

What Raw data Looks Like

Below is a picture of the raw data downloaded from a noise monitor.

The data is received at a rate of 1 noise sample per second.

The data has been sorted into ascending order from lowest to highest and grouped into 6 columns of 10 minute periods

In one 10 minute period there are 600 noise samples. ((1 per sec = 60 each min x 10 minutes = 600 samples)

Scroll down to page 2 for the 60th sample. (highlighted in yellow).

This is 1/10th of the way through the data.

This is the LA90 noise level.

At this noise level, 10% of the noise is lower and 90% of the noise is higher.

Data Point – Dot on a Scatter Graph

A data point/dot represents 10 minutes of continuous noise monitoring.

Each of the columns of 600 noise samples represents 1 data point. (6 data points were obtained in 1 hour)

LA90 noise level

The LA90 noise level of each of the columns is the noise sample where 10% of the noise is lower and 90% is higher.

53.5 53.6 52.2 50.8 52.1 54.7

53.5dB (LA90) 53.6dB (LA90) 52.2dB (LA90) 50.8dB (LA90) 52.1dB (LA90) 54.7dB (LA90)

Wind Farm Companies never hand over the Raw Data.

Raw Data files are large and can only be given to you on a USB drive (flash drive / memory stick).

The glossy reports wf companies provide is NOT the “Raw Data”.

Both Noise and Wind raw data must be provided in easily verifiable form: *.rpt.txt or *.xlsx file format.

Below is a picture of the raw data collected from a home 4km from the Macarthur wind farm.

Date: 05/06/2021, at 12.00 Midday. Wind speed 9.17 m/sec. Wind direction NNE.

Number	dB sorted	dB sorted	dB sorted	dB sorted	dB sorted	dB sorted
1	52.1	50.9	48.4	48.3	49	51.4
2	52.2	51	48.4	48.5	49	51.7
3	52.2	51.1	48.6	48.6	50.3	51.9
4	52.2	51.2	48.6	48.7	50.4	51.9
5	52.2	51.2	48.7	48.7	50.4	51.9
6	52.4	51.3	48.9	48.7	50.5	52
7	52.4	51.4	48.9	48.7	50.5	52.1
8	52.5	51.4	48.9	48.8	50.5	52.1
9	52.5	51.5	49	48.9	50.5	52.2
10	52.6	51.5	49.1	48.9	50.6	52.2

11	52.6	51.8	49.1	48.9	50.6	52.3
12	52.6	51.8	49.1	49.2	50.6	52.3
13	52.6	51.8	49.1	49.5	50.8	52.4
14	52.6	51.9	49.1	49.5	50.8	52.4
15	52.6	51.9	49.2	49.6	50.9	52.5
16	52.6	51.9	49.2	49.6	51	52.6
17	52.7	52	49.5	49.7	51	52.6
18	52.8	52.1	49.7	49.7	51	52.6
19	52.8	52.1	49.9	49.8	51.1	52.7
20	52.8	52.2	49.9	49.9	51.1	52.8
21	52.8	52.2	49.9	49.9	51.2	52.8
22	52.8	52.3	49.9	49.9	51.2	53
23	52.9	52.4	49.9	49.9	51.2	53
24	53	52.4	50.2	49.9	51.3	53.2
25	53	52.5	50.3	49.9	51.3	53.3
26	53	52.6	50.3	49.9	51.3	53.4
27	53	52.6	50.3	49.9	51.3	53.4
28	53	52.6	50.4	49.9	51.4	53.4
29	53	52.7	50.5	49.9	51.4	53.4
30	53	52.7	50.5	50.2	51.4	53.5
31	53	52.8	50.5	50.2	51.4	53.5
32	53	52.8	50.6	50.2	51.5	53.6
33	53	52.9	50.8	50.2	51.5	53.7
34	53	52.9	50.9	50.3	51.5	53.7
35	53	52.9	50.9	50.3	51.5	53.8
36	53	53	51	50.3	51.6	53.9
37	53	53	51.1	50.3	51.7	54
38	53.2	53	51.1	50.3	51.7	54
39	53.2	53	51.1	50.3	51.7	54
40	53.2	53	51.1	50.3	51.7	54
41	53.2	53	51.1	50.4	51.7	54.1
42	53.2	53.2	51.1	50.5	51.7	54.1
43	53.2	53.2	51.1	50.5	51.7	54.1
44	53.2	53.2	51.1	50.5	51.8	54.2
45	53.2	53.2	51.3	50.5	51.8	54.2
46	53.2	53.2	51.5	50.5	51.8	54.2
47	53.2	53.2	51.5	50.6	51.8	54.3
48	53.3	53.3	51.5	50.6	51.8	54.3
49	53.3	53.3	51.5	50.6	51.8	54.4
50	53.4	53.3	51.5	50.6	51.8	54.4
51	53.4	53.3	51.8	50.6	51.8	54.4
52	53.4	53.3	51.9	50.6	51.9	54.4
53	53.4	53.4	51.9	50.7	51.9	54.4
54	53.4	53.4	51.9	50.7	51.9	54.4
55	53.4	53.4	52	50.7	51.9	54.5
56	53.4	53.4	52	50.8	51.9	54.5
57	53.4	53.4	52	50.8	51.9	54.6
58	53.4	53.5	52.1	50.8	52	54.6
59	53.4	53.6	52.1	50.8	52	54.6
dB(LA90) 60	53.5	53.6	52.2	50.8	52.1	54.7
61	53.5	53.6	52.2	50.8	52.1	54.8
62	53.5	53.7	52.3	50.8	52.1	54.8
63	53.6	53.7	52.3	50.8	52.1	54.8

64	53.6	53.7	52.5	50.8	52.1	54.8
65	53.6	53.8	52.5	50.8	52.1	54.8
66	53.6	53.8	52.5	50.9	52.1	54.8
67	53.6	53.8	52.6	50.9	52.2	54.9
68	53.7	53.8	52.6	50.9	52.2	54.9
69	53.7	53.8	52.7	50.9	52.2	54.9
70	53.7	53.9	52.7	50.9	52.2	55
71	53.8	53.9	52.8	50.9	52.3	55
72	53.8	54	53	51	52.3	55
73	53.8	54.1	53	51	52.3	55
74	53.8	54.2	53.2	51	52.3	55
75	53.8	54.2	53.2	51.1	52.3	55
76	53.8	54.2	53.4	51.1	52.4	55.1
77	53.8	54.2	53.4	51.1	52.4	55.1
78	53.8	54.2	53.4	51.1	52.4	55.1
79	53.8	54.2	53.5	51.1	52.4	55.1
80	53.8	54.3	53.5	51.1	52.5	55.1
81	53.8	54.4	53.6	51.2	52.5	55.1
82	53.9	54.4	53.6	51.2	52.5	55.2
83	54	54.4	53.6	51.2	52.5	55.2
84	54	54.4	53.7	51.2	52.5	55.2
85	54	54.4	53.7	51.3	52.6	55.2
86	54	54.4	53.7	51.3	52.6	55.2
87	54	54.5	53.7	51.3	52.6	55.2
88	54	54.5	53.8	51.4	52.6	55.2
89	54	54.5	53.8	51.4	52.6	55.2
90	54.1	54.6	53.9	51.4	52.6	55.2
91	54.1	54.6	54	51.4	52.6	55.2
92	54.1	54.6	54	51.5	52.6	55.3
93	54.1	54.6	54	51.6	52.6	55.3
94	54.2	54.6	54	51.6	52.7	55.3
95	54.2	54.6	54	51.7	52.8	55.3
96	54.2	54.6	54.1	51.7	52.8	55.4
97	54.2	54.6	54.2	51.8	52.8	55.4
98	54.2	54.6	54.2	51.9	52.8	55.4
99	54.2	54.6	54.2	51.9	52.8	55.4
100	54.2	54.6	54.2	52	52.8	55.4
101	54.2	54.6	54.2	52	52.8	55.4
102	54.3	54.7	54.2	52.1	52.9	55.4
103	54.4	54.7	54.2	52.1	52.9	55.4
104	54.4	54.8	54.3	52.1	52.9	55.5
105	54.4	54.8	54.3	52.2	53	55.5
106	54.4	54.8	54.3	52.2	53	55.5
107	54.4	54.8	54.3	52.2	53	55.5
108	54.4	54.8	54.3	52.3	53	55.6
109	54.4	54.9	54.4	52.3	53	55.6
110	54.4	54.9	54.4	52.3	53	55.6
111	54.5	54.9	54.4	52.4	53	55.6
112	54.5	54.9	54.4	52.5	53	55.6
113	54.5	54.9	54.5	52.5	53.2	55.6
114	54.5	54.9	54.5	52.5	53.2	55.6
115	54.5	54.9	54.5	52.5	53.2	55.7
116	54.5	54.9	54.5	52.6	53.2	55.7

117	54.5	55	54.5	52.6	53.2	55.7
118	54.6	55	54.6	52.6	53.2	55.7
119	54.6	55	54.6	52.6	53.2	55.7
120	54.6	55.1	54.6	52.6	53.2	55.7
121	54.6	55.1	54.6	52.6	53.2	55.8
122	54.6	55.1	54.6	52.6	53.2	55.8
123	54.6	55.1	54.6	52.6	53.2	55.8
124	54.6	55.2	54.6	52.8	53.2	55.8
125	54.6	55.2	54.6	52.8	53.3	55.8
126	54.6	55.3	54.6	52.8	53.3	55.8
127	54.6	55.3	54.6	52.8	53.4	55.8
128	54.6	55.4	54.6	52.8	53.4	55.8
129	54.6	55.4	54.6	52.9	53.4	55.9
130	54.6	55.4	54.6	52.9	53.4	55.9
131	54.6	55.4	54.6	52.9	53.4	55.9
132	54.6	55.4	54.8	52.9	53.5	55.9
133	54.6	55.4	54.8	53	53.5	56
134	54.6	55.4	54.8	53	53.5	56
135	54.8	55.4	54.8	53	53.5	56
136	54.8	55.4	54.8	53	53.5	56
137	54.8	55.5	54.8	53	53.6	56.1
138	54.8	55.5	54.8	53	53.6	56.1
139	54.8	55.5	54.8	53	53.6	56.1
140	54.8	55.5	54.8	53	53.6	56.1
141	54.8	55.5	54.9	53	53.6	56.2
142	54.9	55.5	54.9	53	53.6	56.2
143	54.9	55.5	54.9	53	53.6	56.2
144	54.9	55.5	54.9	53	53.7	56.2
145	54.9	55.5	54.9	53	53.7	56.2
146	54.9	55.6	54.9	53.2	53.7	56.2
147	54.9	55.6	54.9	53.2	53.7	56.2
148	54.9	55.6	54.9	53.2	53.7	56.2
149	54.9	55.6	55	53.2	53.7	56.2
150	54.9	55.6	55	53.2	53.8	56.2
151	54.9	55.6	55	53.2	53.8	56.2
152	55	55.6	55	53.2	53.8	56.4
153	55	55.6	55	53.2	53.8	56.4
154	55	55.6	55	53.2	53.8	56.4
155	55	55.6	55	53.3	53.8	56.4
156	55	55.6	55	53.3	53.8	56.5
157	55	55.7	55	53.3	53.8	56.5
158	55	55.7	55	53.3	53.9	56.5
159	55	55.7	55	53.3	53.9	56.5
160	55	55.7	55	53.3	54	56.5
161	55	55.7	55	53.4	54	56.6
162	55	55.7	55.1	53.4	54	56.6
163	55	55.8	55.1	53.4	54.1	56.6
164	55	55.8	55.1	53.4	54.1	56.6
165	55	55.8	55.1	53.4	54.1	56.6
166	55	55.8	55.1	53.4	54.1	56.6
167	55	55.8	55.1	53.4	54.1	56.6
168	55.1	55.9	55.1	53.4	54.1	56.7
169	55.1	55.9	55.1	53.4	54.1	56.7

170	55.1	55.9	55.1	53.4	54.1	56.8
171	55.1	55.9	55.2	53.5	54.1	56.8
172	55.1	55.9	55.2	53.5	54.1	56.8
173	55.1	55.9	55.2	53.5	54.2	56.8
174	55.1	55.9	55.2	53.6	54.2	56.8
175	55.2	55.9	55.3	53.6	54.2	56.8
176	55.2	56	55.3	53.6	54.2	56.8
177	55.2	56	55.3	53.6	54.2	56.8
178	55.2	56	55.3	53.6	54.2	56.8
179	55.2	56	55.3	53.6	54.2	56.8
180	55.2	56	55.3	53.6	54.2	56.8
181	55.2	56	55.3	53.6	54.3	56.8
182	55.2	56	55.3	53.6	54.3	56.9
183	55.2	56	55.3	53.6	54.3	56.9
184	55.2	56	55.3	53.6	54.3	56.9
185	55.2	56	55.3	53.7	54.3	56.9
186	55.2	56.1	55.3	53.7	54.4	56.9
187	55.2	56.1	55.3	53.7	54.4	56.9
188	55.3	56.1	55.3	53.7	54.4	56.9
189	55.3	56.1	55.3	53.7	54.4	56.9
190	55.3	56.1	55.3	53.7	54.4	57
191	55.3	56.2	55.4	53.7	54.4	57.1
192	55.3	56.2	55.4	53.7	54.4	57.1
193	55.3	56.2	55.4	53.7	54.5	57.1
194	55.3	56.2	55.4	53.8	54.5	57.1
195	55.3	56.2	55.4	53.8	54.5	57.1
196	55.3	56.2	55.4	53.8	54.6	57.1
197	55.3	56.2	55.4	53.8	54.6	57.1
198	55.3	56.2	55.4	53.8	54.6	57.1
199	55.3	56.2	55.4	53.8	54.6	57.1
200	55.3	56.2	55.4	53.8	54.6	57.1
201	55.4	56.2	55.4	53.8	54.6	57.2
202	55.4	56.2	55.4	53.8	54.6	57.2
203	55.4	56.2	55.5	53.8	54.6	57.2
204	55.4	56.4	55.5	53.8	54.6	57.2
205	55.4	56.4	55.5	53.8	54.6	57.2
206	55.4	56.4	55.5	53.8	54.6	57.3
207	55.4	56.4	55.6	53.8	54.6	57.3
208	55.4	56.4	55.6	53.9	54.6	57.3
209	55.4	56.4	55.6	53.9	54.6	57.3
210	55.4	56.5	55.6	53.9	54.6	57.3
211	55.4	56.5	55.6	53.9	54.6	57.3
212	55.4	56.5	55.6	53.9	54.6	57.3
213	55.4	56.5	55.6	53.9	54.6	57.3
214	55.5	56.5	55.6	54	54.7	57.3
215	55.5	56.6	55.6	54	54.7	57.3
216	55.5	56.6	55.6	54	54.7	57.3
217	55.5	56.6	55.6	54	54.8	57.3
218	55.5	56.6	55.6	54	54.8	57.3
219	55.5	56.6	55.6	54	54.8	57.3
220	55.5	56.6	55.7	54	54.8	57.3
221	55.5	56.6	55.7	54	54.8	57.3
222	55.5	56.6	55.7	54	54.8	57.4

223	55.6	56.6	55.7	54.1	54.8	57.4
224	55.6	56.6	55.7	54.1	54.8	57.4
225	55.6	56.6	55.7	54.1	54.8	57.4
226	55.6	56.7	55.7	54.1	54.8	57.4
227	55.6	56.7	55.7	54.1	54.9	57.4
228	55.6	56.7	55.7	54.1	54.9	57.5
229	55.6	56.7	55.7	54.1	54.9	57.5
230	55.6	56.8	55.8	54.1	54.9	57.5
231	55.6	56.8	55.8	54.1	54.9	57.5
232	55.6	56.8	55.8	54.2	55	57.5
233	55.6	56.8	55.8	54.2	55	57.5
234	55.6	56.8	55.8	54.2	55	57.5
235	55.7	56.8	55.8	54.2	55	57.5
236	55.7	56.8	55.8	54.2	55	57.5
237	55.7	56.8	55.8	54.2	55	57.5
238	55.7	56.8	55.8	54.2	55	57.5
239	55.7	56.9	55.8	54.2	55	57.5
240	55.7	56.9	55.8	54.2	55	57.6
241	55.7	56.9	55.8	54.3	55	57.6
242	55.7	56.9	55.8	54.3	55	57.6
243	55.7	56.9	55.9	54.3	55	57.6
244	55.7	56.9	55.9	54.3	55	57.6
245	55.7	56.9	55.9	54.4	55	57.6
246	55.8	56.9	55.9	54.4	55	57.7
247	55.8	56.9	55.9	54.4	55	57.7
248	55.8	56.9	55.9	54.4	55.1	57.7
249	55.8	56.9	55.9	54.4	55.1	57.7
250	55.8	56.9	55.9	54.4	55.1	57.7
251	55.8	56.9	55.9	54.4	55.2	57.7
252	55.8	56.9	55.9	54.4	55.2	57.7
253	55.8	56.9	56	54.4	55.2	57.7
254	55.8	56.9	56	54.5	55.2	57.7
255	55.8	56.9	56	54.5	55.2	57.7
256	55.8	57	56	54.5	55.2	57.7
257	55.8	57	56	54.5	55.2	57.7
258	55.8	57.1	56	54.5	55.3	57.7
259	55.8	57.1	56	54.5	55.3	57.7
260	55.8	57.1	56	54.6	55.3	57.7
261	55.8	57.1	56	54.6	55.3	57.7
262	55.8	57.1	56	54.6	55.3	57.7
263	55.9	57.1	56.1	54.6	55.3	57.7
264	55.9	57.1	56.1	54.6	55.3	57.7
265	55.9	57.1	56.1	54.6	55.3	57.8
266	55.9	57.1	56.1	54.6	55.3	57.9
267	55.9	57.1	56.2	54.6	55.3	57.9
268	55.9	57.1	56.2	54.6	55.3	57.9
269	55.9	57.2	56.2	54.6	55.4	57.9
270	56	57.2	56.2	54.6	55.4	57.9
271	56	57.2	56.2	54.6	55.4	58
272	56	57.2	56.2	54.6	55.4	58
273	56	57.3	56.2	54.6	55.4	58
274	56	57.3	56.2	54.6	55.4	58
275	56	57.3	56.2	54.6	55.4	58

276	56	57.3	56.2	54.6	55.4	58
277	56	57.3	56.2	54.7	55.4	58
278	56	57.3	56.2	54.7	55.4	58
279	56	57.3	56.2	54.7	55.4	58
280	56	57.3	56.2	54.8	55.4	58
281	56	57.3	56.2	54.8	55.4	58.1
282	56	57.3	56.2	54.8	55.5	58.1
283	56.1	57.3	56.2	54.8	55.5	58.1
284	56.1	57.3	56.2	54.8	55.5	58.1
285	56.1	57.4	56.2	54.8	55.5	58.1
286	56.1	57.4	56.2	54.8	55.5	58.1
287	56.1	57.4	56.2	54.8	55.5	58.1
288	56.1	57.4	56.2	54.8	55.5	58.1
289	56.1	57.4	56.2	54.9	55.5	58.2
290	56.1	57.5	56.2	54.9	55.5	58.2
291	56.1	57.5	56.2	54.9	55.6	58.3
292	56.1	57.5	56.2	54.9	55.6	58.3
293	56.1	57.5	56.2	54.9	55.6	58.3
294	56.1	57.5	56.2	54.9	55.6	58.3
295	56.1	57.6	56.2	54.9	55.7	58.3
296	56.1	57.6	56.2	55	55.7	58.3
297	56.1	57.6	56.2	55	55.7	58.3
298	56.1	57.6	56.2	55	55.7	58.3
299	56.1	57.6	56.2	55	55.7	58.3
300	56.2	57.6	56.2	55	55.7	58.3
301	56.2	57.6	56.2	55	55.7	58.4
302	56.2	57.7	56.2	55	55.8	58.4
303	56.2	57.7	56.2	55	55.8	58.4
304	56.2	57.7	56.2	55	55.8	58.4
305	56.2	57.7	56.4	55	55.8	58.4
306	56.2	57.7	56.4	55	55.8	58.4
307	56.2	57.7	56.4	55.1	55.8	58.4
308	56.2	57.7	56.4	55.1	55.8	58.4
309	56.2	57.7	56.4	55.1	55.8	58.4
310	56.2	57.7	56.4	55.1	55.8	58.4
311	56.2	57.7	56.4	55.1	55.8	58.5
312	56.2	57.7	56.4	55.2	55.8	58.5
313	56.2	57.7	56.4	55.2	55.9	58.5
314	56.2	57.7	56.4	55.2	55.9	58.5
315	56.2	57.7	56.4	55.2	55.9	58.5
316	56.2	57.7	56.4	55.3	55.9	58.5
317	56.2	57.9	56.5	55.3	56	58.5
318	56.2	57.9	56.5	55.3	56	58.5
319	56.2	57.9	56.5	55.4	56	58.5
320	56.2	57.9	56.5	55.4	56	58.5
321	56.2	57.9	56.5	55.4	56	58.5
322	56.2	57.9	56.5	55.4	56	58.5
323	56.2	58	56.5	55.4	56	58.5
324	56.2	58	56.5	55.4	56	58.5
325	56.2	58	56.5	55.4	56	58.6
326	56.2	58	56.5	55.5	56	58.7
327	56.4	58	56.5	55.5	56	58.7
328	56.4	58	56.5	55.5	56.1	58.7

329	56.4	58.1	56.5	55.5	56.1	58.7
330	56.4	58.1	56.5	55.5	56.1	58.7
331	56.4	58.1	56.5	55.5	56.1	58.7
332	56.4	58.1	56.5	55.5	56.1	58.7
333	56.4	58.1	56.5	55.6	56.1	58.7
334	56.4	58.1	56.5	55.6	56.1	58.8
335	56.4	58.1	56.6	55.6	56.1	58.8
336	56.4	58.1	56.6	55.6	56.1	58.8
337	56.4	58.1	56.6	55.6	56.1	58.8
338	56.4	58.1	56.6	55.6	56.1	58.8
339	56.5	58.1	56.6	55.7	56.1	58.9
340	56.5	58.1	56.6	55.7	56.1	58.9
341	56.5	58.2	56.6	55.7	56.1	58.9
342	56.5	58.2	56.6	55.7	56.1	58.9
343	56.5	58.3	56.6	55.7	56.2	58.9
344	56.5	58.3	56.6	55.7	56.2	58.9
345	56.5	58.3	56.6	55.7	56.2	58.9
346	56.5	58.3	56.6	55.8	56.2	58.9
347	56.5	58.3	56.6	55.8	56.2	58.9
348	56.5	58.3	56.6	55.8	56.2	58.9
349	56.5	58.3	56.6	55.8	56.2	58.9
350	56.5	58.3	56.6	55.8	56.2	59
351	56.6	58.3	56.7	55.8	56.2	59
352	56.6	58.4	56.7	55.8	56.2	59.1
353	56.6	58.5	56.7	55.8	56.2	59.1
354	56.6	58.5	56.7	55.8	56.2	59.1
355	56.6	58.5	56.7	55.8	56.2	59.1
356	56.6	58.5	56.7	55.9	56.2	59.1
357	56.6	58.5	56.7	55.9	56.2	59.1
358	56.6	58.5	56.7	55.9	56.2	59.1
359	56.6	58.5	56.7	55.9	56.2	59.1
360	56.6	58.5	56.7	55.9	56.4	59.2
361	56.6	58.5	56.8	55.9	56.4	59.2
362	56.6	58.5	56.8	55.9	56.4	59.2
363	56.6	58.5	56.8	56	56.4	59.3
364	56.6	58.6	56.8	56	56.4	59.3
365	56.6	58.7	56.8	56	56.4	59.3
366	56.6	58.7	56.8	56	56.4	59.3
367	56.6	58.7	56.8	56	56.5	59.3
368	56.6	58.7	56.8	56	56.5	59.3
369	56.6	58.7	56.8	56	56.5	59.3
370	56.7	58.7	56.8	56	56.5	59.3
371	56.7	58.8	56.8	56	56.5	59.3
372	56.7	58.8	56.8	56	56.5	59.3
373	56.7	58.8	56.8	56.1	56.5	59.3
374	56.7	58.8	56.8	56.1	56.5	59.3
375	56.7	58.8	56.8	56.1	56.5	59.5
376	56.7	58.8	56.8	56.1	56.5	59.5
377	56.7	58.8	56.8	56.1	56.5	59.5
378	56.7	58.8	56.8	56.1	56.5	59.5
379	56.7	58.8	56.8	56.1	56.5	59.5
380	56.7	58.8	56.8	56.1	56.5	59.6
381	56.7	58.8	56.9	56.1	56.6	59.6

382	56.8	58.9	56.9	56.2	56.6	59.6
383	56.8	58.9	56.9	56.2	56.6	59.6
384	56.8	58.9	56.9	56.2	56.6	59.6
385	56.8	58.9	56.9	56.2	56.6	59.6
386	56.8	58.9	56.9	56.2	56.7	59.6
387	56.8	58.9	56.9	56.2	56.7	59.7
388	56.8	58.9	56.9	56.2	56.7	59.7
389	56.8	58.9	56.9	56.2	56.7	59.7
390	56.8	58.9	56.9	56.2	56.7	59.7
391	56.8	59	56.9	56.2	56.8	59.7
392	56.8	59	56.9	56.2	56.8	59.7
393	56.8	59	56.9	56.2	56.8	59.7
394	56.8	59	56.9	56.2	56.8	59.7
395	56.8	59	56.9	56.2	56.8	59.7
396	56.8	59	56.9	56.2	56.8	59.7
397	56.8	59	56.9	56.2	56.8	59.7
398	56.8	59.1	56.9	56.2	56.8	59.7
399	56.8	59.1	56.9	56.2	56.8	59.7
400	56.8	59.1	57	56.2	56.8	59.8
401	56.8	59.1	57	56.2	56.8	59.8
402	56.9	59.1	57	56.2	56.8	59.8
403	56.9	59.1	57	56.2	56.8	59.8
404	56.9	59.2	57.1	56.2	56.8	59.8
405	56.9	59.2	57.1	56.2	56.9	59.8
406	56.9	59.2	57.1	56.2	56.9	59.8
407	56.9	59.2	57.1	56.2	56.9	59.8
408	56.9	59.2	57.1	56.2	56.9	59.8
409	56.9	59.2	57.1	56.2	56.9	59.8
410	56.9	59.2	57.1	56.2	56.9	59.8
411	56.9	59.2	57.1	56.4	56.9	59.8
412	56.9	59.2	57.1	56.4	56.9	59.8
413	56.9	59.2	57.1	56.4	56.9	59.9
414	56.9	59.3	57.1	56.5	56.9	59.9
415	56.9	59.3	57.1	56.5	56.9	59.9
416	56.9	59.3	57.1	56.5	57	59.9
417	57	59.3	57.1	56.5	57.1	59.9
418	57	59.3	57.2	56.5	57.1	59.9
419	57.1	59.3	57.2	56.5	57.1	59.9
420	57.1	59.3	57.2	56.5	57.1	60
421	57.1	59.3	57.2	56.5	57.1	60
422	57.1	59.3	57.2	56.5	57.1	60
423	57.1	59.3	57.2	56.5	57.2	60
424	57.1	59.3	57.2	56.6	57.2	60
425	57.1	59.3	57.2	56.6	57.2	60
426	57.1	59.3	57.2	56.6	57.2	60
427	57.1	59.3	57.2	56.6	57.2	60.1
428	57.1	59.3	57.2	56.6	57.3	60.1
429	57.2	59.3	57.3	56.6	57.3	60.1
430	57.2	59.3	57.3	56.6	57.3	60.1
431	57.2	59.3	57.3	56.6	57.3	60.1
432	57.2	59.3	57.3	56.6	57.4	60.1
433	57.2	59.3	57.3	56.7	57.4	60.1
434	57.2	59.5	57.3	56.7	57.4	60.1

435	57.2	59.5	57.3	56.7	57.4	60.2
436	57.2	59.5	57.3	56.7	57.4	60.2
437	57.3	59.5	57.3	56.7	57.4	60.3
438	57.3	59.5	57.3	56.7	57.5	60.3
439	57.3	59.5	57.3	56.7	57.5	60.3
440	57.3	59.5	57.3	56.7	57.5	60.3
441	57.3	59.5	57.3	56.7	57.5	60.3
442	57.3	59.5	57.3	56.8	57.5	60.3
443	57.3	59.5	57.4	56.8	57.5	60.3
444	57.3	59.5	57.4	56.8	57.5	60.3
445	57.3	59.6	57.4	56.8	57.5	60.4
446	57.3	59.6	57.4	56.8	57.6	60.4
447	57.3	59.6	57.5	56.8	57.6	60.4
448	57.3	59.6	57.5	56.8	57.6	60.4
449	57.3	59.6	57.5	56.8	57.7	60.4
450	57.3	59.6	57.5	56.8	57.7	60.4
451	57.3	59.6	57.5	56.8	57.7	60.4
452	57.3	59.6	57.5	56.8	57.7	60.4
453	57.3	59.6	57.5	56.8	57.7	60.5
454	57.3	59.6	57.5	56.8	57.7	60.5
455	57.3	59.7	57.5	56.8	57.7	60.5
456	57.4	59.7	57.5	56.8	57.7	60.5
457	57.4	59.7	57.5	56.8	57.7	60.5
458	57.4	59.7	57.5	56.9	57.7	60.5
459	57.4	59.7	57.6	56.9	57.7	60.5
460	57.4	59.7	57.6	56.9	57.7	60.5
461	57.4	59.7	57.6	56.9	57.9	60.5
462	57.5	59.7	57.6	56.9	57.9	60.5
463	57.5	59.7	57.6	57	57.9	60.6
464	57.5	59.8	57.6	57.1	57.9	60.6
465	57.5	59.8	57.6	57.1	57.9	60.6
466	57.5	59.8	57.6	57.1	58	60.6
467	57.5	59.8	57.6	57.2	58	60.6
468	57.5	59.8	57.6	57.2	58.1	60.7
469	57.5	59.8	57.7	57.2	58.1	60.7
470	57.5	59.8	57.7	57.2	58.1	60.7
471	57.5	59.8	57.7	57.2	58.1	60.7
472	57.5	59.8	57.7	57.2	58.1	60.7
473	57.5	59.8	57.7	57.3	58.1	60.7
474	57.5	59.8	57.7	57.3	58.1	60.7
475	57.5	59.9	57.7	57.3	58.1	60.7
476	57.5	59.9	57.7	57.3	58.1	60.7
477	57.6	59.9	57.7	57.3	58.1	60.7
478	57.6	59.9	57.7	57.3	58.2	60.7
479	57.6	59.9	57.7	57.3	58.2	60.7
480	57.6	59.9	57.7	57.5	58.2	60.8
481	57.6	59.9	57.7	57.5	58.2	60.8
482	57.6	59.9	57.7	57.5	58.2	60.8
483	57.6	59.9	57.7	57.5	58.2	60.8
484	57.6	59.9	57.7	57.5	58.3	60.9
485	57.6	60	57.7	57.5	58.3	60.9
486	57.6	60	57.7	57.5	58.3	60.9
487	57.6	60	57.9	57.5	58.4	60.9

488	57.7	60	57.9	57.6	58.4	60.9
489	57.7	60	57.9	57.6	58.4	60.9
490	57.7	60	57.9	57.6	58.5	60.9
491	57.7	60	57.9	57.6	58.5	60.9
492	57.7	60	57.9	57.6	58.5	60.9
493	57.7	60	57.9	57.7	58.5	60.9
494	57.7	60	57.9	57.7	58.5	60.9
495	57.7	60	57.9	57.7	58.5	60.9
496	57.7	60.1	57.9	57.7	58.5	60.9
497	57.7	60.1	57.9	57.7	58.5	60.9
498	57.7	60.1	57.9	57.7	58.5	60.9
499	57.7	60.1	57.9	57.7	58.5	60.9
500	57.7	60.1	58	57.7	58.6	60.9
501	57.7	60.1	58.1	57.9	58.6	61
502	57.7	60.1	58.1	57.9	58.6	61
503	57.7	60.1	58.1	57.9	58.7	61
504	57.7	60.1	58.1	57.9	58.7	61
505	57.7	60.1	58.1	57.9	58.7	61
506	57.7	60.1	58.2	57.9	58.7	61
507	57.7	60.1	58.2	58	58.7	61
508	57.9	60.1	58.2	58.1	58.7	61
509	57.9	60.1	58.3	58.1	58.8	61.1
510	57.9	60.2	58.3	58.1	58.8	61.1
511	57.9	60.2	58.4	58.1	58.8	61.2
512	57.9	60.2	58.4	58.1	58.8	61.2
513	57.9	60.3	58.4	58.1	58.8	61.2
514	57.9	60.3	58.4	58.1	58.8	61.2
515	57.9	60.3	58.4	58.1	58.8	61.2
516	57.9	60.3	58.4	58.2	58.8	61.2
517	58	60.3	58.4	58.2	58.9	61.2
518	58	60.3	58.4	58.2	58.9	61.2
519	58.1	60.4	58.5	58.2	58.9	61.2
520	58.1	60.4	58.5	58.3	58.9	61.3
521	58.1	60.4	58.5	58.3	59	61.3
522	58.1	60.4	58.5	58.3	59.1	61.3
523	58.1	60.4	58.5	58.4	59.1	61.3
524	58.1	60.4	58.5	58.4	59.2	61.3
525	58.1	60.4	58.5	58.5	59.2	61.3
526	58.1	60.4	58.5	58.5	59.2	61.4
527	58.1	60.4	58.6	58.5	59.3	61.4
528	58.1	60.4	58.6	58.5	59.3	61.4
529	58.1	60.4	58.7	58.5	59.3	61.4
530	58.3	60.5	58.7	58.5	59.3	61.4
531	58.3	60.5	58.7	58.5	59.3	61.4
532	58.3	60.5	58.7	58.5	59.3	61.4
533	58.3	60.5	58.7	58.5	59.5	61.4
534	58.3	60.5	58.7	58.6	59.5	61.5
535	58.3	60.5	58.7	58.6	59.5	61.5
536	58.3	60.5	58.7	58.7	59.5	61.6
537	58.4	60.5	58.8	58.7	59.6	61.6
538	58.4	60.6	58.8	58.7	59.6	61.6
539	58.5	60.6	58.8	58.7	59.6	61.6
540	58.5	60.6	58.8	58.8	59.6	61.6

541	58.5	60.6	58.8	58.8	59.6	61.6
542	58.5	60.7	58.9	58.8	59.6	61.6
543	58.5	60.7	58.9	58.9	59.7	61.6
544	58.5	60.7	58.9	58.9	59.7	61.8
545	58.5	60.8	58.9	58.9	59.8	61.8
546	58.7	60.8	58.9	58.9	59.8	61.8
547	58.7	60.8	59	58.9	59.8	61.8
548	58.7	60.8	59.1	59	59.9	61.9
549	58.7	60.8	59.1	59.1	59.9	61.9
550	58.8	60.8	59.2	59.1	59.9	62
551	58.8	60.9	59.2	59.2	60	62
552	58.8	60.9	59.3	59.3	60	62
553	58.9	60.9	59.3	59.3	60.1	62
554	59	60.9	59.3	59.3	60.1	62
555	59.1	60.9	59.5	59.3	60.1	62
556	59.1	60.9	59.5	59.5	60.1	62.1
557	59.1	60.9	59.6	59.5	60.2	62.1
558	59.1	60.9	59.6	59.5	60.3	62.2
559	59.1	60.9	59.7	59.7	60.3	62.2
560	59.2	61	59.7	59.7	60.3	62.2
561	59.2	61	59.8	59.7	60.4	62.2
562	59.3	61	59.8	59.8	60.4	62.3
563	59.3	61	59.9	59.8	60.5	62.4
564	59.3	61.1	59.9	59.8	60.5	62.4
565	59.3	61.1	59.9	60.1	60.5	62.4
566	59.3	61.2	59.9	60.1	60.6	62.4
567	59.3	61.2	60	60.1	60.6	62.4
568	59.3	61.2	60	60.3	60.7	62.4
569	59.3	61.2	60	60.4	60.7	62.4
570	59.5	61.3	60	60.4	60.8	62.4
571	59.5	61.4	60.1	60.5	60.8	62.4
572	59.6	61.4	60.1	60.6	60.8	62.7
573	59.6	61.6	60.1	60.6	60.9	62.7
574	59.7	61.6	60.4	60.7	60.9	62.8
575	59.7	61.6	60.4	60.9	61	62.8
576	59.7	61.6	60.5	60.9	61.1	62.8
577	59.8	61.6	60.5	60.9	61.2	62.8
578	59.8	61.6	60.5	60.9	61.4	63
579	59.8	61.6	60.5	61	61.4	63.1
580	59.9	61.6	60.5	61	61.5	63.1
581	59.9	61.7	60.5	61.2	61.6	63.2
582	59.9	61.7	60.7	61.2	61.7	63.4
583	59.9	61.8	60.7	61.2	61.8	63.4
584	59.9	61.8	60.8	61.2	61.9	63.4
585	60	61.9	60.9	61.6	62.1	63.4
586	60	61.9	60.9	61.8	62.2	63.6
587	60.1	62	60.9	61.8	62.4	63.6
588	60.1	62	60.9	61.9	62.4	63.8
589	60.1	62	61.1	62	62.4	63.8
590	60.2	62.2	61.2	62.1	63.1	64
591	60.3	62.2	61.7	62.1	63.2	64
592	60.4	62.3	61.8	62.3	63.2	64.2
593	60.5	62.3	62	62.7	63.2	64.3

594	60.6	62.3	62.4	62.9	63.5	64.5
595	60.6	62.4	62.7	63.1	63.9	64.8
596	60.9	62.4	63	63.8	64	65.1
597	61.5	62.8	63.3	64.3	64	65.2
598	62.2	63	63.9	65	64.4	65.4
599	62.8	63	65.2	67.1	64.5	67.1
600	63.6	64.4	65.4	67.3	65.9	67.5