

USS3_BWaseMeDip Report

methy1QA* version 0.1.6 (r040)

September 4, 2016

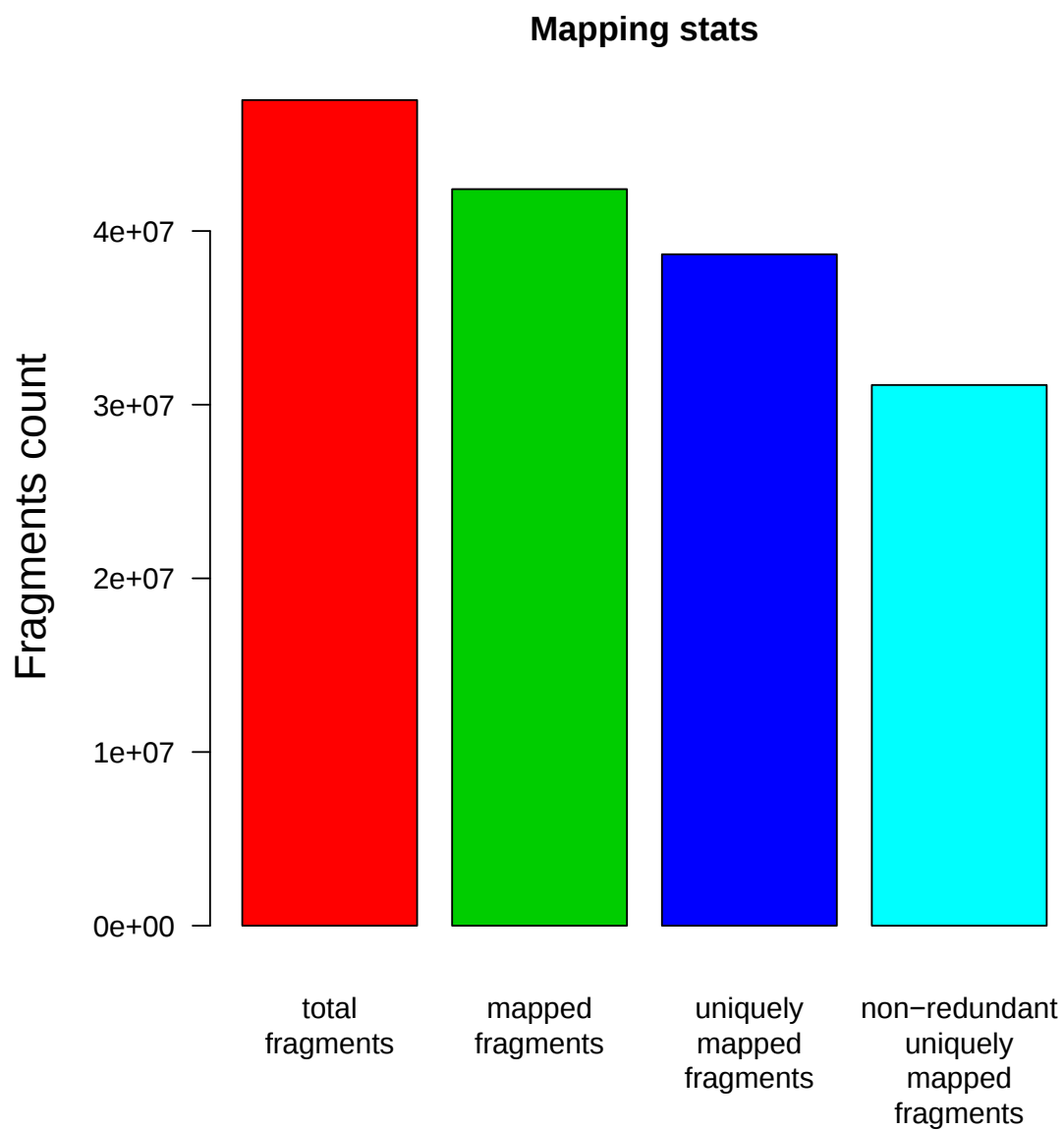
Contents

1	Mapping status	1
2	Fragments size distribution	2
3	Genomic coverage	3
4	CpG status	5
4.1	CpG coverage	5
4.2	CpG count	7
5	CpG enrichment	8

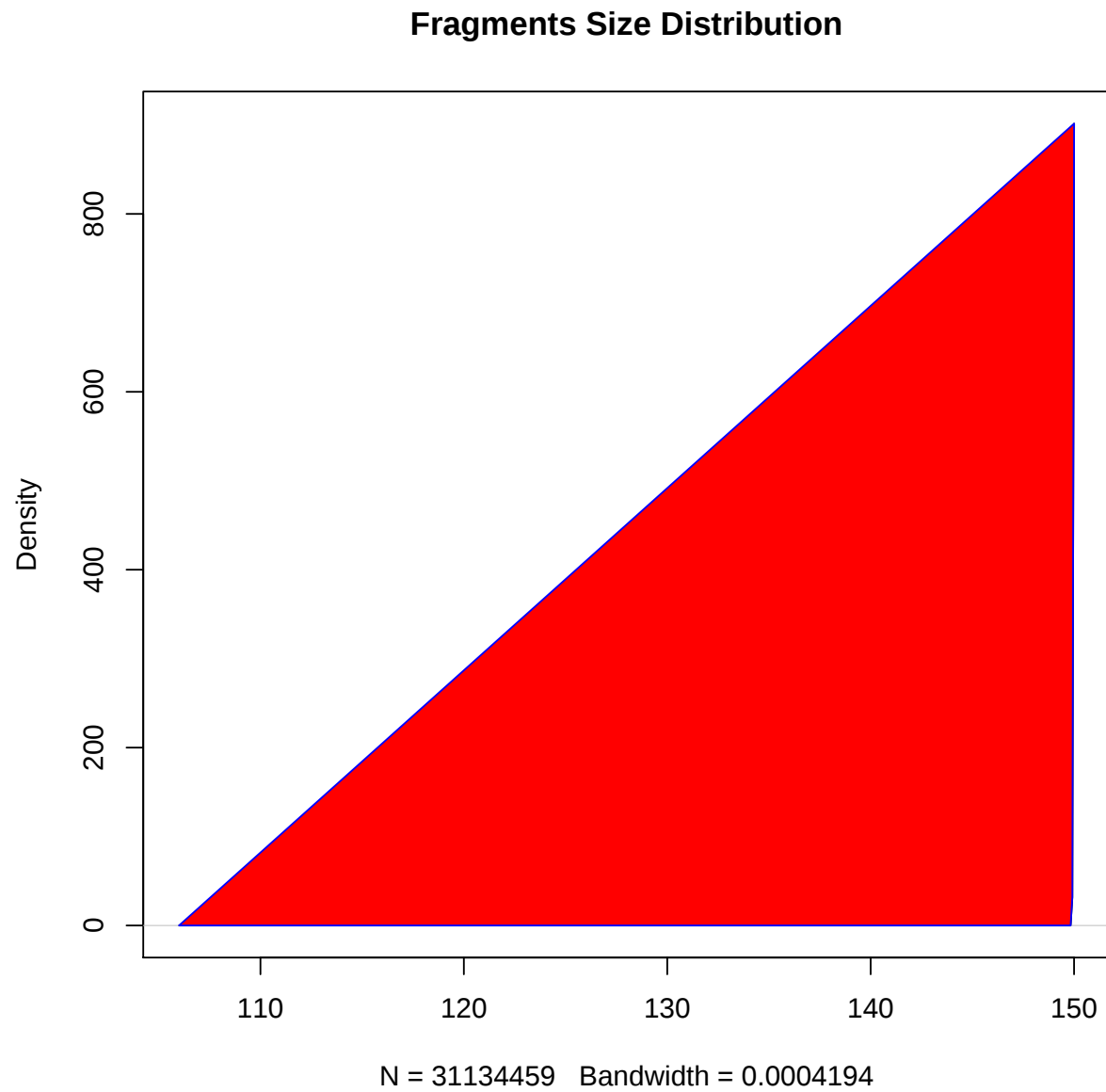
*Website: <http://methy1QA.sourceforge.net/>

1 Mapping status

total fragments	47541666
mapped fragments	42411744
uniquely mapped fragments	38658768
non-redundant uniquely mapped fragments	31134459

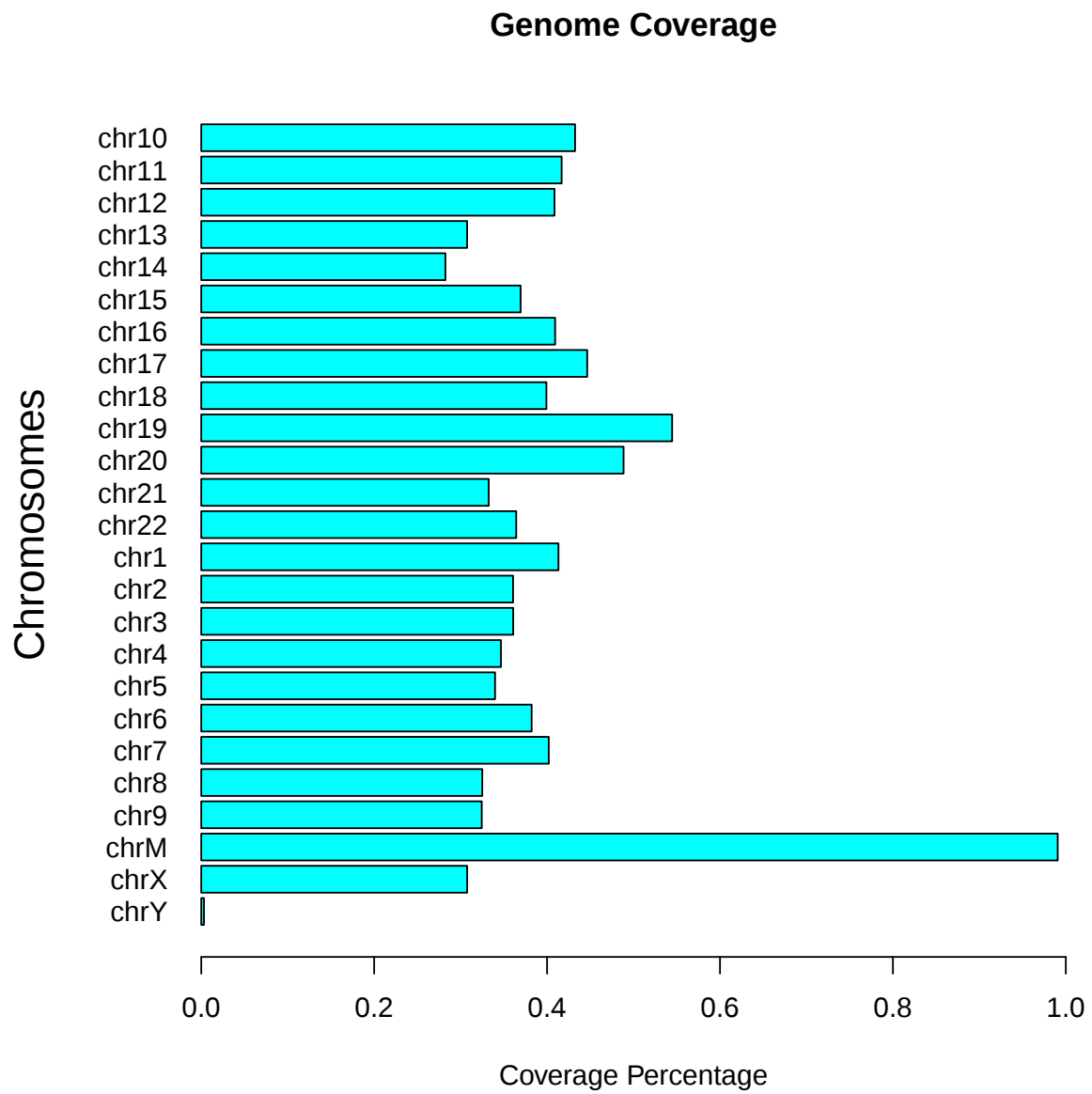


2 Fragments size distribution



3 Genomic coverage

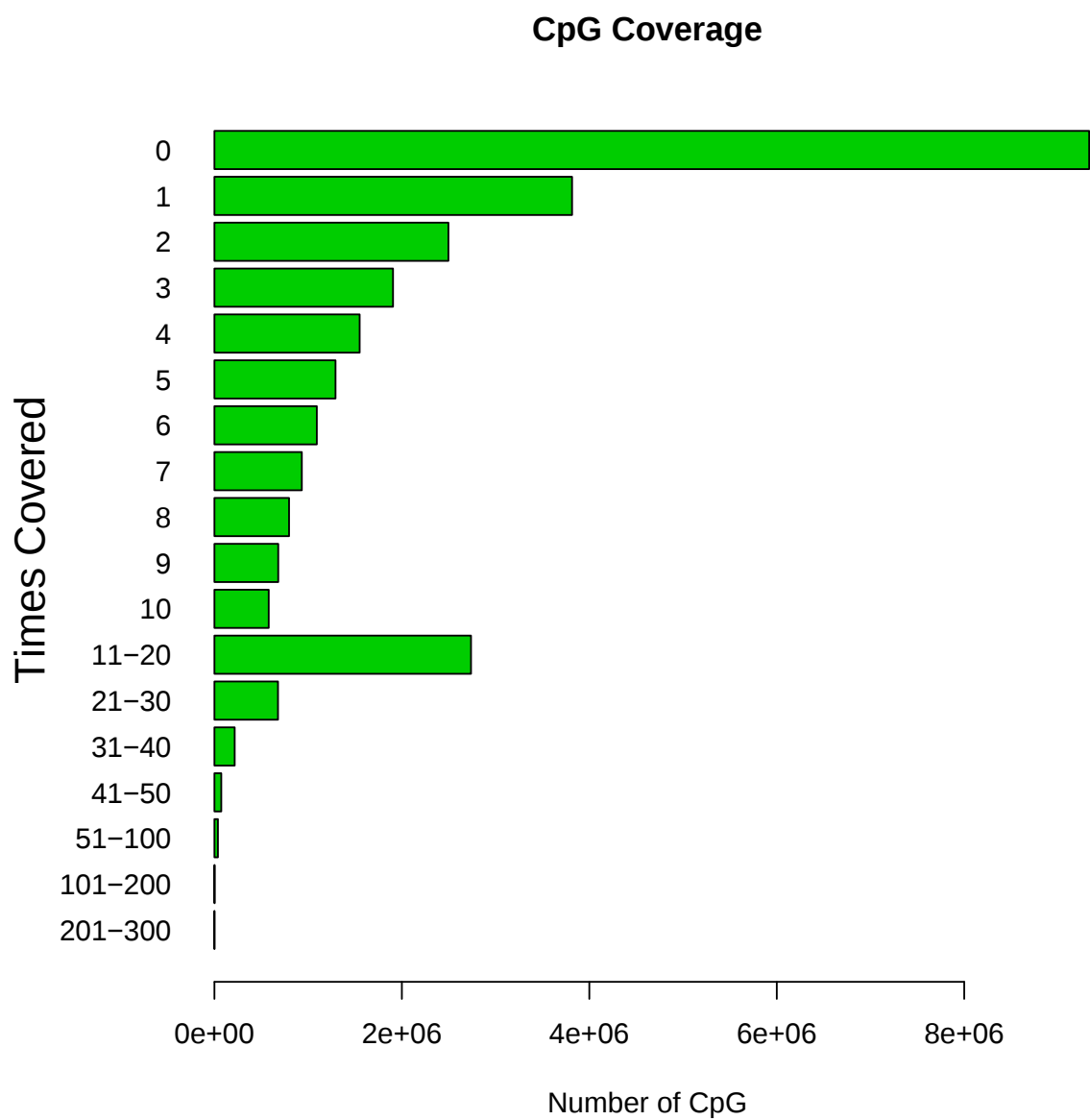
chromosome	total base	covered base	covered percentage
chr10	135534747	58598210	43.23%
chr11	135006516	56272825	41.68%
chr12	133851895	54694294	40.86%
chr13	115169878	35418292	30.75%
chr14	107349540	30315063	28.24%
chr15	102531392	37871854	36.94%
chr16	90354753	36981937	40.93%
chr17	81195210	36245965	44.64%
chr18	78077248	31169311	39.92%
chr19	59128983	32203484	54.46%
chr20	63025520	30787105	48.85%
chr21	48129895	16003850	33.25%
chr22	51304566	18689790	36.43%
chr1	249250621	102980941	41.32%
chr2	243199373	87705936	36.06%
chr3	198022430	71447270	36.08%
chr4	191154276	66263749	34.67%
chr5	180915260	61478863	33.98%
chr6	171115067	65389156	38.21%
chr7	159138663	63967360	40.20%
chr8	146364022	47575104	32.50%
chr9	141213431	45812082	32.44%
chrM	16571	16416	99.06%
chrX	155270560	47758303	30.76%
chrY	59373566	184747	0.31%
Whole Genome	3095693983	1135831907	36.69%



4 CpG status

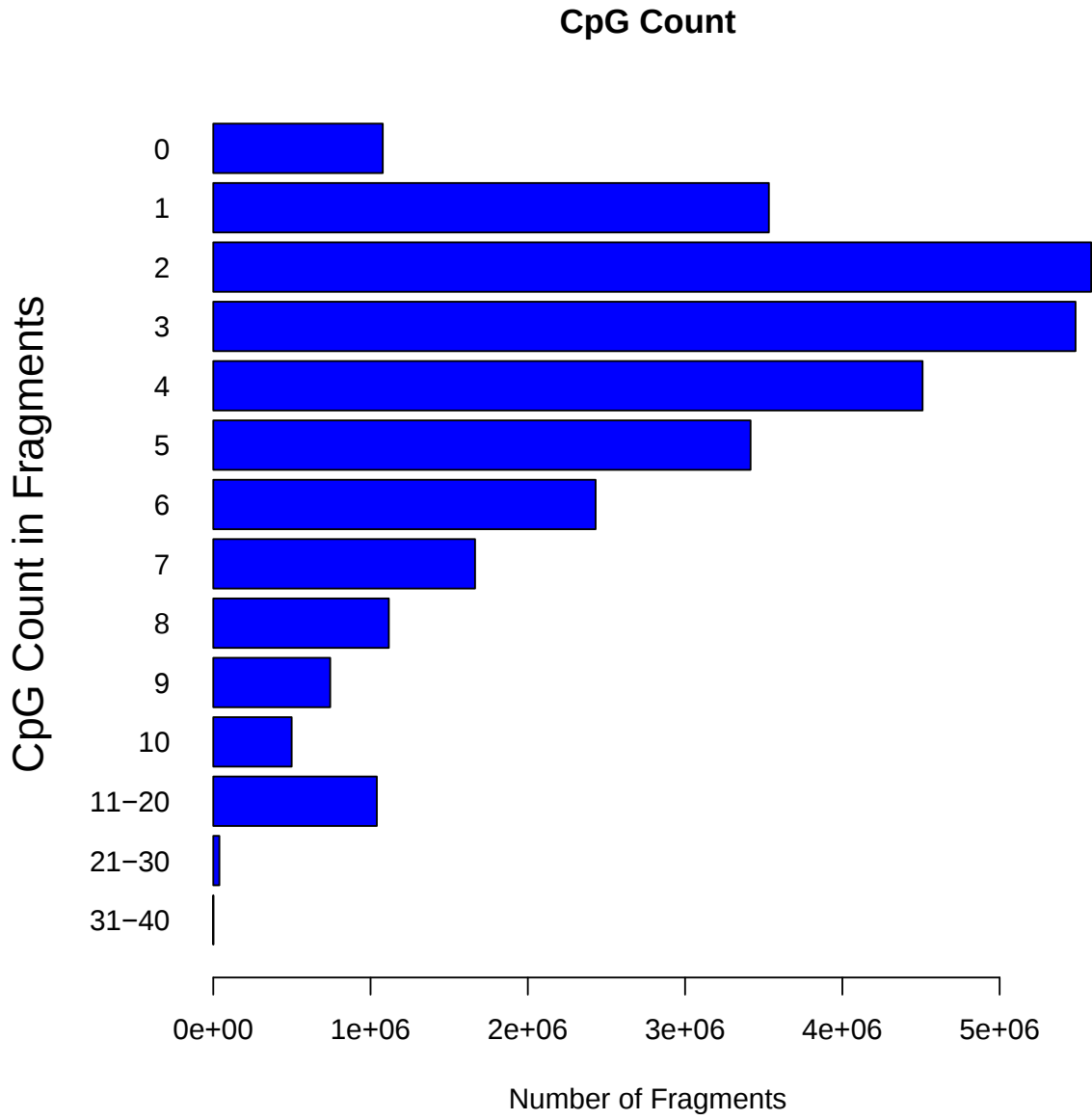
4.1 CpG coverage

Range	Count
0	9332950
1	3815599
2	2496328
3	1905362
4	1549485
5	1291886
6	1092497
7	932402
8	796293
9	680694
10	579370
11-20	2737730
21-30	678193
31-40	216084
41-50	73155
51-100	37206
101-200	1978
201-300	236



4.2 CpG count

Range	Count
0	1077806
1	3532683
2	5581940
3	5482636
4	4509929
5	3416256
6	2431137
7	1664492
8	1116215
9	743590
10	498421
11-20	1040153
21-30	38915
31-40	286



5 CpG enrichment

$$\begin{aligned}
 \text{CpG enrichment} &= \frac{\text{CpG count in fragments} / \text{total base of fragments}}{\text{CpG count in genome} / \text{total base of genome}} \\
 &= \frac{127625453 / 4670168659}{28217448 / 3095693983}
 \end{aligned}$$

$$= 3.00$$