	0.50
0.75	0.64	0.68	0.77	0.82	0.75	0.80	0.74	0.77
0.75	0.73	0.79	0.70	0.82	0.78	0.80	0.78	0.83
0.80	0.84	0.84	0.78	0.86	0.84	0.84	0.83	0.85
0.90	0.89	0.91	0.83	0.92	0.90	0.92	0.91	0.92
0.90	0.93	0.93	0.92	0.93	0.92	0.93	0.94	0.93

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397	404	409	412	415	423	430	430	437
RN7	**RHW**	**RNL**	**RCX**	**RPA**	**RWH**	**RM2**	**RR7**	**RNS**
0.52	0.53	0.56	0.52	0.55	0.56	0.51	0.55	0.58
0.53	0.54	0.55	0.54	0.57	0.56	0.56	0.56	0.56
0.38	0.42	0.39	0.42	0.42	0.46	0.49	0.41	0.45
0.18	0.43	0.28	0.17	0.22	0.34	0.22	0.28	0.30
0.33	0.38	0.38	0.33	0.41	0.41	0.40	0.36	0.41
0.52	0.54	0.59	0.57	0.57	0.60	0.56	0.53	0.57
0.60	0.62	0.62	0.60	0.63	0.63	0.61	0.62	0.64
0.48	0.54	0.50	0.43	0.52	0.56	0.49	0.45	0.54
0.49	0.45	0.48	0.52	0.52	0.55	0.43	0.43	0.54
0.45	0.52	0.58	0.50	0.51	0.55	0.45	0.44	0.53
0.42	0.50	0.45	0.40	0.50	0.51	0.52	0.42	0.53
0.11	0.40	0.31	0.18	0.22	0.36	0.20	0.18	0.30
0.54	0.61	0.60	0.58	0.60	0.62	0.54	0.54	0.62
0.63	0.69	0.70	0.67	0.70	0.70	0.68	0.63	0.69
0.47	0.43	0.46	0.48	0.51	0.52	0.54	0.37	0.51
0.35	0.35	0.38	0.45	0.55	0.45	0.49	0.32	0.47
0.56	0.66	0.68	0.63	0.67	0.68	0.64	0.60	0.66
0.50	0.51	0.58	0.53	0.55	0.55	0.43	0.50	0.62
0.55	0.59	0.49	0.57	0.62	0.62	0.67	0.50	0.62
0.64	0.68	0.71	0.66	0.68	0.72	0.70	0.68	0.69
0.67	0.68	0.69	0.62	0.68	0.70	0.70	0.71	0.70
0.63	0.69	0.71	0.65	0.69	0.70	0.64	0.63	0.69
0.18	0.21	0.27	0.28	0.16	0.24	0.21	0.12	0.33
0.47	0.58	0.56	0.53	0.59	0.54	0.52	0.44	0.58
0.56	0.60	0.59	0.56	0.62	0.65	0.54	0.46	0.64
0.72	0.69	0.73	0.72	0.71	0.71	0.72	0.74	0.72
0.76	0.78	0.78	0.76	0.78	0.79	0.78	0.76	0.79
0.47	0.46	0.42	0.52	0.55	0.60	0.58	0.48	0.55
0.41	0.45	0.60	0.50	0.54	0.54	0.36	0.44	0.57
0.51	0.61	0.65	0.59	0.63	0.63	0.63	0.58	0.65
0.46	0.48	0.55	0.52	0.58	0.65	0.61	0.45	0.64
0.72	0.72	0.68	0.69	0.72	0.74	0.64	0.58	0.73
0.40	0.62	0.48	0.47	0.58	0.58	0.47	0.29	0.57
0.58	0.62	0.54	0.62	0.69	0.69	0.68	0.60	0.70

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0.56	0.62	0.62	0.55	0.63	0.62	0.61	0.53	0.63
0.47	0.62	0.61	0.55	0.53	0.61	0.66	0.60	0.59
0.61	0.64	0.60	0.59	0.60	0.64	0.69	0.64	0.67
0.34	0.39	0.46	0.47	0.54	0.60	0.54	0.29	0.46
0.74	0.76	0.76	0.76	0.80	0.79	0.83	0.72	0.79
0.78	0.79	0.77	0.79	0.79	0.78	0.81	0.78	0.82
0.69	0.79	0.83	0.76	0.73	0.79	0.76	0.67	0.78
0.70	0.77	0.76	0.67	0.74	0.77	0.71	0.67	0.77
0.78	0.77	0.80	0.80	0.80	0.81	0.82	0.80	0.80
0.84	0.85	0.85	0.85	0.87	0.87	0.86	0.82	0.85
0.56	0.64	0.51	0.62	0.57	0.53	0.65	0.45	0.64
0.68	0.57	0.73	0.52	0.56	0.65	0.51	0.54	0.70
0.74	0.62	0.82	0.81	0.77	0.81	0.74	0.66	0.72
0.77	0.82	0.85	0.80	0.83	0.78	0.79	0.81	0.83
0.84	0.87	0.80	0.83	0.88	0.88	0.89	0.85	0.86
0.90	0.92	0.92	0.91	0.92	0.93	0.92	0.91	0.93
0.93	0.91	0.91	0.93	0.93	0.93	0.95	0.92	0.93

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438	439	443	448	451	467	470	484	496
RN3	**RGN**	**RVW**	**RNZ**	**RDE**	**RLN**	**RWY**	**RGQ**	**RXP**
0.55	0.54	0.54	0.55	0.55	0.58	0.58	0.61	0.59
0.58	0.55	0.57	0.55	0.57	0.59	0.57	0.58	0.60
0.44	0.44	0.45	0.40	0.44	0.42	0.41	0.43	0.46
0.22	0.26	0.24	0.20	0.28	0.22	0.23	0.32	0.21
0.40	0.38	0.36	0.38	0.36	0.36	0.43	0.37	0.41
0.58	0.57	0.55	0.60	0.57	0.59	0.60	0.63	0.63
0.64	0.61	0.62	0.63	0.64	0.64	0.66	0.65	0.66
0.51	0.50	0.47	0.55	0.51	0.54	0.55	0.57	0.59
0.49	0.51	0.50	0.51	0.53	0.58	0.53	0.55	0.56
0.53	0.51	0.47	0.49	0.54	0.55	0.54	0.53	0.58
0.51	0.49	0.45	0.42	0.48	0.46	0.48	0.47	0.50
0.22	0.21	0.18	0.16	0.21	0.19	0.16	0.22	0.25
0.59	0.58	0.55	0.54	0.59	0.61	0.62	0.58	0.60
0.70	0.68	0.66	0.70	0.68	0.68	0.72	0.71	0.73
0.47	0.36	0.45	0.44	0.41	0.49	0.50	0.43	0.49
0.46	0.41	0.46	0.40	0.42	0.41	0.43	0.41	0.48
0.64	0.64	0.59	0.65	0.66	0.68	0.69	0.68	0.71
0.63	0.53	0.58	0.51	0.57	0.53	0.60	0.60	0.61
0.64	0.57	0.60	0.56	0.61	0.57	0.60	0.61	0.63
0.67	0.68	0.69	0.70	0.67	0.73	0.71	0.74	0.74
0.69	0.67	0.68	0.67	0.70	0.72	0.69	0.69	0.72
0.70	0.70	0.65	0.63	0.67	0.68	0.69	0.68	0.71
0.21	0.21	0.21	0.19	0.23	0.29	0.24	0.19	0.28
0.57	0.56	0.56	0.46	0.58	0.49	0.58	0.53	0.64
0.62	0.58	0.53	0.48	0.60	0.54	0.58	0.61	0.60
0.71	0.75	0.74	0.75	0.73	0.76	0.76	0.76	0.76
0.79	0.78	0.76	0.78	0.79	0.78	0.80	0.80	0.81
0.61	0.55	0.56	0.56	0.56	0.57	0.49	0.52	0.54
0.59	0.51	0.48	0.47	0.52	0.53	0.58	0.60	0.58
0.66	0.59	0.56	0.63	0.63	0.66	0.67	0.57	0.66
0.58	0.49	0.58	0.47	0.48	0.54	0.54	0.54	0.58
0.75	0.70	0.66	0.69	0.75	0.72	0.73	0.73	0.74
0.50	0.42	0.47	0.41	0.49	0.54	0.49	0.42	0.51
0.66	0.68	0.62	0.57	0.64	0.67	0.60	0.57	0.71

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0.57	0.51	0.55	0.54	0.56	0.62	0.68	0.60	0.67
0.68	0.37	0.62	0.53	0.61	0.64	0.62	0.58	0.64
0.60	0.60	0.64	0.62	0.65	0.69	0.66	0.63	0.71
0.43	0.37	0.52	0.29	0.43	0.52	0.37	0.43	0.51
0.82	0.78	0.79	0.76	0.78	0.77	0.79	0.79	0.81
0.81	0.76	0.79	0.79	0.80	0.84	0.81	0.80	0.83
0.77	0.71	0.67	0.70	0.75	0.72	0.69	0.76	0.77
0.78	0.73	0.59	0.73	0.76	0.74	0.77	0.81	0.74
0.81	0.77	0.82	0.78	0.80	0.85	0.82	0.79	0.84
0.86	0.86	0.80	0.87	0.86	0.86	0.87	0.88	0.89
0.45	0.40	0.53	0.58	0.50	0.52	0.57	0.48	0.52
0.54	0.57	0.46	0.46	0.63	0.49	0.56	0.51	0.58
0.78	0.75	0.76	0.81	0.70	0.77	0.84	0.75	0.77
0.79	0.78	0.81	0.83	0.79	0.85	0.86	0.80	0.86
0.86	0.85	0.87	0.84	0.87	0.85	0.87	0.85	0.85
0.93	0.93	0.90	0.91	0.92	0.91	0.92	0.93	0.92
0.95	0.93	0.93	0.93	0.95	0.94	0.95	0.94	0.94

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506	506	507	516	517	523	529	540	542
RXH	**RXK**	**RD1**	**RJL**	**RXF**	**RQ8**	**RXQ**	**RTF**	**RD3**
0.58	0.59	0.61	0.61	0.60	0.61	0.58	0.60	0.63
0.58	0.61	0.60	0.61	0.62	0.60	0.61	0.61	0.61
0.47	0.46	0.44	0.49	0.48	0.48	0.45	0.43	0.48
0.27	0.29	0.31	0.24	0.24	0.20	0.16	0.28	0.37
0.46	0.47	0.43	0.39	0.44	0.41	0.45	0.37	0.42
0.63	0.62	0.61	0.64	0.60	0.62	0.64	0.58	0.66
0.66	0.67	0.67	0.67	0.68	0.67	0.67	0.68	0.69
0.55	0.47	0.57	0.61	0.60	0.59	0.56	0.53	0.57
0.53	0.55	0.56	0.59	0.57	0.54	0.59	0.55	0.58
0.57	0.53	0.55	0.59	0.56	0.55	0.57	0.52	0.58
0.51	0.54	0.50	0.53	0.53	0.53	0.52	0.45	0.53
0.16	0.20	0.24	0.16	0.18	0.15	0.16	0.18	0.34
0.61	0.62	0.59	0.65	0.60	0.63	0.61	0.58	0.66
0.73	0.73	0.73	0.72	0.71	0.72	0.74	0.69	0.73
0.51	0.50	0.46	0.49	0.47	0.51	0.53	0.45	0.48
0.48	0.53	0.44	0.45	0.51	0.41	0.43	0.43	0.45
0.70	0.70	0.67	0.71	0.71	0.70	0.71	0.69	0.71
0.47	0.60	0.55	0.64	0.62	0.58	0.62	0.61	0.64
0.63	0.65	0.63	0.59	0.66	0.64	0.59	0.57	0.64
0.73	0.71	0.72	0.75	0.74	0.73	0.74	0.73	0.76
0.69	0.72	0.72	0.72	0.74	0.73	0.72	0.74	0.73
0.71	0.71	0.70	0.74	0.70	0.72	0.73	0.69	0.72
0.23	0.25	0.28	0.28	0.34	0.19	0.34	0.32	0.26
0.57	0.62	0.57	0.56	0.61	0.58	0.59	0.51	0.56
0.68	0.62	0.56	0.67	0.61	0.64	0.64	0.55	0.58
0.77	0.77	0.76	0.77	0.77	0.77	0.76	0.78	0.78
0.80	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81
0.55	0.65	0.58	0.53	0.60	0.49	0.56	0.55	0.56
0.41	0.54	0.56	0.61	0.58	0.53	0.57	0.57	0.62
0.67	0.64	0.65	0.67	0.68	0.64	0.65	0.67	0.68
0.59	0.62	0.60	0.65	0.65	0.57	0.60	0.58	0.59
0.77	0.74	0.70	0.75	0.72	0.74	0.72	0.73	0.76
0.55	0.52	0.47	0.53	0.49	0.57	0.51	0.37	0.44
0.70	0.72	0.66	0.70	0.68	0.70	0.65	0.56	0.62

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0.61	0.67	0.57	0.66	0.63	0.64	0.68	0.61	0.60
0.62	0.61	0.60	0.68	0.64	0.67	0.66	0.65	0.69
0.65	0.67	0.64	0.64	0.71	0.65	0.64	0.70	0.72
0.52	0.53	0.55	0.48	0.49	0.53	0.51	0.58	0.48
0.78	0.80	0.81	0.81	0.83	0.79	0.78	0.78	0.81
0.79	0.82	0.80	0.82	0.84	0.80	0.79	0.85	0.85
0.80	0.76	0.70	0.83	0.75	0.79	0.76	0.76	0.75
0.80	0.75	0.72	0.73	0.71	0.80	0.83	0.73	0.75
0.83	0.85	0.82	0.86	0.85	0.83	0.81	0.85	0.84
0.81	0.82	0.88	0.90	0.87	0.89	0.88	0.89	0.89
0.59	0.64	0.55	0.65	0.64	0.55	0.63	0.48	0.63
0.61	0.72	0.53	0.66	0.51	0.54	0.62	0.53	0.58
0.86	0.76	0.80	0.83	0.86	0.79	0.81	0.79	0.72
0.82	0.86	0.82	0.87	0.86	0.85	0.82	0.86	0.85
0.87	0.87	0.86	0.88	0.88	0.88	0.88	0.86	0.88
0.94	0.94	0.94	0.94	0.93	0.94	0.93	0.91	0.92
0.95	0.95	0.95	0.94	0.95	0.94	0.95	0.94	0.94

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548	552	572	594	602	613	623	631	644
RW6	**RNA**	**RA9**	**RA2**	**RTX**	**RXC**	**RXL**	**RBA**	**RAJ**
0.64	0.61	0.58	0.63	0.63	0.64	0.63	0.63	0.64
0.63	0.62	0.60	0.62	0.62	0.63	0.66	0.63	0.64
0.47	0.49	0.46	0.55	0.46	0.49	0.53	0.50	0.53
0.29	0.21	0.39	0.32	0.22	0.21	0.25	0.33	0.41
0.44	0.45	0.46	0.52	0.39	0.43	0.45	0.46	0.46
0.66	0.63	0.63	0.67	0.65	0.68	0.67	0.65	0.69
0.68	0.68	0.68	0.71	0.70	0.70	0.72	0.71	0.72
0.57	0.57	0.54	0.57	0.59	0.62	0.62	0.60	0.60
0.62	0.60	0.58	0.62	0.60	0.63	0.62	0.62	0.56
0.59	0.57	0.56	0.61	0.56	0.61	0.62	0.60	0.61
0.51	0.53	0.46	0.62	0.49	0.52	0.57	0.49	0.59
0.21	0.13	0.35	0.30	0.17	0.22	0.25	0.29	0.40
0.65	0.64	0.62	0.67	0.65	0.68	0.67	0.63	0.67
0.75	0.74	0.72	0.76	0.74	0.77	0.76	0.75	0.76
0.53	0.54	0.51	0.66	0.53	0.56	0.50	0.46	0.59
0.51	0.48	0.48	0.57	0.47	0.50	0.51	0.38	0.58
0.74	0.72	0.65	0.73	0.71	0.74	0.74	0.72	0.76
0.52	0.65	0.56	0.56	0.60	0.65	0.66	0.64	0.69
0.65	0.64	0.62	0.73	0.61	0.66	0.68	0.62	0.70
0.75	0.75	0.72	0.75	0.75	0.77	0.77	0.73	0.76
0.75	0.74	0.73	0.76	0.73	0.75	0.76	0.74	0.76
0.75	0.75	0.71	0.73	0.72	0.76	0.75	0.72	0.75
0.29	0.19	0.34	0.35	0.28	0.17	0.28	0.31	0.31
0.61	0.61	0.57	0.66	0.58	0.58	0.61	0.56	0.66
0.62	0.69	0.62	0.70	0.67	0.68	0.66	0.63	0.64
0.77	0.78	0.78	0.78	0.80	0.78	0.81	0.81	0.78
0.83	0.82	0.82	0.83	0.82	0.84	0.84	0.83	0.84
0.62	0.56	0.55	0.69	0.51	0.58	0.62	0.52	0.59
0.49	0.58	0.45	0.54	0.57	0.60	0.61	0.55	0.66
0.70	0.66	0.59	0.68	0.68	0.70	0.72	0.66	0.70
0.68	0.56	0.53	0.65	0.55	0.62	0.63	0.59	0.58
0.74	0.75	0.75	0.81	0.79	0.80	0.78	0.75	0.78
0.63	0.56	0.48	0.52	0.54	0.54	0.65	0.48	0.49
0.70	0.69	0.62	0.75	0.62	0.71	0.73	0.69	0.72

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0.71	0.63	0.67	0.63	0.63	0.76	0.69	0.65	0.66
0.69	0.70	0.65	0.69	0.64	0.70	0.63	0.60	0.71
0.74	0.66	0.65	0.68	0.67	0.67	0.72	0.66	0.72
0.60	0.52	0.43	0.60	0.59	0.49	0.59	0.50	0.43
0.81	0.83	0.79	0.86	0.79	0.81	0.82	0.77	0.85
0.86	0.81	0.80	0.83	0.84	0.83	0.86	0.82	0.85
0.83	0.81	0.74	0.82	0.79	0.83	0.79	0.74	0.79
0.81	0.80	0.79	0.81	0.79	0.84	0.84	0.76	0.81
0.85	0.86	0.81	0.81	0.85	0.85	0.86	0.84	0.86
0.89	0.86	0.87	0.90	0.88	0.90	0.90	0.90	0.90
0.66	0.67	0.66	0.67	0.52	0.52	0.59	0.43	0.52
0.68	0.74	0.53	0.70	0.70	0.62	0.53	0.46	0.75
0.84	0.86	0.79	0.83	0.82	0.77	0.74	0.81	0.85
0.87	0.84	0.78	0.86	0.85	0.89	0.87	0.83	0.80
0.87	0.90	0.88	0.92	0.87	0.86	0.91	0.89	0.91
0.94	0.95	0.93	0.95	0.94	0.95	0.94	0.91	0.95
0.94	0.95	0.94	0.95	0.96	0.95	0.95	0.96	0.95

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659	666	673	678	698	707	723	728	738
RRK	**RHU**	**RXR**	**RJ7**	**RR1**	**RYR**	**RXN**	**RYJ**	**RX1**
0.67	0.66	0.65	0.67	0.65	0.69	0.65	0.70	0.68
0.66	0.66	0.68	0.66	0.68	0.67	0.68	0.68	0.69
0.60	0.55	0.53	0.57	0.58	0.50	0.55	0.61	0.62
0.31	0.49	0.28	0.31	0.29	0.26	0.54	0.43	0.49
0.53	0.49	0.47	0.51	0.56	0.45	0.55	0.58	0.57
0.68	0.68	0.72	0.70	0.70	0.71	0.70	0.73	0.70
0.72	0.72	0.73	0.73	0.73	0.74	0.75	0.75	0.75
0.62	0.60	0.63	0.63	0.61	0.61	0.62	0.67	0.64
0.65	0.64	0.63	0.63	0.64	0.64	0.63	0.68	0.65
0.62	0.61	0.65	0.65	0.64	0.65	0.64	0.68	0.63
0.64	0.62	0.58	0.59	0.64	0.54	0.59	0.65	0.67
0.23	0.42	0.28	0.30	0.23	0.26	0.49	0.45	0.41
0.68	0.68	0.71	0.71	0.72	0.68	0.67	0.74	0.73
0.78	0.77	0.79	0.79	0.79	0.79	0.78	0.80	0.80
0.64	0.62	0.54	0.62	0.64	0.57	0.63	0.68	0.65
0.60	0.55	0.52	0.62	0.61	0.43	0.58	0.64	0.62
0.74	0.74	0.76	0.77	0.77	0.77	0.76	0.80	0.78
0.60	0.70	0.68	0.68	0.68	0.71	0.62	0.70	0.70
0.75	0.71	0.69	0.73	0.74	0.67	0.70	0.77	0.77
0.77	0.79	0.80	0.79	0.78	0.79	0.77	0.82	0.79
0.77	0.77	0.79	0.78	0.79	0.78	0.78	0.81	0.80
0.77	0.78	0.79	0.78	0.79	0.78	0.77	0.81	0.79
0.39	0.40	0.26	0.39	0.34	0.36	0.34	0.49	0.30
0.70	0.63	0.66	0.65	0.70	0.60	0.64	0.73	0.74
0.70	0.72	0.69	0.63	0.74	0.68	0.69	0.73	0.70
0.82	0.80	0.82	0.79	0.81	0.79	0.83	0.81	0.83
0.85	0.84	0.85	0.86	0.86	0.85	0.85	0.86	0.87
0.73	0.66	0.67	0.68	0.71	0.60	0.68	0.76	0.65
0.56	0.67	0.68	0.67	0.61	0.68	0.59	0.73	0.64
0.74	0.70	0.75	0.74	0.73	0.71	0.72	0.77	0.73
0.68	0.69	0.68	0.71	0.70	0.59	0.61	0.76	0.70
0.81	0.81	0.81	0.80	0.80	0.80	0.78	0.85	0.81
0.60	0.63	0.60	0.61	0.66	0.60	0.58	0.68	0.64
0.78	0.78	0.73	0.77	0.78	0.68	0.75	0.81	0.80

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0.73	0.69	0.75	0.77	0.74	0.75	0.74	0.81	0.76
0.75	0.74	0.71	0.72	0.73	0.66	0.68	0.78	0.77
0.74	0.74	0.79	0.72	0.75	0.69	0.77	0.78	0.74
0.58	0.57	0.62	0.62	0.71	0.56	0.57	0.73	0.63
0.88	0.86	0.84	0.85	0.87	0.82	0.85	0.88	0.89
0.85	0.84	0.88	0.84	0.87	0.83	0.87	0.87	0.86
0.80	0.81	0.80	0.87	0.84	0.84	0.82	0.88	0.84
0.80	0.85	0.83	0.85	0.82	0.86	0.82	0.88	0.84
0.87	0.87	0.88	0.87	0.88	0.85	0.87	0.89	0.89
0.89	0.89	0.87	0.91	0.85	0.90	0.87	0.92	0.90
0.71	0.72	0.71	0.76	0.64	0.66	0.72	0.82	0.71
0.63	0.64	0.71	0.71	0.71	0.71	0.66	0.79	0.69
0.84	0.83	0.80	0.85	0.86	0.85	0.83	0.79	0.81
0.89	0.84	0.89	0.89	0.89	0.88	0.86	0.88	0.84
0.93	0.92	0.89	0.92	0.92	0.87	0.90	0.93	0.92
0.95	0.95	0.95	0.96	0.95	0.95	0.95	0.96	0.96
0.97	0.96	0.95	0.96	0.95	0.96	0.95	0.97	0.97

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740	743	748	750	765	766	770	781	801
RWD	**RL4**	**RN5**	**RDU**	**RBV**	**RA7**	**REF**	**RAL**	**RKB**
0.68	0.69	0.70	0.69	0.70	0.70	0.67	0.71	0.71
0.69	0.69	0.70	0.68	0.70	0.70	0.69	0.70	0.71
0.55	0.57	0.57	0.53	0.62	0.58	0.55	0.58	0.61
0.48	0.40	0.36	0.28	0.43	0.47	0.43	0.39	0.41
0.52	0.50	0.50	0.51	0.55	0.53	0.48	0.58	0.54
0.73	0.71	0.72	0.72	0.71	0.71	0.70	0.74	0.72
0.75	0.75	0.75	0.75	0.76	0.75	0.75	0.76	0.76
0.67	0.63	0.67	0.66	0.69	0.69	0.66	0.71	0.68
0.63	0.67	0.68	0.65	0.69	0.66	0.68	0.68	0.69
0.68	0.64	0.67	0.66	0.64	0.68	0.65	0.71	0.65
0.62	0.63	0.62	0.58	0.65	0.64	0.61	0.64	0.66
0.39	0.38	0.36	0.29	0.39	0.46	0.36	0.36	0.37
0.73	0.70	0.72	0.72	0.71	0.72	0.68	0.76	0.72
0.80	0.80	0.80	0.80	0.81	0.81	0.79	0.81	0.80
0.61	0.62	0.55	0.60	0.69	0.64	0.62	0.62	0.71
0.57	0.57	0.53	0.53	0.57	0.56	0.56	0.59	0.63
0.79	0.78	0.79	0.77	0.77	0.78	0.77	0.81	0.79
0.72	0.71	0.69	0.65	0.69	0.74	0.66	0.66	0.71
0.72	0.74	0.71	0.70	0.70	0.73	0.69	0.74	0.76
0.81	0.79	0.81	0.81	0.82	0.82	0.78	0.82	0.82
0.81	0.80	0.79	0.79	0.81	0.81	0.80	0.81	0.81
0.81	0.80	0.78	0.79	0.80	0.80	0.78	0.81	0.81
0.31	0.30	0.34	0.41	0.34	0.40	0.39	0.46	0.30
0.71	0.71	0.61	0.67	0.66	0.70	0.65	0.69	0.72
0.70	0.74	0.73	0.69	0.71	0.70	0.73	0.72	0.72
0.81	0.81	0.80	0.81	0.82	0.82	0.83	0.82	0.84
0.87	0.86	0.86	0.86	0.87	0.87	0.86	0.87	0.87
0.67	0.71	0.59	0.64	0.68	0.64	0.61	0.69	0.73
0.74	0.70	0.70	0.65	0.66	0.73	0.69	0.66	0.63
0.77	0.73	0.74	0.75	0.74	0.70	0.75	0.79	0.71
0.70	0.71	0.69	0.70	0.68	0.68	0.64	0.70	0.69
0.81	0.84	0.82	0.80	0.84	0.83	0.81	0.85	0.83
0.67	0.59	0.65	0.63	0.53	0.59	0.50	0.69	0.63
0.76	0.79	0.69	0.75	0.78	0.78	0.72	0.80	0.79

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0.73	0.72	0.66	0.74	0.74	0.79	0.69	0.77	0.75
0.73	0.67	0.73	0.78	0.77	0.75	0.76	0.79	0.75
0.73	0.74	0.67	0.74	0.79	0.74	0.75	0.76	0.77
0.62	0.62	0.61	0.55	0.45	0.54	0.48	0.66	0.58
0.86	0.87	0.85	0.85	0.87	0.86	0.85	0.86	0.88
0.86	0.86	0.83	0.86	0.89	0.86	0.87	0.87	0.88
0.89	0.82	0.85	0.85	0.85	0.87	0.84	0.87	0.84
0.82	0.84	0.80	0.85	0.85	0.87	0.77	0.86	0.82
0.89	0.89	0.87	0.87	0.89	0.88	0.87	0.88	0.89
0.91	0.88	0.92	0.92	0.92	0.92	0.91	0.93	0.92
0.75	0.62	0.74	0.67	0.76	0.70	0.64	0.78	0.74
0.81	0.75	0.73	0.73	0.70	0.73	0.64	0.71	0.71
0.89	0.87	0.85	0.85	0.88	0.80	0.83	0.87	0.83
0.91	0.90	0.90	0.89	0.88	0.87	0.89	0.90	0.89
0.91	0.92	0.91	0.92	0.93	0.92	0.88	0.93	0.93
0.95	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
0.97	0.96	0.96	0.95	0.97	0.97	0.97	0.97	0.97

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819	827	845	861	900	923	938	963	974
RTR	**RJZ**	**RHM**	**RTG**	**R1H**	**RK9**	**RXW**	**RR8**	**RWP**
0.71	0.72	0.72	0.72	0.75	0.72	0.74	0.74	0.74
0.71	0.71	0.73	0.72	0.73	0.73	0.74	0.74	0.74
0.61	0.61	0.65	0.63	0.63	0.62	0.61	0.68	0.60
0.45	0.36	0.44	0.47	0.49	0.47	0.48	0.53	0.45
0.56	0.54	0.63	0.58	0.60	0.62	0.59	0.62	0.55
0.73	0.74	0.75	0.75	0.77	0.75	0.77	0.75	0.77
0.77	0.77	0.77	0.77	0.79	0.78	0.79	0.79	0.80
0.69	0.70	0.69	0.66	0.74	0.69	0.70	0.70	0.71
0.72	0.69	0.69	0.69	0.72	0.72	0.71	0.71	0.74
0.66	0.71	0.70	0.69	0.75	0.70	0.72	0.67	0.72
0.66	0.67	0.72	0.67	0.68	0.68	0.68	0.70	0.67
0.34	0.35	0.43	0.42	0.42	0.35	0.50	0.46	0.37
0.74	0.73	0.74	0.73	0.78	0.75	0.77	0.75	0.77
0.81	0.82	0.82	0.82	0.84	0.82	0.84	0.84	0.84
0.62	0.66	0.70	0.62	0.68	0.69	0.69	0.69	0.64
0.56	0.64	0.65	0.63	0.67	0.68	0.64	0.70	0.65
0.79	0.81	0.79	0.81	0.83	0.81	0.82	0.80	0.81
0.73	0.68	0.70	0.72	0.78	0.75	0.78	0.71	0.75
0.74	0.76	0.79	0.76	0.78	0.78	0.75	0.81	0.76
0.82	0.84	0.83	0.82	0.85	0.83	0.84	0.85	0.85
0.81	0.80	0.82	0.82	0.83	0.82	0.84	0.84	0.84
0.81	0.81	0.81	0.82	0.85	0.82	0.83	0.84	0.83
0.38	0.42	0.48	0.36	0.46	0.36	0.31	0.42	0.42
0.71	0.75	0.72	0.74	0.76	0.74	0.74	0.76	0.72
0.74	0.73	0.77	0.70	0.80	0.78	0.78	0.76	0.79
0.83	0.83	0.82	0.85	0.85	0.84	0.86	0.87	0.86
0.87	0.88	0.88	0.88	0.89	0.89	0.89	0.89	0.89
0.72	0.72	0.75	0.72	0.76	0.71	0.69	0.77	0.73
0.71	0.65	0.68	0.72	0.79	0.70	0.76	0.70	0.75
0.77	0.78	0.79	0.75	0.83	0.75	0.79	0.74	0.81
0.75	0.71	0.76	0.69	0.77	0.78	0.71	0.72	0.73
0.83	0.84	0.84	0.81	0.88	0.84	0.85	0.85	0.86
0.65	0.62	0.61	0.59	0.73	0.65	0.66	0.69	0.63
0.79	0.81	0.81	0.79	0.83	0.80	0.79	0.83	0.83

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0.70	0.78	0.77	0.77	0.85	0.75	0.79	0.79	0.74
0.76	0.77	0.79	0.79	0.83	0.79	0.77	0.80	0.72
0.79	0.75	0.79	0.79	0.81	0.75	0.79	0.83	0.81
0.67	0.68	0.63	0.60	0.71	0.68	0.62	0.65	0.65
0.88	0.87	0.90	0.88	0.89	0.89	0.88	0.91	0.89
0.88	0.88	0.88	0.89	0.89	0.87	0.89	0.90	0.90
0.84	0.88	0.88	0.82	0.90	0.88	0.88	0.85	0.86
0.80	0.87	0.87	0.85	0.90	0.87	0.89	0.89	0.87
0.89	0.89	0.88	0.89	0.92	0.89	0.91	0.90	0.90
0.91	0.92	0.93	0.92	0.93	0.89	0.92	0.94	0.92
0.65	0.80	0.80	0.65	0.76	0.78	0.70	0.71	0.75
0.70	0.80	0.74	0.70	0.79	0.72	0.80	0.68	0.62
0.87	0.87	0.87	0.87	0.86	0.86	0.87	0.82	0.92
0.90	0.90	0.91	0.90	0.93	0.88	0.90	0.87	0.92
0.91	0.93	0.94	0.91	0.93	0.93	0.92	0.94	0.92
0.96	0.96	0.96	0.96	0.97	0.96	0.96	0.96	0.96
0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.98	0.97

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976	982	992	1024	1053	1056	1062	1067	1225
RWF	**RJE**	**RGT**	**RWA**	**RJ1**	**RRV**	**RH8**	**RVV**	**RM1**
0.74	0.74	0.74	0.75	0.76	0.78	0.74	0.75	0.76
0.73	0.76	0.75	0.76	0.76	0.75	0.74	0.76	0.78
0.57	0.65	0.66	0.69	0.65	0.67	0.63	0.62	0.66
0.52	0.50	0.49	0.50	0.50	0.44	0.48	0.46	0.51
0.54	0.60	0.59	0.64	0.62	0.63	0.57	0.64	0.66
0.75	0.77	0.77	0.77	0.78	0.80	0.77	0.79	0.81
0.80	0.80	0.80	0.80	0.81	0.81	0.80	0.81	0.83
0.72	0.70	0.73	0.71	0.74	0.76	0.71	0.74	0.76
0.70	0.71	0.75	0.73	0.75	0.77	0.74	0.71	0.76
0.71	0.71	0.70	0.72	0.73	0.76	0.70	0.75	0.75
0.65	0.71	0.70	0.71	0.70	0.71	0.66	0.69	0.72
0.42	0.43	0.51	0.41	0.44	0.44	0.47	0.42	0.47
0.75	0.77	0.77	0.78	0.80	0.79	0.75	0.80	0.79
0.84	0.84	0.84	0.84	0.85	0.85	0.84	0.86	0.87
0.64	0.67	0.70	0.69	0.70	0.71	0.67	0.70	0.68
0.53	0.66	0.63	0.68	0.65	0.70	0.61	0.68	0.67
0.80	0.83	0.81	0.83	0.83	0.84	0.81	0.84	0.85
0.77	0.78	0.74	0.76	0.77	0.77	0.74	0.77	0.79
0.72	0.77	0.80	0.81	0.78	0.80	0.74	0.77	0.81
0.85	0.84	0.85	0.86	0.86	0.87	0.84	0.86	0.87
0.84	0.85	0.84	0.83	0.86	0.85	0.84	0.85	0.86
0.83	0.84	0.83	0.83	0.85	0.86	0.82	0.85	0.86
0.34	0.45	0.46	0.50	0.37	0.50	0.27	0.53	0.47
0.71	0.76	0.75	0.77	0.75	0.77	0.71	0.73	0.76
0.72	0.75	0.74	0.79	0.74	0.81	0.72	0.82	0.81
0.86	0.88	0.85	0.87	0.87	0.87	0.86	0.86	0.88
0.89	0.89	0.89	0.90	0.90	0.90	0.89	0.90	0.91
0.64	0.76	0.75	0.77	0.77	0.78	0.69	0.74	0.78
0.75	0.76	0.75	0.75	0.73	0.75	0.72	0.78	0.78
0.80	0.81	0.80	0.80	0.82	0.82	0.72	0.82	0.82
0.72	0.78	0.76	0.77	0.71	0.77	0.75	0.73	0.77
0.84	0.85	0.85	0.87	0.87	0.90	0.84	0.87	0.88
0.63	0.68	0.64	0.76	0.69	0.66	0.58	0.75	0.73
0.78	0.82	0.81	0.85	0.84	0.84	0.80	0.82	0.82

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0.75	0.81	0.76	0.76	0.83	0.83	0.74	0.80	0.82
0.77	0.77	0.79	0.76	0.83	0.84	0.74	0.81	0.82
0.76	0.82	0.79	0.79	0.85	0.82	0.80	0.80	0.82
0.64	0.70	0.64	0.66	0.63	0.73	0.56	0.69	0.71
0.85	0.90	0.90	0.92	0.88	0.90	0.87	0.89	0.91
0.88	0.92	0.89	0.89	0.91	0.91	0.90	0.91	0.91
0.87	0.88	0.86	0.88	0.89	0.89	0.86	0.91	0.86
0.84	0.88	0.89	0.86	0.90	0.91	0.85	0.91	0.91
0.90	0.91	0.90	0.92	0.92	0.92	0.90	0.91	0.92
0.94	0.92	0.94	0.94	0.94	0.94	0.94	0.95	0.95
0.76	0.74	0.71	0.77	0.81	0.83	0.69	0.75	0.81
0.78	0.79	0.75	0.69	0.77	0.77	0.66	0.83	0.66
0.91	0.87	0.83	0.91	0.88	0.84	0.89	0.92	0.87
0.90	0.91	0.91	0.92	0.92	0.91	0.82	0.93	0.91
0.92	0.94	0.94	0.94	0.94	0.94	0.92	0.94	0.94
0.96	0.97	0.97	0.97	0.97	0.97	0.96	0.97	0.97
0.97	0.97	0.98	0.97	0.98	0.98	0.97	0.97	0.97

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1324	1344	1437	1451	1513	1972
RTD	**RTE**	**RWE**	**RTH**	**RHQ**	**RPY**
0.78	0.79	0.82	0.81	0.81	0.86
0.79	0.80	0.81	0.80	0.82	0.85
0.73	0.67	0.74	0.71	0.73	0.72
0.54	0.57	0.61	0.63	0.59	0.67
0.67	0.63	0.68	0.68	0.69	0.64
0.81	0.82	0.84	0.83	0.82	0.88
0.84	0.84	0.85	0.85	0.86	0.89
0.75	0.77	0.81	0.80	0.81	0.86
0.77	0.77	0.80	0.79	0.80	0.85
0.75	0.78	0.80	0.79	0.78	0.86
0.73	0.72	0.79	0.75	0.77	0.73
0.48	0.53	0.55	0.60	0.48	0.57
0.79	0.80	0.84	0.83	0.83	0.86
0.87	0.87	0.89	0.88	0.89	0.91
0.74	0.72	0.78	0.70	0.78	0.76
0.71	0.65	0.77	0.69	0.74	0.65
0.83	0.86	0.88	0.86	0.87	0.90
0.76	0.82	0.83	0.79	0.81	0.86
0.82	0.81	0.85	0.83	0.83	0.81
0.88	0.89	0.90	0.88	0.90	0.92
0.88	0.87	0.90	0.88	0.89	0.92
0.87	0.87	0.89	0.88	0.89	0.91
0.56	0.41	0.54	0.54	0.44	0.43
0.74	0.75	0.84	0.78	0.80	0.78
0.81	0.81	0.86	0.83	0.81	0.84
0.89	0.87	0.89	0.90	0.91	0.91
0.91	0.92	0.92	0.92	0.93	0.95
0.79	0.71	0.83	0.79	0.82	0.74
0.72	0.79	0.83	0.78	0.77	0.83
0.83	0.83	0.87	0.83	0.85	0.90
0.81	0.79	0.83	0.77	0.80	0.78
0.89	0.89	0.90	0.90	0.90	0.94
0.67	0.72	0.77	0.76	0.76	0.68
0.85	0.83	0.89	0.86	0.87	0.85

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0.83	0.81	0.85	0.82	0.85	0.90
0.84	0.82	0.86	0.86	0.86	0.90
0.87	0.83	0.87	0.84	0.88	0.88
0.74	0.74	0.76	0.69	0.70	0.62
0.92	0.91	0.93	0.91	0.92	0.90
0.93	0.92	0.93	0.92	0.94	0.95
0.90	0.90	0.92	0.92	0.91	0.92
0.88	0.90	0.90	0.91	0.91	0.95
0.93	0.92	0.94	0.92	0.94	0.95
0.95	0.95	0.95	0.96	0.96	0.96
0.76	0.85	0.75	0.81	0.86	0.82
0.76	0.76	0.85	0.81	0.86	0.85
0.92	0.94	0.93	0.93	0.91	0.91
0.94	0.92	0.95	0.92	0.93	0.96
0.94	0.93	0.95	0.95	0.96	0.96
0.97	0.98	0.98	0.98	0.98	0.98
0.98	0.98	0.98	0.98	0.98	0.99

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STROBE Statement—Checklist of items that should be included in reports of ***cross-sectional studies***

	Item No	Recommendation	Page No
Title and abstract	1	(*a*) Indicate the study's design with a commonly used term in the title or the abstract	1
		(*b*) Provide in the abstract an informative and balanced summary of what was done and what was found	2
Introduction			
Background/rationale	2	Explain the scientific background and rationale for the investigation being reported	3,4
Objectives	3	State specific objectives, including any prespecified hypotheses	2,4
Methods			
Study design	4	Present key elements of study design early in the paper	4,5
Setting	5	Describe the setting, locations, and relevant dates, including periods of recruitment, exposure, follow-up, and data collection	4
Participants	6	(*a*) Give the eligibility criteria, and the sources and methods of selection of participants	4
Variables	7	Clearly define all outcomes, exposures, predictors, potential confounders, and effect modifiers. Give diagnostic criteria, if applicable	4,5
Data sources/ measurement	8*	For each variable of interest, give sources of data and details of methods of assessment (measurement). Describe comparability of assessment methods if there is more than one group	*4*
Bias	9	Describe any efforts to address potential sources of bias	NA
Study size	10	Explain how the study size was arrived at	4,5
Quantitative variables	11	Explain how quantitative variables were handled in the analyses. If applicable, describe which groupings were chosen and why	4
Statistical methods	12	(*a*) Describe all statistical methods, including those used to control for confounding	4,5
		(*b*) Describe any methods used to examine subgroups and interactions	NA
		(*c*) Explain how missing data were addressed	5
		(*d*) If applicable, describe analytical methods taking account of sampling strategy	5
		(*e*) Describe any sensitivity analyses	NA
Results			
Participants	13*	(a) Report numbers of individuals at each stage of study—eg numbers potentially eligible, examined for eligibility, confirmed eligible, included in the study, completing follow-up, and analysed	5
		(b) Give reasons for non-participation at each stage	5
		(c) Consider use of a flow diagram	NA
Descriptive data	14*	(a) Give characteristics of study participants (eg demographic, clinical, social) and information on exposures and potential confounders	5,6
		(b) Indicate number of participants with missing data for each variable of interest	5,6
Outcome data	15*	Report numbers of outcome events or summary measures	6
Main results	16	(*a*) Give unadjusted estimates and, if applicable, confounder-adjusted estimates and their precision (eg, 95% confidence interval). Make clear which confounders were adjusted for and why they were included	6

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		(*b*) Report category boundaries when continuous variables were categorized	NA
		(*c*) If relevant, consider translating estimates of relative risk into absolute risk for a meaningful time period	NA
Other analyses	17	Report other analyses done—eg analyses of subgroups and interactions, and sensitivity analyses	NA
Discussion			
Key results	18	Summarise key results with reference to study objectives	6
Limitations	19	Discuss limitations of the study, taking into account sources of potential bias or imprecision. Discuss both direction and magnitude of any potential bias	7
Interpretation	20	Give a cautious overall interpretation of results considering objectives, limitations, multiplicity of analyses, results from similar studies, and other relevant evidence	7,8
Generalisability	21	Discuss the generalisability (external validity) of the study results	8
Other information			
Funding	22	Give the source of funding and the role of the funders for the present study and, if applicable, for the original study on which the present article is based	1

*Give information separately for exposed and unexposed groups.

Note: An Explanation and Elaboration article discusses each checklist item and gives methodological background and published examples of transparent reporting. The STROBE checklist is best used in conjunction with this article (freely available on the Web sites of PLoS Medicine at http://www.plosmedicine.org/, Annals of Internal Medicine at http://www.annals.org/, and Epidemiology at http://www.epidem.com/). Information on the STROBE Initiative is available at www.strobe-statement.org.

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