13-35       AT         14-36       TO         46-68       CT	TGGATGAAAAATATGTAAACAG GGATGAAAAATATGTAAACAGC LTTCTGAAAAAATGCAATTCAAGA	GUUUACAUAUUUUUCAUCCAU UGUUUACAUAUUUUUCAUCCA UUGAAUUGCAUUUUUCAGAAG		passenger min. number of mismatches against off-targets, guide 6.9 16.3 14.7 7.4 13.8 12.2 20.4 -3.3	passenger 2 3 2	number of off-target hits, 0(+) 2 3 2	1(+) 1 0 1 0 1 0 1 0	2(+) 3(+) 4 0 4	0(-) 27 0 13 0 14 0 23 0	1(-) 2(-) 0 0 0 0	3(-) target po 2 10 0 26 1 17 3 31
50-72       TG         51-73       GA         65-87       AA         79-101       AA         106-128       GA         107-129       AC	GAAAAATGCAATTCAAGAAATC  AAAAATGCAATTCAAGAAATCC  AGAAATCCAGCGTAAGAATAAC  AGAATAACAGTGGTCTTAGTTT  AGCTCTATAGAAATGCATATAC  GCTCTATAGAAATGCATATACA	UUUCUUGAAUUGCAUUUUUCA AUUUCUUGAAUUGCAUUUUUC  UAUUCUUACGCUGGAUUUCUU ACUAAGACCACUGUUAUUCUU AUAUGCAUUUCUAUAGAGCUC UAUAUGCAUUUCUAUAGAGCU	AAAAAUGCAAUUCAAGAAAUC R 2 AAAAUGCAAUUCAAGAAAUCC R 1  GAAAUCCAGCGUAAGAAUAAC URA GAAUAACAGUGGUCUUAGUUU URA 1	20.4     14       12.2     20       6.9     20.1       18.9     6.9       21.1     13       21.1     13       8.2     8.4	3 2 3 3 3 3	2 3 3 3 2 3	1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0	0 2 0 0 0 0	25 0 48 0 1 0 10 0 8 0 11 0 6 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 17 0 11 0 4 0 5 0 10 2 7 0 10
120-142 123-145 126-148 164-186 165-187 168-190	GCATATACAATGGTTTTGCATA  TATACAATGGTTTTGCATAAAC  ACAATGGTTTTGCATAAACATG  TGGACTAAGAGAAGTTGTTACT  GGACTAAGAGAAGTTGTTACTG  CTAAGAGAAGTTGTTACTGAAC	UGCAAAACCAUUGUAUAUGCA UUAUGCAAAACCAUUGUAUAU UGUUUAUGCAAAACCAUUGUA UAACAACUUCUCUUAGUCCAG GUAACAACUUCUCUUAGUCCA UCAGUAACAACUUCUCUUAGU	CAUAUACAAUGGUUUUGCAUA AUACAAUGGUUUUGCAUAAAC R CAAUGGUUUUGCAUAAACAUG UR GGACUAAGAGAAGUUGUUACU URA 1 GACUAAGAGAAGUUGUUACUG A 1 UAAGAGAAGUUGUUACUGAAC R	21.1     8.2       21.1     13.5       6.9     18.8       17.8     18.9       14.7     18.9       19     19.1	3 3 2 2 2 3 3	2 3 3 3 3	1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0	0 0 1 1 0 0	3 0 8 0 8 0 13 0 8 0 7 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 7 0 6 0 10 0 3 0 2 0 6
208-230 CC 212-234 AA 215-237 AT 216-238 TC 218-240 TA 219-241 AC	CCAAAGATGTACTAAATTCATT  AGATGTACTAAATTCATTGAAT  TGTACTAAATTCATTGAATAAC  GTACTAAATTCATTGAATAACA  ACTAAATTCATTGAATAACAC  CTAAATTCATTGAATAACAAC  L	UGAAUUUAGUACAUCUUUGGG UCAAUGAAUUUAGUACAUCUU UAUUCAAUGAAUUUAGUACAU UUAUUCAAUGAAUUUAGUACA UGUUAUUCAAUGAAUUUAGUA UUGUUAUUCAAUGAAUUUAGU	UACUAAAUUCAUUGAAUAACA R CUAAAUUCAUUGAAUAACAAC UR UAAAUUCAUUGAAUAACAACU R	-8 20.5 2.1 12 13.8 19 7.2 6.6 8.9 4.6 10 2.1 6.9 7.4	3 2 3 3 3 3 3	2 2 3 3 3 2 2	1 0 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1	2 0 0 0 0	6 0 5 0 6 0 1 0 9 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 12 1 8 0 7 0 7 0 4 2 7 1 11
229-251 230-252 232-254 235-257 238-260  TT  AA	TGAATAACAACTTTCTTCAAAC GAATAACAACTTTCTTCAAACA LATAACAACTTTCTTCAAACACT ACAACTTTCTTCAAACACT ACATTTCTTCAAACACTAAA ACTTTCTTCAAACACTAAA	UUGAAGAAAGUUGUUAUUCAA UUUGAAGAAAGUUGUUAUUCA UGUUUGAAGAAAGUUGUUAUU UAGUGUUUGAAGAAAGUUGUU AUUUAGUGUUUGAAGAAAGUU	GAAUAACAACUUUCUUCAAAC URA 2	13.3       7.2         20.4       6.9         20.4       6.9         14.9       17.8         17.8       13.3         11.8       14.8         19       8.7	3 2 2 3 2 3 3 3 3 3 4 5 6 6 7 6 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	2 2 3 3 2 2 2 3	1       0         1       0         1       0         1       0         1       0         1       0         1       0         1       0         0       0	0 1 1 0 1 0 0	8 0 16 0 11 0 14 0 11 0 22 0 7 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2 12 1 26 0 11 0 16 1 19 2 22 0 1
297-319 300-322 AC 310-332 AT 323-345 GT 324-346 TA 332-354	AGAGACATACTAATGTATATGG GACATACTAATGTATATGGACC TGTATATGGACCGTGTATATGT TGTATATGTACAACAGAATAAT GTATATGTACAACAGAATAATG ACAACAGAATAATGTACAACAGAATAATG	AUAUACAUUAGUAUGUCUCUA UCCAUAUACAUUAGUAUGUCU AUAUACACGGUCCAUAUACAU UAUUCUGUUGUACAUAUACAC UUAUUCUGUUGUACAUAUACA UUUCUACAUUAUUCUGUUGUA	GAGACAUACUAAUGUAUAUGG  ACAUACUAAUGUAUAUGGACC  R  GUAUAUGGACCGUGUAUAUGU  URA  1  GUAUAUGUACAACAGAAUAAU  URA  1  UAUAUGUACAACAGAAUAAUG  R	8.2 20.3 14 13.1 15.8 14 19.2 8.2 13.4 8.2 20.3 19.2 14.6 19.2	3 3 2 2 2 3	3 2 3 3 2 3	1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0	0 0 0 2 2 2 0 1	4 0 3 0 7 0 5 0 3 0 20 0		0 4 1 2 0 3 0 16 1 13 0 10
334-356 CA 336-358 AC 344-366 AT 345-367 TC 355-377 GT 356-378 TC	AACAGAATAATGTAGAAAATGT CAGAATAATGTAGAAAATGTCT ATGTAGAAAATGTCTACAATTTG GTAGAAAATGTCTACAATTTGG ATCTACAATTTGGGATTAATAAT CTACAATTTGGGATTAATAATT L	AUUUUCUACAUUAUUCUGUUG ACAUUUUCUACAUUAUUCUGU AAUUGUAGACAUUUUCUACAU AAAUUGUAGACAUUUUCUACA UAUUAAUCCCAAAUUGUAGAC UUAUUAAUCCCAAAUUGUAGA	ACAGAAUAAUGUAGAAAAUGU RA AGAAUAAUGUAGAAAAUGUCU R GUAGAAAAUGUCUACAAUUUG UA 1 UAGAAAAUGUCUACAAUUUGG R CUACAAUUUGGGAUUAAUAAU URA UACAAUUUGGGAUUAAUAAUU R	14.6     19.2       7.1     13.4       7.4     1.8       11.6     7.1       6.9     5.3       1.8     6.9       -8     5.3	2 2 2 3 3 3	2 3 2 2 2 3 2	1 0 1 0 1 0 1 0 1 0 1 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 0 1 0	1 1 0 0 0	25 C 37 0 28 0 11 0 1 0 11 0 7 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 8 2 9 0 15 1 23 1 13 0 9 1 11
358-380 364-386 376-388 376-398 403-425 376-398 403-425	ACAATTTGGGATTAATAATTTT TGGGATTAATAATTTTTCGAGA GGATTAATAATTTTTCGAGATC TTTTTCGAGATCAAGTTGTACG GGTGTATTAGGGATCATCTTCG	AAUUAUUAAUCCCAAAUUGUA UCGAAAAAUUAUUAAUCCCAA UCUCGAAAAAUUAUUAAUCCC UACAACUUGAUCUCGAAAAAU AAGAUGAUCCCUAAUACACCC	ACAAUUUGGGAUUAAUAAUUUU  CAAUUUGGGAUUAAUAAUUUU  URA  GGGAUUAAUAAUUUUUCGAGA  GAUUAAUAAUUUUUCGAGAUC  UUA  UUUUCGAGAUCAAGUUGUACG  GUGUAUUAGGGAUCAUCUUCG  UA  2  UCAUCUUCGGCAAACUUUAUU  R	-7.5 4.2 -8 11.3 7.7 15.5 21 -8 17.8 21 20.4 8.5 3.2 20.4	2 3 3 4 2 3 3	3 2 3 3 2 2 2 3	1     0       1     0       1     0       1     0       1     0       1     0       1     0       1     0	3 0 0 0 1 0	7 0 8 0 6 0 0 0 7 0 2 0 4 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 9 1 9 0 3 0 5 1 4 1 6 0 13
425-447GG426-448GG490-512AG502-524CA534-556AT	GCAAACTTTATTGGATATGATT  CAAACTTTATTGGATATGATTG  AGAAATGCTTGCCAGATGTTAAT  AGATGTTAATGATTTTAGGTCT  TCAGTCTATGAGGAAGATTTTG	UCAUAUCCAAUAAAGUUUGCC AUCAUAUCCAAUAAAGUUUGC UAACAUCUGGCAAGCAUUUCU ACCUAAAAUCAUUAACAUCUG AAAUCUUCCUCAUAGACUGAU	CAAACUUUAUUGGAUAUGAUU UR 2 AAACUUUAUUGGAUAUGAUUG R 1 AAAUGCUUGCCAGAUGUUAAU R 1 GAUGUUAAUGAUUUUAGGUCU U	4.9     21       21.2     3.2       17.4     4.9       19.2     18.5       11     6.9       14.8     18.9       5.3     20.3	3 2 2 3 3	3 3 2 3 3 3	1     0       1     0       1     0       1     0       1     0       1     0       1     0       1     0	0 0 1 4 0 0	2 0 4 0 3 0 17 0 10 0 8 0	0 0 0 0 0 0 0 0 0 0 0 0	0 4 0 8 0 10 1 6 0 2 0 14 1 14
548-570       AA         570-592       GO         592-614       CA         617-639       CA         618-640       AO         627-649       TO	AGATTTTGAGGCTCCTTTTTTG  GAAATGTCTGCAGAATTTTTC  AGATGGAAAGCCAGAAATTTTT  AGAAAACAGTGCTTCAGTATAT  GAAAACAGTGCTTCAGTATATA  GCTTCAGTATATAAAGAAAG	AAAAAGGAGCCUCAAAAUCUU AAAAAUUCUGCAGACAUUUCC AAAUUUCUGGCUUUCCAUCUG AUACUGAAGCACUGUUUUCUG UAUACUGAAGCACUGUUUUCU UUCUUUAUAUAUAUACUGAAGCA	GAUUUUGAGGCUCCUUUUUUG URA 1 AAAUGUCUGCAGAAUUUUUUC R GAUGGAAAGCCAGAAAUUUUU UA GAAAACAGUGCUUCAGUAUAU URA 2	18.7       7.4         0.4       19.2         5.3       20.1         20.3       10.3         20.3       17.8         6.9       20.3         7.1       20.3	3 2 2 2 2 2 3	2 2 3 3 3 2	1       0         1       0         1       0         1       0         1       0         1       0         1       0         1       0	0 4 2 5 2 0	19 0 28 0 27 0 11 0 14 0 8 0		1 21 5 23 0 9 0 5 0 9 2 13
630-652 644-666 646-668 655-677 657-679 754-776	TCAGTATATATAAAGAAAGTAG GAAAGTAGAAGCTAGGATTAAT LAAGTAGAAGCTAGGATTAATGA CTAGGATTAATGAGGAAATAGA LAGGATTAATGAGGAAATAGAGC ACATGAAGACTATTGTAGAAAT L	ACUUUCUUUAUAUAUACUGAA UAAUCCUAGCUUCUACUUUU AUUAAUCCUAGCUUCUACUUU UAUUUCCUCAUUAAUCCUAGC UCUAUUUCCUCAUUAAUCCUA UUCUACAAUAGUCUUCAUGUG	CAGUAUAUAAAGAAAGUAG UA  AAAGUAGAAGCUAGGAUUAAU R 1 AGUAGAAGCUAGGAUUAAUGA A 1 UAGGAUUAAUGAGGAAAUAGA R 1 GGAUUAAUGAGGAAAUAGAC URA CAUGAAGACUAUUGUAGAAAU URA 1	10.3 6.1 19.9 18.9 15.5 18.9 18.7 19.9 6.9 1.8 20.3 20.4	2 3 3 3 2 3 2	3 3 3 3 3 3	1 0 1 0 1 0 1 0 1 0 1 0 0 1 0 0	0 0 0 0 1	12 0 6 0 10 0 5 0 12 0 14 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 18 0 1 0 1 0 1 0 5 0 7 0 7
760-782 762-784 777-799 G0 778-800 789-811 AA	AGACTATTGTAGAAATGGAAAA L ACTATTGTAGAAATGGAAAATT L GAAAATTCTGGGCTAGTACATA L AAAATTCTGGGCTAGTACATAT A CTAGTACATATGCTGAAAAAATG L	UUCCAUUUCUACAAUAGUCUU UUUUCCAUUUCUACAAUAGUC UGUACUAGCCCAGAAUUUUCC AUGUACUAGCCCAGAAUUUUC UUUUUCAGCAUAUGUACUAGC	GACUAUUGUAGAAAUGGAAAA UA 2 CUAUUGUAGAAAUGGAAAAUU URA 2 AAAAUUCUGGGCUAGUACAUA R 1	20.1       14.5         20.1       11.6         20.1       8.5         18.8       5.3         20.2       12         12.2       19         7.7       15.8	3 3 3 2 2 2 3	2 2 2 3 3 2 3	1       0         1       0         1       0         1       0         1       0         1       0         1       0         1       0	0 0 0 0 1 1	10 0 11 0 8 0 4 0 4 0 3 0 7 0		1 8 12 12 1 9 0 3 0 1 1 1 4 0 8
830-852 835-857 868-890 870-892 872-894	TTGTATGTACAAATTATTTAGT TGTACAAATTATTTAGTCGTGT AGAAGACAATGTGTGAATGTAT AAGACAATGTGTGAATGTATGA GACAATGTGTGAATGTATGA	UAAAUAAUUUGUACAUACAAG ACGACUAAAUAAUUUGUACAU ACAUUCACACAUUGUCUUCAA AUACAUUCACACAUUGUCUUC UCAUACAUUCACACAUUGUCU	GUACAAAUUAUUUAGUCGUGU U 2	-1.4 11.6 10.3 15.8 20.9 6.9 20.5 19.2 16.1 20.5 13.3 18.1 17.7 20.5	2 3 3 2 2 2 3	3 3 2 3 3 3	1     0       1     0       1     0       1     0       1     0       1     0       1     0       1     0	1 0 0 2 1 0	9 0 20 0 5 0 13 0 11 0 7 0	0 0 0 0 0 0 0 0 0 0 0 0	0 2 0 5 0 4 2 13 0 10 0 6 1 5
881-903 884-906 910-932 1004-1026 1005-1027 1006-1028	TGAATGTATGAGTTCTTATTTG  ATGTATGAGTTCTTATTTGAGG  LAAGGAAAAGCCCTTGTTTCTGA  CCTTCAAGAATCCTTCAATAAT  CTTCAAGAATCCTTCAATAATG  ITCAAGAATCCTTCAATAATG  A	AAUAAGAACUCAUACAUUCAC UCAAAUAAGAACUCAUACAUU AGAAACAAGGGCUUUUCCUUG UAUUGAAGGAUUCUUGAAGGA UUAUUGAAGGAUUCUUGAAGG	GAAUGUAUGAGUUCUUAUUUG UGAGAAAAGCCCUUGUUUCUGA AGGAAAAGCCCUUCAAUAAU UUCAAGAAUCCUUCAAUAAUG UCAAGAAUCCUUCAAUAAUGA R	6.9 6.7 -1.4 20.3 14.9 18.7 12 20.4 8.9 20.4 8.9 12	2 3 2 3 3	3 2 2 2 3 2	1       0         1       0         1       0         1       0         1       0         1       0         1       0	2 0 2 0 0 0	9 0 9 0 34 0 8 0 10 0 20 0		0 9 1 7 2 31 2 12 0 12 2 8
1033-1055       CT         1044-1066       GA         1054-1076       GA         1055-1077       GA         1056-1078       GA         1091-1113       CT	TCTTTAAACAGACTATTGCTGG  ACTATTGCTGGGGACTTTGAGT  GGGACTTTGAGTATTTCTTAAA  GGACTTTGAGTATTTCTTAAAC  GACTTTGAGTATTTCTTAAACC  TCCTGAATACCTCTCATTATTT  ACTATTACAGAACC  ACTATTACAGAACCACAGAACCACACACACACACACACAC	AGCAAUAGUCUGUUUAAAGAG UCAAAGUCCCCAGCAAUAGUC UAAGAAAUACUCAAAGUCCCC UUAAGAAAUACUCAAAGUCCC UUUAAGAAAUACUCAAAGUCCC AUAAUGAGAGAGUAUUCAGGAG		11.7 16.1 19.7 0 19.2 19.7 5.3 19.2 7.1 19.2 7.1 16.6 13.4 13.4	3 2 3 3 3 3	3 3 3 2 2 2	1 0 1 0 1 0 1 0 1 0 1 0 1 0 0	0 1 0 0 0 0	7 0 10 0 15 0 10 0 13 0 5 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 6 0 9 0 23 1 30 1 14 0 10
1094-1116 CT 1104-1126 CT 1134-1156 GG 1160-1182 AA 1161-1183 AG 1189-1211 GT	TGAATACCTCTCATTATTTATT  TCATTATTTATTGATGATAAGC  GGAGTCAAAGGGCTAACAGAAC  AGTAGAAACGATATTGGATAAG  GTAGAAACGATATTGGATAAGG  TCCTTTTTAGGTTTATGCAAGA	UAAAUAAUGAGAGGUAUUCAG  UUAUCAUCAAUAAAUAAUGAG  UCUGUUAGCCCUUUGACUCCC  UAUCCAAUAUCGUUUCUACUU  UUAUCCAAUAUCGUUUCUACU  UUGCAUAAAACCUAAAAAGGAC	GAAUACCUCUCAUUAUUUAUU URA -1 CAUUAUUUAUUGAUGAUAAGC URA 1 GAGUCAAAGGGCUAACAGAAC UA 1 GUAGAAACGAUAUUGGAUAAG UA 2 UAGAAACGAUAUUGGAUAAGG R 2 CCUUUUUAGGUUUAUGCAAGA UA 2	8.7       16.1         10.3       18.5         17.4       -10.3         16.4       19.2         20.1       14.6         21.2       19.7         21.1       -3.8         12.2       18.6	2 3 3 3 3	2 3 2 3 2 3	1 0 1 0 0 0 1 0 1 0 1 0 1 1 0 1 1	1 0 0 0 0	4 0 9 0 6 0 4 0 4 0 8 0		1 5 0 12 1 11 0 4 1 3 0 5
1194-1216       TT         1197-1219       TA         1198-1220       AC         1204-1226       AT         1207-1229       CA         1217-1239       AT         1218-1240       TC	TTTAGGTTTATGCAAGAAAAAG  AGGTTTATGCAAGAAAAAGATG  GGTTTATGCAAGAAAAAGATGT  TGCAAGAAAAAGATGTATTTGA  AAGAAAAAGATGTATTTGAACG  TGTATTTGAACGTTACTATAAA  GTATTTGAACGTTACTATAAAC	UUUUCUUGCAUAAACCUAAAA UCUUUUUCUUGCAUAAACCUA AUCUUUUUCUUGCAUAAACCU AAAUACAUCUUUUUCUUGCAU UUCAAAUACAUCUUUUUCUUG UAUAGUAACGUUCAAAUACAU	UUAGGUUUAUGCAAGAAAAG R 1 GGUUUAUGCAAGAAAAAGAUG UA GUUUAUGCAAGAAAAAGAUGU U GCAAGAAAAAGAUGUAUUUGA URA AGAAAAAGAUGUAUUUGAACG R GUAUUUGAACGUUACUAUAAA URA UAUUUGAACGUUACUAUAAAC R	12.2       18.6         5.5       6.9         5.5       15.3         6.7       12.2         8.9       5.5         6.3       8.9         7.9       7.4	2 2 2 2 3 3	2 3 2 3 3	1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0	0 1 1 4 3 0	14 0 20 0 24 0 22 0 63 0 7 0 8 0	0 0 0 0 0 0 0 0	1 6 1 7 0 12 1 18 0 17 0 3 0 4
1219-1241       GT         1225-1247       GA         1227-1249       AC         1237-1259       AA         1259-1281       TC         1287-1309       CT	TATTTGAACGTTACTATAAACA  AACGTTACTATAAACAACATCT  CGTTACTATAAACAACATCTGG  AACAACATCTGGCAAGAAGACT  GCTCACAAATAAAAGTGTTTCT  TCTGAAAAAAAATATGATTTCTA	UUUAUAGUAACGUUCAAAUAC AUGUUGUUUAUAGUAACGUUC AGAUGUUGUUUAUAGUAACGU UCUUCUUGCCAGAUGUUGUUU AAACACUUUUAUUUGUGAGCA GAAAUCAUAUUUUUUUCAGAG	AUUUGAACGUUACUAUAAACA R ACGUUACUAUAAACAACAUCU A 1 GUUACUAUAAACAACAUCUGG U 2 ACAACAUCUGGCAAGAAGACU R 1 CUCACAAAUAAAAGUGUUUCU UA 1 CUGAAAAAAAAUAUGAUUUCUA A	7.9       7.4         6.3       14.9         19.3       19.6         20.5       6.3         16.6       20.5         17.8       20.5         7.2       7.7         14.8       -11.3	3 3 3 2 3 2	3 2 3 2 2 2	1 0 1 0 1 0 1 0 1 0 1 0	0 0 0 2 0 5	12 0 5 0 1 0 26 0 15 0 15 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 3 5 5 1 6 0 9 2 17 1 24 2
1290-1312       TO         1291-1313       GA         1295-1317       AA         1296-1318       AA         1300-1322       AT         1352-1374       AA	GAAAAAAATATGATTTCTAAAT  AAAAAAATATGATTTCTAAATT  AAATATGATTTCTAAATTAAAG  AATATGATTTCTAAATTAAAGA  TGATTTCTAAATTAAAGA  AGGAATGTTTAGGGATATGAGC	UUAGAAAUCAUAUUUUUUUCA UUUAGAAAUCAUAUUUUUUC UUAAUUUAGAAAUCAUAUUUU UUUAAUUUAGAAAUCAUAUUU AGUCUUUAAUUUAGAAAUCAU UCAUAUCCCUAAACAUUCCUU	AAAAAAUAUGAUUUCUAAAUU R AAAAAAUAUGAUUUCUAAAUU R AAUAUGAUUUCUAAAUUAAAG R AUAUGAUUUCUAAAUUAAAGA R GAUUUCUAAAUUAAAGACUGA U 1 GGAAUGUUUAGGGAUAUGAGC URA 2	6.9       -12         7.1       -9.7         -7.5       8.5         -9.7       8.7         14.6       6.9         21.2       14.8	2 2 2 2 3	2 2 3 2 3	1 0 1 0 1 0 1 0 1 0 1 0	0 1 1 4 1 0	24 0 48 0 20 0 18 0 14 0	0 0 0 0 0 0 0 0 0 0	4 39 1 33 0 17 1 10 0 16
1364-1386       GG         1521-1543       TC         1526-1548       GG         1540-1562       AT         1611-1633       AC         1612-1634       GG	GGATATGAGCATCTCAAACACA  CCAAGACATGCTTTTGAGATAT  ACATGCTTTTGAGATATTTAGA  TATTTAGACGGTTCTATTTAGC  GATCTCAATGCCACCTTTTATG  ATCTCAATGCCACCTTTTATG	UGUUUGAGAUGCUCAUAUCCC AUCUCAAAAGCAUGUCUUGGA UAAAUAUCUCAAAAGCAUGUC UAAAUAGAACCGUCUAAAUAU UAAAAGGUGGCAUUGAGAUCU AUAAAAGGUGGCAUUGAGAUC	GAUAUGAGCAUCUCAAACACA UR 1 CAAGACAUGCUUUUGAGAUAU U 2 CAUGCUUUUGAGAUAUUUAGA URA AUUUAGACGGUUCUAUUUAGC R AUCUCAAUGCCACCUUUUAUG RA 1 UCUCAAUGCCACCUUUUAUG R	20.4       21.2         19.2       13.3         20.4       19.2         1.8       18.5         6.9       14.6         17.3       20.4         11       18.1	3 2 3 3 2 3	3 3 2 3 2 2	1 0 1 0 1 0 1 0 1 0 1 0	0 0 1 0 0 1 0	11 0 7 0 5 0 14 0 6 0 13 0 9 0		1 4 0 7 0 8 2 6 0 1 3 11 1 14
1624-1646       AC         1626-1648       CT         1678-1700       GC         1679-1701       CA         1681-1703       CA         1735-1757       AT	CCTTTTATGGTCCAGTTAAAAA L TTTTATGGTCCAGTTAAAAAGG L CACAAGTAACTGGTTCTAATAC A CAAGTAACTGGTTCTAATACA AAGTAACTGGTTCTAATACACG TGACCATATTAATGCTTTTTAA	UUUAACUGGACCAUAAAAGGU UUUUUAACUGGACCAUAAAAG AUUAGAACCAGUUACUUGUGC UAUUAGAACCAGUUACUUGUG UGUAUUAGAACCAGUUACUUG AAAAAGCAUUAAUAUGGUCAU	CUUUUAUGGUCCAGUUAAAAA URA 1 UUUAUGGUCCAGUUAAAAAGG R ACAAGUAACUGGUUCUAAUAC R 1 CAAGUAACUGGUUCUAAUACA URA AGUAACUGGUUCUAAUACA R 1 GACCAUAUUAAUGCUUUUUAA UA 1	11.8 -1.4 0 20 14.6 11.8 6.9 12.9 6.3 19 18.6 20 12.3 12.6	3 3 3 3 2 2	2 3 3 3 3 3	1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0	0 0 0 0 0 4 3	6 0 16 0 6 0 7 0 4 0 10 0		1 13 0 8 0 4 0 4 0 5 0 9 0 6
1737-1759       G/A         1738-1760       AC         1739-1761       CC         1740-1762       CA         1741-1763       AT         1742-1764       TA	ACCATATTAATGCTTTTTAATA  CCATATTAATGCTTTTTAATAA  CATATTAATGCTTTTTAATAAT  ATATTAATGCTTTTTAATAATA  CATATTAATGCTTTTTAATAATA  CATTAATGCTTTTTAATAATA  CATTAATGCTTTTTAATAATAG  ATTAATGCTTTTTAATAATAGA	UUAAAAAGCAUUAAUAUGGUC AUUAAAAAGCAUUAAUAUGGU UAUUAAAAAGCAUUAAUAUGG UUAUUAAAAAGCAUUAAUAUG AUUAUUAAAAAGCAUUAAUAU UAUUAUUAAAAAGCAUUAAUAU	CCAUAUUAAUGCUUUUUAAUAA URA	12.3	2 3 3 2 2 2 3 3	3 3 2 2 2 2 3	1 0 1 0 1 0 1 0 1 0 1 0 1 0	2 0 0 2 2 2 0	14 0 8 0 5 0 11 0 19 0 16 0		0 8 0 16 0 18 1 12 1 15 1 5
1752-1774       TT         1761-1783       TA         1768-1790       AA         1771-1793       TA         1773-1795       CA         1795-1817       GA	TTTAATAATAGAGAGAAATACA  AGAGAGAAATACACATTTGAGG  AATACACATTTGAGGAAATTCA  ACACATTTGAGGAAATTCAACA  ACATTTGAGGAAATTCAACA  ACATTTGAGGAAATTCAACAG  AGACTGATATCCCTGAAAGAGA	UAUUUCUCUCUAUUAUUAAAA UCAAAUGUGUAUUUCUCUCUA AAUUUCCUCAAAUGUGUAUUU UUGAAUUUCCUCAAAUGUGUA UGUUGAAUUUCCUCAAAUGUG UCUUUCAGGGAUAUCAGUCUC	GAGAGAAAUACACAUUUGAGG UA 1 AUACACAUUUGAGGAAAUUCA R 1 CACAUUUGAGGAAAUUCAACA UA CAUUUGAGGAAAUUCAACAAG U 1 GACUGAUAUCCCUGAAAGAGA URA 1	14.8     -8       12.1     19.1       18.7     20.4       7.4     12.1       14.8     12       16.6     20.3	2 2 3 2 3	3 3 3 3 3	1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0	0 1 2 0 3 0	3 0 14 0 18 0 13 0 21 0 20 0	0 0 0 0 0 0 0 0 0 0 0 0	0 9 0 9 0 14 0 12 0 14 0 11
1797-1819       G/A         1807-1829       CC         1896-1918       G/A         1897-1919       AT         1906-1928       G/A         1908-1930       CC         1909-1931       CA	ACTGATATCCCTGAAAGAGAAC  CTGAAAGAGAACTTGTTAGAGC  ATAGAAAGTGGCCACATATTTA  TAGAAAGTGGCCACATATTTAC  GCCACATATTTACAGTTAATGA  CACATATTTACAGTTAATGATC  ACATATTTACAGTTAATGATC	UCUCUUUCAGGGAUAUCAGUC UCUAACAAGUUCUCUUUCAGG AAUAUGUGGCCACUUUCUAUC AAAUAUGUGGCCACUUUCUAU AUUAACUGUAAAUAUGUGGCC UCAUUAACUGUAAAUAUGUGG AUCAUUAACUGUAAAUAUGUGG	CUGAUAUCCCUGAAAGAGAAC UA 1 UGAAAGAGAACUUGUUAGAGC R 1 UAGAAAGUGGCCACAUAUUUA R 1 AGAAAGUGGCCACAUAUUUAC R CCACAUAUUUACAGUUAAUGA URA 1 ACAUAUUUACAGUUAAUGAUC R CAUAUUUACAGUUAAUGAUCA U	19.1     17.4       11.8     19.1       13.3     17.7       6.7     19.2       11.8     13.3       6.9     -1.8       8.9     -8	2 2 2 2 3 3 3	2 2 3 2 3 3	1 0 1 0 1 0 1 0 1 0 1 0	2 3 1 1 0 0 0	7 0 14 0 4 0 6 0 7 0 7 0 6 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 10 1 16 1 16 0 9 1 12 0 16 0 10
1916-1938 1919-1941 1974-1996 2020-2042 2031-2053 2032-2054  TT  TT  TT  AG  AG  AG  AG  AG  AG  AG	TACAGTTAATGATCAATTCACA  AGTTAATGATCAATTCACATCC  AGCCAAACAAGGTGAATCTGACC  AAGTAGATGATGACAGAAAACA  GACAGAAAACACGAGATAGAAG  ACAGAAAAACACGAGATAGAAGC  L	UGAAUUGAUCAUUAACUGUAA AUGUGAAUUGAUCAUUAACUG UCAGAUUCACCUUGUUUGGCU UUUUCUGUCAUCAUCUACUUU UCUAUCUCGUGUUUUCUGUCA UUCUAUCUCGUGUUUUCUGUC	ACAGUUAAUGAUCAAUUCACA R GUUAAUGAUCAAUUCACAUCC U CCAAACAAGGUGAAUCUGACC URA AGUAGAUGAUGACAGAAAACA RA ACAGAAAACACGAGAUAGAAG R 2	8.9     -8       16.3     11.8       20.5     8.9       20.4     12.2       19.2     20.3       20.2     12.2       20.2     13.3       19.5     16	3 2 2 2 2 2 2	2 3 2 2 2 2 3 3	1 0 1 0 1 0 1 0 1 0 1 0 1 0	0 1 1 1 2 5	7 0 5 0 9 0 29 0 16 0 30 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 3 0 3 2 7 2 18 4 13 0 16 0 F
2054-2076 2055-2077 2082-2104 2167-2189 2169-2191 2178-2200 CT  CT  AC  AC  AC  AC  AC  AC  AC  AC	TGCTATAGTGCGGATAATGAAG GCTATAGTGCGGATAATGAAGT LAGAAGATGCAGCACAATGTTT AACGTATTGAAGGACTTATTGA CGTATTGAAGGACTTATTGAGA LGGACTTATTGAGAGACAGAGAATATT L	UCAUUAUCCGCACUAUAGCAG UUCAUUAUCCGCACUAUAGCA ACAUUGUGCUGCAUCUUCUUC AAUAAGUCCUUCAAUACGUUU UCAAUAAGUCCUUCAAUACGU UAUUCUCUCUCAAUAAGUCCU	GCUAUAGUGCGGAUAAUGAAG  CUAUAGUGCGGAUAAUGAAGU  UR  AGAAGAUGCAGCACAAUGUUU  R  ACGUAUUGAAGGACUUAUUGA  A  GUAUUGAAGGACUUAUUGAGA  UR  1  ACGUAUUGAAGGACUUAUUGA  GACUUAUUGAGAGAAUAUU  UA	19.5     16       8.7     11.2       8.7     13.1       18.1     20.4       14.5     13.7       3.5     8.9       19.1     4.6       6.6     8.9	3 3 2 3 3 3	4 3 3 4 3 2	1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 1 0 1 1 0 1 1 0 1 1 1 0 1	2 0 0 2 0 0 0	30 0 4 0 8 0 30 0 4 0 7 0 10 0	0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
2180-2202       GA         2181-2203       AC         2220-2242       TC         2221-2243       CC         2227-2249       GC         2229-2251       AT         2230-2252       TA	CTTATTGAGAGAGAATATTTGG  CGCAAAGTATACACATACGTAG  GCAAAGTATACACATACGTAGC  TATACACATACGTAGCATAAAAA  TACACATACGTAGCATAAAATG  ACACATACGTAGCATAAAATGC	AAAUAUUCUCUCUCAAUAAGU ACGUAUGUGUAUACUUUGCGA UACGUAUGUGUAUACUUUGCG UUAUGCUACGUAUGUGUAUAC UUUUAUGCUACGUAUGUGUAU AUUUUAUGCUACGUAUGUGUAU	CACAUACGUAGCAUAAAAUGC UA -	6.6       8.9         1.8       13.4         21       11.8         21       4.6         20.9       20.4         15.3       20.4         -1.4       21         18.1       15.3	3 3 2 3 3 3	2 3 3 2 2 2	1 0 1 0 1 0 1 0 1 0 0 0	3 0 0 1 0 0 0	10 0 15 0 3 0 3 0 2 0 1 0 5 0	0 0 0 0 0 0 0 0 0 0 0 0 0	2 11 1 5 0 2 0 4 1 3 1 9 1 6
2239-2261       GT         2240-2262       TA         2241-2263       AC         2243-2265       CA         2244-2266       AT         2250-2272       TC	TAGCATAAAATGCATTCAGAAA  AGCATAAAATGCATTCAGAAAT  GCATAAAATGCATTCAGAAATT  ATAAAATGCATTCAGAAATTTG  TAAAATGCATTCAGAAATTTGA  GCATTCAGAAATTTGA  GCATTCAGAAATTTGA  L	UCUGAAUGCAUUUUAUGCUAC UUCUGAAUGCAUUUUAUGCUA UUUCUGAAUGCAUUUUAUGCU AAUUUCUGAAUGCAUUUUAUG AAAUUUCUGAAUGCAUUUUAU UAAAUCAAAUUUCUGAAUGCA	AGCAUAAAAUGCAUUCAGAAAU GCAUAAAAUGCAUUCAGAAAU UA CAUAAAAUGCAUUCAGAAAUU UA UAAAAUGCAUUCAGAAAUUUG R AAAAUGCAUUCAGAAAUUUGA R	18.1 15.3 20.4 -1.4 20.4 -10.3 12 14 5.3 20 7.4 20.4 1.8 20.4	3 3 3 2 2 2 2 2	2 2 2 3 3 3 2	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 2 1 5	2 0 9 0 13 0 30 0 31 0 13 0	0 0 0 0 0 0 0 0 0 0 0 0	1 13 2 16 3 12 0 16 0 16 0 11 0 21 1 28
2254-2276       TT         2298-2320       TG         2299-2321       GG         2305-2327       TT         2306-2328       TG         2308-2330       TT	TCAGAAATTTGATTTATTCTTG  GGGAAGTTCTTTTAAATCCTAC  GGAAGTTCTTTTAAATCCTACT  TCTTTTAAATCCTACTATTAAG  CTTTTAAATCCTACTATTAAGA  LTTTAAATCCTACTATTAAGA  LTTTAAATCCTACTATTAAGACG	AGAAUAAAUCAAAUUUCUGAA AGGAUUUAAAAGAACUUCCCA UAGGAUUUAAAAGAACUUCCC UAAUAGUAGGAUUUAAAAGAA UUAAUAGUAGGAUUUAAAAGA UCUUAAUAGUAGGAUUUAAAA	CAGAAAUUUGAUUUAUUCUUG  GGAAGUUCUUUUAAAUCCUAC  UR  CUUUUAAAUCCUACUAUUAAG  UUA  UUAAAUCCUACUAUUAAGA  R  UUAAAUCCUACUAUUAAGACG  R	1.8       20.4         2.1       5.3         15.5       21.5         18.7       17.7         6.3       -9.1         6.3       -9.7         -2.3       15.5         20.4       -9.7	3 2 3 3 3 3 3 2 1	2 2 2 2 3 3	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 1 0 0 0 0	14 0 10 0 9 0 6 0 6 0 6 0		2 31 2 8 2 17 2 17 0 9 0 4
2343-2365 2344-2366 TT 2490-2512 2492-2514 GG	TTAAATTGCAGTACATGTTATA  TAAATTGCAGTACATGTTATAG  CGCGTTTTGTTTT	UAACAUGUACUGCAAUUUAAC AUAACAUGUACUGCAAUUUAA AAUAUUGAAAACAAAAC	UAAAUUGCAGUACAUGUUAUA R 1 AAAUUGCAGUACAUGUUAUAG R 1	19.3 14 13.5 20	2	3	0 0	1	9 0	7 0	0 2 0 4
2501-2523 TT	TTCAATATTGTATGAAAACAGG	UUUUCAUACAAUAUUGAAAAC UGUUUUCAUACAAUAUUGAAA	GUUUUGUUUUCAAUAUUGUAU U UUUCAAUAUUGUAUGAAAACA R UCAAUAUUGUAUGAAAACAGG R 1	8.7     12.5       -1.8     5.6       8.9     8.9       14.9     -1.8       11.2     14.9	3 2 3	3 2 2 3 3	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 3	6 0 4 0 15 0 36 0 15 0	0 0 0 0 0 0 0	1 12 8 59 0 10 0 12
2501-2523       TT         2512-2534       TA         2526-2548       AA         2527-2549       AA         2529-2551       AA         2531-2553       AT         2542-2564       TT         2543-2565       TA	TTCAATATTGTATGAAAACAGG ATGAAAACAGGAAAAAAAAAA	UUUUCAUACAAUAUUGAAAAC UGUUUUCAUACAAUAUUGAAA AUUUUUUUUCCUGUUUUCAUA UCUAAAUUUGUUUUAUUUUU UUCUAAAUUUGUUUUAUUUU UUUUCUAAAUUUGUUUUAUUU UGUUUUCUAAAUUUGUUUUAU UUAAUGAGCUGUGUUUUCUAA	GUUUUGUUUCAAUAUUGUAU UUUCAAUAUUGUAUGAAAACA R UCAAUAUUGUAUGAAAACAGG R UGAAAACAGGAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	-1.8	3 2 3 2 2 2 2 2 3 3	3 2 2 3 3 2 2 2 2 2 2 2	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 3 0 24 >100 7 >100 7 5 0 0	6 0 4 0 15 0 36 0 15 0 0 0 74 0 58 0 31 0 10 0		1 12 8 59 0 10 0 12 15 >100 3 60 5 56 4 31 4 30 0 16 1 24
2501-2523       TT         2512-2534       TA         2526-2548       AA         2527-2549       AA         2531-2551       AA         2531-2553       AT         2542-2564       TT         2543-2565       TA         2554-2566       AC         2553-2575       AC         2554-2576       GC         2563-2585       AA         2602-2624       TT         2603-2625       TC         2634-2656       CT	TTCAATATTGTATGAAAACAGG  ATGAAAACAGGAAAAAAAAAA	UUUUCAUACAAUAUUGAAAAC UGUUUUCAUACAAUAUUGAAA AUUUUUUUUUCCUGUUUUCAUA UCUAAAUUUGUUUUAUUUUU UUUUCUAAAUUUGUUUUAUUUU UUUUCUAAAUUUGUUUUAUUU UUAAUGAGCUGUGUUUUCUAA UUUAAUGAGCUGUGUUUUCUA UUUUAAUGAGCUGUGUUUUCU ACAAUUUUAUUUAAUGAGCU AACAAUUUUAUUUAAUGAGC AUGAAAUCCAACAAUUUUAUU ACAGAAACACACUUACAGCAA UACACAAUGCGCAAAGUGUAG	GUUUUGUUUUCAAUAUUGUAU         U         -           UUUCAAUAUUGUAUGAAAACAG         R         1           UCAAUAUUGUAUGAAAACAGG         R         1           UGAAAACAGGAAAAAAAAAAAA         R         -1           AAAAUAAAACAAAUUUAGAAAA         R         -           AAAACAAAUUUAGAAAACA         R         -           AAAACAAAUUUAGAAAACACA         R         1           AAAACACAGCUCAUUAAAA         RA         1           GAAAACACAGCUCAUUAAAAU         URA         -           AAAACACAGCUCAUUAAAAU         URA         -           AAAACACAGCUCAUUAAAAUA         R         -           CUCAUUAAAAUAAAAUUGUUG         UA         -           UCAUUAAAAUAAAAUUGUUG         R         -           UAAAAUUGUUGGAUUUCAUUU         R         1           GCUGUAAGUGUGUUUCUGUAG         UA         1           CUGUAAGUGUGUUUCUGUAGU         URA         1           ACACUUUGCGCAUUGUGAAG         R         1	-1.8       5.6         8.9       8.9         14.9       -1.8         11.3       14.9         -4.3       -9.7         6.9       -9.7         7.1       7.2         13.3       5.6         13.4       14.9         8.9       13.3         -1.4       19.3         -3.3       8.9         5.3       -1.4         16.3       -3.3         19.2       16.4         19.2       19         19.3       16.7	3 2 2 2 2 2 2 2 2 2 2 2 2 2 3 3 3 3 3 3	3 2 2 3 3 2 2 2 2 2 2 3 2 2 3 2 2 3 3 3	0       0         0       0		6 0 4 0 15 0 36 0 15 0 0 0 74 0 58 0 31 0 10 0 24 0 12 0 21 0 31 0 11 0 8 0 8 0		1       12         8       59         0       10         0       12         15 >100       3         3       60         5       56         4       31         4       30         0       16         1       24         0       20         4       22         3       18         0       29         0       12         0       13         0       3
2501-2523       TT         2512-2534       TA         2526-2548       AA         2527-2549       AA         2529-2551       AA         2531-2553       AT         2542-2564       TT         2543-2565       TA         2544-2566       AC         2553-2575       AC         2554-2576       GC         2602-2624       TT         2603-2625       TC         2634-2656       CT         2662-2684       GC         2670-2692       AT         2860-2882       GC         2861-2883       AC         2876-2898       TT         2883-2905       CT         2886-2908       AC	TTCAATATTGTATGAAAACAGG ATGAAAACAGGAAAAAAAAAA	UUUUCAUACAAUAUUGAAAA AUUUUUUUUUCCUGUUUUCAUA UCUAAAUUUGUUUUAUUUUU UUUUCUAAAUUUGUUUUAUUUUU UUUUCUAAAUUUGUUUUAUUUU UUUUCUAAAUUUGUUUUAUUU UUUAAUGAGCUGUGUUUUCUAA UUUAAUGAGCUGUGUUUUCUA UUUUAAUGAGCUGUGUUUUCU ACAAUUUUAUUUU	GUUUUGUUUCAAUAUUGUAU UUUCAAUAUUGUAUGAAAACA R UCAAUAUUGUAUGAAAACAGG R UGAAAACAGGAAAAAAAAUAA R AAAAUAAAACAAAUUUAGAAAA R AAAUAAAACAAAUUUAGAAAA R AUAAAACAAAUUUAGAAAA R AUAAAACAAAUUUAGAAAA R AUAAAACAAAUUUAGAAAACA R AAAACAAAUUUAGAAAACA R AAAACAAAUUUAGAAAACA R AGAAAACACAGCUCAUUAAAA RA GAAAACACAGCUCAUUAAAA RA AAAACACAGCUCAUUAAAAU URA AAAACACAGCUCAUUAAAAU R CUCAUUAAAAUAAAAUUGUUG UA CUCAUUAAAAUAAAAUUGUUG R CUGUAAGUGUGUUUCUGUAG R CUGUAAGUGUGUUUCUGUAG UA ACACCUUGGCAUUGUAAG R CUGUAAGUGUGUUUCUGUAG CAAAUUGUUG CAAAAUUGUUGG R CUGUAAGUGUGUUUCUGUAG CAAAUUAGAAUAGAACACA R ACACUUUGCGCAUUGUAAG R GCAAGAAAGAGACA URA GCCAAAAAGAGACA URA GGCAAAAAGAGACA URA GGCAAAAAGAGACA URA GGCAAAAAGAGACA URA GGCAAAAAGAGACA URA GGCAAAAAGAGACA URA GGCAAAAGAGACAGAUUCCC A GUUGUUUUCCUAUUGUAAU U C GUAAUUUUCCCAAAUUAAGUUC UA GGAGGUUUUCCAAAUUAAGUUC UA GUAAUCCAAAUUAAGUUCCAAAU UR GUUUUCCCAAAUUAAGUUC UA GUUUUCCCAAAUUAAGUUC	-1.8	3 3 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	3       2       3       3       2       2       2       3       2       2       3       3       3       3       3       3       3       2       2       2       3       2       2       2       3       2       2       3       2       2       3       2       2       3       2       2       3       2       2       3       2       2       3       2       2       3       2       3       4       5       6       7       8       9       8       9       9       9       9       9       10       2       2       3       4       5       6       7    <	0       0         0		6 0 4 0 15 0 36 0 15 0 0 0 74 0 58 0 31 0 10 0 24 0 12 0 21 0 31 0 11 0 8 0 8 0 2 0 26 0 19 0 14 0 3 0 6 0 13		1       12         8       59         0       10         0       12         15 >100       3         3       60         5       56         4       31         4       30         0       16         1       24         0       20         4       22         3       18         0       29         0       12         0       13         0       3         0       11         0       6         0       38         1       15         1       13         0       21         1       20
2501-2523 2512-2534 2512-2534 2526-2548 2527-2549 2529-2551 2529-2551 2531-2553 2531-2553 2531-2553 2542-2564 2531-2565 2544-2566 2544-2566 2553-2575 2542-2576 2563-2585 2563-2585 2602-2624 271 2603-2625 2634-2656 2632-2624 271 2603-2625 2634-2656 272 2634-2656 273 2642-2684 2670-2692 2634-2698 2670-2692 273 274 275-2883 275-2898 275-	TTCAATATTGTATGAAAACAGG ATGAAAACAGGAAAAAAAAAA	UUUUCAUACAAUAUUGAAAA AUUUUUUUCUGUUUUCAUA UCUAAAUUUGUUUUAUUUUU UUUUCUAAAUUUGUUUUAUUUU UUUUCUAAAUUUGUUUUAUUUU UUUUCUAAAUUUGUUUUAUUU UUUAAUGAGCUGUGUUUUCUA UUUAAUGAGCUGUGUUUUCUA UUUAAUGAGCUGUGUUUUCUA UUUUAAUGAGCUGUGUUUUCU ACAAUUUUAUUUAAUGAGCU AACAAUUUUAUUUAAUGAGC AUGAAAUCCAACAAUUUUAUU ACAGAAACACACUUACAGCA UACACAAUGCGCAAAGUGUAG UCUCUUUUGCCAUUUGCCAU UACAAUAGAGAAAACACCUCAGAAAACAACUC UUACAAUAGAGAAAACAACUC UUACAAUAGAGAAAACAACUC UUACAAUAGAGAAAACAACUC UUACAAUAGAGAAAACAACUC UUACAAUAGAGAAAACAACUC UUACAAUAGAGAAAACAACUC UUACAAUAGAGAAAAACAACUC UUACAAUAGAGAAAACAACUC UUACAAUAGAGAAAACAACUC UUACAAUAGAGAAAACAACUC UUACAAUAGAGAAAACAACUC UUACAAUAGAGAAAAACAACUC UUACAAUAGAGAAAACAACUC UUACAAUAGAGAAAAACAACUC UUACAAUAGAGAAAAACAACUC UUAGAACUUAAUUUGGAAAACCU AUCUUAGAACUUAAUUUGGAAAACCU AUCUUAGAACUUAAUUUGGAA UCAUCUUAGAACUUAAUUUGGAAACUUAAUU AACCUAAUCAUCAUGAGACCUUAAUU AACCUAAUCAUCUUAGAACUUAAUU	GUUUUGUUUUCAAUAUUGUAU UUUCAAUAUUUGUAUGAAAACA R UCAAUAUUGUAUGAAAACAGG R UGAAAACAGGAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	-1.8       5.6         8.9       8.9         14.9       -1.8         11.3       14.9         -4.3       -9.7         6.9       -9.7         7.1       7.2         13.3       5.6         13.4       14.9         8.9       13.3         -1.4       19.3         5.3       -1.4         16.3       -3.3         19.2       16.4         19.2       19         19.3       16.7         10.3       12         12       18.6         11.6       5.6         8.5       5.6         20.1       13.4         -4.3       17.3	2 2 2 2 2 2 2 2 2 2 2 3 3 3 3 3 3 3 3 3	3         2         3         3         2         2         2         3         2         3         3         3         3         3         3         3         2         2         3         4         5 <td< td=""><td>0       0         0       0         0       0         0       0         1       0         0</td><td></td><td>6 0 4 0 15 0 36 0 15 0 0 74 0 58 0 31 0 10 0 24 0 12 0 21 0 31 0 11 0 8 0 2 0 26 0 26 0 19 0 14 0 3 0 6 0 13 0 14 0 11 0 5 0 14 0 11 0 5 0 10 0 7 0 8 0 4</td><td></td><td>1       12         8       59         0       10         0       12         15       &gt;100         3       60         5       56         4       31         4       30         0       16         1       24         0       20         4       22         3       18         0       29         0       12         0       13         0       13         0       38         1       15         1       13         0       21         1       11         0       2         0       4         0       4         0       4         0       8         1       5         0       10</td></td<>	0       0         0       0         0       0         0       0         1       0         0		6 0 4 0 15 0 36 0 15 0 0 74 0 58 0 31 0 10 0 24 0 12 0 21 0 31 0 11 0 8 0 2 0 26 0 26 0 19 0 14 0 3 0 6 0 13 0 14 0 11 0 5 0 14 0 11 0 5 0 10 0 7 0 8 0 4		1       12         8       59         0       10         0       12         15       >100         3       60         5       56         4       31         4       30         0       16         1       24         0       20         4       22         3       18         0       29         0       12         0       13         0       13         0       38         1       15         1       13         0       21         1       11         0       2         0       4         0       4         0       4         0       8         1       5         0       10
2501-2523  2512-2534  772 2526-2548  A/2 2527-2549  A/2 2529-2551  A/2 2531-2553  A1 2531-2553  A1 2531-2554  A2 2542-2564  TI 2542-2564  TI 2542-2566  A/2 2553-2575  A/2 2554-2576  G/2 2563-2585  A/2 2602-2624  TI 2603-2625  CI 2634-2656  CI 2634-2656  CI 2634-2656  CI 2634-2659  A/2 2861-2883  A/2 2862-2882  A/2 2861-2883  A/2 2876-2888  TI 2888-2905  CI 2888-2908  A/2 2889-2918  A/2 2899-2918  A/2 2900-2922  A/2 2914-2936  TI 2925-2947  TI 2927-2949  TI 2927-2949  TI 2927-2949  TI 2928-2950  G/2 2928-2951  A/2 2935-2957	TTCAATATTGTATGAAAACAGG ATGAAAACAGGAAAAAAAAAA	UUUUCAUACAAUAUUGAAAAC UUUUUUUUUUUUUUUUUU	GUUUUGUUUUCAAUAUUGUAAU U	-1.8       5.6         8.9       8.9         14.9       -1.8         11.3       14.9         -4.3       -9.7         6.9       -9.7         7.1       7.2         13.3       5.6         13.4       14.9         8.9       13.3         -1.4       19.3         -3.3       8.9         5.3       -1.4         16.3       -3.3         19.2       16.4         19.2       19         19.3       16.7         10.3       12         12       18.6         11.6       5.6         8.5       5.6         20.1       13.4         -4.3       17.3         14.6       20.1         17.7       20.1         20.2       -1.4         13.4       -4.3         16.2       14.6         18.5       11.7	3	3	0       0         0		6		1       12         8       59         0       10         0       12         15 >100       3         3       60         5       56         4       31         4       30         0       16         1       24         0       20         4       22         3       18         0       29         0       12         0       13         0       38         1       15         1       13         0       21         1       11         0       2         0       4         0       4         0       4         0       4         0       4         0       4         0       4         0       4         0       4         0       4         0       4         0       4         0       14         4       8         2       12
2501-2523	TITCAATATTGTATGAAAACAGG ATGAAAACAGGAAAAAAAAAA	UUUUCAUACAAUAUUGAAAA AUUUUUUUUCCUGUUUUCAUA UUUAAAUUUGUUUUAUUUU UUUUCAAAUUUGUUUUAUUUU UUUUCAAAUUUGUUUUAUUU UUUUCAAAUUUGUUUUAUUU UUUUCAAAUUUGUUUUAUUU UUUAAAGGCUGUGUUUUCUAA UUUAAUGAGCUGUGUUUUCUAA UUUAAUGAGCUGUGUUUUCU ACAAUUUUAUUUAAUGAGCU AACAAUUUUAUUUAAUGAGC AUGAAAUCCAACAAUUUUAUU ACAGAAACACACUUACAGCAA UUACAAAAGAAACACACUUACAGCAA UUACAAUAGAGAAAACAACUC UUACAAUAGAGAAAAAAAAAA	GUUUUGUUUUCAAUAUUGUAU U CAAUAUUGUAU U CAAUAUUGUAUGAAAACA R R CAAUAUUGUAUGAAAACA R R CAAUAUUGUAUGAAAACAG R R 1 10AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	-1.8   5.6   8.9   8.9   14.9   -1.8   11.3   14.9   -4.3   -9.7   6.9   -9.7   7.1   7.2   13.3   5.6   13.4   14.9   8.8   9   13.3   -1.4   19.3   -3.3   8.9   5.3   -1.4   16.3   -3.3   19.2   16.4   19.2   19   19.3   16.7   10.3   12   12   18.6   11.6   5.6   8.5   5.6   20.1   13.4   -4.3   17.3   14.6   20.1   17.7   20.1   20.2   -1.4   13.4   -4.3   16.2   14.6   18.5   11.7   20.3   18.8   14.5   21.1   4.6   18.6   20.2   14.5   19.1   -0.3   19.1   -0.3   19.1   -0.3   19.1   -0.3   19.1   4.9   5.5   13.1   2.1   19   -10.3   15.8   -10.3   8.2   -10.3   8.2   -10.3   8.2   -10.3   8.2   -10.3   8.2   -10.3   8.2   -10.3   8.2   -10.3   8.2   -10.3   8.2   -10.3   8.2   -10.3	2 2 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	3	0         0           0         0		6		1       12         8       59         0       10         0       12         15       >100         3       60         5       56         4       31         4       30         0       16         1       24         0       20         4       22         3       18         0       29         0       12         0       13         0       3         0       11         0       6         0       38         1       15         1       11         0       2         0       4         0       4         0       4         0       4         0       4         0       4         0       4         0       4         0       4         0       4         0       4         0       4         0       4         0       4 </td
2501-2523	TICAATATTGTATGAAAACAGG ATGAAAACAGGAAAAAAAAAA	UUUUCAUACAAUAUUGAAAAC UUGUUUUCAUACAAUAUUGAAA AUUUUUUUUUCCUGUUUUCAUA UUCUAAAUUUGUUUUAUUUUU UUUUCUAAAUUUGUUUUAUUUU UUUUCUAAAUUUGUUUUAUUUU UUUUUCUAAAUUUGUUUUAUUU UUUUAAUGAGCUGUGUUUUCUAA UUUUAAUGAGCUGUGUUUUCUA ACAAUUUUAUUUAAUGAGCU AACAAUUUUAUUUAAUGAGCA AUGAAAACACACAUUACAGCA UUACAAUAGAGCAAAAAAAAACACUC UUACAAUAGAGAAACCACAAAAACCUCAGAAACCUUAGAAACCUAAAAAAAA	GUUUUGAUUUCAAJAUUGUAU UUUCAAJAUUUGAAAACAG R  UUGAAAAACAGGAAAAAAAJAA R  AAAAACAAGGAAAAAAAJAA R  AAAAACAAGAUUUAGAAAA R  AAAAACAAACUUUAGAAAA R  AAAAACAAAGUUUAGAAAA R  AAAACAAAUUUAGAAAA R  AAAAACAAAUUUAGAAAA R  AAAACAAACAUUUAGAAAA R  AAAACAAACAUUUAGAAAA R  AAAACAAACAAUUUAGAAAAC R  AGAAAACCAGCUCAUUAAAA R  AGAAAACCAGCUCAUUAAAAU R  GAAAACCAGCUCAUUAAAAU R  CUCAUUAAAAUAAAAUGUUGUG UA UCAUUAAAAUAAAA	-1.8   5.6   8.9   8.9   14.9   -1.8   11.3   14.9   -4.3   -9.7   6.9   -9.7   7.1   7.2   13.3   5.6   13.4   14.9   8.9   13.3   -1.4   19.3   -3.3   8.9   5.3   -1.4   16.3   -3.3   19.2   16.4   19.2   19   19.3   16.7   10.3   12   112   18.6   11.6   5.6   8.5   5.6   20.1   13.4   -4.3   17.3   14.6   20.1   17.7   20.1   20.2   -1.4   13.4   -4.3   16.2   14.6   18.5   5.1   17.7   20.1   20.2   -1.4   13.4   -4.3   16.2   14.6   18.5   5.1   17.7   20.1   20.2   -1.4   13.4   -4.3   16.2   14.6   18.5   5.1   17.7   20.1   20.1   20.2   -1.4   13.4   -4.3   16.2   14.6   18.5   21.1   14.6   18.6   20.2   14.5   19.1   -0.3   19.1   2.1   14.8   6.9   10.3   20.2   10.3   19.1   4.9   5.5   13.1   2.1   19   -10.3   15.8   -10.3   8.2   -10.3   8.2   -10.3   8.5   -7.5   8   4.9   5.3   13.1   20.4   8.2   14.6   8.5   8.5   1.4   6.9   -8	2 2 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	3	0         0           0         0		6		1       12         8       59         0       10         0       12         15       >100         3       60         5       56         4       31         4       30         0       16         1       24         0       20         4       22         3       18         0       29         0       12         0       13         0       29         0       11         0       6         0       38         1       15         1       13         0       21         1       11         0       2         0       4         0       4         0       4         0       4         0       4         0       4         0       4         0       4         0       4         0       4         0       4         0       4
2501-2523	TICAATATTGTATGAATAAACAGG ATGAAAACAGGAAAAAAAAAA	UUUUUCAUACAAUAUUGAAAAC UUGUUUUCAUACAAUAUUGAAA AUUUUUUUUUCUGUUUUUUUUUU	UUUUCAAUJUUGUAUJUAUJUUUUU UUUUUUUUUUUUUUUUUUU	-1.8   5.6   8.9   8.9   14.9   -1.8   11.3   14.9   -4.3   -9.7   6.6   -9.7   7.1   7.2   13.3   5.6   13.4   14.9   8.9   13.3   -1.4   19.3   -3.3   8.9   5.5   -1.4   16.3   -3.3   19.2   16.4   19.2   19   19.3   16.7   10.3   12   12   18.6   11.6   5.6   8.5   5.6   20.1   13.4   -4.3   17.3   14.6   20.1   17.7   20.1   20.2   -1.4   13.4   -4.3   16.5   11.7   20.3   18.8   14.5   21.1   4.6   20.2   14.5   19.1   -0.3   1	\$ 1	3	0         0           0         0		6		1       12         8       59         0       10         0       12         15       >100         3       60         5       56         4       31         4       30         0       16         1       24         0       20         4       22         3       18         0       29         0       12         0       13         0       29         0       12         0       13         0       3         0       11         0       6         0       38         1       15         1       11         0       2         0       4         0       2         0       4         0       4         0       4         0       4         0       4         0       4         0       4         0       4         0       4
2501-2523	TICAATATTGTATGAAAACAGG ATGAAAACAGGAAAAAAAAAA	UUUUUCAUACAAUAUUGAAAAC UUGUUUUCAUACAAUAUUGAAA AUUUUUUUUUCUGUUUUUUUUU UUUCUAAAUUUGUUUUAUUUUU UUUUCUAAAUUUGUUUUAUUUUU UUUUUAAAUUUGUUUUAUUUUU UUUUUAAAUUUGUUUUAUUUUU UUUUAAAUUUGUUUUAUUUUU UUUAAAGCUGUGUUUUCUA AUUUAAUGAGCUGUGUUUUCUA ACAAUUUUAUUUU	UUUCAAUAUUGUAUGAAA   UUCAAUAUUGUAUGAAAACAGG   R	-1.8		3	0         0           0         0		6		1       12         8       59         0       10         0       12         15       >100         3       60         5       56         4       31         4       30         0       16         1       24         0       20         4       22         3       18         0       29         0       12         0       13         0       29         0       12         0       13         0       13         0       11         0       6         0       38         1       15         1       13         0       21         1       11         0       2         0       4         0       4         0       4         0       4         0       4         0       4         0       4         0       4         0       4
Time	TICAATATTGTATGAAAACAGG ATGAAAACAGGAAAAAAAAAA	UUUUUCUUAGAACUUUAGAAAC UUUUUUUUCUUAGAAAUUUUUUUUUU	UUUUCAAUJUUGAANABUAGAACA   R	1.8	i i i i i i i i i i i i i i i i i i i	3 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	0         0           0         0		6		1       12         8       59         0       10         0       12         15       >100         3       60         5       56         4       31         4       30         0       16         1       24         0       20         4       22         3       18         0       29         0       12         0       13         0       29         0       12         0       3         0       11         0       6         0       38         1       15         1       13         0       21         1       11         0       21         1       11         0       24         0       4         0       4         0       4         0       4         0       14         4       8         2       12         1       15 </td
1501-1573   Ti	TICAATATTGTATGAAAACAGG ATGAAAACAGGAAAAAAAAAA	UUUUUCAUACAAUAUUGAAAA AUUUUUUUUCCUGUUUUCAUA AUUUUUUUUUU	GUUUUGAAJAUUUGAAJACAGG	1.8   5.6   8.9   8.9   14.9   -1.8   11.3   14.9   -4.3   -9.7   -6.9   -9.7   -7.1   7.2   13.3   5.6   13.4   14.9   8.9   13.3   -1.4   19.3   -3.3   8.9   -5.3   -1.4   -6.3   -3.3   -1.4   19.3   -7.1   1.7		3 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	0         0           0         0		6		1
2501.2233	TICAATATTGTATGAAAACAGG ATGAAAACAGAATATAGAAA AAAAATAAAACAGAAATATAGAAA AAAAATAAAACAAATTTAGAAAA AAAAATAAAACAAATTTAGAAAA AAAATAAAACAAATTTAGAAAAA AATAAAACAAATTTAGAAAAA AATAAAACAAATTTAGAAAAA AATAAAACAAATTTAGAAAACA LAAAACAAATTTAGAAAACA LAAAACAAATTTAGAAAACA LAAAACAAACACAGCTCATTAAAAT GAAAACACAGCTCATTAAAAT GAAAACACAGCTCATTAAAAT GCTCATTAAAATAAAA	UUUUUCUUAGAAACU UUUUUUUUUUUUUUUUUUUUUUUU	SUUDUGANIAUUGANIACANGANAANA   UCAANAUUGANIACANGACAGA   CAANAUUGANIACANGACAGA   R	1-18   5.6   14.9   8.9   14.9   1.8   11.3   14.9   14.3   -9.7   15.9   -9.7   17.1   7.2   13.3   5.6   13.4   14.9   18.9   13.3   1.4   19.3   1.3   14.9   18.9   13.3   1.4   19.3   1.3   1.4   15.3   3.3   15.6   15.3   -1.4   15.3   -3.3   19.2   15.4   19.2   19   19.3   15.7   10.3   12   11   18.6   11.6   5.6   18.5   5.6   20.1   12.4   14.3   14.3   14.6   20.1   17.7   20.1   20.2   -1.4   13.4   -4.3   14.5   21.1   14.6   18.5   11.7   20.3   18.8   14.5   21.1   14.6   8.9   19.1   -0.3   19.1   -		3 2 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	0         0           0         0		6		1       12         8       59         0       10         0       12         15 > 100       3         3       60         5       56         4       31         4       30         0       16         1       24         0       20         4       22         3       18         0       29         0       13         0       29         0       11         0       6         0       38         1       15         1       13         0       21         1       11         0       2         0       4         0       2         0       4         0       2         0       4         0       2         0       4         0       2         1       11         1       15         0       18         0       19         0       2
T2011-5733 T1 2526-2534 T2 2526-264 T2 2526-264 T2 2527-2549 T2 2527-2	ITCAATATTGTATGAAAACAGG  ATGAAAACAGGAAAAAAAATAA  AAAAATAAAACAGAGAAAAAAAATAA  AAAAATAAAACAAATTTAGAAAA  AAAAATAAAACAAATTTAGAAAA  AAAATAAAACAAATTTAGAAAA  AATAAAACAAATTTAGAAAACA  LAAAACAAATTTAGAAAACAC  LAAAACAAATTTAGAAAACAC  LAAAACAAATTTAGAAAACAC  LAAGAAAACACAGCTCATTAAAAT  GAAAACACAGCTCATTAAAAT  GAAAACACAGCTCATTAAAAT  GCTCATTAAAATAAAA	UUUUUCAUAAAUUUGAAAA AUUUUUUUUCUCUUUUUUUUUU	ULULUALIANUUSUALISAANACAS   C	1-18   5.6   14.9   -1.8   11.3   14.9   -4.3   -9.7   -6.9   -9.7   -7.1   7.2   13.3   5.6   13.4   14.9   8.9   13.3   -1.4   19.3   -3.3   8.9   -5.3   -1.4   16.3   -3.3   19.2   16.4   19.2   19   19.3   16.7   10.3   12   12   18.6   11.6   5.6   8.5   5.6   20.1   13.4   -4.3   17.3   14.6   20.1   17.7   20.1   13.4   -4.3   16.2   14.6   18.5   11.7   20.3   18.8   14.5   21.1   4.6   18.6   20.2   14.5   19.1   -0.3   19.		2	0         0           0         0		6		1       12         8       59         0       10         0       12         15       >100         3       60         5       56         4       31         4       30         0       16         1       24         0       20         4       22         3       18         0       29         0       12         0       13         0       29         0       12         0       13         0       14         0       29         0       11         1       13         0       6         0       38         1       15         1       13         0       21         1       11         1       20         1       11         1       15         0       40         1       11         1       12         1       12         1 <t< td=""></t<>
1201-1252   111 1201-1252   12	ITCAATATTGTATGAAAACAGG ATGAAAACAGGAAAAAAAATAA AAAAAACAAATTTAGAAA AAAAAATAAAACAAATTTAGAAAA AAAAATAAAACAAATTTAGAAAA AAAAACAAAATTTAGAAAACA LAAAACAAATTTAGAAAACA LAAAACAAATTTAGAAAACA LAGAAACACAGTCATTAAAA AGAAAACACAGCTCATTAAAAT AGAAAATTGTTGGATTTCTGTAG ATAAAATTGTTGGATTTCTGTAG ACCTGTAAAGTGTGTTTCTGTAG AGCAGAAAGAGCACAGAATTCCC CAGTGTATTTCCAAATTGTAAT CGTGTAAAGTGGTGTTTCCTATTGTAAT AGTGTTTTTCTCTATTGTAAT CGTGTTTTCCCAAATTAAGTTC AGTGTTTTTCCAAATTAAGTTC AGGTTTTCCCAAATTAAGTTC AGAATTAAGTTCTAAGATGAT CCCAAATTAAGTTCTAAGATGAT CCCAAATTAAGTTCTAAGATGAT ACAAATTAAGTTCTAAGATGAT ACAAATTAAGTTCTAAGATGATT ATTAAGTTCTAAGATGATTAGG AGGTTTTCCCAAATTAAGTTCTAAG GTTTTCCAAATTAAGTTCTAAG GTTTTCCAAATTAAGTTCTAAG GTTTTCCAAATTAAGTTCTAAG GTTTTCCAAATTAAGTTCTAAG GTTTTCCAAATTAAGTTCTAAG AGGTTTTTCCTAGATTATTC AGGGTTTTTCCTAGATTATTC AGGGTTTTTCCTAGATTATTC AGGGTTTTTCCTAGATTATTC AGGGTTTTTCCTAGAGTAATTTC AGGGTTTTTCCTAGAGTAATTTC AGGGTTTTTCCTAGAGTAATTTC AGGGTTTTTCCTAGAGTAATTTC AGGGTTTTTCCTAGAGAAAAAAAATATTTTAGTATGAAAAAAAA	UUUUUCAUACAAUAUUGAAAA AUUUUUUUCCUGUUUUCAUA AUUUUUUUCCUAUAUUUUUU UUUUCUAAAUUUGUUUUUUUU UUUUCUAAAUUUGUUUUUUUU UUUUCUAAAUUUGUUUUUUUU UUUUUCUAAAUUUGUUUUCUAA AUUUAAUGAGCUGUGUUUUCUAA UUUAAUGAGCUGUGUUUUCUAA AUUUAAUGAGCUGUGUUUUCUAA ACAAUUUUAAUUAAUGAGCUAAACAAUUUUAAUGAGCAA UUACACAAUUUUAAUUAAUGAGCAA ACAAUUUUAAUUACAACAAUUUUAUU UUACAAAACACCACUUACAGCAA UACACAACACCACUUACAGCAA UACACAAACACCACUUUUGCCCAU UUACAAUAGAGAAAAACAACUC UUUACAAUAGAGAAAAACAACUC UUUAGAACUUAAAUUUGGAAAACCACUAAAAAAAAAA	COUNTY   C	1-18		3	0         0           0         0		6		1       12         8       59         0       10         15       >100         3       60         5       56         4       31         4       30         0       16         1       24         0       20         4       22         3       18         0       29         0       13         0       29         0       11         0       6         0       38         1       13         0       21         1       13         0       21         1       20         1       11         0       2         0       4         0       4         0       4         0       4         0       4         0       4         0       4         0       4         1       11         1       12         1       12         1       12
1901-2638 112-2636 1252-2648 A. A. 1252-2651 A. A. 1252-2653 A. A. 1262-2653 A. 12	ITCAATATIGTATGAAAACAGG  ATGAAAACAGGAAAAAAAAATAA  AAAAAATAAAACAGAATTTAGAAAA  AAAAAATAAAACAAATTTAGAAAA  AAAAATAAAACAAATTTAGAAAAA  AAAAAAAAAA	UUUUUCAUACAAUAUUGAAAA  AUUUUUUUCUUUUUUUUUU	GUUDUCAAAUUUGAAAACAG   R	-1.8   5.6   8.9   8.9   14.9   -1.8   14.9   -1.8   14.1   14.9   -6.9   9.7   -7.1   7.2   13.3   5.6   13.4   14.9   8.9   8.9   13.3   -1.4   15.3   -1.4   15.3   -1.4   15.3   -1.4   15.3   -1.4   15.3   -1.4   15.3   -1.4   15.4   -1.5   15.5   -1.5   15.6   8.5   5.6   8.5   5.6   8.5   5.6   8.5   5.6   8.5   5.6   8.5   5.6   8.5   5.6   8.5   5.6   8.5   5.6   8.5   1.6   13.4   -4.3   14.6   -2.0   13.4   -4.3   14.6   -3.3   14.6   -3.3   14.6   -3.8   14.7   -3.8   14.8   -3.8   14.9   -3.8   14.1   -3.8   14.1   -3.8   14.2   -3.8   14.3   -3.8   14.4   -3.8   14.5   -3.8   14.6   -3.7   14.6   -3.7   14.6   -3.7   14.6   -3.7   14.7   -3.8   14.8   -3.8   14.9   -3.8   14.9   -3.8   14.9   -3.8   14.1   -3.8   14.1   -3.8   14.1   -3.8   14.2   -3.8   14.3   -3.8   14.4   -3.8   14.5   -3.8   14.6   -3.7   14.6   -3.7   14.7   -3.8   14.8   -3.8   14.9   -3.8   14.9   -3.8   14.1   -3.8   14.1   -3.8   14.1   -3.8   14.1   -3.8   14.2   -3.8   14.3   -3.8   14.4   -3.8   14.5   -3.8   14.5   -3.8   14.6   -3.7   14.7   -3.8   14.8   -3.8   14.9   -3.8   14.1   -3		3 2 2 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	0		6		1 12 8 59 0 10 0 12 15 > 100 3 60 5 5 56 4 31 4 30 0 16 1 24 0 20 4 22 3 18 0 29 0 12 0 13 0 3 0 11 0 6 0 6 0 38 1 15 1 13 0 21 1 11 0 6 0 2 0 4 0 4 0 4 0 4 0 4 0 4 0 8 1 5 0 10 0 14 4 8 2 12 1 135 3 36 2 41 1 15 0 10 0 14 4 8 2 12 1 135 3 36 2 41 1 15 0 10 0 14 4 8 8 2 2 12 1 1 35 3 36 2 41 1 1 15 0 9 0 10 0 14 4 8 0 19 0 9 0 4 0 9 0 4 0 9 0 4 0 9 0 4 0 9 0 4 0 9 0 4 0 9 0 4 0 9 0 4 0 9 0 12 1 12 1 12 1 12 1 12 1 12 1 12 1 12
TD 2503-253 TD 2503-2534 TD 2503-2535 TD 250	ITCAATATIGTATGAAAACAGG ATGAAAACAGGGAAAAACAGAA ATGAAACAGGGAAAAAAAAAA	UUUUUCAUACAAUAUUGAAAA  AUUUUUCAUCAUCAUUUCAUA  UUCAAAUUUGUUUUAUUUUU  UUUCAAAUUUGUUUUAUUUUU  UUUCAAAUUUGUUUUAUUUUU  UUUCUAAAUUUGUUUUAUUUUU  UUUCUAAAUUUGUUUUAUUUU  UUUAUAGACCUCUGUUUUCUAA  UUUUAAAUGAGCUGUGUUUUCUA  AUUUUAUAGAGCUGUGUUUUCUA  ACAAUUUUAUUUAAUGAGCC  AACAAUUUUAUUUAAUGAGC  AACAAUUUUAUUUAAUGAGC  AACAAUUUUAUUUAAUGAGC  AACAAUUUUAUUUAAUGAGC  AACAAUUUUAUUUAAUGAGC  AUGAAAACACACUUACAGCAA  UUCACAAUGCGAAAGAGCA  UACACAAUGCGAAAGACACU  UUUGCCAUUUUUGCCAU  UUGAAAUAGGGAAAAACAACUC  UUUGAAAUUUGGAAAACCU  AACUUAAUUUGGAAAACCU  UUGAAAUAUUGGAAAACCU  UUGAAAUAUUGGAAAACCU  UUGAAAUAUUGGAAAACCU  UUGAAAUAUUGGAAAACCU  UUGAAAUAUUGGAAAACCU  UUGAAAUAUUGGAAAACCU  UUGAAAUAUUGGAAAACCU  UUGAAAUAUUGGAAAACCU  UUGAAAUAUUUGGAAAACCU  UUGAAAUAUUUGGAAAACCU  UUGAAAUAUUUGGAAAACCU  UUGAAAUAUUUGGAAAACCU  UUGAAAUAUUUGGAAAACCU  UUGAAAUAUUUGGAAAACCU  UUGAAAUAUUUGGAAAACCU  UUGUUUCUCUAGAAAUUUUGGAAAACU  UUUCUUUUGAGAACUUAAAUU  AAACUAACAAAAAAAUAUUUUCU  UUAAACUAAAAAAAUAUUUUCUU  UUAAACUAAAAAAAA	COLUMENTIAL CAMERA   COLUMENT	1-8   5-6   8-9   8-9   1-49   1-18   1-13   149   1-43   1-9.7   1-69   -9.7   7-1   7-2   1-13   5-6   1-3.4   149   8-9   133   1-14   19.3   3-3   8-9   5-3   1-14   1-3   3-3   1-14   19.3   1-15   1-		3 2 2 2 2 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3	0		6 0 4 0 15 0 36 0 15 0 5 0 74 0 58 0 31 0 10 0 24 0 12 0 21 0 31 0 11 0 8 0 2 0 26 0 26 0 19 0 14 0 3 0 6 0 13 0 14 0 11 0 5 0 10 0 7 0 8 0 8 0 12 0 4 0 10 0 7 0 8 0 8 0 12 0 4 0 10 0 15 0 24 0 58 0 36 0 19 0 17 0 13 0 15 0 24 0 58 0 36 0 19 0 17 0 18 0 15 0 16 0 20 0 20 0 21 0 21 0 21 0 21 0 21 0 21		1       12         8       59         0       10         0       12         15       >100         3       60         5       56         4       31         4       30         0       16         1       24         0       20         4       22         3       18         0       29         0       12         0       13         0       29         0       12         0       13         0       29         0       11         0       6         0       38         1       15         1       13         0       21         1       12         1       120         1       11         2       12         1       15         0       10         0       14         4       8         2       12         1       12         1 <t< td=""></t<>
1501-1513	ITICAATATIGTATGAAAACAGG  ATGAAAACAGGAAAAAACAGA  ATGAAAACAGAGAACAAAAATAAA  AAAAATAAAACAAATTTAGAAAA  AAAAATAAAACAAATTTAGAAAA  LAAAACAAATTTAGAAAACA  LAAAACAAATTTAGAAAACA  LAAAACACAATTTAGAAAACA  LAAAACACAATTTAGAAAACA  LAAAACACAATTTAGAAAACA  LAAAACACAATTTAGAAACACA  LAGAAAACACAGCTCATTAAAAT  LGAAAACACAGCTCATTAAAAT  LGCATAAAATAAAATGTTGG  ATAAAATTATTGGATTACATT  GCTCATTAAAATAAAA	UUUUUCAUACAAUAUUGAAAA  AUUUUUUUCAUACAUUUGAUA  UUCAAAAUUUGUUUUAUUUUU  UUUUAAAAUUUGUUUUAUUUU  UUUUAAAAUUUGUUUUAUUUU  UUUUUAAAAUUUGUUUUAUUU  UUUUUCUAAAUUUGUUUUAUU  UUUUAUAGACCUGUGUUUUCUAA  UUUUAUAGACCUGUGUUUUCUAA  UUUUAUAUGAGCUGUGUUUUCUA  ACAAUUUUAUUUAAUUAAGCCU  AACAAUUUUAUUUAAUUAAGCC  AACAAUUUAUUUAAUUAAGCAC  AACAAUUUUAUUUAAUGAGC  AUGAAAUCCAACAAUUUUAUU  ACAGAAACACACUUACAGCAA  UACAGAAACACACUUACAGCAA  UACAGAAACACACUUACAGCAA  UACAGAAACACCUUACAGCAA  UACAGAAACACCUUACAGCAA  UACACAAUGCGCAAAGUUUAGU  UUUAAUGAGGAGAAAACAACUC  UUUCAAAUAGAGAAAAAAAAACAACUC  UUUCAAAUAGAGAAAAAAAAAA	CONTRIBUTION   CONT	1-18   5-6   1-18   1-18   1-19   -1-18   1-19   -1-18   1-19   -1-18   1-19   -1-18   1-19   -1-19   1-19   -1		3 2 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	0		6	O	1
1901-1923	TICAATATTGTATGAAAACAGG  ATGAAAACAGAGAAAACAGAA  ATGAAAACAGAATTTAGAAAA  AAAAATAAAACAAATTTAGAAAA  AAAAATAAAACAAATTTAGAAAA  LAAAAACAAATTTAGAAAACAC  LATAAAACAAATTTAGAAAACAC  LATAAAACAAATTTAGAAAACAC  LATAAAACACAGCTCATTAAAAT  GAAAACACAGCTCATTAAAAT  GAAAACACAGCTCATTAAAAT  GACAAACACAGCTCATTAAAAT  GACAAACACAGCTCATTAAAAT  GACAAACACAGCTCATTAAAAT  GACAAACACAGCTCATTAAAAT  GACAAACACAGCTCATTAAAAT  GACAAACACAGCTCATTAAAAT  GACAAACACAGCTCATTAAAAT  GACAAATAAAATA	UUUUUCAUACAAUAUUGAAAA  AUUUUUUUCAUACAAUUUGAAA  AUUUUUUUCAUACAAUUUUAUUUU	COUDED CONTROLOGICADO   CONTROLOGICADO	1-18		3 2 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	0		6		1
The color   The	TICAATATGTATGAAAACAGG  AATGAAACAGAGAAACAGG  AAAAACACAGCTGATTAGAAA  AAAAATAAAACAAATTTAGAAAA  AAAAAAACAAATTTAGAAAACA  LAAAACAAAATTTAGAAAACA  LAAAACAAAATTTAGAAAACA  LAAAACAAAATTTAGAAAACA  LAGAAAACACAGCTCATTAAAAT  GAAAACACAGCTCATTAAAAT  GAAAACACAGCTCATTAAAAT  GAAAACACAGCTCATTAAAAT  GAAAACACAGCTCATTAAAAT  GAAAACACAGCTCATTAAAAT  GAAAACACAGCTCATTAAAAT  GAAAACACAGCTCATTAAAAT  GCTCATTAAAATTGTTGG  ATAAAATTGTGGATTCATTG  ACCTTTTAGAATAAATTGTTGG  ATAAAATTGTGGTTTCTGTAG  GGTGTAAGAGTGTGTTCTGTAG  GGTGTAAGAGTGTGTTTCGTAG  GGTGTAAGAGTGGTTTCTGTAG  GGTGTAAGAGTGGTTTCTGTAAC  ACCAGATTGTGCAATTAGATC  GGTGTTTTCCTATTGTAATC  GGTGTTTTCCTATTGTAATC  GGTGTTTTTCCTATTGTAATC  GGTGTTTTTCCTATTGTAATC  GGTGTTTTCCTAATTAGATC  GGTGTTTTCCAAATTAAGTTCCAAT  TGAAGTTTTCCAAATTAAGTTCTAAA  GTTGTTCCAAATTAAGTTCTAAA  GTTTCCAAATTAAGTTCTAAAGTAGA  CAAATTAAGTTCTAAAGTAGTATGA  CAAATTAAGTTCTAAGATGAATAGA  CAAATTAAGTTCTAAGATGAATTAGA  CAAATTAAGTTCTAAGATGAATTAGA  CAAATTATCTACAGATAAATTTC  AGGTTTTTCCCTGAGTTATTTC  AGGTTTTTCCTGAGTTATTTC  AGGTTTTTCCTGAGTTATTTC  AGGTTTTTCCTGAGTTATTTC  AGGTTTTTCTAGAGAAAAAA  AGTTATTTCTAGAGAAAAAAA  AGTTATTTCTAGAGAAAAAAAA  AGTTATTTCTAGAGAAAAAAAAAA	UUUUUCUAAANAUUUUUUUUUUUUUUUUUUUUUUUUUUU	COUNTY   C	1.88   5.6   1.89   1.49   1.48   1.40   1.48   1.41   1.49   1.42   1.49   1.43   1.45   1.44   1.53   1.45   1.53   1.46   1.53   1.47   1.58   1.49   1.53   1.41   1.53   1.42   1.53   1.43   1.54   1.53   1.54   1.54   1.55   1.55   1.56   1.56   1.56   1.57   1.58   1.58   1.59   1.59   1.59   1.50   1.5		3 2 2 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		6		1
Tell	TICATATIGTATGAMAACAGG  ATGAAAACAGAGAACAACAA  AAAAATAAACAAAATTAGAAAA  AAAAATAAAACAAAATTAGAAAA  AAAAATAAAACAAATTTAGAAAA  AAAAATAAAACAAATTTAGAAAACA  LAAAACAAATTTAGAAAACA  LAAAACACAGCTCATTAAAAT  GAAAACCAGCTCATTAAAAT  GAAAACCAGCTCATTAAAAT  GAAAACCAGCTCATTAAAAT  GAAAACCAGCTCATTAAAAT  GAAAACCAGCTCATTAAAAT  GAAAACCAGCTCATTAAAAT  GAAAACCAGCTCATTAAAAT  GAAAACCAGCTCATTAAAAT  GAAAACCAGCTCATTAAAAT  GCTCATTAAAAATAAATTGTTG  ATCCTGTAAAGTGTTTCATTT  AGCTCTTTGCGATTGGTAAAT  GACCAGTAGTGGTTTCTGTAG  ACCAGTTTTGCTATTGTAAAT  CACCATTTGCGATTGGTAAAT  GCTCATAAGATGAATAACTCCC  ACCAGTTGTTTCCTATTGTAAAT  GTTGGTTTTCCTATTGTAAAT  GTTGGTTTTCCTATTGTAAAT  GTTGGTTTTCCTATTGTAAAT  GTTGGTTTTCCTATTGTAAAT  GTTGGTTTTCCTATTGTAAAT  GTTGGTTTTCCTATTGTAAAT  GTTGGTTTTCCAAATTAAGTTCAAA  GTTGTTTTCCAAATTAAGTTCAAA  GTTGTTTTCCAAATTAAGTTCAAA  GTTTTTCCAAATTAAGTTCAAA  GTTTTTCCTCAAATTAAGTTCAAA  GACTTTTAAGATTCAAAGTAGTT  ACCAAATTAAGTTCTAAGATGATT  ACCAAATTAAGTTCTAAGATGATT  ACCAAATTAAGTTCTAAGATGATT  ACCAAATTAAGTTCTAAGATGATT  ACCAAATTAAGTTCTAAGATGATT  ACGGTTTTTCCTCGAGTTATTTC  ACGGTTTTTCCTCGAGTTATTTC  ACGGTTTTTCCTCGAGTTATTTC  ACGGTTTTTCCTCGAGTTATTTC  ACGGTTTTTCCTCGAGTTATTTC  ACGGTTTTTCCTCGAGTTATTTC  ACGGTTTTTCCTCGAGTTATTTC  ACGGTTTTTCCTCGAGTTATTTC  ACGGTTTTTCCTCGAGTTATTTC  ACGGTTATTTCTAAGAAAAAAAAAA	UUUUUCUAAAAUUUUUUUUUUUUUUUUUUUUUUUUUUU	BUILDINGSHIMSTANASH	1-18   5.6   14.9   -1.8   14.9   -1.8   14.9   -1.8   14.9   -4.7   -6.9   -9.7   -7.1   7.2   -7.1   7.2   -7.1   7.2   -7.1   7.2   -7.1   7.2   -7.1   7.2   -7.1   7.2   -7.1   7.2   -7.1   7.2   -7.1   7.2   -7.1   7.2   -7.1   7.2   -7.1   7.3		3 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	0		6	O	3   60   5   56   4   31   4   30   0   16   1   24   0   20   4   22   3   18   0   29   0   13   0   3   0   11   0   3   0   11   15   1   13   0   21   1   10   0   2   0   4   0   4   0   8   1   15   1   11   0   2   1   11   0   2   1   11   0   2   1   11   0   4   0   8   1   5   0   10   0   14   4   8   2   12   1   35   3   36   2   41   1   1   1   26   0   40   1   11   1   26   0   40   1   11   1   26   0   9   0   0   4   0   9   0   0   7   1   12   1   12   1   25   5   17   3   26   2   21   1   7   1   1   2   1   25   5   17   3   26   2   21   1   7   1   1   2   1   25   5   17   3   26   2   21   1   7   1   1   2   1   25   5   17   3   26   2   21   1   1   1   1   8   0   9   0   4   4   56   16   100   17   1   18   0   19   0   6   0   7   1   12   1   1   1   1   1   8   0   10   0   7   1   11   1
1971-1972   17   17   17   17   17   17   17	TICANATIGIATIGANACAGG  ATGARAACAGGAAAAAATAA AAAATAAACAAGGAAAATAA AAAAATAAAACAAATTIAGAAAA AAAAAAACAAATTIAGAAAACA AAAAAAACAAATTIAGAAAACA AAAAAAACAAATTIAGAAAACA AAAAAAACAAATTIAGAAAACA AAAAAAACAAATTIAGAAAACA AGAAAAACACAGCICATTAAAAT AGAAAACCAGCICATTAAAAT AGAAAACCAGCICATTAAAAT AGAAAACCAGCICATTAAAAT AGAAAACCAGCICATTAAAAT AGAAAACACAGCICATTAAAAT AGAAAACACAGCICATTAAAAT AGAAAACACAGCICATTAAAAT AGAAAAACAAATTITGGAATTICATT TAGAAAATAAAATAATATITGTG ATAAAAATTATTIGAGTTICATTT TAGACTITICACCATTIGAGT TACACTTITICACATTICAGT TACACTTICACCACTTIGAGT TACACTTICACCACTTIGAGT TACACTTICACCACTTIGAGT TACACTTICACCACTTIGAGT TACACTTICACCACTTIGAGT TACACTTICACCACTTIGAGT TACACTTICACAATTAAAGTIC AGGCAAAAAGAGACACAGAATCCC AGTIGTITICCTATIGTAAT TAGAGTITICCTATATATC TGGCAAAAAGAGACACAGAATCCC AGTIGTITICCTATIGTAAT TAGAGTITICCTATATATC TGGCAATAAAGTICTAAAGTIC TGGCATATAAGTICTAAAGTIC TGGCATATAAGTICTAAAGTIC TGCAAATTAAGTICTAAAGTIC TGCAAATTAAGTICTAAAGTIC TGCAAATTAAGTICTAAAGTIC TACACTTICACAATTAAGTICTAAA TGTAGTITICCCTAAATTAAGTICTAAAGTIC TACAATTAAAGTICTAAAGTIC TACAATTAAAGTICTAAAGTIC TACAATTAAAGTICTAAAGATAA TATAAGTICTAAAGATAATATTIC TGGAGTTAATTICAGAGTAATATTIC TAGAGTAATTICAGAGTAATATTIC TAGAGTAATTICAGAGAAAAAAATATTIC TAGAGTAATTICTAGAGAAAAAAAAATATTIC TAGAGTAAATTITAAGTAAGAAAAAAATATTITAAGTAAG	UUUUUCUUUUCUUUUCUUUUUUUUUUUUUUUUUUUUUU	BUILDING LUCKAMANDE DATA   CONTRACTOR   CO	1-8		3 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	0		6		3   60   5   56   4   31   4   30   0   16   1   24   0   20   4   22   3   18   0   29   0   13   0   3   0   11   0   3   0   11   15   1   13   0   21   1   10   0   2   0   4   0   4   0   8   1   15   1   11   0   2   1   11   0   2   1   11   0   2   1   11   0   4   0   8   1   5   0   10   0   14   4   8   2   12   1   35   3   36   2   41   1   1   1   26   0   40   1   11   1   26   0   40   1   11   1   26   0   9   0   0   4   0   9   0   0   7   1   12   1   12   1   25   5   17   3   26   2   21   1   7   1   1   2   1   25   5   17   3   26   2   21   1   7   1   1   2   1   25   5   17   3   26   2   21   1   7   1   1   2   1   25   5   17   3   26   2   21   1   1   1   1   8   0   9   0   4   4   56   16   100   17   1   18   0   19   0   6   0   7   1   12   1   1   1   1   1   8   0   10   0   7   1   11   1
1999-1207   11	TICABATATIGTATIGAACAGG AATAGAAAACAGGAAAAAATAA AAAATAAACAAGGAAAAAATAA AAAAATAAACAAGTATAGAAAA AAAAATAAACAAATTAGAAAAA AAAAAAACAAATTAGAAAAA AAAAAAACAAATTAGAAAAA AAAAAAAACAAATTAGAAAAA AAAAAAACAAATTAGAAAAA AAAAAAACAAATTAGAAAAA AAAAAAACAAATTAGAAAAA AAAAAAACAAATTAGAAAAA AAAAAAACAAATTAGAAAAA AGAAAAACAAATTAGAAAAA AGAAAAACAAATTAGAAAAAA AGAAAAACAAATTAGAAAAA AGAAAAACAAATTAGAAAAA AGAAAAACAAATTAGAAAAAA AGAAAAACAAATTAGAAAAT AGAAAACACACCICATTAAAAT AGAAAACACACCICATTAAAAT AGAAAAAATAAAATTAGATTIGG ATAAAAATTGAGATTACATTI AGACAACACACCICATTAAAAT ACACAATTAGATTCATTI AGCATTAGAATTAGATTCC AGACAAGAATGGTAAAATTTCTAAAT TICACAATTAAATTCAAAATTCAAATTCAAATTCAAATTCAAATTCAAATTCAAATTCAAATTCAAATTCAAAATTCAAATTCAAATTCAAATTCAAATTCAAATTCAAATTCAAATTCAAATTCAAATTCAAATTCAAAATTTTCAAAATTCAAAATTTTCAAAATTCAAAATTTTCAAAATTTCAAAATTTTCAAAATTTTCAAAATTTTCAAAATTTTCAAAATTTTCAAAATTTTCAAAATTTTCAAAATTTTTCAAAATTTTTCAAAATTTTCAAAATTTTTCAAAATTTTTCAAAATTTTTCAAAATTTTTCAAAATTTTTCAAAAATTTTTT	UUUUUCUUAAAUUUUUUUUUUUUUUUUUUUUUUUUUUU	SUDUPLICATION   STATE	1-28   5-6   5-9   1-10		1 2 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	0		6	0	3   60   5   56   4   31   4   30   0   16   1   24   0   20   4   22   3   18   0   29   0   13   0   3   0   11   0   3   0   11   15   1   13   0   21   1   10   0   2   0   4   0   4   0   8   1   15   1   11   0   2   1   11   0   2   1   11   0   2   1   11   0   4   0   8   1   5   0   10   0   14   4   8   2   12   1   35   3   36   2   41   1   1   1   26   0   40   1   11   1   26   0   40   1   11   1   26   0   9   0   0   4   0   9   0   0   7   1   12   1   12   1   25   5   17   3   26   2   21   1   7   1   1   2   1   25   5   17   3   26   2   21   1   7   1   1   2   1   25   5   17   3   26   2   21   1   7   1   1   2   1   25   5   17   3   26   2   21   1   1   1   1   8   0   9   0   4   4   56   16   100   17   1   18   0   19   0   6   0   7   1   12   1   1   1   1   1   8   0   10   0   7   1   11   1
100   100	ITCANATIGIATIGAANACAGIG ATGAGAAACAGGAAAAAATAA ATGAGAAACAGGAAAAAATAA ATGAAACAGGAAAAAAATAA ATGAAACAGGAAAAAAATAA AAAAATAAACAAATTTAGAAAA AAAAAAAACAAATTTAGAAAAC AAAAAAAACAAATTTAGAAAAC AAAAAAAACAAATTTAGAAAAC AAAAAAAACAAATTTAGAAAAC AAAAAAAACAAATTTAGAAAAC AAAAAAAACAAATTTAGAAAAC AAAAAAAACAAATTTAGAAAACA AAAAAAACAAATTTAGAAAACA AGAAAACCAGGTCATTAAAATA GGCTATTAAAAATAAAAT	UUUUUCUCUAGAANACU UUUUUUUCUCAGAUUUUUU UUUUCUCAAAUUUUUUUU UUUUCUCAAAUUUUUUUU	Commonwealth	1-88   5-6   1-89   1-99   1-90   1-99   1-91   1-90   1-92   1-90   1-92   1-90   1-93   1-90   1-94   1-90   1-95   1-90   1-9		3 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	0		6		3   60   5   56   4   31   4   30   0   16   1   24   0   20   4   22   3   18   0   29   0   13   0   3   0   11   0   3   0   11   15   1   13   0   21   1   10   0   2   0   4   0   4   0   8   1   15   1   11   0   2   1   11   0   2   1   11   0   2   1   11   0   4   0   8   1   5   0   10   0   14   4   8   2   12   1   35   3   36   2   41   1   1   1   26   0   40   1   11   1   26   0   40   1   11   1   26   0   9   0   0   4   0   9   0   0   7   1   12   1   12   1   25   5   17   3   26   2   21   1   7   1   1   2   1   25   5   17   3   26   2   21   1   7   1   1   2   1   25   5   17   3   26   2   21   1   7   1   1   2   1   25   5   17   3   26   2   21   1   1   1   1   8   0   9   0   4   4   56   16   100   17   1   18   0   19   0   6   0   7   1   12   1   1   1   1   1   8   0   10   0   7   1   11   1
150, 150, 150, 150, 150, 150, 150, 150,	TICANATATIGIATIGANAMATA  ARAMATAGAAACAGA  ARAMATAAACAATTAGAAA  AAAAATAAACAATTAGAAA  AAAAATAAAACAATTAGAAA  AAAAATAAAACAATTAGAAA  AAAAATAAAACAATTAGAAAA  AAAAATAAAACAATTAGAAAA  AAAAAAAACAATTAGAAAA  AAAAAAAACAATTAGAAAA  AAAAAAAACAATTAGAAAA  AAAAAAAACAATTAGAAAA  AAAAAAACAAGTTAGAAAA  AGAAAACCAGCICATTAAAAT  AGAAAACCAAGCICATTAAAAT  AGAAAACCAAGCICATTAAAAT  AGAAAACCAAGCICATTAAAAT  AGAAAACAAAGCICATTAGAAA  AGAAAACCAAGCICATTAAAAT  AGAAAACCAAGCICATTAAAAT  AGAAAACCAAGCICATTAAAAT  AGAAAACCAAGCICATTAAAAT  AGAAAACCAAGCICATTAGAAT  AGAAACAAAATAAATAAAATIGTIG  CICCATTAAAATAAAATAAATIGTIG  GICTATTAGAATAAAATAAATIGTIG  ACACAGAATAGGAATICCAAAT  IGGIGTAGTICTAGATAATICTAGAT  AGAGAATAAGTICTAAGATAATICTAGAT  AGAGTITTTICCAATTAAGTICTAAG  GITTICCAAATTAAGTICTAAG  GITTICCAAATTAAGTICTAAG  GITTICCAATTAAGTICTAAG  GITTICCAAATTAAGTICTAAG  GITTICCAAATTAAGTICTAAG  GITTICCAAATTAAGTICTAAG  AGATTATAGTICTAAGATAGTIT  AGAGTITTICCAGATATATIC  AGGTITTICCCAGATATATIC  AGGTITTICCCAGATATITIC  AGGTITTICCTCAGAGTATITIC  AGGTITTICCTCAGAGTATATIC  AGGTITTICCTCAGAGTATATIC  AGGTITTICCTCAGAGTATATIC  AGGTITTICCTCAGAGTATATIC  AGGTITTICCTCAGAGTATATIC  AGGTITTICCTCAGAGTATATIC  AGGTITTICCTCAGAGTATATIC  AGGTITTICTCAGAGAAAGAA  AGTITATITICAGAGAAAGAA  AGTITATITICAGAGAAAGAAA  AGTITATITICAGAGAAAGAAA  AGTITATITICAGAGAAAAGAAA  AGTITATITICAGAGAAAGAAA  AGTITATITICAGAGAAAAATATITIAGTATGATATAATITAAATTAGTAGTATAAATITAAATTAGTATAAATTATAGTATAAATTAGTAGAATAATITIAGTAGAATAATITIAGTAGTAGAATAATITIAGTAGAATAATITIAGTAGAATAATITIAGTAGAATAATITIAGTAGAATAATITIAGTAGAATAATITIAGTAGAATAATITIAGTAGAATAATATITIAGTAGAATAATATTATAGTAGAATAATATTATAGTAGAATAAT	UUUUUUUAAAAUUUUUUUUUUUUUUUUUUUUUUUUUUU	Commission (Commission Commission Commissi	1-18		3 2 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	O		6		3   60   5   56   4   31   4   30   0   16   1   24   0   20   4   22   3   18   0   29   0   13   0   3   0   11   0   3   0   11   15   1   13   0   21   1   10   0   2   0   4   0   4   0   8   1   15   1   11   0   2   1   11   0   2   1   11   0   2   1   11   0   4   0   8   1   5   0   10   0   14   4   8   2   12   1   35   3   36   2   41   1   1   1   26   0   40   1   11   1   26   0   40   1   11   1   26   0   9   0   0   4   0   9   0   0   7   1   12   1   12   1   25   5   17   3   26   2   21   1   7   1   1   2   1   25   5   17   3   26   2   21   1   7   1   1   2   1   25   5   17   3   26   2   21   1   7   1   1   2   1   25   5   17   3   26   2   21   1   1   1   1   8   0   9   0   4   4   56   16   100   17   1   18   0   19   0   6   0   7   1   12   1   1   1   1   1   8   0   10   0   7   1   11   1
150.00000000000000000000000000000000000	TICANATAGAMACAGG ATAGAMATATAGAMATAGA ATAGAMACAGAMATTAGAMA ATAGAMACAGAMATTAGAMA AMAATAMACAGAMATTAGAMA AMAATAMACAGAMATTAGAMA AMAATAMACAGAMATTAGAMA AMAATAMACAGAMATTAGAMA AMAATAMACAGAMATTAGAMA AMAATAMACAGAMATTAGAMA AMAATAMACAGAMTTAGAMAA AGAMACAGCACCACTACAAA AGAMACACAGCTCATTAMAAT AGCACATTAGAMATA AGCACATTAGATAGAT AGCACATTAGATATAGAT AGCACATTAGATAGAT AGCACATTAGATAGAT AGCACATTAGATAGAT AGCACATTAGATAGAT AGCACATTAGATAGAT AGCACATTAGATTAG	UJUCULUCAAAUUUSAAAC  UJUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUU	College	1-18		3 2 2 2 2 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3	O		6		3   60   5   56   4   31   4   30   0   16   1   24   0   20   4   22   3   18   0   29   0   13   0   3   0   11   0   3   0   11   15   1   13   0   21   1   10   0   2   0   4   0   4   0   8   1   15   1   11   0   2   1   11   0   2   1   11   0   2   1   11   0   4   0   8   1   5   0   10   0   14   4   8   2   12   1   35   3   36   2   41   1   1   1   26   0   40   1   11   1   26   0   40   1   11   1   26   0   9   0   0   4   0   9   0   0   7   1   12   1   12   1   25   5   17   3   26   2   21   1   7   1   1   2   1   25   5   17   3   26   2   21   1   7   1   1   2   1   25   5   17   3   26   2   21   1   7   1   1   2   1   25   5   17   3   26   2   21   1   1   1   1   8   0   9   0   4   4   56   16   100   17   1   18   0   19   0   6   0   7   1   12   1   1   1   1   1   8   0   10   0   7   1   11   1
15.   15.	ITCABATATGTAGAAAAAGA  AAGAATAGTAGAGAAAATA  AAGAATAGAACAAATTAGAAA  AAAAATAAAACAAATTAGAAA  AAAATAAAACAAAATTAGAAAA  AAAATAAAACAAAATTAGAAAA  AAAATAAAACAAATTAGAAAAA  AAAAAAACAAATTAGAAAAA  AAAAAAACAAATTAGAAAAA  AAAAAAACAAATTAGAAAAA  AAAAAAACAAATTAGAAAAA  AAAAAAACAAATTAGAAAAA  AGAAAACAACTATTAGAAAAA  AGAAAACAACACTCATTAAAAT  GAAAACAACCTCATTAAAAT  GCICATTAAAATTAGAAAATA  ICAGAAAACAACCTCATTAAAAT  GCICATTAAAATAAAATTGTTG  CICATTAAAATAAAATTGTTG  GTATAAATTGTAGATTCATT  ICCCTATTAAAATAAAATTGTTG  GATAAAATTGTTGGATTTCATT  ICCCTATTAAAATAAAATTGTTG  GATAAAATTGTTGGATTTCATT  ICCCTATTAAAATTGAAATTCC  AGACAAACAAGCACTTGTAAAT  AGCAAGAATTGCAAAATAAATTCC  AGACAAATTGTTCAAATTCC  ICTGGAAAAGAGAACAATTGTAATC  ICTGGAAAAGAGAACAATTGTAATC  ICTGGAAATTGTAAATTCC  ICTGGAAATTAGAATTAATTCC  ICTGGAAATTAGAATTAAATTCC  ICTGGAAATTAGAATTAAATTCC  ICTGGAAATTAGAATTAAATTCC  ICTGGAATTTTCCAAATTAAGTTC  ICTGGAAATTAGAATTAAATTCC  ICTGAATTAAAGTTCTAAGATTCAAATTAAGTTCTAAAATTTTTAAATTTCTAAGAAAAAATTTTTAAATTTCTAAAATTAAATTTTAAATTTTAAATTTTAAATTTTAAATTTT	LUCULULAGAMAN CUI  LUCULUAGAMAN CUI  LUCULUAGACCU GUI  LUCULUAGACCA CUI  LUCULUAGACCA CUI  LUCULUAGACCA CUI  LUCULUAGACCA CUI  LUCULUAGACCA CUI  LUCULUAGACCA CUI  LUCULUAGACACU  LUCULUAGACACU  LUCULUAGACACU  LUCULUAGACACU  LUCULUAGACACU  LUCULUAGACACU  LUCULUAGACACU  LUCULUAGACACU  LUCULUAGACACU  LUCULUAGACCU  LUCULUAGACACU  LUCULUAGACACU  LUCULUAGACCU  LUCULU	SUMMAND   SUMMANDD   SUMMAND   SUM	1.86		3   2   2   2   2   2   2   2   2   2	O		6		3   60   5   56   4   31   4   30   0   16   1   24   0   20   4   22   3   18   0   29   0   13   0   3   0   11   0   3   0   11   15   1   13   0   21   1   10   0   2   0   4   0   4   0   8   1   15   1   11   0   2   1   11   0   2   1   11   0   2   1   11   0   4   0   8   1   5   0   10   0   14   4   8   2   12   1   35   3   36   2   41   1   1   1   26   0   40   1   11   1   26   0   40   1   11   1   26   0   9   0   0   4   0   9   0   0   7   1   12   1   12   1   25   5   17   3   26   2   21   1   7   1   1   2   1   25   5   17   3   26   2   21   1   7   1   1   2   1   25   5   17   3   26   2   21   1   7   1   1   2   1   25   5   17   3   26   2   21   1   1   1   1   8   0   9   0   4   4   56   16   100   17   1   18   0   19   0   4   19   7   10   7   11   12   11   1   12   1   13   1   14   3   9   3   17   3   26   2   21   1   11   1   1   2   1   2   3   3   3   3   17   3   2   2   3   3   3   17   3   2   2   4   23   3   3   17   3   2   2   5   3   6   0   3   7   7   7   1   12   7   1   12   7   1   12   7   1   1   7
1982   1982	ITGAGATATCAGGAAAAACAG  ITGAGAACAGCAAACAGA  ITGAGAACAGCAGAAAACAG  ITGAGAACAGCAGCAAAAACAG  ITGAGAACAGCAGCATAGAACA  ITGAGAACAGCAGCATAGAACA  ITGAGAACAGCAGCATAGAACA  ITGAGAACAGCAGCATTAGAACA  ITGAGAACAGCAGCACATTAGAACA  ITGAGAACAGCAGCATTAGAACA  ITGAGAACAGCAGCATTAGAACA  ITGAGAACAGCAGCATTAGAACA  ITGAGAACAGCAGCATTAGAACA  ITGAGAACAGCAGCATTAGAACA  ITGAGAACAGCAGCATTAGAACA  ITGAGAACAGCAGCATTAGAACA  ITGAGAACAGCAGCATTAGAACACA  ITGAGAACAGCAGCAAACAGCACA  ITGAGAACAGCAGCAACAGCACA  ITGAGAACAGCAGCAACACACACACACACACACACACACAC	LUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUU	SULPATION CONTRACTOR   STATE	1.88		1	O		6         0           15         0           15         0           15         0           74         0           78         0           31         0           10         0           21         0           22         0           26         0           29         0           14         0           3         0           6         0           19         0           14         0           15         0           10         0           12         0           14         0           15         0           10         0           12         0           14         0           15         0           10         0           12         0           12         0           13         0           14         0           15         0           15         0           15         0           15         0		3   60   5   56   4   31   4   30   0   16   1   24   0   20   4   22   3   18   0   29   0   13   0   3   0   11   0   3   0   11   15   1   13   0   21   1   10   0   2   0   4   0   4   0   8   1   15   1   11   0   2   1   11   0   2   1   11   0   2   1   11   0   4   0   8   1   5   0   10   0   14   4   8   2   12   1   35   3   36   2   41   1   1   1   26   0   40   1   11   1   26   0   40   1   11   1   26   0   9   0   0   4   0   9   0   0   7   1   12   1   12   1   25   5   17   3   26   2   21   1   7   1   1   2   1   25   5   17   3   26   2   21   1   7   1   1   2   1   25   5   17   3   26   2   21   1   7   1   1   2   1   25   5   17   3   26   2   21   1   1   1   1   8   0   9   0   4   4   56   16   100   17   1   18   0   19   0   4   19   7   10   7   11   12   11   1   12   1   13   1   14   3   9   3   17   3   26   2   21   1   11   1   1   2   1   2   3   3   3   3   17   3   2   2   3   3   3   17   3   2   2   4   23   3   3   17   3   2   2   5   3   6   0   3   7   7   7   1   12   7   1   12   7   1   12   7   1   1   7
100 120 120 120 120 120 120 120 120 120	ITGAMATICIAGGAAAAACAG  ATGASAAACAGATTAGAAA  AAAATATAACAAATTAGAAA  AAAATAAAACAAATTAGAAA  AAAATAAAACAAATTAGAAA  AAAATAAAACAAATTAGAAA  AAAATAAAACAAATTAGAAAA  AAAATAAAACAAATTAGAAAA  AAAATAAAACAAATTAGAAAA  AAAATAAACAAATTAGAAAACA  TAAAACAACAATTAGAAAACA  TAAAACAAATTAGAAAACA  TAAAACAAATTAGAAAACA  TAAAACAAATTAGAAAACA  TAAAACAAATTAGAAAACA  TAAAACAAATTAGAAAACA  TAAAACAAATTAGAAAACA  TAAAACAAATTAGAAAACA  TAAAACAAATTAGAAATTAGAAACA  TAAAACAAATTAGAAATTAGAAACA  TAAAACAAATTAGAATTAGAATTAGAACA  TAAAACAAATTAGAATTAGAATTAGAACAACAACAACTAGAATTAGAA	UJUULUALUACAAJACAADUACAAAA  AUUUUUALACAAJACAAAUACACAA  AUUUUUALACAAJACAAUACACAA  AUUUUUALACAUCAAUACACAAUACACAA  AUUUUUAUUUUUUUUUU	SULPAPER   SULPAPER	128         5.66           50         5.95           401         1.00           41         1.00           42         1.00           43         1.00           43         1.00           43         1.00           34         1.00           34         1.00           34         1.00           34         1.00           34         1.00           34         1.00           34         1.00           34         1.00           34         1.00           35         1.00           36         1.00           37         1.00           38         3.00           39         1.00           30         1.00           30         1.00           30         1.00           30         1.00           30         1.00           30         1.00           30         1.00           30         1.00           30         1.00           30         1.00           30         1.00           30		1	O		6		3   60   5   56   4   31   4   30   0   16   1   24   0   20   4   22   3   18   0   29   0   13   0   3   0   11   0   3   0   11   15   1   13   0   21   1   10   0   2   0   4   0   4   0   8   1   15   1   11   0   2   1   11   0   2   1   11   0   2   1   11   0   4   0   8   1   5   0   10   0   14   4   8   2   12   1   35   3   36   2   41   1   1   1   26   0   40   1   11   1   26   0   40   1   11   1   26   0   9   0   0   4   0   9   0   0   7   1   12   1   12   1   25   5   17   3   26   2   21   1   7   1   1   2   1   25   5   17   3   26   2   21   1   7   1   1   2   1   25   5   17   3   26   2   21   1   7   1   1   2   1   25   5   17   3   26   2   21   1   1   1   1   8   0   9   0   4   4   56   16   100   17   1   18   0   19   0   4   19   7   10   7   11   12   11   1   12   1   13   1   14   3   9   3   17   3   26   2   21   1   11   1   1   2   1   2   3   3   3   3   17   3   2   2   3   3   3   17   3   2   2   4   23   3   3   17   3   2   2   5   3   6   0   3   7   7   7   1   12   7   1   12   7   1   12   7   1   1   7
19-19-19-19-19-19-19-19-19-19-19-19-19-1	ITGAMATAIGAGAAAATAGA  AAGAAAACAAATTIAGAAA  AAGAAAACAAATTIAGAAA  AAAAAACAAATTIAGAAA  AAAATAAAACAAATTIAGAAA  AAAATAAACAAATTIAGAAAACA  TAGAAACAAGTITAGAAAACA  TAGAAACAAGTITAGAAAACA  TAGAAACAAGTITAGAAAACA  TAGAAACAAGTITAGAAAACA  TAGAAACAAGTITAGAAAACA  TAGAAACAAGTITAGAAAACA  TAGAAACAAGTITAGAAAACA  TAGAAACAAGTITAGAAAACA  TAGAAACAAGTITAGAAAAACA  TAGAAACAAGTITAGAAAAACA  TAGAAACAAGTITAGAAAAACA  TAGAAACAAGTITAGAATAAAACA  GAAAAATAATAAAATAAGTIGGT  TAGAAATTAGAAAAAATAAGTIGGT  TAGAAATTAGAATTAGAATTIGGT  TAGAAATTAGAATTAGAAATTIGGT  TAGAAATTAGAATTAGAATTIGGT  TAGAAATTAGAATTIGAGAATTIGGT  TAGAAATTAGAATTIGAGAATTIGGT  TAGAAATTAGAATTIGAGAATTIGATAG  TAGAAATTAGAATTIGAGAATTIGAGAATTIGAGAATTIGAGAATTIGAGAATTIGAGAATTIGAGAATTIGAGAATTIGAGAATTIGAGAATTIGAGAATTIGAGAATTIGAGAATTIGAGAATTIGAGAATTIGAGAATTIGAGAATTITAGATTIGAGAATTITAGATTIGAGAAAAATTITTAGAGAAAAAAATTITTAGAGAAAAAAAA	UJUULUGUAGAAAAUUUUUU  UJUULUGUAGAAAUUUUUUU  UJUULUGUAGAAUUUUUUU  UJUULUGUAGAAUUUUUUUU  UJUULUGAAUUUUUUUUU  UJUULUGAAUUUUUUUUUU  UJUULUGAAUUUUUUUUUU  UJUULUGAAUUUUUUUUUU  UJUULUGAAUUUUUUUUUUU  UJUULUGAAUUUUUUUUUUU  UJUULUGAAUUUUUUUUUUU  UJUULUGAAUUUUUUUUUUUUU  UJUULUGAAUUUUUUUUUUUUUUUUUUUUU  UJUULUGAAUUUGAAUUUUUUUUU  UJUULUGAAUUUGAAUUUUUUUUUUUUUUUUUUUUUUUUU	SULPHISON CONTINUES			3	O		6		3   60   5   56   4   31   4   30   0   16   1   24   0   20   4   22   3   18   0   29   0   13   0   3   0   11   0   3   0   11   15   1   13   0   21   1   10   0   2   0   4   0   4   0   8   1   15   1   11   0   2   1   11   0   2   1   11   0   2   1   11   0   4   0   8   1   5   0   10   0   14   4   8   2   12   1   35   3   36   2   41   1   1   1   26   0   40   1   11   1   26   0   40   1   11   1   26   0   9   0   0   4   0   9   0   0   7   1   12   1   12   1   25   5   17   3   26   2   21   1   7   1   1   2   1   25   5   17   3   26   2   21   1   7   1   1   2   1   25   5   17   3   26   2   21   1   7   1   1   2   1   25   5   17   3   26   2   21   1   1   1   1   8   0   9   0   4   4   56   16   100   17   1   18   0   19   0   4   19   7   10   7   11   12   11   1   12   1   13   1   14   3   9   3   17   3   26   2   21   1   11   1   1   2   1   2   3   3   3   3   17   3   2   2   3   3   3   17   3   2   2   4   23   3   3   17   3   2   2   5   3   6   0   3   7   7   7   1   12   7   1   12   7   1   12   7   1   1   7