

BAB V

PENUTUP

5.1 Kesimpulan

Berdasarkan hasil dan pembahasan pada penelitian ini dapat dibuat kesimpulan sebagai berikut :

1. Peta kendali *Neutrosophic* merupakan peta kendali yang digunakan untuk mengatasi data yang tidak jelas, tidak terdefinisi, tidak tepat, tidak lengkap, dan tidak pasti. Pada logika *Neutrosophic* terdapat dua nilai yaitu nilai *lower* yang menunjukkan nilai terkecil dan nilai *upper* menunjukkan nilai terbesar. Bentuk umum dari bilangan *Neutrosophic* yaitu :

$$X_N = X_L + X_U I_N ; I_N \in [I_L, I_U]$$

Adapun batas-batas peta kendali $\bar{X} S$ dengan pendekatan *Neutrosophic* diperoleh sebagai berikut:

$$UCL_N = \bar{X}_N + \frac{3\hat{\sigma}_N}{\sqrt{n_N}} = \bar{X}_N + \frac{3}{\sqrt{n_N}} \frac{\bar{S}_N}{c_4} = \bar{X}_N + \frac{3}{c_4 \sqrt{n_N}} \bar{S}_N$$

$$LCL_N = \bar{X}_N - \frac{3\hat{\sigma}_N}{\sqrt{n_N}} = \bar{X}_N - \frac{3}{\sqrt{n_N}} \frac{\bar{S}_N}{c_4} = \bar{X}_N - \frac{3}{c_4 \sqrt{n_N}} \bar{S}_N$$

Berdasarkan data Suhu Kota Makassar periode 1 Januari 2022- 31 Oktober 2023 diperoleh batas pengendali optimum sebagai berikut:

$$UCL_N = \{27,037 ; 32,153I\}$$

$$LCL_N = \{22,007 ; 24,567I\}$$

Batas pengendali tersebut menunjukkan bahwa data *low* dikatakan *out of control* ketika nilai $27,037 \leq \bar{X}_N \leq 22,007$ begitupun dengan data *high* dikatakan *out of control* ketika nilai $32,153 \leq \bar{X}_N \leq 24,567$.

2. Berdasarkan nilai *Average Run Length* pada peta kendali $\bar{X} S$ *neutrosophic* lebih sensitif terhadap pergeseran rata - rata jika dibandingkan dengan peta kendali $\bar{X} S$ *Classic* hal tersebut juga terbukti dengan nilai ARL $\bar{X} S$ *Neutrosophic* yang relatif lebih kecil jika dibandingkan dengan nilai ARL peta kendali $\bar{X} S$ *Classic*, selain itu peta kendali $\bar{X} S$ *Neutrosophic* lebih banyak mendeteksi data yang *out of control* yaitu sebanyak 7 data sedangkan pada peta kendali $\bar{X} S$ *Classic* hanya 1 data yang *out of control* sehingga dapat

disimpulkan bahwa peta kendali $\bar{X} S Neutrosophic$ lebih sensitif dalam mendeteksi pergeseran rata – rata jika dibandingkan dengan peta kendali $\bar{X} S Classic$.

5.2 Saran

Berdasarkan hasil penelitian ini, maka penulis menyarankan sebaiknya melakukan penelitian lebih lanjut menggunakan peta kendali lain dengan pendekatan *neutrosophic* yaitu peta kendali NEWMA, NCUSUM, dan NMA.

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LAMPIRAN

Lampiran 1. Data Suhu Kota Makassar Periode 1 Januari 2022– 31 Oktober 2023

No	Tanggal	Data Simulasi							
		00.00		06.00		12.00		18.00	
		Low	High	Low	High	Low	High	Low	High
1	01/01/2022	23	25	23	27	27	29	25	27
2	02/01/2022	24	25	24	29	25	29	24	25
3	03/01/2022	23	24	23	31	27	31	25	26
4	04/01/2022	24	25	24	28	26	28	24	26
5	05/01/2022	23	24	23	30	28	31	23	28
6	06/01/2022	23	24	23	30	28	30	27	28
7	07/01/2022	24	27	24	29	27	30	25	27
8	08/01/2022	24	25	24	30	29	31	26	29
9	09/01/2022	24	25	24	31	28	31	25	29
10	10/01/2022	24	25	24	30	29	31	24	29
11	11/01/2022	23	24	23	31	28	31	25	27
12	12/01/2022	23	25	23	29	28	30	24	28
13	13/01/2022	23	24	24	30	25	31	24	25
14	14/01/2022	23	24	23	27	24	26	24	25
15	15/01/2022	23	24	23	28	25	28	24	27
16	16/01/2022	23	24	23	30	28	30	25	28
17	17/01/2022	25	25	25	30	27	31	25	27
18	18/01/2022	24	24	23	26	23	27	24	25
19	19/01/2022	24	24	24	27	23	24	23	24
20	20/01/2022	23	23	23	25	24	24	23	24
21	21/01/2022	23	23	23	24	24	26	24	25
22	22/01/2022	24	24	24	29	26	30	25	26
23	23/01/2022	23	25	23	30	28	30	25	28
24	24/01/2022	24	25	24	31	29	31	25	29
25	25/01/2022	24	25	24	31	29	31	26	29
26	26/01/2022	23	26	24	32	30	32	25	30
27	27/01/2022	24	25	24	31	29	31	26	29
28	28/01/2022	23	26	23	28	23	29	24	24
29	29/01/2022	23	24	24	31	25	31	24	25
30	30/01/2022	23	24	23	31	28	32	25	29
31	31/01/2022	24	25	24	31	27	31	24	29
32	01/02/2022	24	24	24	30	29	31	26	29
33	02/02/2022	24	25	24	31	29	32	24	29
34	03/02/2022	24	24	24	27	23	26	24	25
35	04/02/2022	22	24	22	30	29	31	25	29
36	05/02/2022	23	25	23	31	29	31	25	29
37	06/02/2022	24	25	24	31	30	31	25	30
38	07/02/2022	24	25	24	29	27	30	24	27

Lampiran 1. Data Suhu Kota Makassar Periode 1 Januari 2022– 31 Oktober 2023
(lanjutan)

No	Tanggal	00.00		06.00		12.00		18.00	
		Low	High	Low	High	Low	High	Low	High
39	08/02/2022	24	24	24	30	28	31	25	28
40	09/02/2022	23	25	23	28	27	29	25	27
41	10/02/2022	24	25	24	29	24	25	24	25
42	11/02/2022	24	25	24	30	28	30	24	28
43	12/02/2022	24	24	24	29	25	29	24	25
44	13/02/2022	23	24	23	29	28	30	25	28
45	14/02/2022	24	25	24	31	26	31	25	26
46	15/02/2022	25	25	25	31	23	31	24	24
47	16/02/2022	24	24	24	30	24	30	24	24
48	17/02/2022	24	24	24	32	28	32	25	28
49	18/02/2022	23	25	23	30	28	31	24	28
50	19/02/2022	24	25	23	30	30	32	25	31
51	20/02/2022	24	25	24	29	23	30	23	26
52	21/02/2022	22	27	23	27	26	27	24	26
53	22/02/2022	23	24	23	27	23	23	23	23
54	23/02/2022	22	23	22	28	24	24	23	24
55	24/02/2022	22	23	22	30	26	31	24	27
56	25/02/2022	24	24	24	30	27	31	24	28
57	26/02/2022	23	24	23	31	29	31	26	29
58	27/02/2022	24	25	24	29	26	29	25	28
59	28/02/2022	24	25	24	31	29	31	25	29
60	01/03/2022	24	25	24	31	29	32	25	29
61	02/03/2022	23	25	23	30	28	29	25	28
62	03/03/2022	23	25	23	32	31	32	25	31
63	04/03/2022	24	25	24	31	29	32	25	29
64	05/03/2022	24	25	24	30	27	30	25	27
65	06/03/2022	24	25	24	29	27	29	24	27
66	07/03/2022	24	24	24	30	25	31	24	25
67	08/03/2022	23	24	23	30	28	31	25	28
68	09/03/2022	24	25	24	30	29	31	25	29
69	10/03/2022	23	25	24	32	30	33	26	30
70	11/03/2022	24	26	24	32	29	33	26	29
71	12/03/2022	24	26	24	32	30	33	27	30
72	13/03/2022	25	27	25	29	24	29	24	24
73	14/03/2022	23	24	23	31	25	31	24	25
74	15/03/2022	23	24	23	31	25	32	24	26
75	16/03/2022	23	24	23	31	25	32	25	25
76	17/03/2022	24	25	24	31	28	31	25	28

Lampiran 1. Data Suhu Kota Makassar Periode 1 Januari 2022– 31 Oktober 2023
(lanjutan)

No	Tanggal	00.00		06.00		12.00		18.00	
		Low	High	Low	High	Low	High	Low	High
77	18/03/2022	24	25	24	32	28	32	25	28
78	19/03/2022	25	26	25	29	25	25	24	25
79	20/03/2022	23	24	23	31	26	30	24	26
80	21/03/2022	24	24	24	30	29	31	25	29
81	22/03/2022	24	25	24	31	25	31	24	25
82	23/03/2022	24	24	24	31	29	31	26	29
83	24/03/2022	23	26	23	32	29	32	24	29
84	25/03/2022	23	24	23	32	29	32	25	29
85	26/03/2022	24	25	24	32	29	32	26	29
86	27/03/2022	24	26	24	29	26	31	26	28
87	28/03/2022	24	26	24	26	24	25	23	24
88	29/03/2022	23	23	23	30	25	30	24	26
89	30/03/2022	23	24	23	30	29	31	25	29
90	31/03/2022	23	25	23	31	25	32	25	25
91	01/04/2022	23	24	23	30	24	31	24	24
92	02/04/2022	24	24	24	31	28	31	25	28
93	03/04/2022	24	25	24	32	28	32	25	28
94	04/04/2022	23	25	23	30	23	30	23	23
95	05/04/2022	23	23	23	31	28	31	24	28
96	06/04/2022	22	24	22	30	26	31	25	26
97	07/04/2022	23	25	23	30	25	31	24	25
98	08/04/2022	23	24	23	31	27	32	24	27
99	09/04/2022	23	24	23	31	26	32	24	27
100	10/04/2022	23	24	23	30	26	31	23	26
101	11/04/2022	21	23	21	32	30	33	24	30
102	12/04/2022	22	24	22	32	28	33	25	28
103	13/04/2022	23	25	22	32	30	32	25	30
104	14/04/2022	24	25	24	32	29	33	26	29
105	15/04/2022	24	26	24	32	26	32	24	27
106	16/04/2022	24	24	24	29	29	31	24	29
107	17/04/2022	24	24	24	28	28	30	25	29
108	18/04/2022	25	25	25	32	30	33	27	30
109	19/04/2022	25	27	25	32	25	32	25	25
110	20/04/2022	24	25	24	31	24	31	23	24
111	21/04/2022	23	24	24	31	27	32	25	27
112	22/04/2022	23	25	23	32	26	32	25	26
113	23/04/2022	23	25	23	32	29	32	26	29
114	24/04/2022	24	26	24	32	36	32	25	26

Lampiran 1. Data Suhu Kota Makassar Periode 1 Januari 2022– 31 Oktober 2023
(lanjutan)

No	Tanggal	00.00		06.00		12.00		18.00	
		Low	High	Low	High	Low	High	Low	High
115	25/04/2022	24	25	24	32	29	32	25	29
116	26/04/2022	24	25	23	32	27	32	25	27
117	27/04/2022	24	25	24	32	25	32	24	25
118	28/04/2022	23	24	23	32	29	33	26	29
119	29/04/2022	24	26	24	32	30	33	26	30
120	30/04/2022	24	26	24	34	24	34	25	26
121	01/05/2022	23	25	23	33	29	33	26	29
122	02/05/2022	24	26	24	32	30	33	24	30
123	03/05/2022	23	24	23	32	29	33	26	29
124	04/05/2022	23	26	23	32	26	33	26	26
125	05/05/2022	25	26	25	32	25	32	25	25
126	06/05/2022	24	25	23	31	28	32	26	28
127	07/05/2022	24	26	24	32	25	32	25	25
128	08/05/2022	25	25	25	31	26	31	26	27
129	09/05/2022	25	26	25	31	27	31	26	27
130	10/05/2022	25	26	25	30	26	30	25	26
131	11/05/2022	24	25	24	32	29	32	27	29
132	12/05/2022	25	27	25	32	28	32	25	28
133	13/05/2022	24	25	24	31	26	31	24	26
134	14/05/2022	24	24	24	32	24	32	24	25
135	15/05/2022	24	25	24	32	31	32	27	29
136	16/05/2022	24	27	24	28	26	30	24	26
137	17/05/2022	23	24	23	32	24	32	25	25
138	18/05/2022	24	25	24	31	26	32	25	26
139	19/05/2022	23	25	24	32	26	32	25	26
140	20/05/2022	24	25	24	32	26	32	25	26
141	21/05/2022	24	25	25	31	25	31	24	25
142	22/05/2022	23	24	23	32	29	32	24	29
143	23/05/2022	24	24	24	33	30	34	26	30
144	24/05/2022	24	26	24	32	29	32	26	29
145	25/05/2022	25	26	25	32	24	32	24	25
146	26/05/2022	23	25	23	32	23	32	23	24
147	27/05/2022	22	23	23	26	24	26	23	24
148	28/05/2022	22	23	22	30	28	31	25	28
149	29/05/2022	23	25	23	32	29	32	25	29
150	30/05/2022	24	25	24	31	29	32	25	29
151	31/05/2022	24	25	24	32	29	34	25	29
152	01/06/2022	23	25	23	33	29	33	25	29

Lampiran 1. Data Suhu Kota Makassar Periode 1 Januari 2022– 31 Oktober 2023
(lanjutan)

No	Tanggal	00.00		06.00		12.00		18.00	
		Low	High	Low	High	Low	High	Low	High
153	02/06/2022	23	25	23	33	29	33	24	29
154	03/06/2022	23	24	23	31	24	31	24	24
155	04/06/2022	23	24	23	30	22	31	23	23
156	05/06/2022	22	23	22	31	25	31	24	25
157	06/06/2022	23	24	23	30	26	31	24	26
158	07/06/2022	24	24	24	30	28	31	24	28
159	08/06/2022	23	24	23	33	29	33	25	29
160	09/06/2022	24	25	24	30	25	31	24	26
161	10/06/2022	23	24	29	31	29	32	25	29
162	11/06/2022	23	25	23	32	25	32	25	26
163	12/06/2022	24	25	24	27	26	30	25	26
164	13/06/2022	24	25	24	28	28	30	25	28
165	14/06/2022	24	25	24	25	25	25	25	25
166	15/06/2022	24	25	24	27	26	29	25	28
167	16/06/2022	24	25	24	31	27	32	25	27
168	17/06/2022	23	25	24	31	27	31	25	29
169	18/06/2022	24	25	24	27	26	28	24	26
170	19/06/2022	23	24	22	30	24	31	23	24
171	20/06/2022	23	23	22	32	28	33	23	28
172	21/06/2022	22	23	22	32	29	32	25	28
173	22/06/2022	23	25	23	31	28	32	25	28
174	23/06/2022	23	25	23	30	28	30	25	28
175	24/06/2022	24	25	24	30	24	31	24	24
176	25/06/2022	23	24	23	30	23	31	23	24
177	26/06/2022	22	24	22	31	25	31	25	25
178	27/06/2022	24	25	24	30	25	30	25	26
179	28/06/2022	22	23	23	31	28	31	24	28
180	29/06/2022	23	24	23	31	24	31	24	25
181	30/06/2022	24	24	24	31	27	31	25	28
182	01/07/2022	24	25	24	31	29	31	25	29
183	02/07/2022	23	25	23	32	30	33	25	30
184	03/07/2022	24	25	24	32	26	32	25	27
185	04/07/2022	23	25	23	32	26	32	24	26
186	05/07/2022	23	24	23	32	29	31	25	29
187	06/07/2022	24	25	24	30	29	32	24	29
188	07/07/2022	23	24	24	30	28	31	24	28
189	08/07/2022	23	24	23	27	27	29	24	27
190	09/07/2022	24	24	24	30	26	31	25	26

Lampiran 1. Data Suhu Kota Makassar Periode 1 Januari 2022– 31 Oktober 2023
(lanjutan)

No	Tanggal	00.00		06.00		12.00		18.00	
		Low	High	Low	High	Low	High	Low	High
191	10/07/2022	24	25	24	29	28	30	26	28
192	11/07/2022	24	26	24	32	29	33	25	29
193	12/07/2022	24	25	24	31	27	32	23	27
194	13/07/2022	23	23	29	31	26	31	25	26
195	14/07/2022	24	25	24	29	26	29	25	26
196	15/07/2022	23	25	23	30	29	31	24	29
197	16/07/2022	23	24	23	32	28	33	24	28
198	17/07/2022	23	24	22	32	26	32	24	26
199	18/07/2022	23	26	23	31	29	31	24	29
200	19/07/2022	23	24	23	30	29	31	24	29
201	20/07/2022	23	24	23	31	29	32	24	29
202	21/07/2022	23	24	23	32	25	32	24	25
203	22/07/2022	23	24	23	31	29	32	25	29
204	23/07/2022	23	25	23	31	29	32	24	29
205	24/07/2022	21	24	21	31	29	32	23	29
206	25/07/2022	20	23	20	31	29	32	23	29
207	26/07/2022	21	23	21	30	29	31	24	29
208	27/07/2022	23	24	23	32	29	32	24	29
209	28/07/2022	21	24	21	32	29	33	24	29
210	29/07/2022	21	24	22	32	30	32	23	28
211	30/07/2022	21	23	21	32	29	33	25	29
212	31/07/2022	23	25	23	30	28	31	25	28
213	01/08/2022	24	25	24	31	28	32	25	28
214	02/08/2022	24	25	24	32	26	32	23	27
215	03/08/2022	22	23	22	32	29	32	23	29
216	04/08/2022	21	23	21	32	30	33	23	30
217	05/08/2022	20	23	20	32	29	32	23	29
218	06/08/2022	20	23	20	32	28	32	23	28
219	07/08/2022	23	23	23	30	27	31	24	27
220	08/08/2022	22	24	22	31	24	31	24	25
221	09/08/2022	24	24	24	32	29	32	25	29
222	10/08/2022	23	25	23	32	29	32	25	29
223	11/08/2022	24	25	24	29	28	30	25	28
224	12/08/2022	24	25	24	31	27	32	24	27
225	13/08/2022	24	24	24	31	27	32	24	27
226	14/08/2022	23	24	24	32	25	32	23	25
227	15/08/2022	20	23	20	32	28	34	24	28
228	16/08/2022	21	25	21	32	28	33	26	28

Lampiran 1. Data Suhu Kota Makassar Periode 1 Januari 2022– 31 Oktober 2023
(lanjutan)

No	Tanggal	00.00		06.00		12.00		18.00	
		Low	High	Low	High	Low	High	Low	High
229	17/08/2022	22	27	23	33	29	33	24	29
230	18/08/2022	23	24	23	31	28	32	24	28
231	19/08/2022	23	24	23	32	29	32	24	29
232	20/08/2022	22	24	22	32	29	34	22	29
233	21/08/2022	20	22	21	33	29	33	24	29
234	22/08/2022	21	24	21	33	30	33	24	30
235	23/08/2022	21	24	21	33	29	33	23	29
236	24/08/2022	20	23	20	32	28	33	24	28
237	25/08/2022	23	25	23	31	29	31	25	29
238	26/08/2022	23	26	23	32	29	32	25	29
239	27/08/2022	22	25	22	31	26	32	24	27
240	28/08/2022	22	24	22	32	30	33	24	30
241	29/08/2022	22	24	22	33	30	32	26	30
242	30/08/2022	24	26	24	30	24	31	24	25
243	31/08/2022	22	24	22	31	27	31	24	27
244	01/09/2022	22	24	22	32	29	32	23	29
245	02/09/2022	22	23	22	31	29	32	25	29
246	03/09/2022	24	25	24	33	27	31	25	27
247	04/09/2022	24	26	24	33	26	33	24	26
248	05/09/2022	23	24	23	33	25	33	24	25
249	06/09/2022	23	24	23	32	29	32	25	29
250	07/09/2022	23	25	23	29	29	33	25	29
251	08/09/2022	24	25	24	32	24	32	24	24
252	09/09/2022	22	24	22	32	27	32	24	27
253	10/09/2022	21	24	21	31	29	31	24	29
254	11/09/2022	21	24	21	32	30	33	24	30
255	12/09/2022	22	24	22	32	29	33	25	29
256	13/09/2022	24	25	24	32	29	32	26	29
257	14/09/2022	23	26	24	33	29	33	25	29
258	15/09/2022	24	25	24	30	29	31	25	29
259	16/09/2022	22	24	22	33	30	33	24	30
260	17/09/2022	22	24	22	33	29	33	24	29
261	18/09/2022	23	24	22	33	30	33	25	28
262	19/09/2022	23	24	23	31	25	32	24	25
263	20/09/2022	24	24	24	29	25	31	24	26
264	21/09/2022	23	24	24	32	25	32	24	25
265	22/09/2022	23	24	23	30	26	31	25	26
266	23/09/2022	24	25	24	32	29	32	25	29

Lampiran 1. Data Suhu Kota Makassar Periode 1 Januari 2022– 31 Oktober 2023
(lanjutan)

No	Tanggal	00.00		06.00		12.00		18.00	
		Low	High	Low	High	Low	High	Low	High
267	24/09/2022	23	25	23	33	31	33	25	29
268	25/09/2022	23	25	23	33	29	33	24	29
269	26/09/2022	21	24	22	33	22	32	23	27
270	27/09/2022	21	23	21	33	32	34	24	29
271	28/09/2022	22	24	22	33	27	32	24	27
272	29/09/2022	23	24	24	34	26	34	24	26
273	30/09/2022	23	25	23	30	26	31	24	26
274	01/10/2022	23	24	23	32	26	33	24	28
275	02/10/2022	23	24	23	32	24	32	24	26
276	03/10/2022	23	24	23	32	24	32	24	24
277	04/10/2022	22	24	23	32	26	32	25	26
278	05/10/2022	24	24	24	31	24	31	24	25
279	06/10/2022	24	25	24	30	24	28	23	24
280	07/10/2022	22	23	22	31	28	31	26	28
281	08/10/2022	24	26	24	32	27	32	25	27
282	09/10/2022	24	25	24	31	27	31	25	27
283	10/10/2022	24	25	24	31	23	31	24	24
284	11/10/2022	24	24	24	30	24	31	24	25
285	12/10/2022	24	25	24	30	25	30	24	26
286	13/10/2022	23	24	23	32	24	32	23	24
287	14/10/2022	23	23	23	31	25	31	24	25
288	15/10/2022	23	24	23	32	25	32	25	25
289	16/10/2022	24	25	25	31	25	30	25	25
290	17/10/2022	24	25	24	31	27	30	26	27
291	18/10/2022	25	26	25	32	25	30	24	25
292	19/10/2022	24	24	24	31	25	31	25	26
293	20/10/2022	24	25	24	32	30	33	27	30
294	21/10/2022	25	27	25	31	26	32	25	26
295	22/10/2022	24	25	26	32	24	32	24	24
296	23/10/2022	23	24	23	31	25	32	25	26
297	24/10/2022	24	25	24	32	29	32	25	29
298	25/10/2022	24	25	24	31	29	32	25	29
299	26/10/2022	24	25	24	30	29	31	25	29
300	27/10/2022	25	25	25	28	28	31	25	28
301	28/10/2022	24	25	24	31	25	31	24	25
302	29/10/2022	24	24	24	32	25	32	25	25
303	30/10/2022	24	25	24	32	29	33	25	29
304	31/10/2022	25	26	25	33	26	34	26	26

Lampiran 1. Data Suhu Kota Makassar Periode 1 Januari 2022– 31 Oktober 2023
(lanjutan)

No	Tanggal	00.00		06.00		12.00		18.00	
		Low	High	Low	High	Low	High	Low	High
305	01/11/2022	25	26	25	33	25	32	24	25
306	02/11/2022	24	26	24	32	26	32	25	26
307	03/11/2022	23	24	23	32	27	32	25	28
308	04/11/2022	24	25	24	32	25	32	24	25
309	05/11/2022	24	24	24	31	24	31	24	25
310	06/11/2022	23	24	23	32	25	32	25	25
311	07/11/2022	24	25	24	31	23	31	23	24
312	08/11/2022	23	23	23	31	23	31	24	32
313	09/11/2022	24	25	24	31	24	31	24	25
314	10/11/2022	23	24	23	31	24	32	24	25
315	11/11/2022	23	24	23	32	25	32	24	25
316	12/11/2022	23	24	23	32	24	32	24	25
317	13/11/2022	23	24	23	32	26	32	25	26
318	14/11/2022	24	25	24	31	25	32	24	25
319	15/11/2022	24	24	24	30	25	31	24	25
320	16/11/2022	24	24	24	30	27	30	24	27
321	17/11/2022	23	24	23	31	29	31	26	29
322	18/11/2022	24	27	24	25	24	26	24	25
323	19/11/2022	23	24	23	28	28	30	25	28
324	20/11/2022	23	25	23	28	25	28	25	25
325	21/11/2022	24	25	24	32	29	32	26	29
326	22/11/2022	24	26	24	32	30	32	26	30
327	23/11/2022	24	26	24	31	29	31	26	29
328	24/11/2022	23	26	24	32	27	32	24	28
329	25/11/2022	23	24	23	29	29	31	28	29
330	26/11/2022	24	28	25	30	28	31	24	28
331	27/11/2022	24	25	24	27	27	29	24	27
332	28/11/2022	23	24	23	31	29	32	25	29
333	29/11/2022	23	25	23	31	28	31	25	28
334	30/11/2022	24	25	24	30	24	31	24	25
335	01/12/2022	24	24	24	29	25	30	24	26
336	02/12/2022	24	24	24	30	26	30	25	26
337	03/12/2022	24	25	24	31	28	31	25	28
338	04/12/2022	24	25	24	30	26	30	24	26
339	05/12/2022	23	25	23	32	24	32	24	25
340	06/12/2022	24	25	24	32	24	32	24	25
341	07/12/2022	23	24	23	32	27	33	24	27
342	08/12/2022	22	24	22	32	26	32	25	26

Lampiran 1. Data Suhu Kota Makassar Periode 1 Januari 2022– 31 Oktober 2023
(lanjutan)

No	Tanggal	00.00		06.00		12.00		18.00	
		Low	High	Low	High	Low	High	Low	High
343	09/12/2022	23	23	23	32	26	32	24	27
344	10/12/2022	23	24	23	31	25	32	26	28
345	11/12/2022	24	26	24	31	29	32	26	29
346	12/12/2022	25	26	25	31	25	31	25	25
347	13/12/2022	24	25	24	31	24	31	24	25
348	14/12/2022	23	24	23	31	25	31	25	26
349	15/12/2022	24	25	24	30	24	27	24	25
350	16/12/2022	23	24	23	28	25	29	24	25
351	17/12/2022	24	24	24	24	24	24	24	24
352	18/12/2022	23	24	23	27	25	28	25	25
353	19/12/2022	23	25	23	30	25	29	24	25
354	20/12/2022	22	24	22	30	25	28	23	26
355	21/12/2022	22	23	22	31	29	31	24	29
356	22/12/2022	22	24	22	32	26	32	24	27
357	23/12/2022	24	25	24	24	24	27	24	28
358	24/12/2022	24	27	24	25	24	25	24	25
359	25/12/2022	23	24	23	27	26	28	24	26
360	26/12/2022	24	25	24	28	27	29	24	27
361	27/12/2022	23	25	24	27	23	27	23	23
362	28/12/2022	23	24	23	27	24	26	24	25
363	29/12/2022	23	24	23	26	24	24	23	24
364	30/12/2022	24	24	24	25	23	26	23	23
365	31/12/2022	23	23	23	31	28	31	25	29
		Data Monitoring							
366	01/01/2023	23	25	23	27	27	29	25	27
367	02/01/2023	24	25	24	29	25	29	24	25
368	03/01/2023	23	24	23	31	27	31	25	26
369	04/01/2023	24	25	24	28	26	28	24	26
370	05/01/2023	23	24	23	30	28	31	23	28
371	06/01/2023	23	24	23	30	28	30	27	28
372	07/01/2023	24	27	24	29	27	30	25	27
373	08/01/2023	24	25	24	30	29	31	26	29
374	09/01/2023	24	25	24	31	28	31	25	29
375	10/01/2023	24	25	24	30	29	31	24	29
376	11/01/2023	23	24	23	31	28	31	25	27
377	12/01/2023	23	25	23	29	28	30	24	28
378	13/01/2023	23	24	24	30	25	31	24	25
379	14/01/2023	23	25	23	27	27	29	25	27

Lampiran 1. Data Suhu Kota Makassar Periode 1 Januari 2022– 31 Oktober 2023
(lanjutan)

No	Tanggal	00.00		06.00		12.00		18.00	
		Low	High	Low	High	Low	High	Low	High
380	15/01/2023	23	24	24	30	25	31	24	25
381	16/01/2023	23	24	23	27	24	26	24	25
382	17/01/2023	23	24	23	28	25	28	24	27
383	18/01/2023	23	24	23	30	28	30	25	28
384	19/01/2023	25	25	25	30	27	31	25	27
385	20/01/2023	24	24	23	26	23	27	24	25
386	21/01/2023	24	24	24	27	23	24	23	24
387	22/01/2023	23	23	23	25	24	24	23	24
388	23/01/2023	23	23	23	24	24	26	24	25
389	24/01/2023	24	24	24	29	26	30	25	26
390	25/01/2023	23	25	23	30	28	30	25	28
391	26/01/2023	24	25	24	31	29	31	25	29
392	27/01/2023	24	25	24	31	29	31	26	29
393	28/01/2023	23	26	24	32	30	32	25	30
394	29/01/2023	24	25	24	31	29	31	26	29
395	30/01/2023	23	26	23	28	23	29	24	24
396	31/01/2023	23	24	24	31	25	31	24	25
397	01/02/2023	23	24	23	31	28	32	25	29
398	02/02/2023	24	25	24	31	27	31	24	29
399	03/02/2023	24	24	24	30	29	31	26	29
400	04/02/2023	24	25	24	31	29	32	24	29
401	05/02/2023	24	24	24	27	23	26	24	25
402	06/02/2023	22	24	22	30	29	31	25	29
403	07/02/2023	23	25	23	31	29	31	25	29
404	08/02/2023	24	25	24	31	30	31	25	30
405	09/02/2023	24	25	24	29	27	30	24	27
406	10/02/2023	24	24	24	30	28	31	25	28
407	11/02/2023	23	25	23	28	27	29	25	27
408	12/02/2023	24	25	24	29	24	25	24	25
409	13/02/2023	24	25	24	30	28	30	24	28
410	14/02/2023	24	24	24	29	25	29	24	25
411	15/02/2023	23	24	23	29	28	30	25	28
412	16/02/2023	24	25	24	31	26	31	25	26
413	17/02/2023	25	25	25	31	23	31	24	24
414	18/02/2023	24	24	24	30	24	30	24	24
415	19/02/2023	24	24	24	32	28	32	25	28
416	20/02/2023	23	25	23	30	28	31	24	28
417	21/02/2023	24	25	23	30	30	32	25	31

Lampiran 1. Data Suhu Kota Makassar Periode 1 Januari 2022– 31 Oktober 2023
(lanjutan)

No	Tanggal	00.00		06.00		12.00		18.00	
		Low	High	Low	High	Low	High	Low	High
418	22/02/2023	24	25	24	29	23	30	23	26
419	23/02/2023	22	27	23	27	26	27	24	26
420	24/02/2023	23	24	23	27	23	23	23	23
421	25/02/2023	22	23	22	28	24	24	23	24
422	26/02/2023	22	23	22	30	26	31	24	27
423	27/02/2023	24	24	24	30	27	31	24	28
424	28/02/2023	23	24	23	31	29	31	26	29
425	01/03/2023	24	25	24	29	26	29	25	28
426	02/03/2023	24	25	24	31	29	31	25	29
427	03/03/2023	24	25	24	31	29	32	25	29
428	04/03/2023	23	25	23	30	28	29	25	28
429	05/03/2023	23	25	23	32	31	32	25	31
430	06/03/2023	24	25	24	31	29	32	25	29
431	07/03/2023	24	25	24	30	27	30	25	27
432	08/03/2023	24	25	24	29	27	29	24	27
433	09/03/2023	24	24	24	30	25	31	24	25
434	10/03/2023	23	24	23	30	28	31	25	28
435	11/03/2023	24	25	24	30	29	31	25	29
436	12/03/2023	23	25	24	32	30	33	26	30
437	13/03/2023	24	26	24	32	29	33	26	29
438	14/03/2023	24	26	24	32	30	33	27	30
439	15/03/2023	25	27	25	29	24	29	24	24
440	16/03/2023	23	24	23	31	25	31	24	25
441	17/03/2023	23	24	23	31	25	32	24	26
442	18/03/2023	23	24	23	31	25	32	25	25
443	19/03/2023	24	25	24	31	28	31	25	28
444	20/03/2023	24	25	24	32	28	32	25	28
445	21/03/2023	25	26	25	29	25	25	24	25
446	22/03/2023	23	24	23	31	26	30	24	26
447	23/03/2023	24	24	24	30	29	31	25	29
448	24/03/2023	24	25	24	31	25	31	24	25
449	25/03/2023	24	24	24	31	29	31	26	29
450	26/03/2023	23	26	23	32	29	32	24	29
451	27/03/2023	23	24	23	32	29	32	25	29
452	28/03/2023	24	25	24	32	29	32	26	29
453	29/03/2023	24	26	24	29	26	31	26	28
454	30/03/2023	24	26	24	26	24	25	23	24
455	31/03/2023	23	23	23	30	25	30	24	26

Lampiran 1. Data Suhu Kota Makassar Periode 1 Januari 2022– 31 Oktober 2023
(lanjutan)

No	Tanggal	00.00		06.00		12.00		18.00	
		Low	High	Low	High	Low	High	Low	High
456	01/04/2023	23	24	23	30	29	31	25	29
457	02/04/2023	23	25	23	31	25	32	25	25
458	03/04/2023	23	24	23	30	24	31	24	24
459	04/04/2023	24	24	24	31	28	31	25	28
460	05/04/2023	24	25	24	32	28	32	25	28
461	06/04/2023	23	25	23	30	23	30	23	23
462	07/04/2023	23	23	23	31	28	31	24	28
463	08/04/2023	22	24	22	30	26	31	25	26
464	09/04/2023	23	25	23	30	25	31	24	25
465	10/04/2023	23	24	23	31	27	32	24	27
466	11/04/2023	23	24	23	31	26	32	24	27
467	12/04/2023	23	24	23	30	26	31	23	26
468	13/04/2023	21	23	21	32	30	33	24	30
469	14/04/2023	22	24	22	32	28	33	25	28
470	15/04/2023	23	25	22	32	30	32	25	30
471	16/04/2023	24	25	24	32	29	33	26	29
472	17/04/2023	24	26	24	32	26	32	24	27
473	18/04/2023	24	24	24	29	29	31	24	29
474	19/04/2023	24	24	24	28	28	30	25	29
475	20/04/2023	25	25	25	32	30	33	27	30
476	21/04/2023	25	27	25	32	25	32	25	25
477	22/04/2023	24	25	24	31	24	31	23	24
478	23/04/2023	23	24	24	31	27	32	25	27
479	24/04/2023	23	25	23	32	26	32	25	26
480	25/04/2023	23	25	23	32	29	32	26	29
481	26/04/2023	24	26	24	32	36	32	25	26
482	27/04/2023	24	25	24	32	29	32	25	29
483	28/04/2023	24	25	23	32	27	32	25	27
484	29/04/2023	24	25	24	32	25	32	24	25
485	30/04/2023	23	24	23	32	29	33	26	29
486	01/05/2023	24	26	24	32	30	33	26	30
487	02/05/2023	24	26	24	34	24	34	25	26
488	03/05/2023	23	25	23	33	29	33	26	29
489	04/05/2023	24	26	24	32	30	33	24	30
490	05/05/2023	23	24	23	32	29	33	26	29
491	06/05/2023	23	26	23	32	26	33	26	26
492	07/05/2023	25	26	25	32	25	32	25	25
493	08/05/2023	24	25	23	31	28	32	26	28

Lampiran 1. Data Suhu Kota Makassar Periode 1 Januari 2022– 31 Oktober 2023
(lanjutan)

No	Tanggal	00.00		06.00		12.00		18.00	
		Low	High	Low	High	Low	High	Low	High
494	09/05/2023	24	26	24	32	25	32	25	25
495	10/05/2023	25	25	25	31	26	31	26	27
496	11/05/2023	25	26	25	31	27	31	26	27
497	12/05/2023	25	26	25	30	26	30	25	26
498	13/05/2023	24	25	24	32	29	32	27	29
499	14/05/2023	25	27	25	32	28	32	25	28
500	15/05/2023	24	25	24	31	26	31	24	26
501	16/05/2023	24	24	24	32	24	32	24	25
502	17/05/2023	24	25	24	32	31	32	27	29
503	18/05/2023	24	27	24	28	26	30	24	26
504	19/05/2023	23	24	23	32	24	32	25	25
505	20/05/2023	24	25	24	31	26	32	25	26
506	21/05/2023	23	25	24	32	26	32	25	26
507	22/05/2023	24	25	24	32	26	32	25	26
508	23/05/2023	24	25	25	31	25	31	24	25
509	24/05/2023	23	24	23	32	29	32	24	29
510	25/05/2023	24	24	24	33	30	34	26	30
511	26/05/2023	24	26	24	32	29	32	26	29
512	27/05/2023	25	26	25	32	24	32	24	25
513	28/05/2023	23	25	23	32	23	32	23	24
514	29/05/2023	22	23	23	26	24	26	23	24
515	30/05/2023	22	23	22	30	28	31	25	28
516	31/05/2023	23	25	23	32	29	32	25	29
517	01/06/2023	24	25	24	31	29	32	25	29
518	02/06/2023	24	25	24	32	29	34	25	29
519	03/06/2023	23	25	23	33	29	33	25	29
520	04/06/2023	23	25	23	33	29	33	24	29
521	05/06/2023	23	24	23	31	24	31	24	24
522	06/06/2023	23	24	23	30	22	31	23	23
523	07/06/2023	22	23	22	31	25	31	24	25
524	08/06/2023	23	24	23	30	26	31	24	26
525	09/06/2023	24	24	24	30	28	31	24	28
526	10/06/2023	23	24	23	33	29	33	25	29
527	11/06/2023	24	25	24	30	25	31	24	26
528	12/06/2023	23	24	29	31	29	32	25	29
529	13/06/2023	23	25	23	32	25	32	25	26
530	14/06/2023	24	25	24	27	26	30	25	26
531	15/06/2023	24	25	24	28	28	30	25	28

Lampiran 1. Data Suhu Kota Makassar Periode 1 Januari 2022– 31 Oktober 2023
(lanjutan)

No	Tanggal	00.00		06.00		12.00		18.00	
		Low	High	Low	High	Low	High	Low	High
532	16/06/2023	24	25	24	25	25	25	25	25
533	17/06/2023	24	25	24	27	26	29	25	28
534	18/06/2023	24	25	24	31	27	32	25	27
535	19/06/2023	23	25	24	31	27	31	25	29
536	20/06/2023	24	25	24	27	26	28	24	26
537	21/06/2023	23	24	22	30	24	31	23	24
538	22/06/2023	23	23	22	32	28	33	23	28
539	23/06/2023	22	23	22	32	29	32	25	28
540	24/06/2023	23	25	23	31	28	32	25	28
541	25/06/2023	23	25	23	30	28	30	25	28
542	26/06/2023	24	25	24	30	24	31	24	24
543	27/06/2023	23	24	23	30	23	31	23	24
544	28/06/2023	22	24	22	31	25	31	25	25
545	29/06/2023	24	25	24	30	25	30	25	26
546	30/06/2023	22	23	23	31	28	31	24	28
547	01/07/2023	23	24	23	31	24	31	24	25
548	02/07/2023	24	24	24	31	27	31	25	28
549	03/07/2023	24	25	24	31	29	31	25	29
550	04/07/2023	23	25	23	32	30	33	25	30
551	05/07/2023	24	25	24	32	26	32	25	27
552	06/07/2023	23	25	23	32	26	32	24	26
553	07/07/2023	23	24	23	32	29	31	25	29
554	08/07/2023	24	25	24	30	29	32	24	29
555	09/07/2023	23	24	24	30	28	31	24	28
556	10/07/2023	23	24	23	27	27	29	24	27
557	11/07/2023	24	24	24	30	26	31	25	26
558	12/07/2023	24	25	24	29	28	30	26	28
559	13/07/2023	24	26	24	32	29	33	25	29
560	14/07/2023	24	25	24	31	27	32	23	27
561	15/07/2023	23	23	29	31	26	31	25	26
562	16/07/2023	24	25	24	29	26	29	25	26
563	17/07/2023	23	25	23	30	29	31	24	29
564	18/07/2023	23	24	23	32	28	33	24	28
565	19/07/2023	23	24	22	32	26	32	24	26
566	20/07/2023	23	26	23	31	29	31	24	29
567	21/07/2023	23	24	23	30	29	31	24	29
568	22/07/2023	23	24	23	31	29	32	24	29
569	23/07/2023	23	24	23	32	25	32	24	25

Lampiran 1. Data Suhu Kota Makassar Periode 1 Januari 2022– 31 Oktober 2023
(lanjutan)

No	Tanggal	00.00		06.00		12.00		18.00	
		Low	High	Low	High	Low	High	Low	High
570	24/07/2023	23	24	23	31	29	32	25	29
571	25/07/2023	23	25	23	31	29	32	24	29
572	26/07/2023	21	24	21	31	29	32	23	29
573	27/07/2023	20	23	20	31	29	32	23	29
574	28/07/2023	21	23	21	30	29	31	24	29
575	29/07/2023	23	24	23	32	29	32	24	29
576	30/07/2023	21	24	21	32	29	33	24	29
577	31/07/2023	21	24	22	32	30	32	23	28
578	01/08/2023	21	23	21	32	29	33	25	29
579	02/08/2023	23	25	23	30	28	31	25	28
580	03/08/2023	24	25	24	31	28	32	25	28
581	04/08/2023	24	25	24	32	26	32	23	27
582	05/08/2023	22	23	22	32	29	32	23	29
583	06/08/2023	21	23	21	32	30	33	23	30
584	07/08/2023	20	23	20	32	29	32	23	29
585	08/08/2023	20	23	20	32	28	32	23	28
586	09/08/2023	23	23	23	30	27	31	24	27
587	10/08/2023	22	24	22	31	24	31	24	25
588	11/08/2023	24	24	24	32	29	32	25	29
589	12/08/2023	23	25	23	32	29	32	25	29
590	13/08/2023	24	25	24	29	28	30	25	28
591	14/08/2023	24	25	24	31	27	32	24	27
592	15/08/2023	24	24	24	31	27	32	24	27
593	16/08/2023	23	24	24	32	25	32	23	25
594	17/08/2023	20	23	20	32	28	34	24	28
595	18/08/2023	21	25	21	32	28	33	26	28
596	19/08/2023	22	27	23	33	29	33	24	29
597	20/08/2023	23	24	23	31	28	32	24	28
598	21/08/2023	23	24	23	32	29	32	24	29
599	22/08/2023	22	24	22	32	29	34	22	29
600	23/08/2023	20	22	21	33	29	33	24	29
601	24/08/2023	21	24	21	33	30	33	24	30
602	25/08/2023	21	24	21	33	29	33	23	29
603	26/08/2023	20	23	20	32	28	33	24	28
604	27/08/2023	23	25	23	31	29	31	25	29
605	28/08/2023	23	26	23	32	29	32	25	29
606	29/08/2023	22	25	22	31	26	32	24	27
607	30/08/2023	22	24	22	32	30	33	24	30

Lampiran 1. Data Suhu Kota Makassar Periode 1 Januari 2022– 31 Oktober 2023
(lanjutan)

No	Tanggal	00.00		06.00		12.00		18.00	
		Low	High	Low	High	Low	High	Low	High
608	31/08/2023	22	24	22	33	30	32	26	30
609	01/09/2023	24	26	24	30	24	31	24	25
610	02/09/2023	22	24	22	31	27	31	24	27
611	03/09/2023	22	24	22	32	29	32	23	29
612	04/09/2023	22	23	22	31	29	32	25	29
613	05/09/2023	24	25	24	33	27	31	25	27
614	06/09/2023	24	26	24	33	26	33	24	26
615	07/09/2023	23	24	23	33	25	33	24	25
616	08/09/2023	23	24	23	32	29	32	25	29
617	09/09/2023	23	25	23	29	29	33	25	29
618	10/09/2023	24	25	24	32	24	32	24	24
619	11/09/2023	22	24	22	32	27	32	24	27
620	12/09/2023	21	24	21	31	29	31	24	29
621	13/09/2023	21	24	21	32	30	33	24	30
622	14/09/2023	22	24	22	32	29	33	25	29
623	15/09/2023	24	25	24	32	29	32	26	29
624	16/09/2023	23	26	24	33	29	33	25	29
625	17/09/2023	24	25	24	30	29	31	25	29
626	18/09/2023	22	24	22	33	30	33	24	30
627	19/09/2023	22	24	22	33	29	33	24	29
628	20/09/2023	23	24	22	33	30	33	25	28
629	21/09/2023	23	24	23	31	25	32	24	25
630	22/09/2023	24	24	24	29	25	31	24	26
631	23/09/2023	23	24	24	32	25	32	24	25
632	24/09/2023	23	24	23	30	26	31	25	26
633	25/09/2023	24	25	24	32	29	32	25	29
634	26/09/2023	23	25	23	33	31	33	25	29
635	27/09/2023	23	25	23	33	29	33	24	29
636	28/09/2023	21	24	22	33	22	32	23	27
637	29/09/2023	21	23	21	33	32	34	24	29
638	30/09/2023	22	24	22	33	27	32	24	27
639	01/10/2023	23	24	24	34	26	34	24	26
640	02/10/2023	23	25	23	30	26	31	24	26
641	03/10/2023	23	24	23	32	26	33	24	28
642	04/10/2023	23	24	23	32	24	32	24	26
643	05/10/2023	23	24	23	32	24	32	24	24
644	06/10/2023	22	24	23	32	26	32	25	26
645	07/10/2023	24	24	24	31	24	31	24	25

Lampiran 1. Data Suhu Kota Makassar Periode 1 Januari 2022– 31 Oktober 2023
(lanjutan)

No	Tanggal	00.00		06.00		12.00		18.00	
		Low	High	Low	High	Low	High	Low	High
646	08/10/2023	24	25	24	30	24	28	23	24
647	09/10/2023	22	23	22	31	28	31	26	28
648	10/10/2023	24	26	24	32	27	32	25	27
649	11/10/2023	24	25	24	31	27	31	25	27
650	12/10/2023	24	25	24	31	23	31	24	24
651	13/10/2023	24	24	24	30	24	31	24	25
652	14/10/2023	24	25	24	30	25	30	24	26
653	15/10/2023	23	24	23	32	24	32	23	24
654	16/10/2023	23	23	23	31	25	31	24	25
655	17/10/2023	23	24	23	32	25	32	25	25
656	18/10/2023	24	25	25	31	25	30	25	25
657	19/10/2023	24	25	24	31	27	30	26	27
658	20/10/2023	25	26	25	32	25	30	24	25
659	21/10/2023	24	24	24	31	25	31	25	26
660	22/10/2023	24	25	24	32	30	33	27	30
661	23/10/2023	25	27	25	31	26	32	25	26
662	24/10/2023	24	25	26	32	24	32	24	24
663	25/10/2023	23	24	23	31	25	32	25	26
664	26/10/2023	24	25	24	32	29	32	25	29
665	27/10/2023	24	25	24	31	29	32	25	29
666	28/10/2023	24	25	24	30	29	31	25	29
667	29/10/2023	25	25	25	28	28	31	25	28
668	30/10/2023	24	25	24	31	25	31	24	25
669	31/10/2023	24	24	24	32	25	32	25	25
670	08/10/2023	24	25	24	32	29	33	25	29
671	09/10/2023	25	26	25	33	26	34	26	26

Lampiran 2. *mean dan standar deviasi Data Suhu Kota Makassar Periode 1 Januari
– 31 Desember 2022*

X_i	Mean		Standar Deviasi		X_i	Mean		Standar Deviasi	
	Low	High	Low	High		Low	High	Low	High
1	24,50	27,00	1,66	1,30	36	25,00	29,00	2,45	1,79
2	24,25	27,00	0,43	1,84	37	25,75	29,25	2,49	1,76
3	24,50	28,00	1,66	2,37	38	24,75	27,75	1,30	1,66
4	24,50	26,75	0,87	1,05	39	25,25	28,25	1,64	2,27
5	24,25	28,25	2,17	2,17	40	24,50	27,25	1,66	1,20
6	25,25	28,00	2,28	1,75	41	24,00	26,00	0,00	1,73
7	25,00	28,25	1,22	1,05	42	25,00	28,25	1,73	1,54
8	25,75	28,75	2,05	1,86	43	24,25	26,75	0,43	2,12
9	25,25	29,00	1,64	1,92	44	24,75	27,75	2,05	1,86
10	25,25	28,75	2,17	1,77	45	24,75	28,25	0,83	2,33
11	24,75	28,25	2,05	2,25	46	24,25	27,75	0,83	2,33
12	24,50	28,00	2,06	1,51	47	24,00	27,00	0,00	3,00
13	24,00	27,50	0,71	2,93	48	25,25	29,00	1,64	2,74
14	23,50	25,50	0,50	0,72	49	24,50	28,50	2,06	1,88
15	23,75	26,75	0,83	1,35	50	25,50	29,50	2,69	2,05
16	24,75	28,00	2,05	1,85	51	23,50	27,50	0,50	1,50
17	25,50	28,25	0,87	2,17	52	23,75	26,75	1,48	0,02
18	23,50	25,50	0,50	0,21	53	23,00	24,25	0,00	1,64
19	23,50	24,75	0,50	1,14	54	22,75	24,75	0,83	0,97
20	23,25	24,00	0,43	0,40	55	23,50	27,75	1,66	2,61
21	23,50	24,50	0,50	1,08	56	24,75	28,25	1,30	2,31
22	24,75	27,25	0,83	2,09	57	25,25	28,75	2,49	2,15
23	24,75	28,25	2,05	1,49	58	24,75	27,75	0,83	1,35
24	25,50	29,00	2,06	1,84	59	25,50	29,00	2,06	1,84
25	25,75	29,00	2,05	1,85	60	25,50	29,25	2,06	2,20
26	25,50	30,00	2,69	1,92	61	24,75	28,00	2,05	1,15
27	25,75	29,00	2,05	1,85	62	25,50	30,00	3,28	2,04
28	23,25	26,75	0,43	1,15	63	25,50	29,25	2,06	2,20
29	24,00	27,75	0,71	3,13	64	25,00	28,00	1,22	1,69
30	24,75	29,00	2,05	2,56	65	24,75	27,50	1,30	1,29
31	24,75	29,00	1,30	1,97	66	24,25	27,50	0,43	2,91
32	25,75	28,50	2,05	2,22	∴	∴	∴	∴	∴
33	25,25	29,25	2,17	2,17	363	23,25	24,50	0,43	0,40
34	23,75	25,50	0,43	0,66	364	23,50	24,50	0,50	0,72
35	24,50	28,50	2,87	2,13	365	24,75	28,50	2,05	2,61

Lampiran 3. Nilai – nilai konstanta C_4

n	C_4
2	0,7979
3	0,8862
4	0,9213
5	0,9400
6	0,9515
7	0,9594
8	0,9650
9	0,9693
10	0,9727
11	0,9754
12	0,9776
13	0,9794
14	0,9810
15	0,9823
16	0,9835
17	0,9845
18	0,9854
19	0,9862
20	0,9869
25	0,9896
30	0,9914
35	0,9927
40	0,9936
45	0,9943
50	0,9949

Lampiran 4. Bagan Kendali $\bar{X} S$ Neutrosophic Data Monitoring

No.	Low	High	LCL_Low	LCL_High	UCL_Low	UCL_High	Status
1	25,75	29,00	22,01	24,57	27,05	32,15	<i>In Control</i>
2	26,00	29,25	22,01	24,57	27,05	32,15	<i>In Control</i>
3	23,50	26,00	22,01	24,57	27,05	32,15	<i>In Control</i>
4	23,25	25,00	22,01	24,57	27,05	32,15	<i>In Control</i>
5	23,50	24,75	22,01	24,57	27,05	32,15	<i>In Control</i>
6	24,50	27,00	22,01	24,57	27,05	32,15	<i>In Control</i>
7	25,25	28,00	22,01	24,57	27,05	32,15	<i>In Control</i>
8	25,25	28,50	22,01	24,57	27,05	32,15	<i>In Control</i>
9	24,00	25,75	22,01	24,57	27,05	32,15	<i>In Control</i>
10	24,00	26,25	22,01	24,57	27,05	32,15	<i>In Control</i>
11	24,75	28,25	22,01	24,57	27,05	32,15	<i>In Control</i>
12	25,00	28,50	22,01	24,57	27,05	32,15	<i>In Control</i>
13	25,00	29,00	22,01	24,57	27,05	32,15	<i>In Control</i>
14	24,75	28,75	22,01	24,57	27,05	32,15	<i>In Control</i>
15	26,25	29,75	22,01	24,57	27,05	32,15	<i>In Control</i>
16	26,25	30,00	22,01	24,57	27,05	32,15	<i>In Control</i>
17	28,00	31,25	22,01	24,57	27,05	32,15	<i>In Control</i>
18	24,50	27,75	22,01	24,57	27,05	32,15	<i>In Control</i>
19	24,25	26,75	22,01	24,57	27,05	32,15	<i>In Control</i>
20	24,00	27,50	22,01	24,57	27,05	32,15	<i>In Control</i>
21	25,25	28,25	22,01	24,57	27,05	32,15	<i>In Control</i>
22	24,75	28,00	22,01	24,57	27,05	32,15	<i>In Control</i>
23	24,75	27,50	22,01	24,57	27,05	32,15	<i>In Control</i>
24	23,75	27,00	22,01	24,57	27,05	32,15	<i>In Control</i>
25	24,50	28,25	22,01	24,57	27,05	32,15	<i>In Control</i>
26	24,00	26,50	22,01	24,57	27,05	32,15	<i>In Control</i>
27	24,25	26,25	22,01	24,57	27,05	32,15	<i>In Control</i>
28	24,25	26,00	22,01	24,57	27,05	32,15	<i>In Control</i>
29	24,25	25,50	22,01	24,57	27,05	32,15	<i>In Control</i>
30	23,75	26,00	22,01	24,57	27,05	32,15	<i>In Control</i>
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮
254	28,00	33,25	22,01	24,57	27,05	32,15	<i>Out Of Control</i>
255	27,25	32,50	22,01	24,57	27,05	32,15	<i>Out Of Control</i>
256	24,25	31,00	22,01	24,57	27,05	32,15	<i>In Control</i>
257	25,00	31,50	22,01	24,57	27,05	32,15	<i>In Control</i>
258	24,75	31,25	22,01	24,57	27,05	32,15	<i>In Control</i>
259	25,50	31,50	22,01	24,57	27,05	32,15	<i>In Control</i>

Lampiran 4. Bagan Kendali $\bar{X} S$ Neutrosophic Data Monitoring (Lanjutan)

260	25,00	31,25	22,01	24,57	27,05	32,15	<i>In Control</i>
261	26,25	30,50	22,01	24,57	27,05	32,15	<i>In Control</i>
262	25,75	31,50	22,01	24,57	27,05	32,15	<i>In Control</i>
263	26,00	31,25	22,01	24,57	27,05	32,15	<i>In Control</i>
264	25,00	31,25	22,01	24,57	27,05	32,15	<i>In Control</i>
265	25,00	31,25	22,01	24,57	27,05	32,15	<i>In Control</i>
266	23,50	30,25	22,01	24,57	27,05	32,15	<i>In Control</i>
267	24,75	31,00	22,01	24,57	27,05	32,15	<i>In Control</i>
268	23,00	31,00	22,01	24,57	27,05	32,15	<i>In Control</i>
269	23,75	30,50	22,01	24,57	27,05	32,15	<i>In Control</i>
270	24,50	31,50	22,01	24,57	27,05	32,15	<i>In Control</i>
271	23,50	32,00	22,01	24,57	27,05	32,15	<i>In Control</i>
272	22,00	30,75	22,01	24,57	27,05	32,15	<i>Out Of Control</i>
273	23,75	29,75	22,01	24,57	27,05	32,15	<i>In Control</i>
274	24,00	30,50	22,01	24,57	27,05	32,15	<i>In Control</i>
275	24,50	30,75	22,01	24,57	27,05	32,15	<i>In Control</i>
276	25,25	31,25	22,01	24,57	27,05	32,15	<i>In Control</i>
277	26,00	31,75	22,01	24,57	27,05	32,15	<i>In Control</i>
278	25,50	31,25	22,01	24,57	27,05	32,15	<i>In Control</i>
279	24,50	30,75	22,01	24,57	27,05	32,15	<i>In Control</i>
280	25,75	32,50	22,01	24,57	27,05	32,15	<i>Out Of Control</i>
281	24,75	31,00	22,01	24,57	27,05	32,15	<i>In Control</i>
282	24,50	31,00	22,01	24,57	27,05	32,15	<i>In Control</i>
283	24,75	31,25	22,01	24,57	27,05	32,15	<i>In Control</i>
284	24,75	31,25	22,01	24,57	27,05	32,15	<i>In Control</i>
285	23,75	31,25	22,01	24,57	27,05	32,15	<i>In Control</i>
286	25,25	31,00	22,01	24,57	27,05	32,15	<i>In Control</i>
287	26,25	32,25	22,01	24,57	27,05	32,15	<i>Out Of Control</i>
288	25,50	32,25	22,01	24,57	27,05	32,15	<i>Out Of Control</i>
289	25,00	31,75	22,01	24,57	27,05	32,15	<i>In Control</i>
290	25,00	30,50	22,01	24,57	27,05	32,15	<i>In Control</i>
291	25,50	31,25	22,01	24,57	27,05	32,15	<i>In Control</i>
292	26,50	31,25	22,01	24,57	27,05	32,15	<i>In Control</i>
293	24,75	31,25	22,01	24,57	27,05	32,15	<i>In Control</i>
294	24,00	30,50	22,01	24,57	27,05	32,15	<i>In Control</i>
295	24,25	30,00	22,01	24,57	27,05	32,15	<i>In Control</i>

Lampiran 4. Bagan Kendali $\bar{X} S$ Neutrosophic Data Monitoring (Lanjutan)

296	24,50	29,50	22,01	24,57	27,05	32,15	<i>In Control</i>
297	24,50	30,50	22,01	24,57	27,05	32,15	<i>In Control</i>
298	25,00	30,75	22,01	24,57	27,05	32,15	<i>In Control</i>
299	24,00	30,75	22,01	24,57	27,05	32,15	<i>In Control</i>
300	24,00	29,75	22,01	24,57	27,05	32,15	<i>In Control</i>
301	24,75	32,25	22,01	24,57	27,05	32,15	<i>Out Of Control</i>
302	25,00	31,75	22,01	24,57	27,05	32,15	<i>In Control</i>
303	26,25	32,00	22,01	24,57	27,05	32,15	<i>In Control</i>
304	25,75	31,00	22,01	24,57	27,05	32,15	<i>In Control</i>
302	25,00	31,75	22,01	24,57	27,05	32,15	<i>In Control</i>

Lampiran 5. Bagan Kendali $\bar{X} S$ Classic data Monitoring

No.	Xbar	LCL	UCL	Status	No.	Xbar	LCL	UCL	Status
1	27,38	22,80	30,08	<i>in control</i>	268	27,00	22,80	30,08	<i>in control</i>
2	27,63	22,80	30,08	<i>in control</i>	269	27,13	22,80	30,08	<i>in control</i>
3	24,75	22,80	30,08	<i>in control</i>	270	28,00	22,80	30,08	<i>in control</i>
4	24,13	22,80	30,08	<i>in control</i>	271	27,75	22,80	30,08	<i>in control</i>
5	24,13	22,80	30,08	<i>in control</i>	272	26,38	22,80	30,08	<i>in control</i>
6	25,75	22,80	30,08	<i>in control</i>	273	26,75	22,80	30,08	<i>in control</i>
7	26,63	22,80	30,08	<i>in control</i>	274	27,25	22,80	30,08	<i>in control</i>
8	26,88	22,80	30,08	<i>in control</i>	275	27,63	22,80	30,08	<i>in control</i>
9	24,88	22,80	30,08	<i>in control</i>	276	28,25	22,80	30,08	<i>in control</i>
10	25,13	22,80	30,08	<i>in control</i>	277	28,88	22,80	30,08	<i>in control</i>
11	26,50	22,80	30,08	<i>in control</i>	278	28,38	22,80	30,08	<i>in control</i>
12	26,75	22,80	30,08	<i>in control</i>	279	27,63	22,80	30,08	<i>in control</i>
13	27,00	22,80	30,08	<i>in control</i>	280	29,13	22,80	30,08	<i>in control</i>
14	26,75	22,80	30,08	<i>in control</i>	281	27,88	22,80	30,08	<i>in control</i>
15	28,00	22,80	30,08	<i>in control</i>	282	27,75	22,80	30,08	<i>in control</i>
16	28,13	22,80	30,08	<i>in control</i>	283	28,00	22,80	30,08	<i>in control</i>
17	29,63	22,80	30,08	<i>in control</i>	284	28,00	22,80	30,08	<i>in control</i>
18	26,13	22,80	30,08	<i>in control</i>	285	27,50	22,80	30,08	<i>in control</i>
19	25,50	22,80	30,08	<i>in control</i>	286	28,13	22,80	30,08	<i>in control</i>
20	25,75	22,80	30,08	<i>in control</i>	287	29,25	22,80	30,08	<i>in control</i>
21	26,75	22,80	30,08	<i>in control</i>	288	28,88	22,80	30,08	<i>in control</i>
22	26,38	22,80	30,08	<i>in control</i>	289	28,38	22,80	30,08	<i>in control</i>
⋮	⋮	⋮	⋮	⋮	290	27,75	22,80	30,08	<i>in control</i>
254	30,63	22,80	30,08	<i>out of control</i>	291	28,38	22,80	30,08	<i>in control</i>
255	29,88	22,80	30,08	<i>in control</i>	292	28,88	22,80	30,08	<i>in control</i>
256	27,63	22,80	30,08	<i>in control</i>	293	28,00	22,80	30,08	<i>in control</i>
257	28,25	22,80	30,08	<i>in control</i>	294	27,25	22,80	30,08	<i>in control</i>
258	28,00	22,80	30,08	<i>in control</i>	295	27,13	22,80	30,08	<i>in control</i>
259	28,50	22,80	30,08	<i>in control</i>	296	27,00	22,80	30,08	<i>in control</i>
260	28,13	22,80	30,08	<i>in control</i>	297	27,50	22,80	30,08	<i>in control</i>
261	28,38	22,80	30,08	<i>in control</i>	298	27,88	22,80	30,08	<i>in control</i>
262	28,63	22,80	30,08	<i>in control</i>	299	27,38	22,80	30,08	<i>in control</i>
263	28,63	22,80	30,08	<i>in control</i>	300	26,88	22,80	30,08	<i>in control</i>
264	28,13	22,80	30,08	<i>in control</i>	301	28,50	22,80	30,08	<i>in control</i>
265	28,13	22,80	30,08	<i>in control</i>	302	28,38	22,80	30,08	<i>in control</i>
266	26,88	22,80	30,08	<i>in control</i>	303	29,13	22,80	30,08	<i>in control</i>
267	27,88	22,80	30,08	<i>in control</i>	304	28,38	22,80	30,08	<i>in control</i>

