

USS1_BWaseMeDip Report

methy1QA* version 0.1.6 (r040)

September 3, 2016

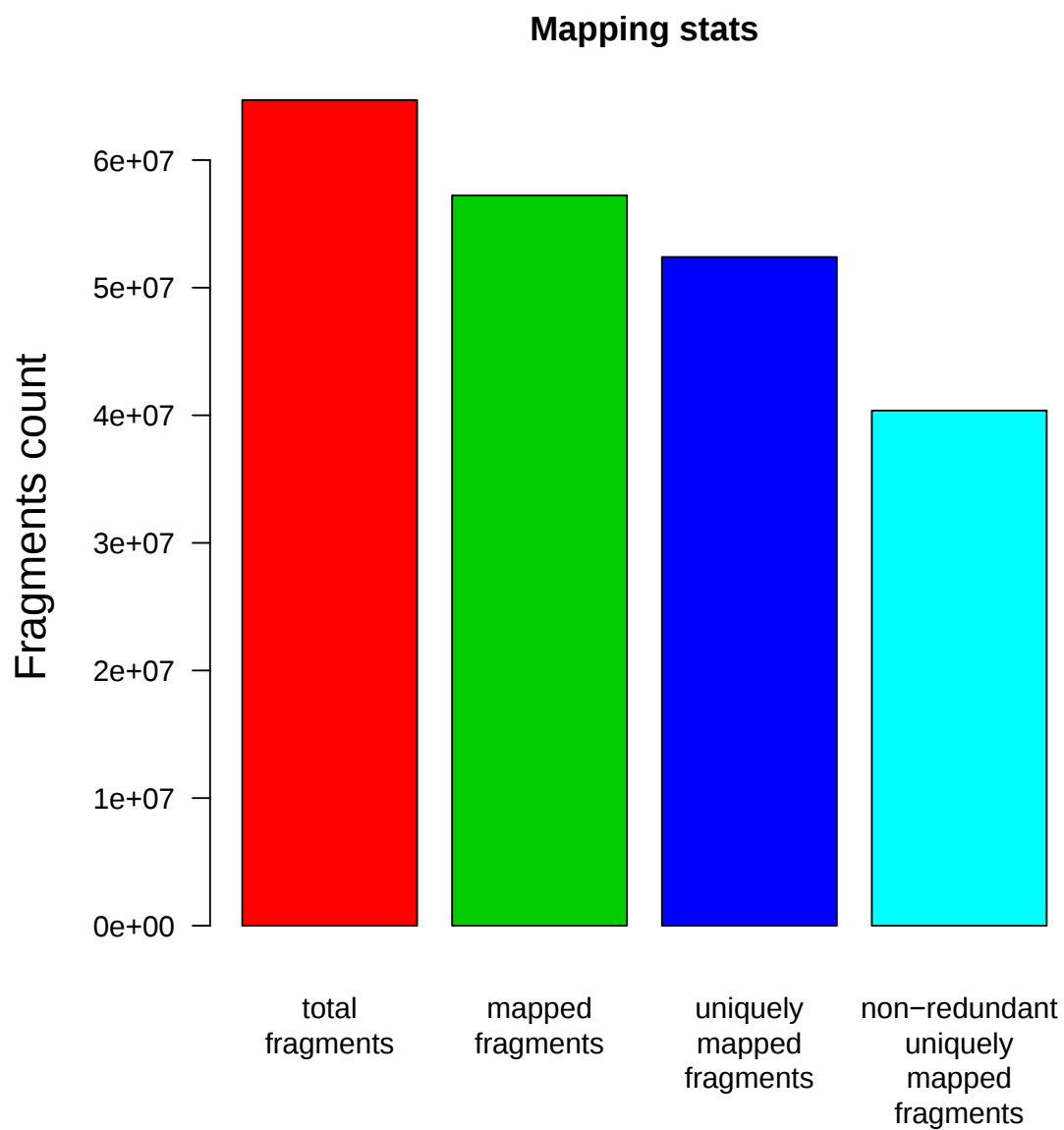
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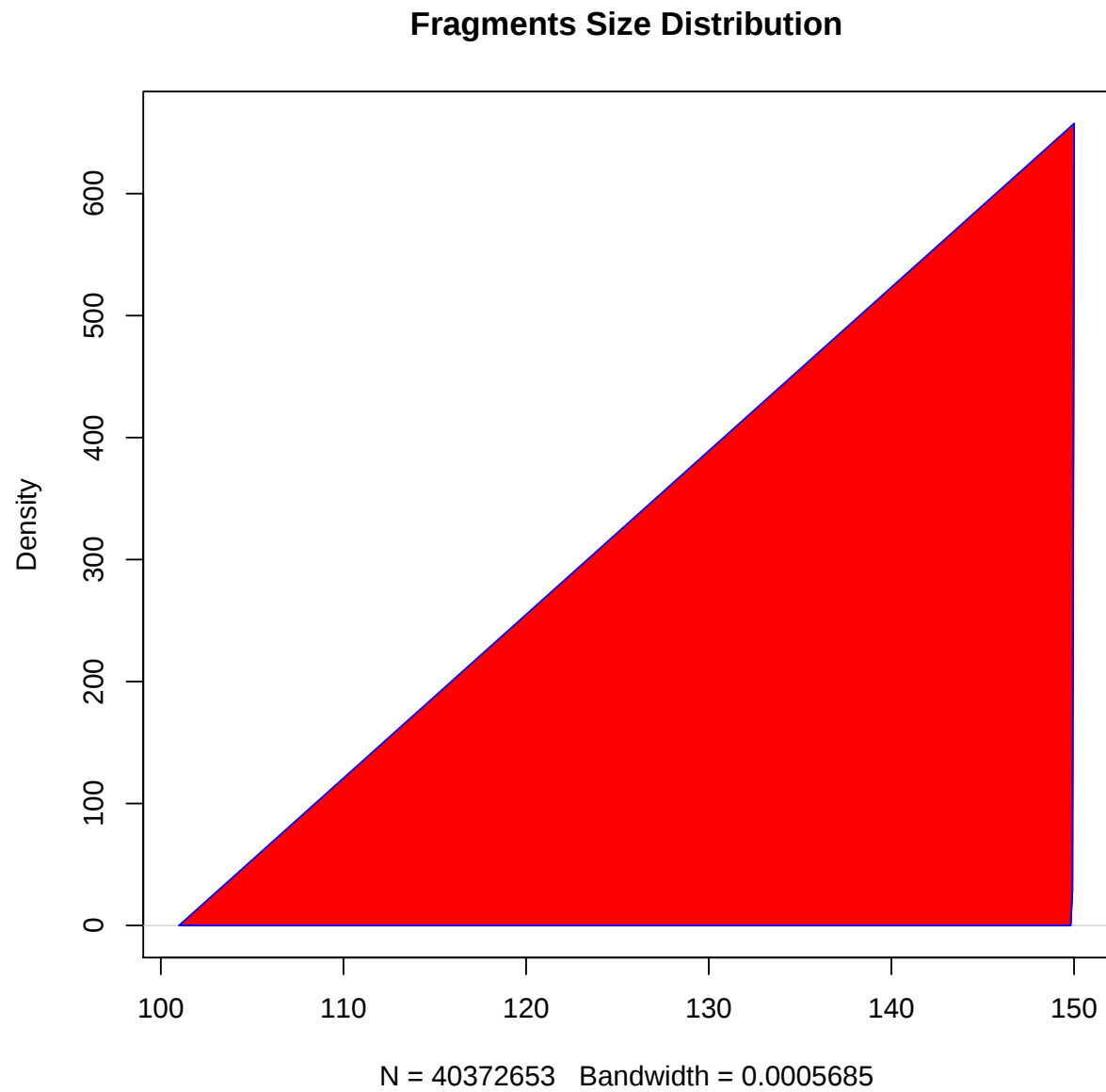
*Website: <http://methy1QA.sourceforge.net/>

1 Mapping status

total fragments	64705379
mapped fragments	57237572
uniquely mapped fragments	52402177
non-redundant uniquely mapped fragments	40372653

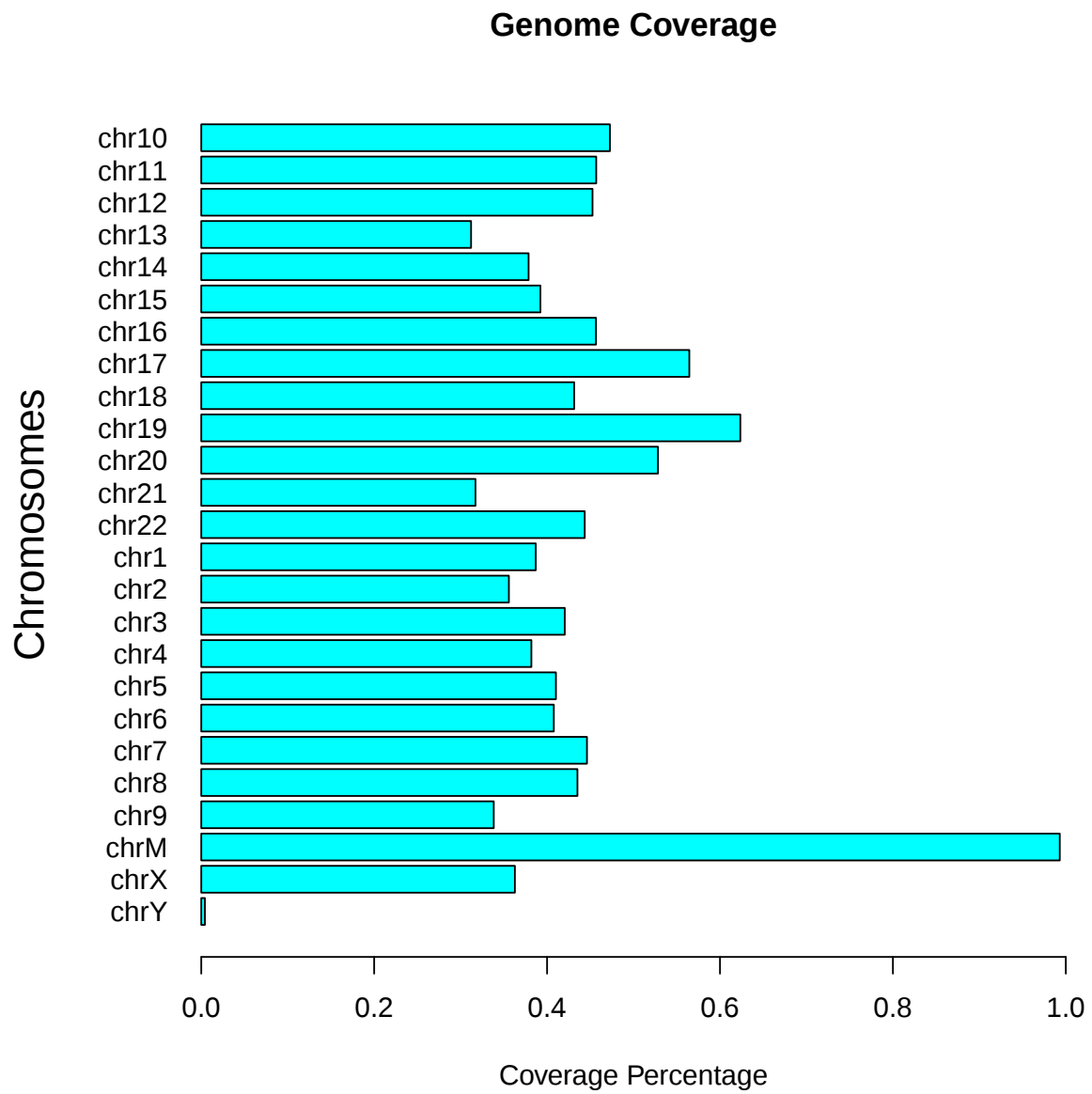


2 Fragments size distribution



3 Genomic coverage

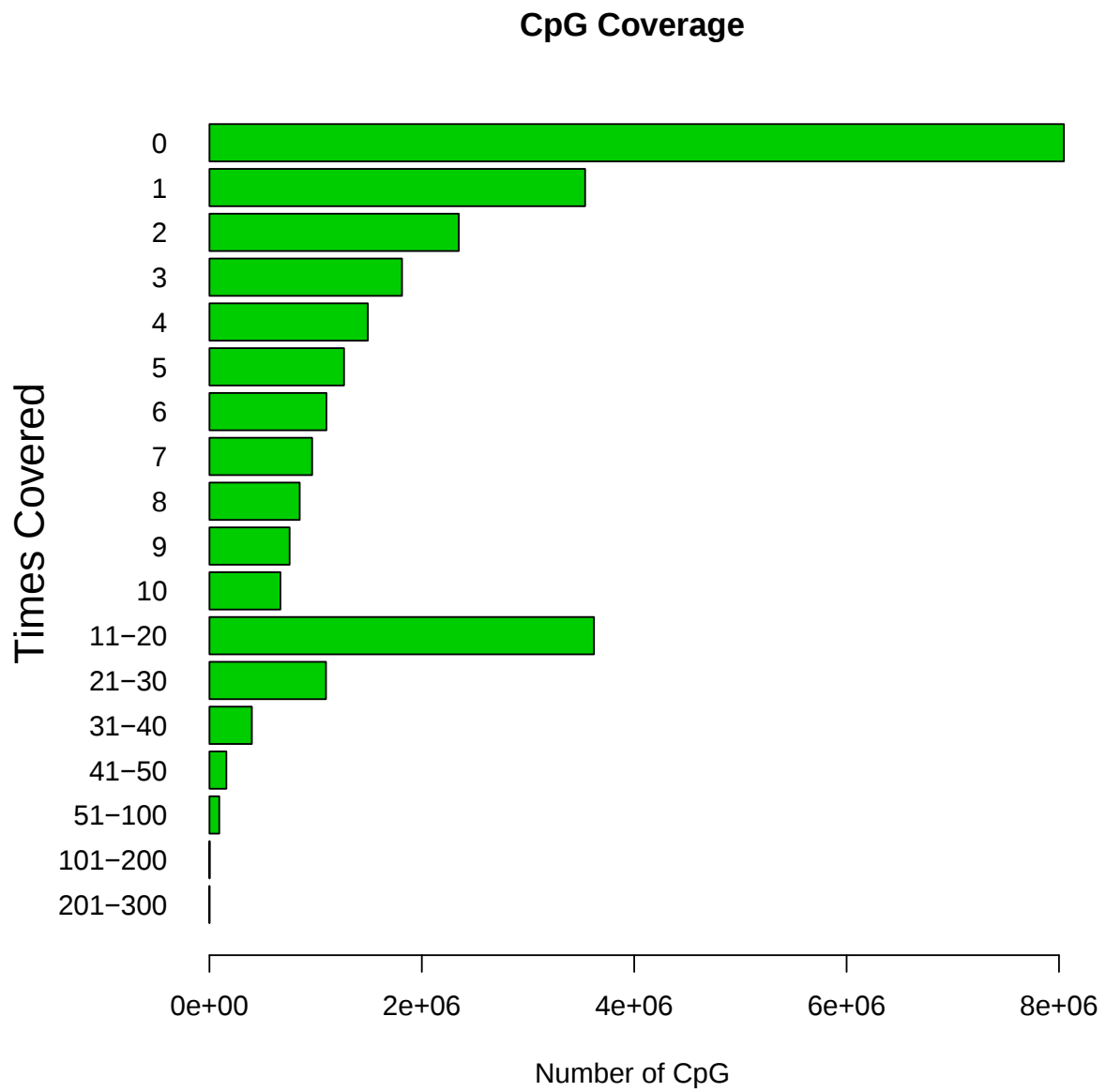
chromosome	total base	covered base	covered percentage
chr10	135534747	64065897	47.27%
chr11	135006516	61675602	45.68%
chr12	133851895	60573985	45.25%
chr13	115169878	35940582	31.21%
chr14	107349540	40644402	37.86%
chr15	102531392	40220883	39.23%
chr16	90354753	41254781	45.66%
chr17	81195210	45835140	56.45%
chr18	78077248	33677903	43.13%
chr19	59128983	36868654	62.35%
chr20	63025520	33295021	52.83%
chr21	48129895	15265558	31.72%
chr22	51304566	22756478	44.36%
chr1	249250621	96437414	38.69%
chr2	243199373	86534505	35.58%
chr3	198022430	83262774	42.05%
chr4	191154276	72990069	38.18%
chr5	180915260	74214730	41.02%
chr6	171115067	69777961	40.78%
chr7	159138663	70992385	44.61%
chr8	146364022	63683908	43.51%
chr9	141213431	47772652	33.83%
chrM	16571	16455	99.30%
chrX	155270560	56326812	36.28%
chrY	59373566	249611	0.42%
Whole Genome	3095693983	1254334162	40.52%



4 CpG status

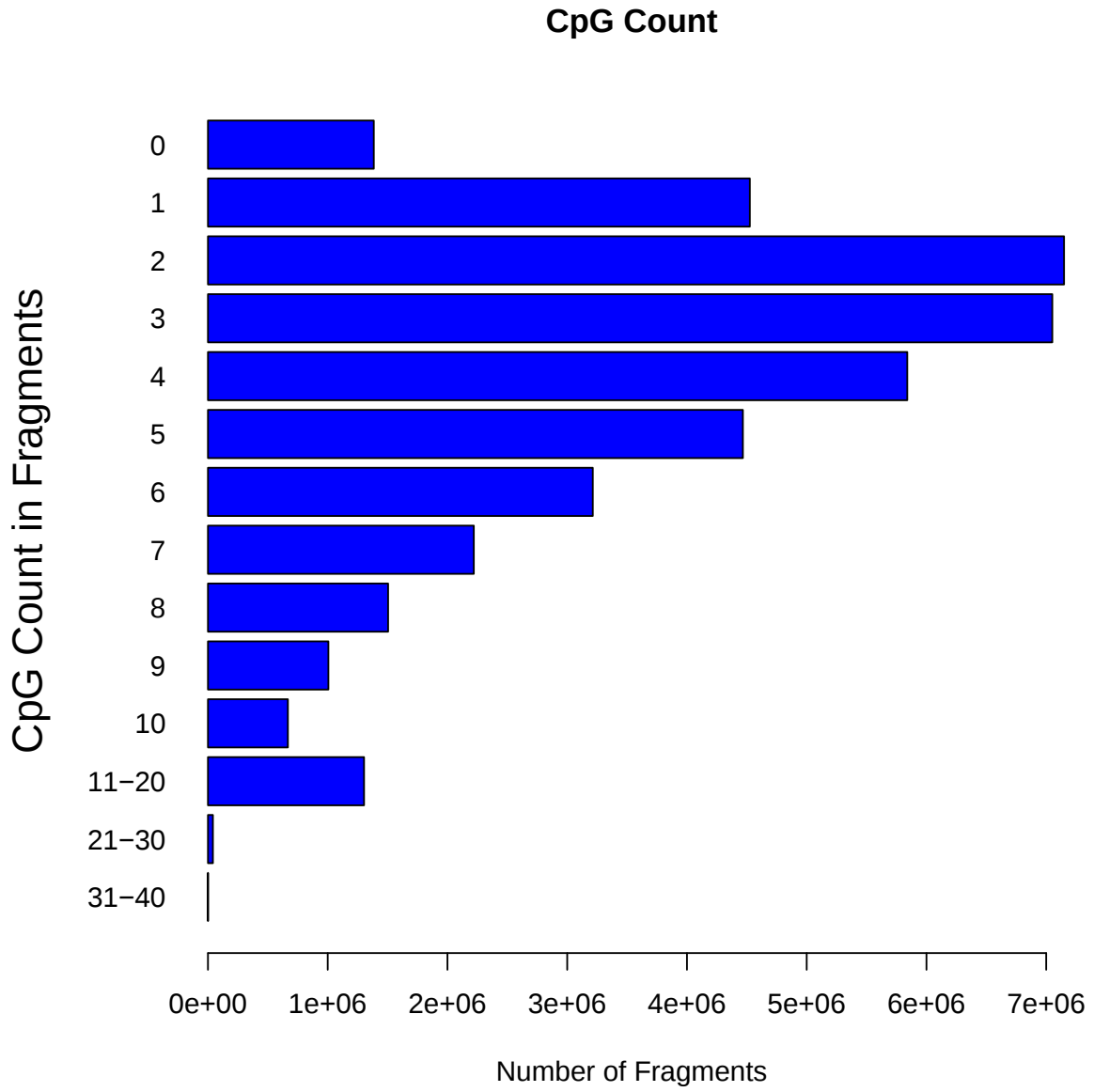
4.1 CpG coverage

Range	Count
0	8046458
1	3537509
2	2347935
3	1813300
4	1491614
5	1267099
6	1101598
7	966941
8	849932
9	754993
10	668327
11-20	3621203
21-30	1097514
31-40	399154
41-50	159209
51-100	92361
101-200	1997
201-300	304



4.2 CpG count

Range	Count
0	1384834
1	4525050
2	7149107
3	7050847
4	5839885
5	4467024
6	3213594
7	2220145
8	1504274
9	1005599
10	667351
11-20	1303329
21-30	41236
31-40	378



5 CpG enrichment

$$\begin{aligned}
 \text{CpG enrichment} &= \frac{\text{CpG count in fragments} / \text{total base of fragments}}{\text{CpG count in genome} / \text{total base of genome}} \\
 &= \frac{166048432 / 6055897398}{28217448 / 3095693983}
 \end{aligned}$$

$$= 3.01$$