

LAMPIRAN

Lampiran 1. *Dataset Seed*

No	Area A	Perimeter P	Compactness C	Length of kernel	Width of Kernel	Asymmetry Coefficient	Length of Kernel Groove
1	15.26000	14.84000	0.87100	5.76300	3.31200	2.22100	5.22000
2	14.88000	14.57000	0.88110	5.55400	3.33300	1.01800	4.95600
3	14.29000	14.09000	0.90500	5.29100	3.33700	2.69900	4.82500
4	13.84000	13.94000	0.89550	5.32400	3.37900	2.25900	4.80500
5	16.14000	14.99000	0.90340	5.65800	3.56200	1.35500	5.17500
6	14.38000	14.21000	0.89510	5.38600	3.31200	2.46200	4.95600
7	14.69000	14.49000	0.87990	5.56300	3.25900	3.58600	5.21900
8	14.11000	14.10000	0.89110	5.42000	3.30200	2.70000	5.00000
9	16.63000	15.46000	0.87470	6.05300	3.46500	2.04000	5.87700
10	16.44000	15.25000	0.88800	5.88400	3.50500	1.96900	5.53300
11	15.26000	14.85000	0.86960	5.71400	3.24200	4.54300	5.31400
12	14.03000	14.16000	0.87960	5.43800	3.20100	1.71700	5.00100
13	13.89000	14.02000	0.88800	5.43900	3.19900	3.98600	4.73800
14	13.78000	14.06000	0.87590	5.47900	3.15600	3.13600	4.87200
15	13.74000	14.05000	0.87440	5.48200	3.11400	2.93200	4.82500
16	14.59000	14.28000	0.89930	5.35100	3.33300	4.18500	4.78100
17	13.99000	13.83000	0.91830	5.11900	3.38300	5.23400	4.78100
18	15.69000	14.75000	0.90580	5.52700	3.51400	1.59900	5.04600
19	14.70000	14.21000	0.91530	5.20500	3.46600	1.76700	4.64900
20	12.72000	13.57000	0.86860	5.22600	3.04900	4.10200	4.91400
21	14.16000	14.40000	0.85840	5.65800	3.12900	3.07200	5.17600
22	14.11000	14.26000	0.87220	5.52000	3.16800	2.68800	5.21900
23	15.88000	14.90000	0.89880	5.61800	3.50700	0.76510	5.09100
24	12.08000	13.23000	0.86640	5.09900	2.93600	1.41500	4.96100
25	15.01000	14.76000	0.86570	5.78900	3.24500	1.79100	5.00100
26	16.19000	15.16000	0.88490	5.83300	3.42100	0.90300	5.30700
27	13.02000	13.76000	0.86410	5.39500	3.02600	3.37300	4.82500
28	12.74000	13.67000	0.85640	5.39500	2.95600	2.50400	4.86900
29	14.11000	14.18000	0.88200	5.54100	3.22100	2.75400	5.03800
30	13.45000	14.02000	0.86040	5.51600	3.06500	3.53100	5.09700
31	13.16000	13.82000	0.86620	5.45400	2.97500	0.85510	5.05600
32	15.49000	14.94000	0.87240	5.75700	3.37100	3.41200	5.22800
33	14.09000	14.41000	0.85290	5.71700	3.18600	3.92000	5.29900
34	13.94000	14.17000	0.87280	5.58500	3.15000	2.12400	5.01200
35	15.05000	14.68000	0.87790	5.71200	3.32800	2.12900	5.36000
36	16.12000	15.00000	0.90000	5.70900	3.48500	2.00000	5.44300
37	16.20000	15.27000	0.87340	5.82600	3.46400	2.82300	5.52700
38	17.08000	15.38000	0.90790	5.83200	3.68300	2.95600	5.48400
39	14.80000	14.52000	0.88230	5.65600	3.28800	3.11200	5.30900
40	14.28000	14.17000	0.89440	5.39700	3.29800	6.68500	5.00100
41	13.54000	13.85000	0.88710	5.34800	3.15600	2.58700	5.17800
42	13.50000	13.85000	0.88520	5.35100	3.15800	2.24900	5.17600
43	13.16000	13.55000	0.90090	5.13800	3.20100	2.46100	4.78300
44	15.50000	14.86000	0.88200	5.87700	3.39600	4.71100	5.52800
45	15.11000	14.54000	0.89860	5.57900	3.46200	3.12800	5.18000
46	13.80000	14.04000	0.87940	5.37600	3.15500	1.56000	4.96100
47	15.36000	14.76000	0.88610	5.70100	3.39300	1.36700	5.13200
48	14.99000	14.56000	0.88830	5.57000	3.37700	2.95800	5.17500
49	14.79000	14.52000	0.88190	5.54500	3.29100	2.70400	5.11100
50	14.86000	14.67000	0.86760	5.67800	3.25800	2.12900	5.35100
51	14.43000	14.40000	0.87510	5.58500	3.27200	3.97500	5.14400
52	15.78000	14.91000	0.89230	5.67400	3.43400	5.59300	5.13600
53	14.49000	14.61000	0.85380	5.71500	3.11300	4.11600	5.39600
54	14.33000	14.28000	0.88310	5.50400	3.19900	3.32800	5.22400
55	14.52000	14.60000	0.85570	5.74100	3.11300	1.48100	5.48700
56	15.03000	14.77000	0.86580	5.70200	3.21200	1.93300	5.43900
57	14.46000	14.35000	0.88180	5.38800	3.37700	2.80200	5.04400
58	14.92000	14.43000	0.90060	5.38400	3.41200	1.14200	5.08800
59	15.38000	14.77000	0.88570	5.66200	3.41900	1.99900	5.22200
60	12.11000	13.47000	0.83920	5.15900	3.03200	1.50200	4.51900
61	11.42000	12.86000	0.86830	5.00800	2.85000	2.70000	4.00000
62	11.23000	12.63000	0.88400	4.90200	2.87900	2.26900	4.70300
63	12.36000	13.19000	0.89230	5.07600	3.04200	3.22000	4.60500
64	13.22000	13.84000	0.86800	5.39500	3.07000	4.15700	5.08800
65	12.78000	13.57000	0.87160	5.26200	3.02600	1.17600	4.78200
66	12.88000	13.50000	0.88790	5.13900	3.11900	2.35200	4.60700
67	14.34000	14.37000	0.87260	5.63000	3.19000	1.31300	5.15000
68	14.01000	14.29000	0.86250	5.60900	3.15800	2.21700	5.13200
69	14.37000	14.39000	0.87260	5.56900	3.15300	1.46400	5.30000
70	12.73000	13.75000	0.84580	5.41200	2.88200	3.53300	5.06700

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No	Area A	Perimeter P	Compactness C	Length of kernel	Width of Kernel	Asymmetry Coefficient	Length of Kernel Groove
71	17.63000	15.98000	0.86730	6.19100	3.56100	4.07600	6.06000
72	16.84000	15.67000	0.86230	5.99800	3.48400	4.67500	5.87700
73	17.26000	15.73000	0.87630	5.97800	3.59400	4.53900	5.79100
74	19.11000	16.26000	0.90810	6.15400	3.93000	2.93600	6.07900
75	16.82000	15.51000	0.87860	6.01700	3.48600	4.00400	5.84100
76	16.77000	15.62000	0.86380	5.92700	3.43800	4.92000	5.79500
77	17.32000	15.91000	0.85990	6.06400	3.40300	3.82400	5.92200
78	20.71000	17.23000	0.87630	6.57900	3.81400	4.45100	6.45100
79	18.94000	16.49000	0.87500	6.44500	3.63900	5.06400	6.36200
80	17.12000	15.55000	0.88920	5.85000	3.56600	2.85800	5.74600
81	16.53000	15.34000	0.88230	5.87500	3.46700	5.53200	5.88000
82	18.72000	16.19000	0.89770	6.00600	3.85700	5.32400	5.87900
83	20.20000	16.89000	0.88940	6.28500	3.86400	5.17300	6.18700
84	19.57000	16.74000	0.87790	6.38400	3.77200	1.47200	6.27300
85	19.51000	16.71000	0.87800	6.36600	3.80100	2.96200	6.18500
86	18.27000	16.09000	0.88700	6.17300	3.65100	2.44300	6.19700
87	18.88000	16.26000	0.89690	6.08400	3.76400	1.64900	6.10900
88	18.98000	16.66000	0.85900	6.54900	3.67000	3.69100	6.49800
89	21.18000	17.21000	0.89890	6.57300	4.03300	5.78000	6.23100
90	20.88000	17.05000	0.90310	6.45000	4.03200	5.01600	6.32100
91	20.10000	16.99000	0.87460	6.58100	3.78500	1.95500	6.44900
92	18.76000	16.20000	0.89840	6.17200	3.79600	3.12000	6.05300
93	18.81000	16.29000	0.89060	6.27200	3.69300	3.23700	6.05300
94	18.59000	16.05000	0.90660	6.03700	3.86000	6.00100	5.87700
95	18.36000	16.52000	0.84520	6.66600	3.48500	4.93300	6.44800
96	16.87000	15.65000	0.86480	6.13900	3.46300	3.69600	5.96700
97	19.31000	16.59000	0.88150	6.34100	3.81000	3.47700	6.23800
98	18.98000	16.57000	0.86870	6.44900	3.55200	2.14400	6.45300
99	18.17000	16.26000	0.86370	6.27100	3.51200	2.85300	6.27300
100	18.72000	16.34000	0.88100	6.21900	3.68400	2.18800	6.09700
101	16.41000	15.25000	0.88660	5.71800	3.52500	4.21700	5.61800
102	17.99000	15.86000	0.89920	5.89000	3.69400	2.06800	5.83700
103	19.46000	16.50000	0.89850	6.11300	3.89200	4.30800	6.00900
104	19.18000	16.63000	0.87170	6.36900	3.68100	3.35700	6.22900
105	18.95000	16.42000	0.88290	6.24800	3.75500	3.36800	6.14800
106	18.83000	16.29000	0.89170	6.03700	3.78600	2.55300	5.87900
107	18.85000	16.17000	0.90560	6.15200	3.80600	2.84300	6.20000
108	17.63000	15.86000	0.88000	6.03300	3.57300	3.74700	5.92900
109	19.94000	16.92000	0.87520	6.67500	3.76300	3.25200	6.55000
110	18.55000	16.22000	0.88650	6.15300	3.67400	1.73800	5.89400
111	18.45000	16.12000	0.89210	6.10700	3.76900	2.23500	5.79400
112	19.38000	16.72000	0.87160	6.30300	3.79100	3.67800	5.96500
113	19.13000	16.31000	0.90350	6.18300	3.90200	2.10900	5.92400
114	19.14000	16.61000	0.87220	6.25900	3.73700	6.68200	6.05300
115	20.97000	17.25000	0.88590	6.56300	3.99100	4.67700	6.31600
116	19.06000	16.45000	0.88540	6.41600	3.71900	2.24800	6.16300
117	18.96000	16.20000	0.90770	6.05100	3.89700	4.33400	5.75000
118	19.15000	16.45000	0.88900	6.24500	3.81500	3.08400	6.18500
119	18.89000	16.23000	0.90080	6.22700	3.76900	3.63900	5.96600
120	20.03000	16.90000	0.88110	6.49300	3.85700	3.06300	6.32000
121	20.24000	16.91000	0.88970	6.31500	3.96200	5.90100	6.18800
122	18.14000	16.12000	0.87720	6.05900	3.56300	3.61900	6.01100
123	16.17000	15.38000	0.85880	5.76200	3.38700	4.28600	5.70300
124	18.43000	15.97000	0.90770	5.98000	3.77100	2.98400	5.90500
125	15.99000	14.89000	0.90640	5.36300	3.58200	3.33600	5.14400
126	18.75000	16.18000	0.89990	6.11100	3.86900	4.18800	5.99200
127	18.65000	16.41000	0.86980	6.28500	3.59400	4.39100	6.10200
128	17.98000	15.85000	0.89930	5.97900	3.68700	2.25700	5.91900
129	20.16000	17.03000	0.87350	6.51300	3.77300	1.91000	6.18500
130	17.55000	15.66000	0.89910	5.79100	3.69000	5.36600	5.66100
131	18.30000	15.89000	0.91080	5.97900	3.75500	2.83700	5.96200
132	18.94000	16.32000	0.89420	6.14400	3.82500	2.90800	5.94900
133	15.38000	14.90000	0.87060	5.88400	3.26800	4.46200	5.79500
134	16.16000	15.33000	0.86440	5.84500	3.39500	4.26600	5.79500
135	15.56000	14.89000	0.88230	5.77600	3.40800	4.97200	5.84700
136	15.38000	14.66000	0.89900	5.47700	3.46500	3.60000	5.00000
137	17.36000	15.76000	0.87850	6.14500	3.57400	3.52600	5.97100
138	15.57000	15.15000	0.85270	5.92000	3.23100	2.64000	5.87900
139	15.60000	15.11000	0.85800	5.83200	3.28600	2.72500	5.75200
140	16.23000	15.18000	0.88500	5.87200	3.47200	3.76900	5.92200

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No	Area A	Perimeter P	Compactness C	Length of kernel	Width of Kernel	Asymmetry Coefficient	Length of Kernel Groove
141	13.07000	13.92000	0.84800	5.47200	2.99400	5.30400	5.39500
142	13.32000	13.94000	0.86130	5.54100	3.07300	7.03500	5.44000
143	13.34000	13.95000	0.86200	5.38900	3.07400	5.99500	5.30700
144	12.22000	13.32000	0.86520	5.22400	2.96700	5.46900	5.22100
145	11.82000	13.40000	0.82740	5.31400	2.77700	4.47100	5.17800
146	11.21000	13.13000	0.81670	5.27900	2.68700	6.16900	5.27500
147	11.43000	13.13000	0.83350	5.17600	2.71900	2.22100	5.13200
148	12.49000	13.46000	0.86580	5.26700	2.96700	4.42100	5.00200
149	12.70000	13.71000	0.84910	5.38600	2.91100	3.26000	5.31600
150	10.79000	12.93000	0.81070	5.31700	2.64800	5.46200	5.19400
151	11.83000	13.23000	0.84960	5.26300	2.84000	5.19500	5.30700
152	12.01000	13.52000	0.82490	5.40500	2.77600	6.99200	5.27000
153	12.26000	13.60000	0.83330	5.40800	2.83300	4.75600	5.36000
154	11.18000	13.04000	0.82660	5.22000	2.69300	3.33200	5.00100
155	11.36000	13.05000	0.83820	5.17500	2.75500	4.04800	5.26300
156	11.19000	13.05000	0.82530	5.25000	2.67500	5.81300	5.21900
157	11.34000	12.87000	0.85960	5.05300	2.84900	3.34700	5.00300
158	12.13000	13.73000	0.80810	5.39400	2.74500	4.82500	5.22000
159	11.75000	13.52000	0.80820	5.44400	2.67800	4.37800	5.31000
160	11.49000	13.22000	0.82630	5.30400	2.69500	5.38800	5.31000
161	12.54000	13.67000	0.84250	5.45100	2.87900	3.08200	5.49100
162	12.02000	13.33000	0.85030	5.35000	2.81000	4.27100	5.30800
163	12.05000	13.41000	0.84160	5.26700	2.84700	4.98800	5.04600
164	12.55000	13.57000	0.85580	5.33300	2.96800	4.41900	5.17600
165	11.14000	12.79000	0.85580	5.01100	2.79400	6.38800	5.04900
166	12.10000	13.15000	0.87930	5.10500	2.94100	2.20100	5.05600
167	12.44000	13.59000	0.84620	5.31900	2.89700	4.92400	5.27000
168	12.15000	13.45000	0.84430	5.41700	2.83700	3.63800	5.33800
169	11.35000	13.12000	0.82910	5.17600	2.66800	4.33700	5.13200
170	11.24000	13.00000	0.83590	5.09000	2.71500	3.52100	5.00000
171	11.02000	13.00000	0.81890	5.32500	2.70100	6.73500	5.00000
172	11.55000	13.10000	0.84550	5.16700	2.84500	6.71500	4.95600
173	11.27000	12.97000	0.84190	5.08800	2.76300	4.30900	5.00000
174	11.40000	13.08000	0.83750	5.13600	2.76300	5.58800	5.08900
175	10.83000	12.96000	0.80990	5.27800	2.64100	5.18200	5.18500
176	10.80000	12.57000	0.85900	4.98100	2.82100	4.77300	5.06300
177	11.26000	13.01000	0.83550	5.18600	2.71000	5.33500	5.09200
178	10.74000	12.73000	0.83290	5.14500	2.64200	4.70200	4.96300
179	11.48000	13.05000	0.84730	5.18000	2.75800	5.87600	5.00200
180	12.21000	13.47000	0.84530	5.35700	2.89300	1.66100	5.17800
181	11.41000	12.95000	0.85600	5.09000	2.77500	4.95700	4.82500
182	12.46000	13.41000	0.87060	5.23600	3.01700	4.98700	5.14700
183	12.19000	13.36000	0.85790	5.24000	2.90900	4.85700	5.15800
184	11.65000	13.07000	0.85750	5.10800	2.85000	5.20900	5.13500
185	12.89000	13.77000	0.85410	5.49500	3.02600	6.18500	5.31600
186	11.56000	13.31000	0.81980	5.36300	2.68300	4.06200	5.18200
187	11.81000	13.45000	0.81980	5.41300	2.71600	4.89800	5.35200
188	10.91000	12.80000	0.83720	5.08800	2.67500	4.17900	4.95600
189	11.23000	12.82000	0.85940	5.08900	2.82100	7.52400	4.95700
190	10.59000	12.41000	0.86480	4.89900	2.78700	4.97500	4.79400
191	10.93000	12.80000	0.83900	5.04600	2.71700	5.39800	5.04500
192	11.27000	12.86000	0.85630	5.09100	2.80400	3.98500	5.00100
193	11.87000	13.02000	0.87950	5.13200	2.95300	3.59700	5.13200
194	10.82000	12.83000	0.82560	5.18000	2.63000	4.85300	5.08900
195	12.11000	13.27000	0.86390	5.23600	2.97500	4.13200	5.01200
196	12.80000	13.47000	0.88600	5.16000	3.12600	4.87300	4.91400
197	12.79000	13.53000	0.87860	5.22400	3.05400	5.48300	4.95800
198	13.37000	13.78000	0.88490	5.32000	3.12800	4.67000	5.09100
199	12.62000	13.67000	0.84810	5.41000	2.91100	3.30600	5.23100
200	12.76000	13.38000	0.89640	5.07300	3.15500	2.82800	4.83000
201	12.38000	13.44000	0.86090	5.21900	2.98900	5.47200	5.04500
202	12.67000	13.32000	0.89770	4.98400	3.13500	2.30000	4.00000
203	11.18000	12.72000	0.86800	5.00900	2.81000	4.05100	4.82800
204	12.70000	13.41000	0.88740	5.18300	3.09100	8.45600	5.00000
205	12.37000	13.47000	0.85670	5.20400	2.96000	3.91900	5.00100
206	12.19000	13.20000	0.87830	5.13700	2.98100	3.63100	4.87000
207	11.23000	12.88000	0.85110	5.14000	2.79500	4.32500	5.00300
208	13.20000	13.66000	0.88830	5.23600	3.23200	8.31500	5.05600
209	11.84000	13.21000	0.85210	5.17500	2.83600	3.59800	5.04400
210	12.30000	13.34000	0.86840	5.24300	2.97400	5.63700	5.06300

Lampiran 2. Hasil proses *clustering cluster* pertama di dua *cluster*.

No	Area A	Perimeter P	Compactness C	Length of kernel	Width of Kernel	Asymmetry Coefficient	Length of Kernel Groove	CLUSTER
1	15.26000	14.84000	0.87100	5.76300	3.31200	2.22100	5.22000	C1
2	14.88000	14.57000	0.88110	5.55400	3.33300	1.01800	4.95600	C1
3	14.29000	14.09000	0.90500	5.29100	3.33700	2.69900	4.82500	C1
4	13.84000	13.94000	0.89550	5.32400	3.37900	2.25900	4.80500	C1
6	14.38000	14.21000	0.89510	5.38600	3.31200	2.46200	4.95600	C1
7	14.69000	14.49000	0.87990	5.56300	3.25900	3.58600	5.21900	C1
8	14.11000	14.10000	0.89110	5.42000	3.30200	2.70000	5.00000	C1
11	15.26000	14.85000	0.86960	5.71400	3.24200	4.54300	5.31400	C1
12	14.03000	14.16000	0.87960	5.43800	3.20100	1.71700	5.00100	C1
13	13.89000	14.02000	0.88800	5.43900	3.19900	3.98600	4.73800	C1
14	13.78000	14.06000	0.87590	5.47900	3.15600	3.13600	4.87200	C1
15	13.74000	14.05000	0.87440	5.48200	3.11400	2.93200	4.82500	C1
16	14.59000	14.28000	0.89930	5.35100	3.33300	4.18500	4.78100	C1
17	13.99000	13.83000	0.91830	5.11900	3.38300	5.23400	4.78100	C1
19	14.70000	14.21000	0.91530	5.20500	3.46600	1.76700	4.64900	C1
20	12.72000	13.57000	0.86860	5.22600	3.04900	4.10200	4.91400	C1
21	14.16000	14.40000	0.85840	5.65800	3.12900	3.07200	5.17600	C1
22	14.11000	14.26000	0.87220	5.52000	3.16800	2.68800	5.21900	C1
24	12.08000	13.23000	0.86640	5.09900	2.93600	1.41500	4.96100	C1
25	15.01000	14.76000	0.86570	5.78900	3.24500	1.79100	5.00100	C1
27	13.02000	13.76000	0.86410	5.39500	3.02600	3.37300	4.82500	C1
28	12.74000	13.67000	0.85640	5.39500	2.95600	2.50400	4.86900	C1
29	14.11000	14.18000	0.88200	5.54100	3.22100	2.75400	5.03800	C1
30	13.45000	14.02000	0.86040	5.51600	3.06500	3.53100	5.09700	C1
31	13.16000	13.82000	0.86620	5.45400	2.97500	0.85510	5.05600	C1
32	15.49000	14.94000	0.87240	5.75700	3.37100	3.41200	5.22800	C1
33	14.09000	14.41000	0.85290	5.71700	3.18600	3.92000	5.29900	C1
34	13.94000	14.17000	0.87280	5.58500	3.15000	2.12400	5.01200	C1
35	15.05000	14.68000	0.87790	5.71200	3.32800	2.12900	5.36000	C1
39	14.80000	14.52000	0.88230	5.65600	3.28800	3.11200	5.30900	C1
40	14.28000	14.17000	0.89440	5.39700	3.29800	6.68500	5.00100	C1
41	13.54000	13.85000	0.88710	5.34800	3.15600	2.58700	5.17800	C1
42	13.50000	13.85000	0.88520	5.35100	3.15800	2.24900	5.17600	C1
43	13.16000	13.55000	0.90090	5.13800	3.20100	2.46100	4.78300	C1
44	15.50000	14.86000	0.88200	5.87700	3.39600	4.71100	5.52800	C1
45	15.11000	14.54000	0.89860	5.57900	3.46200	3.12800	5.18000	C1
46	13.80000	14.04000	0.87940	5.37600	3.15500	1.56000	4.96100	C1
47	15.36000	14.76000	0.88610	5.70100	3.39300	1.36700	5.13200	C1
48	14.99000	14.56000	0.88830	5.57000	3.37700	2.95800	5.17500	C1
49	14.79000	14.52000	0.88190	5.54500	3.29100	2.70400	5.11100	C1
50	14.86000	14.67000	0.86760	5.67800	3.25800	2.12900	5.35100	C1
51	14.43000	14.40000	0.87510	5.58500	3.27200	3.97500	5.14400	C1
52	15.78000	14.91000	0.89230	5.67400	3.43400	5.59300	5.13600	C1
53	14.49000	14.61000	0.85380	5.71500	3.11300	4.11600	5.39600	C1
54	14.33000	14.28000	0.88310	5.50400	3.19900	3.32800	5.22400	C1
55	14.52000	14.60000	0.85570	5.74100	3.11300	1.48100	5.48700	C1
56	15.03000	14.77000	0.86580	5.70200	3.21200	1.93300	5.43900	C1
57	14.46000	14.35000	0.88180	5.38800	3.37700	2.80200	5.04400	C1
58	14.92000	14.43000	0.90060	5.38400	3.41200	1.14200	5.08800	C1
59	15.38000	14.77000	0.88570	5.66200	3.41900	1.99900	5.22200	C1
60	12.11000	13.47000	0.83920	5.15900	3.03200	1.50200	4.51900	C1
61	11.42000	12.86000	0.86830	5.00800	2.85000	2.70000	4.00000	C1
62	11.23000	12.63000	0.88400	4.90200	2.87900	2.26900	4.70300	C1
63	12.36000	13.19000	0.89230	5.07600	3.04200	3.22000	4.60500	C1
64	13.22000	13.84000	0.86800	5.39500	3.07000	4.15700	5.08800	C1
65	12.78000	13.57000	0.87160	5.26200	3.02600	1.17600	4.78200	C1
66	12.88000	13.50000	0.88790	5.13900	3.11900	2.35200	4.60700	C1
67	14.34000	14.37000	0.87260	5.63000	3.19000	1.31300	5.15000	C1
68	14.01000	14.29000	0.86250	5.60900	3.15800	2.21700	5.13200	C1
69	14.37000	14.39000	0.87260	5.56900	3.15300	1.46400	5.30000	C1
70	12.73000	13.75000	0.84580	5.41200	2.88200	3.53300	5.06700	C1
133	15.38000	14.90000	0.87060	5.88400	3.26800	4.46200	5.79500	C1
135	15.56000	14.89000	0.88230	5.77600	3.40800	4.97200	5.84700	C1
136	15.38000	14.66000	0.89900	5.47700	3.46500	3.60000	5.00000	C1
141	13.07000	13.92000	0.84800	5.47200	2.99400	5.30400	5.39500	C1
142	13.32000	13.94000	0.86130	5.54100	3.07300	7.03500	5.44000	C1
143	13.34000	13.95000	0.86200	5.38900	3.07400	5.99500	5.30700	C1
144	12.22000	13.32000	0.86520	5.22400	2.96700	5.46900	5.22100	C1
145	11.82000	13.40000	0.82740	5.31400	2.77700	4.47100	5.17800	C1
146	11.21000	13.13000	0.81670	5.27900	2.68700	6.16900	5.27500	C1

Lanjutan Lampiran 2.

No	Area A	Perimeter P	Compactness C	Length of kernel	Width of Kernel	Asymmetry Coefficient	Length of Kernel Groove	CLUSTER
147	11.43000	13.13000	0.83350	5.17600	2.71900	2.22100	5.13200	C1
148	12.49000	13.46000	0.86580	5.26700	2.96700	4.42100	5.00200	C1
149	12.70000	13.71000	0.84910	5.38600	2.91100	3.26000	5.31600	C1
150	10.79000	12.93000	0.81070	5.31700	2.64800	5.46200	5.19400	C1
151	11.83000	13.23000	0.84960	5.26300	2.84000	5.19500	5.30700	C1
152	12.01000	13.52000	0.82490	5.40500	2.77600	6.99200	5.27000	C1
153	12.26000	13.60000	0.83330	5.40800	2.83300	4.75600	5.36000	C1
154	11.18000	13.04000	0.82660	5.22000	2.69300	3.33200	5.00100	C1
155	11.36000	13.05000	0.83820	5.17500	2.75500	4.04800	5.26300	C1
156	11.19000	13.05000	0.82530	5.25000	2.67500	5.81300	5.21900	C1
157	11.34000	12.87000	0.85960	5.05300	2.84900	3.34700	5.00300	C1
158	12.13000	13.73000	0.80810	5.39400	2.74500	4.82500	5.22000	C1
159	11.75000	13.52000	0.80820	5.44400	2.67800	4.37800	5.31000	C1
160	11.49000	13.22000	0.82630	5.30400	2.69500	5.38800	5.31000	C1
161	12.54000	13.67000	0.84250	5.45100	2.87900	3.08200	5.49100	C1
162	12.02000	13.33000	0.85030	5.35000	2.81000	4.27100	5.30800	C1
163	12.05000	13.41000	0.84160	5.26700	2.84700	4.98800	5.04600	C1
164	12.55000	13.57000	0.85580	5.33300	2.96800	4.41900	5.17600	C1
165	11.14000	12.79000	0.85580	5.01100	2.79400	6.38800	5.04900	C1
166	12.10000	13.15000	0.87930	5.10500	2.94100	2.20100	5.05600	C1
167	12.44000	13.59000	0.84620	5.31900	2.89700	4.92400	5.27000	C1
168	12.15000	13.45000	0.84430	5.41700	2.83700	3.63800	5.33800	C1
169	11.35000	13.12000	0.82910	5.17600	2.66800	4.33700	5.13200	C1
170	11.24000	13.00000	0.83590	5.09000	2.71500	3.52100	5.00000	C1
171	11.02000	13.00000	0.81890	5.32500	2.70100	6.73500	5.00000	C1
172	11.55000	13.10000	0.84550	5.16700	2.84500	6.71500	4.95600	C1
173	11.27000	12.97000	0.84190	5.08800	2.76300	4.30900	5.00000	C1
174	11.40000	13.08000	0.83750	5.13600	2.76300	5.58800	5.08900	C1
175	10.83000	12.96000	0.80990	5.27800	2.64100	5.18200	5.18500	C1
176	10.80000	12.57000	0.85900	4.98100	2.82100	4.77300	5.06300	C1
177	11.26000	13.01000	0.83550	5.18600	2.71000	5.33500	5.09200	C1
178	10.74000	12.73000	0.83290	5.14500	2.64200	4.70200	4.96300	C1
179	11.48000	13.05000	0.84730	5.18000	2.75800	5.87600	5.00200	C1
180	12.21000	13.47000	0.84530	5.35700	2.89300	1.66100	5.17800	C1
181	11.41000	12.95000	0.85600	5.09000	2.77500	4.95700	4.82500	C1
182	12.46000	13.41000	0.87060	5.23600	3.01700	4.98700	5.14700	C1
183	12.19000	13.36000	0.85790	5.24000	2.90900	4.85700	5.15800	C1
184	11.65000	13.07000	0.85750	5.10800	2.85000	5.20900	5.13500	C1
185	12.89000	13.77000	0.85410	5.49500	3.02600	6.18500	5.31600	C1
186	11.56000	13.31000	0.81980	5.36300	2.68300	4.06200	5.18200	C1
187	11.81000	13.45000	0.81980	5.41300	2.71600	4.89800	5.35200	C1
188	10.91000	12.80000	0.83720	5.08800	2.67500	4.17900	4.95600	C1
189	11.23000	12.82000	0.85940	5.08900	2.82100	7.52400	4.95700	C1
190	10.59000	12.41000	0.86480	4.89900	2.78700	4.97500	4.79400	C1
191	10.93000	12.80000	0.83900	5.04600	2.71700	5.39800	5.04500	C1
192	11.27000	12.86000	0.85630	5.09100	2.80400	3.98500	5.00100	C1
193	11.87000	13.02000	0.87950	5.13200	2.95300	3.59700	5.13200	C1
194	10.82000	12.83000	0.82560	5.18000	2.63000	4.85300	5.08900	C1
195	12.11000	13.27000	0.86390	5.23600	2.97500	4.13200	5.01200	C1
196	12.80000	13.47000	0.88600	5.16000	3.12600	4.87300	4.91400	C1
197	12.79000	13.53000	0.87860	5.22400	3.05400	5.48300	4.95800	C1
198	13.37000	13.78000	0.88490	5.32000	3.12800	4.67000	5.09100	C1
199	12.62000	13.67000	0.84810	5.41000	2.91100	3.30600	5.23100	C1
200	12.76000	13.38000	0.89640	5.07300	3.15500	2.82800	4.83000	C1
201	12.38000	13.44000	0.86090	5.21900	2.98900	5.47200	5.04500	C1
202	12.67000	13.32000	0.89770	4.98400	3.13500	2.30000	4.00000	C1
203	11.18000	12.72000	0.86800	5.00900	2.81000	4.05100	4.82800	C1
204	12.70000	13.41000	0.88740	5.18300	3.09100	8.45600	5.00000	C1
205	12.37000	13.47000	0.85670	5.20400	2.96000	3.91900	5.00100	C1
206	12.19000	13.20000	0.87830	5.13700	2.98100	3.63100	4.87000	C1
207	11.23000	12.88000	0.85110	5.14000	2.79500	4.32500	5.00300	C1
208	13.20000	13.66000	0.88830	5.23600	3.23200	8.31500	5.05600	C1
209	11.84000	13.21000	0.85210	5.17500	2.83600	3.59800	5.04400	C1
210	12.30000	13.34000	0.86840	5.24300	2.97400	5.63700	5.06300	C1

Lampiran 3. Hasil proses *clustering cluster* kedua di dua *cluster*

No	Area A	Perimeter P	Compactness C	Length of kernel	Width of Kernel	Asymmetry Coefficient	Length of Kernel Groove	CLUSTER
5	16.14000	14.99000	0.90340	5.65800	3.56200	1.35500	5.17500	C2
9	16.63000	15.46000	0.87470	6.05300	3.46500	2.04000	5.87700	C2
10	16.44000	15.25000	0.88800	5.88400	3.50500	1.96900	5.53300	C2
18	15.69000	14.75000	0.90580	5.52700	3.51400	1.59900	5.04600	C2
23	15.88000	14.90000	0.89880	5.61800	3.50700	0.76510	5.09100	C2
26	16.19000	15.16000	0.88490	5.83300	3.42100	0.90300	5.30700	C2
36	16.12000	15.00000	0.90000	5.70900	3.48500	2.00000	5.44300	C2
37	16.20000	15.27000	0.87340	5.82600	3.46400	2.82300	5.52700	C2
38	17.08000	15.38000	0.90790	5.83200	3.68300	2.95600	5.48400	C2
71	17.63000	15.98000	0.86730	6.19100	3.56100	4.07600	6.06000	C2
72	16.84000	15.67000	0.86230	5.99800	3.48400	4.67500	5.87700	C2
73	17.26000	15.73000	0.87630	5.97800	3.59400	4.53900	5.79100	C2
74	19.11000	16.26000	0.90810	6.15400	3.93000	2.93600	6.07900	C2
75	16.82000	15.51000	0.87860	6.01700	3.48600	4.00400	5.84100	C2
76	16.77000	15.62000	0.86380	5.92700	3.43800	4.92000	5.79500	C2
77	17.32000	15.91000	0.85990	6.06400	3.40300	3.82400	5.92200	C2
78	20.71000	17.23000	0.87630	6.57900	3.81400	4.45100	6.45100	C2
79	18.94000	16.49000	0.87500	6.44500	3.63900	5.06400	6.36200	C2
80	17.12000	15.55000	0.88920	5.85000	3.56600	2.85800	5.74600	C2
81	16.53000	15.34000	0.88230	5.87500	3.46700	5.53200	5.88000	C2
82	18.72000	16.19000	0.89770	6.00600	3.85700	5.32400	5.87900	C2
83	20.20000	16.89000	0.88940	6.28500	3.86400	5.17300	6.18700	C2
84	19.57000	16.74000	0.87790	6.38400	3.77200	1.47200	6.27300	C2
85	19.51000	16.71000	0.87800	6.36600	3.80100	2.96200	6.18500	C2
86	18.27000	16.09000	0.88700	6.17300	3.65100	2.44300	6.19700	C2
87	18.88000	16.26000	0.89690	6.08400	3.76400	1.64900	6.10900	C2
88	18.98000	16.66000	0.85900	6.54900	3.67000	3.69100	6.49800	C2
89	21.18000	17.21000	0.89890	6.57300	4.03300	5.78000	6.23100	C2
90	20.88000	17.05000	0.90310	6.45000	4.03200	5.01600	6.32100	C2
91	20.10000	16.99000	0.87460	6.58100	3.78500	1.95500	6.44900	C2
92	18.76000	16.20000	0.89840	6.17200	3.79600	3.12000	6.05300	C2
93	18.81000	16.29000	0.89060	6.27200	3.69300	3.23700	6.05300	C2
94	18.59000	16.05000	0.90660	6.03700	3.86000	6.00100	5.87700	C2
95	18.36000	16.52000	0.84520	6.66600	3.48500	4.93300	6.44800	C2
96	16.87000	15.65000	0.86480	6.13900	3.46300	3.69600	5.96700	C2
97	19.31000	16.59000	0.88150	6.34100	3.81000	3.47700	6.23800	C2
98	18.98000	16.57000	0.86870	6.44900	3.55200	2.14400	6.45300	C2
99	18.17000	16.26000	0.86370	6.27100	3.51200	2.85300	6.27300	C2
100	18.72000	16.34000	0.88100	6.21900	3.68400	2.18800	6.09700	C2
101	16.41000	15.25000	0.88660	5.71800	3.52500	4.21700	5.61800	C2
102	17.99000	15.86000	0.89920	5.89000	3.69400	2.06800	5.83700	C2
103	19.46000	16.50000	0.89850	6.11300	3.89200	4.30800	6.00900	C2
104	19.18000	16.63000	0.87170	6.36900	3.68100	3.35700	6.22900	C2
105	18.95000	16.42000	0.88290	6.24800	3.75500	3.36800	6.14800	C2
106	18.83000	16.29000	0.89170	6.03700	3.78600	2.55300	5.87900	C2
107	18.85000	16.17000	0.90560	6.15200	3.80600	2.84300	6.20000	C2
108	17.63000	15.86000	0.88000	6.03300	3.57300	3.74700	5.92900	C2
109	19.94000	16.92000	0.87520	6.67500	3.76300	3.25200	6.55000	C2
110	18.55000	16.22000	0.88650	6.15300	3.67400	1.73800	5.89400	C2
111	18.45000	16.12000	0.89210	6.10700	3.76900	2.23500	5.79400	C2
112	19.38000	16.72000	0.87160	6.30300	3.79100	3.67800	5.96500	C2
113	19.13000	16.31000	0.90350	6.18300	3.90200	2.10900	5.92400	C2
114	19.14000	16.61000	0.87220	6.25900	3.73700	6.68200	6.05300	C2
115	20.97000	17.25000	0.88590	6.56300	3.99100	4.67700	6.31600	C2
116	19.06000	16.45000	0.88540	6.41600	3.71900	2.24800	6.16300	C2
117	18.96000	16.20000	0.90770	6.05100	3.89700	4.33400	5.75000	C2
118	19.15000	16.45000	0.88900	6.24500	3.81500	3.08400	6.18500	C2
119	18.89000	16.23000	0.90080	6.22700	3.76900	3.63900	5.96600	C2
120	20.03000	16.90000	0.88110	6.49300	3.85700	3.06300	6.32000	C2
121	20.24000	16.91000	0.88970	6.31500	3.96200	5.90100	6.18800	C2
122	18.14000	16.12000	0.87720	6.05900	3.56300	3.61900	6.01100	C2
123	16.17000	15.38000	0.85880	5.76200	3.38700	4.28600	5.70300	C2
124	18.43000	15.97000	0.90770	5.98000	3.77100	2.98400	5.90500	C2
125	15.99000	14.89000	0.90640	5.36300	3.58200	3.33600	5.14400	C2
126	18.75000	16.18000	0.89990	6.11100	3.86900	4.18800	5.99200	C2
127	18.65000	16.41000	0.86980	6.28500	3.59400	4.39100	6.10200	C2
128	17.98000	15.85000	0.89930	5.97900	3.68700	2.25700	5.91900	C2
129	20.16000	17.03000	0.87350	6.51300	3.77300	1.91000	6.18500	C2
130	17.55000	15.66000	0.89910	5.79100	3.69000	5.36600	5.66100	C2
131	18.30000	15.89000	0.91080	5.97900	3.75500	2.83700	5.96200	C2
132	18.94000	16.32000	0.89420	6.14400	3.82500	2.90800	5.94900	C2
134	16.16000	15.33000	0.86440	5.84500	3.39500	4.26600	5.79500	C2
137	17.36000	15.76000	0.87850	6.14500	3.57400	3.52600	5.97100	C2
138	15.57000	15.15000	0.85270	5.92000	3.23100	2.64000	5.87900	C2
139	15.60000	15.11000	0.85800	5.83200	3.28600	2.72500	5.75200	C2
140	16.23000	15.18000	0.88500	5.87200	3.47200	3.76900	5.92200	C2

Lampiran 4. Hasil proses *clustering cluster* pertama di tiga *cluster*

No	Area A	Perimeter P	Compactness C	Length of kernel	Width of Kernel	Asymmetry Coefficient	Length of Kernel Groove	CLUSTER
17	13.99000	13.83000	0.91830	5.11900	3.38300	5.23400	4.78100	C1
20	12.72000	13.57000	0.86860	5.22600	3.04900	4.10200	4.91400	C1
24	12.08000	13.23000	0.86640	5.09900	2.93600	1.41500	4.96100	C1
27	13.02000	13.76000	0.86410	5.39500	3.02600	3.37300	4.82500	C1
28	12.74000	13.67000	0.85640	5.39500	2.95600	2.50400	4.86900	C1
40	14.28000	14.17000	0.89440	5.39700	3.29800	6.68500	5.00100	C1
60	12.11000	13.47000	0.83920	5.15900	3.03200	1.50200	4.51900	C1
61	11.42000	12.86000	0.86830	5.00800	2.85000	2.70000	4.00000	C1
62	11.23000	12.63000	0.88400	4.90200	2.87900	2.26900	4.70300	C1
63	12.36000	13.19000	0.89230	5.07600	3.04200	3.22000	4.60500	C1
64	13.22000	13.84000	0.86800	5.39500	3.07000	4.15700	5.08800	C1
70	12.73000	13.75000	0.84580	5.41200	2.88200	3.53300	5.06700	C1
141	13.07000	13.92000	0.84800	5.47200	2.99400	5.30400	5.39500	C1
142	13.32000	13.94000	0.86130	5.54100	3.07300	7.03500	5.44000	C1
143	13.34000	13.95000	0.86200	5.38900	3.07400	5.99500	5.30700	C1
144	12.22000	13.32000	0.86520	5.22400	2.96700	5.46900	5.22100	C1
145	11.82000	13.40000	0.82740	5.31400	2.77700	4.47100	5.17800	C1
146	11.21000	13.13000	0.81670	5.27900	2.68700	6.16900	5.27500	C1
147	11.43000	13.13000	0.83350	5.17600	2.71900	2.22100	5.13200	C1
148	12.49000	13.46000	0.86580	5.26700	2.96700	4.42100	5.00200	C1
149	12.70000	13.71000	0.84910	5.38600	2.91100	3.26000	5.31600	C1
150	10.79000	12.93000	0.81070	5.31700	2.64800	5.46200	5.19400	C1
151	11.83000	13.23000	0.84960	5.26300	2.84000	5.19500	5.30700	C1
152	12.01000	13.52000	0.82490	5.40500	2.77600	6.99200	5.27000	C1
153	12.26000	13.60000	0.83330	5.40800	2.83300	4.75600	5.36000	C1
154	11.18000	13.04000	0.82660	5.22000	2.69300	3.33200	5.00100	C1
155	11.36000	13.05000	0.83820	5.17500	2.75500	4.04800	5.26300	C1
156	11.19000	13.05000	0.82530	5.25000	2.67500	5.81300	5.21900	C1
157	11.34000	12.87000	0.85960	5.05300	2.84900	3.34700	5.00300	C1
158	12.13000	13.73000	0.80810	5.39400	2.74500	4.82500	5.22000	C1
159	11.75000	13.52000	0.80820	5.44400	2.67800	4.37800	5.31000	C1
160	11.49000	13.22000	0.82630	5.30400	2.69500	5.38800	5.31000	C1
161	12.54000	13.67000	0.84250	5.45100	2.87900	3.08200	5.49100	C1
162	12.02000	13.33000	0.85030	5.35000	2.81000	4.27100	5.30800	C1
163	12.05000	13.41000	0.84160	5.26700	2.84700	4.98800	5.04600	C1
164	12.55000	13.57000	0.85580	5.33300	2.96800	4.41900	5.17600	C1
165	11.14000	12.79000	0.85580	5.01100	2.79400	6.38800	5.04900	C1
166	12.10000	13.15000	0.87930	5.10500	2.94100	2.20100	5.05600	C1
167	12.44000	13.59000	0.84620	5.31900	2.89700	4.92400	5.27000	C1
168	12.15000	13.45000	0.84430	5.41700	2.83700	3.63800	5.33800	C1
169	11.35000	13.12000	0.82910	5.17600	2.66800	4.33700	5.13200	C1
170	11.24000	13.00000	0.83590	5.09000	2.71500	3.52100	5.00000	C1
171	11.02000	13.00000	0.81890	5.32500	2.70100	6.73500	5.00000	C1
172	11.55000	13.10000	0.84550	5.16700	2.84500	6.71500	4.95600	C1
173	11.27000	12.97000	0.84190	5.08800	2.76300	4.30900	5.00000	C1
174	11.40000	13.08000	0.83750	5.13600	2.76300	5.58800	5.08900	C1
175	10.83000	12.96000	0.80990	5.27800	2.64100	5.18200	5.18500	C1
176	10.80000	12.57000	0.85900	4.98100	2.82100	4.77300	5.06300	C1
177	11.26000	13.01000	0.83550	5.18600	2.71000	5.33500	5.09200	C1
178	10.74000	12.73000	0.83290	5.14500	2.64200	4.70200	4.96300	C1
179	11.48000	13.05000	0.84730	5.18000	2.75800	5.87600	5.00200	C1
180	12.21000	13.47000	0.84530	5.35700	2.89300	1.66100	5.17800	C1
181	11.41000	12.95000	0.85600	5.09000	2.77500	4.95700	4.82500	C1
182	12.46000	13.41000	0.87060	5.23600	3.01700	4.98700	5.14700	C1
183	12.19000	13.36000	0.85790	5.24000	2.90900	4.85700	5.15800	C1
184	11.65000	13.07000	0.85750	5.10800	2.85000	5.20900	5.13500	C1
185	12.89000	13.77000	0.85410	5.49500	3.02600	6.18500	5.31600	C1
186	11.56000	13.31000	0.81980	5.36300	2.68300	4.06200	5.18200	C1
187	11.81000	13.45000	0.81980	5.41300	2.71600	4.89800	5.35200	C1
188	10.91000	12.80000	0.83720	5.08800	2.67500	4.17900	4.95600	C1
189	11.23000	12.82000	0.85940	5.08900	2.82100	7.52400	4.95700	C1
190	10.59000	12.41000	0.86480	4.89900	2.78700	4.97500	4.79400	C1
191	10.93000	12.80000	0.83900	5.04600	2.71700	5.39800	5.04500	C1
192	11.27000	12.86000	0.85630	5.09100	2.80400	3.98500	5.00100	C1
193	11.87000	13.02000	0.87950	5.13200	2.95300	3.59700	5.13200	C1
194	10.82000	12.83000	0.82560	5.18000	2.63000	4.85300	5.08900	C1
195	12.11000	13.27000	0.86390	5.23600	2.97500	4.13200	5.01200	C1
196	12.80000	13.47000	0.88600	5.16000	3.12600	4.87300	4.91400	C1
197	12.79000	13.53000	0.87860	5.22400	3.05400	5.48300	4.95800	C1
198	13.37000	13.78000	0.88490	5.32000	3.12800	4.67000	5.09100	C1
199	12.62000	13.67000	0.84810	5.41000	2.91100	3.30600	5.23100	C1
200	12.76000	13.38000	0.89640	5.07300	3.15500	2.82800	4.83000	C1
201	12.38000	13.44000	0.86090	5.21900	2.98900	5.47200	5.04500	C1
202	12.67000	13.32000	0.89770	4.98400	3.13500	2.30000	4.00000	C1
203	11.18000	12.72000	0.86800	5.00900	2.81000	4.05100	4.82800	C1
204	12.70000	13.41000	0.88740	5.18300	3.09100	8.45600	5.00000	C1
205	12.37000	13.47000	0.85670	5.20400	2.96000	3.91900	5.00100	C1
206	12.19000	13.20000	0.87830	5.13700	2.98100	3.63100	4.87000	C1
207	11.23000	12.88000	0.85110	5.14000	2.79500	4.32500	5.00300	C1
208	13.20000	13.66000	0.88830	5.23600	3.23200	8.31500	5.05600	C1
209	11.84000	13.21000	0.85210	5.17500	2.83600	3.59800	5.04400	C1
210	12.30000	13.34000	0.86840	5.24300	2.97400	5.63700	5.06300	C1

Lampiran 5. Hasil proses *clustering cluster* kedua di tiga *cluster*

No	Area A	Perimeter P	Compactness C	Length of kernel	Width of Kernel	Asymmetry Coefficient	Length of Kernel Groove	CLUSTER
38	17.08000	15.38000	0.90790	5.83200	3.68300	2.95600	5.48400	C2
71	17.63000	15.98000	0.86730	6.19100	3.56100	4.07600	6.06000	C2
72	16.84000	15.67000	0.86230	5.99800	3.48400	4.67500	5.87700	C2
73	17.26000	15.73000	0.87630	5.97800	3.59400	4.53900	5.79100	C2
74	19.11000	16.26000	0.90810	6.15400	3.93000	2.93600	6.07900	C2
75	16.82000	15.51000	0.87860	6.01700	3.48600	4.00400	5.84100	C2
76	16.77000	15.62000	0.86380	5.92700	3.43800	4.92000	5.79500	C2
77	17.32000	15.91000	0.85990	6.06400	3.40300	3.82400	5.92200	C2
78	20.71000	17.23000	0.87630	6.57900	3.81400	4.45100	6.45100	C2
79	18.94000	16.49000	0.87500	6.44500	3.63900	5.06400	6.36200	C2
80	17.12000	15.55000	0.88920	5.85000	3.56600	2.85800	5.74600	C2
81	16.53000	15.34000	0.88230	5.87500	3.46700	5.53200	5.88000	C2
82	18.72000	16.19000	0.89770	6.00600	3.85700	5.32400	5.87900	C2
83	20.20000	16.89000	0.88940	6.28500	3.86400	5.17300	6.18700	C2
84	19.57000	16.74000	0.87790	6.38400	3.77200	1.47200	6.27300	C2
85	19.51000	16.71000	0.87800	6.36600	3.80100	2.96200	6.18500	C2
86	18.27000	16.09000	0.88700	6.17300	3.65100	2.44300	6.19700	C2
87	18.88000	16.26000	0.89690	6.08400	3.76400	1.64900	6.10900	C2
88	18.98000	16.66000	0.85900	6.54900	3.67000	3.69100	6.49800	C2
89	21.18000	17.21000	0.89890	6.57300	4.03300	5.78000	6.23100	C2
90	20.88000	17.05000	0.90310	6.45000	4.03200	5.01600	6.32100	C2
91	20.10000	16.99000	0.87460	6.58100	3.78500	1.95500	6.44900	C2
92	18.76000	16.20000	0.89840	6.17200	3.79600	3.12000	6.05300	C2
93	18.81000	16.29000	0.89060	6.27200	3.69300	3.23700	6.05300	C2
94	18.59000	16.05000	0.90660	6.03700	3.86000	6.00100	5.87700	C2
95	18.36000	16.52000	0.84520	6.66600	3.48500	4.93300	6.44800	C2
96	16.87000	15.65000	0.86480	6.13900	3.46300	3.69600	5.96700	C2
97	19.31000	16.59000	0.88150	6.34100	3.81000	3.47700	6.23800	C2
98	18.98000	16.57000	0.86870	6.44900	3.55200	2.14400	6.45300	C2
99	18.17000	16.26000	0.86370	6.27100	3.51200	2.85300	6.27300	C2
100	18.72000	16.34000	0.88100	6.21900	3.68400	2.18800	6.09700	C2
102	17.99000	15.86000	0.89920	5.89000	3.69400	2.06800	5.83700	C2
103	19.46000	16.50000	0.89850	6.11300	3.89200	4.30800	6.00900	C2
104	19.18000	16.63000	0.87170	6.36900	3.68100	3.35700	6.22900	C2
105	18.95000	16.42000	0.88290	6.24800	3.75500	3.36800	6.14800	C2
106	18.83000	16.29000	0.89170	6.03700	3.78600	2.55300	5.87900	C2
107	18.85000	16.17000	0.90560	6.15200	3.80600	2.84300	6.20000	C2
108	17.63000	15.86000	0.88000	6.03300	3.57300	3.74700	5.92900	C2
109	19.94000	16.92000	0.87520	6.67500	3.76300	3.25200	6.55000	C2
110	18.55000	16.22000	0.88650	6.15300	3.67400	1.73800	5.89400	C2
111	18.45000	16.12000	0.89210	6.10700	3.76900	2.23500	5.79400	C2
112	19.38000	16.72000	0.87160	6.30300	3.79100	3.67800	5.96500	C2
113	19.13000	16.31000	0.90350	6.18300	3.90200	2.10900	5.92400	C2
114	19.14000	16.61000	0.87220	6.25900	3.73700	6.68200	6.05300	C2
115	20.97000	17.25000	0.88590	6.56300	3.99100	4.67700	6.31600	C2
116	19.06000	16.45000	0.88540	6.41600	3.71900	2.24800	6.16300	C2
117	18.96000	16.20000	0.90770	6.05100	3.89700	4.33400	5.75000	C2
118	19.15000	16.45000	0.88900	6.24500	3.81500	3.08400	6.18500	C2
119	18.89000	16.23000	0.90080	6.22700	3.76900	3.63900	5.96600	C2
120	20.03000	16.90000	0.88110	6.49300	3.85700	3.06300	6.32000	C2
121	20.24000	16.91000	0.88970	6.31500	3.96200	5.90100	6.18800	C2
122	18.14000	16.12000	0.87720	6.05900	3.56300	3.61900	6.01100	C2
124	18.43000	15.97000	0.90770	5.98000	3.77100	2.98400	5.90500	C2
126	18.75000	16.18000	0.89990	6.11100	3.86900	4.18800	5.99200	C2
127	18.65000	16.41000	0.86980	6.28500	3.59400	4.39100	6.10200	C2
128	17.98000	15.85000	0.89930	5.97900	3.68700	2.25700	5.91900	C2
129	20.16000	17.03000	0.87350	6.51300	3.77300	1.91000	6.18500	C2
130	17.55000	15.66000	0.89910	5.79100	3.69000	5.36600	5.66100	C2
131	18.30000	15.89000	0.91080	5.97900	3.75500	2.83700	5.96200	C2
132	18.94000	16.32000	0.89420	6.14400	3.82500	2.90800	5.94900	C2
137	17.36000	15.76000	0.87850	6.14500	3.57400	3.52600	5.97100	C2

Lampiran 6. Hasil proses *clustering cluster* ketiga di tiga *cluster*

No	Area A	Perimeter P	Compactness C	Length of kernel	Width of Kernel	Asymmetry Coefficient	Length of Kernel Groove	CLUSTER
1	15.26000	14.84000	0.87100	5.76300	3.31200	2.22100	5.22000	C3
2	14.88000	14.57000	0.88110	5.55400	3.33300	1.01800	4.95600	C3
3	14.29000	14.09000	0.90500	5.29100	3.33700	2.69900	4.82500	C3
4	13.84000	13.94000	0.89550	5.32400	3.37900	2.25900	4.80500	C3
5	16.14000	14.99000	0.90340	5.65800	3.56200	1.35500	5.17500	C3
6	14.38000	14.21000	0.89510	5.38600	3.31200	2.46200	4.95600	C3
7	14.69000	14.49000	0.87990	5.56300	3.25900	3.58600	5.21900	C3
8	14.11000	14.10000	0.89110	5.42000	3.30200	2.70000	5.00000	C3
9	16.63000	15.46000	0.87470	6.05300	3.46500	2.04000	5.87700	C3
10	16.44000	15.25000	0.88800	5.88400	3.50500	1.96900	5.53300	C3
11	15.26000	14.85000	0.86960	5.71400	3.24200	4.54300	5.31400	C3
12	14.03000	14.16000	0.87960	5.43800	3.20100	1.71700	5.00100	C3
13	13.89000	14.02000	0.88800	5.43900	3.19900	3.98600	4.73800	C3
14	13.78000	14.06000	0.87590	5.47900	3.15600	3.13600	4.87200	C3
15	13.74000	14.05000	0.87440	5.48200	3.11400	2.93200	4.82500	C3
16	14.59000	14.28000	0.89930	5.35100	3.33300	4.18500	4.78100	C3
18	15.69000	14.75000	0.90580	5.52700	3.51400	1.59900	5.04600	C3
19	14.70000	14.21000	0.91530	5.20500	3.46600	1.76700	4.64900	C3
21	14.16000	14.40000	0.85840	5.65800	3.12900	3.07200	5.17600	C3
22	14.11000	14.26000	0.87220	5.52000	3.16800	2.68800	5.21900	C3
23	15.88000	14.90000	0.89880	5.61800	3.50700	0.76510	5.09100	C3
25	15.01000	14.76000	0.86570	5.78900	3.24500	1.79100	5.00100	C3
26	16.19000	15.16000	0.88490	5.83300	3.42100	0.90300	5.30700	C3
29	14.11000	14.18000	0.88200	5.54100	3.22100	2.75400	5.03800	C3
30	13.45000	14.02000	0.86040	5.51600	3.06500	3.53100	5.09700	C3
31	13.16000	13.82000	0.86620	5.45400	2.97500	0.85510	5.05600	C3
32	15.49000	14.94000	0.87240	5.75700	3.37100	3.41200	5.22800	C3
33	14.09000	14.41000	0.85290	5.71700	3.18600	3.92000	5.29900	C3
34	13.94000	14.17000	0.87280	5.58500	3.15000	2.12400	5.01200	C3
35	15.05000	14.68000	0.87790	5.71200	3.32800	2.12900	5.36000	C3
36	16.12000	15.00000	0.90000	5.70900	3.48500	2.00000	5.44300	C3
37	16.20000	15.27000	0.87340	5.82600	3.46400	2.82300	5.52700	C3
39	14.80000	14.52000	0.88230	5.65600	3.28800	3.11200	5.30900	C3
41	13.54000	13.85000	0.88710	5.34800	3.15600	2.58700	5.17800	C3
42	13.50000	13.85000	0.88520	5.35100	3.15800	2.24900	5.17600	C3
43	13.16000	13.55000	0.90090	5.13800	3.20100	2.46100	4.78300	C3
44	15.50000	14.86000	0.88200	5.87700	3.39600	4.71100	5.52800	C3
45	15.11000	14.54000	0.89860	5.57900	3.46200	3.12800	5.18000	C3
46	13.80000	14.04000	0.87940	5.37600	3.15500	1.56000	4.96100	C3
47	15.36000	14.76000	0.88610	5.70100	3.39300	1.36700	5.13200	C3
48	14.99000	14.56000	0.88830	5.57000	3.37700	2.95800	5.17500	C3
49	14.79000	14.52000	0.88190	5.54500	3.29100	2.70400	5.11100	C3
50	14.86000	14.67000	0.86760	5.67800	3.25800	2.12900	5.35100	C3
51	14.43000	14.40000	0.87510	5.58500	3.27200	3.97500	5.14400	C3
52	15.78000	14.91000	0.89230	5.67400	3.43400	5.59300	5.13600	C3
53	14.49000	14.61000	0.85380	5.71500	3.11300	4.11600	5.39600	C3
54	14.33000	14.28000	0.88310	5.50400	3.19900	3.32800	5.22400	C3
55	14.52000	14.60000	0.85570	5.74100	3.11300	1.48100	5.48700	C3
56	15.03000	14.77000	0.86580	5.70200	3.21200	1.93300	5.43900	C3
57	14.46000	14.35000	0.88180	5.38800	3.37700	2.80200	5.04400	C3
58	14.92000	14.43000	0.90060	5.38400	3.41200	1.14200	5.08800	C3
59	15.38000	14.77000	0.88570	5.66200	3.41900	1.99900	5.22200	C3
65	12.78000	13.57000	0.87160	5.26200	3.02600	1.17600	4.78200	C3
66	12.88000	13.50000	0.88790	5.13900	3.11900	2.35200	4.60700	C3
67	14.34000	14.37000	0.87260	5.63000	3.19000	1.31300	5.15000	C3
68	14.01000	14.29000	0.86250	5.60900	3.15800	2.21700	5.13200	C3
69	14.37000	14.39000	0.87260	5.56900	3.15300	1.46400	5.30000	C3
101	16.41000	15.25000	0.88660	5.71800	3.52500	4.21700	5.61800	C3
123	16.17000	15.38000	0.85880	5.76200	3.38700	4.28600	5.70300	C3
125	15.99000	14.89000	0.90640	5.36300	3.58200	3.33600	5.14400	C3
133	15.38000	14.90000	0.87060	5.88400	3.26800	4.46200	5.79500	C3
134	16.16000	15.33000	0.86440	5.84500	3.39500	4.26600	5.79500	C3
135	15.56000	14.89000	0.88230	5.77600	3.40800	4.97200	5.84700	C3
136	15.38000	14.66000	0.89900	5.47700	3.46500	3.60000	5.00000	C3
138	15.57000	15.15000	0.85270	5.92000	3.23100	2.64000	5.87900	C3
139	15.60000	15.11000	0.85800	5.83200	3.28600	2.72500	5.75200	C3
140	16.23000	15.18000	0.88500	5.87200	3.47200	3.76900	5.92200	C3

Lampiran 7. Hasil proses *clustering cluster* pertama di empat *cluster*

No	Area A	Perimeter P	Compactness C	Length of kernel	Width of Kernel	Asymmetry Coefficient	Length of Kernel Groove	CLUSTER
1	15.26000	14.84000	0.87100	5.76300	3.31200	2.22100	5.22000	C1
2	14.88000	14.57000	0.88110	5.55400	3.33300	1.01800	4.95600	C1
3	14.29000	14.09000	0.90500	5.29100	3.33700	2.69900	4.82500	C1
4	13.84000	13.94000	0.89550	5.32400	3.37900	2.25900	4.80500	C1
5	16.14000	14.99000	0.90340	5.65800	3.56200	1.35500	5.17500	C1
6	14.38000	14.21000	0.89510	5.38600	3.31200	2.46200	4.95600	C1
7	14.69000	14.49000	0.87990	5.56300	3.25900	3.58600	5.21900	C1
8	14.11000	14.10000	0.89110	5.42000	3.30200	2.70000	5.00000	C1
10	16.44000	15.25000	0.88800	5.88400	3.50500	1.96900	5.53300	C1
11	15.26000	14.85000	0.86960	5.71400	3.24200	4.54300	5.31400	C1
12	14.03000	14.16000	0.87960	5.43800	3.20100	1.71700	5.00100	C1
13	13.89000	14.02000	0.88800	5.43900	3.19900	3.98600	4.73800	C1
14	13.78000	14.06000	0.87590	5.47900	3.15600	3.13600	4.87200	C1
15	13.74000	14.05000	0.87440	5.48200	3.11400	2.93200	4.82500	C1
16	14.59000	14.28000	0.89930	5.35100	3.33300	4.18500	4.78100	C1
18	15.69000	14.75000	0.90580	5.52700	3.51400	1.59900	5.04600	C1
19	14.70000	14.21000	0.91530	5.20500	3.46600	1.76700	4.64900	C1
21	14.16000	14.40000	0.85840	5.65800	3.12900	3.07200	5.17600	C1
22	14.11000	14.26000	0.87220	5.52000	3.16800	2.68800	5.21900	C1
23	15.88000	14.90000	0.89880	5.61800	3.50700	0.76510	5.09100	C1
24	12.08000	13.23000	0.86640	5.09900	2.93600	1.41500	4.96100	C1
25	15.01000	14.76000	0.86570	5.78900	3.24500	1.79100	5.00100	C1
26	16.19000	15.16000	0.88490	5.83300	3.42100	0.90300	5.30700	C1
27	13.02000	13.76000	0.86410	5.39500	3.02600	3.37300	4.82500	C1
28	12.74000	13.67000	0.85640	5.39500	2.95600	2.50400	4.86900	C1
29	14.11000	14.18000	0.88200	5.54100	3.22100	2.75400	5.03800	C1
30	13.45000	14.02000	0.86040	5.51600	3.06500	3.53100	5.09700	C1
31	13.16000	13.82000	0.86620	5.45400	2.97500	0.85510	5.05600	C1
32	15.49000	14.94000	0.87240	5.75700	3.37100	3.41200	5.22800	C1
33	14.09000	14.41000	0.85290	5.71700	3.18600	3.92000	5.29900	C1
34	13.94000	14.17000	0.87280	5.58500	3.15000	2.12400	5.01200	C1
35	15.05000	14.68000	0.87790	5.71200	3.32800	2.12900	5.36000	C1
36	16.12000	15.00000	0.90000	5.70900	3.48500	2.00000	5.44300	C1
37	16.20000	15.27000	0.87340	5.82600	3.46400	2.82300	5.52700	C1
39	14.80000	14.52000	0.88230	5.65600	3.28800	3.11200	5.30900	C1
41	13.54000	13.85000	0.88710	5.34800	3.15600	2.58700	5.17800	C1
42	13.50000	13.85000	0.88520	5.35100	3.15800	2.24900	5.17600	C1
43	13.16000	13.55000	0.90090	5.13800	3.20100	2.46100	4.78300	C1
44	15.50000	14.86000	0.88200	5.87700	3.39600	4.71100	5.52800	C1
45	15.11000	14.54000	0.89860	5.57900	3.46200	3.12800	5.18000	C1
46	13.80000	14.04000	0.87940	5.37600	3.15500	1.56000	4.96100	C1
47	15.36000	14.76000	0.88610	5.70100	3.39300	1.36700	5.13200	C1
48	14.99000	14.56000	0.88830	5.57000	3.37700	2.95800	5.17500	C1
49	14.79000	14.52000	0.88190	5.54500	3.29100	2.70400	5.11100	C1
50	14.86000	14.67000	0.86760	5.67800	3.25800	2.12900	5.35100	C1
51	14.43000	14.40000	0.87510	5.58500	3.27200	3.97500	5.14400	C1
52	15.78000	14.91000	0.89230	5.67400	3.43400	5.59300	5.13600	C1
53	14.49000	14.61000	0.85380	5.71500	3.11300	4.11600	5.39600	C1
54	14.33000	14.28000	0.88310	5.50400	3.19900	3.32800	5.22400	C1
55	14.52000	14.60000	0.85570	5.74100	3.11300	1.48100	5.48700	C1
56	15.03000	14.77000	0.86580	5.70200	3.21200	1.93300	5.43900	C1
57	14.46000	14.35000	0.88180	5.38800	3.37700	2.80200	5.04400	C1
58	14.92000	14.43000	0.90060	5.38400	3.41200	1.14200	5.08800	C1
59	15.38000	14.77000	0.88570	5.66200	3.41900	1.99900	5.22200	C1
60	12.11000	13.47000	0.83920	5.15900	3.03200	1.50200	4.51900	C1
65	12.78000	13.57000	0.87160	5.26200	3.02600	1.17600	4.78200	C1
66	12.88000	13.50000	0.88790	5.13900	3.11900	2.35200	4.60700	C1
67	14.34000	14.37000	0.87260	5.63000	3.19000	1.31300	5.15000	C1
68	14.01000	14.29000	0.86250	5.60900	3.15800	2.21700	5.13200	C1
69	14.37000	14.39000	0.87260	5.56900	3.15300	1.46400	5.30000	C1
125	15.99000	14.89000	0.90640	5.36300	3.58200	3.33600	5.14400	C1
133	15.38000	14.90000	0.87060	5.88400	3.26800	4.46200	5.79500	C1
135	15.56000	14.89000	0.88230	5.77600	3.40800	4.97200	5.84700	C1
136	15.38000	14.66000	0.89900	5.47700	3.46500	3.60000	5.00000	C1
138	15.57000	15.15000	0.85270	5.92000	3.23100	2.64000	5.87900	C1
139	15.60000	15.11000	0.85800	5.83200	3.28600	2.72500	5.75200	C1
180	12.21000	13.47000	0.84530	5.35700	2.89300	1.66100	5.17800	C1
200	12.76000	13.38000	0.89640	5.07300	3.15500	2.82800	4.83000	C1
202	12.67000	13.32000	0.89770	4.98400	3.13500	2.30000	4.00000	C1

Lampiran 8. Hasil proses *clustering cluster* kedua di empat *cluster*

No	Area A	Perimeter P	Compactness C	Length of kernel	Width of Kernel	Asymmetry Coefficient	Length of Kernel Groove	CLUSTER
9	16.63000	15.46000	0.87470	6.05300	3.46500	2.04000	5.87700	C2
38	17.08000	15.38000	0.90790	5.83200	3.68300	2.95600	5.48400	C2
71	17.63000	15.98000	0.86730	6.19100	3.56100	4.07600	6.06000	C2
72	16.84000	15.67000	0.86230	5.99800	3.48400	4.67500	5.87700	C2
73	17.26000	15.73000	0.87630	5.97800	3.59400	4.53900	5.79100	C2
74	19.11000	16.26000	0.90810	6.15400	3.93000	2.93600	6.07900	C2
75	16.82000	15.51000	0.87860	6.01700	3.48600	4.00400	5.84100	C2
76	16.77000	15.62000	0.86380	5.92700	3.43800	4.92000	5.79500	C2
77	17.32000	15.91000	0.85990	6.06400	3.40300	3.82400	5.92200	C2
80	17.12000	15.55000	0.88920	5.85000	3.56600	2.85800	5.74600	C2
81	16.53000	15.34000	0.88230	5.87500	3.46700	5.53200	5.88000	C2
84	19.57000	16.74000	0.87790	6.38400	3.77200	1.47200	6.27300	C2
85	19.51000	16.71000	0.87800	6.36600	3.80100	2.96200	6.18500	C2
86	18.27000	16.09000	0.88700	6.17300	3.65100	2.44300	6.19700	C2
87	18.88000	16.26000	0.89690	6.08400	3.76400	1.64900	6.10900	C2
88	18.98000	16.66000	0.85900	6.54900	3.67000	3.69100	6.49800	C2
91	20.10000	16.99000	0.87460	6.58100	3.78500	1.95500	6.44900	C2
92	18.76000	16.20000	0.89840	6.17200	3.79600	3.12000	6.05300	C2
93	18.81000	16.29000	0.89060	6.27200	3.69300	3.23700	6.05300	C2
96	16.87000	15.65000	0.86480	6.13900	3.46300	3.69600	5.96700	C2
97	19.31000	16.59000	0.88150	6.34100	3.81000	3.47700	6.23800	C2
98	18.98000	16.57000	0.86870	6.44900	3.55200	2.14400	6.45300	C2
99	18.17000	16.26000	0.86370	6.27100	3.51200	2.85300	6.27300	C2
100	18.72000	16.34000	0.88100	6.21900	3.68400	2.18800	6.09700	C2
101	16.41000	15.25000	0.88660	5.71800	3.52500	4.21700	5.61800	C2
102	17.99000	15.86000	0.89920	5.89000	3.69400	2.06800	5.83700	C2
104	19.18000	16.63000	0.87170	6.36900	3.68100	3.35700	6.22900	C2
105	18.95000	16.42000	0.88290	6.24800	3.75500	3.36800	6.14800	C2
106	18.83000	16.29000	0.89170	6.03700	3.78600	2.55300	5.87900	C2
107	18.85000	16.17000	0.90560	6.15200	3.80600	2.84300	6.20000	C2
108	17.63000	15.86000	0.88000	6.03300	3.57300	3.74700	5.92900	C2
109	19.94000	16.92000	0.87520	6.67500	3.76300	3.25200	6.55000	C2
110	18.55000	16.22000	0.88650	6.15300	3.67400	1.73800	5.89400	C2
111	18.45000	16.12000	0.89210	6.10700	3.76900	2.23500	5.79400	C2
112	19.38000	16.72000	0.87160	6.30300	3.79100	3.67800	5.96500	C2
113	19.13000	16.31000	0.90350	6.18300	3.90200	2.10900	5.92400	C2
116	19.06000	16.45000	0.88540	6.41600	3.71900	2.24800	6.16300	C2
117	18.96000	16.20000	0.90770	6.05100	3.89700	4.33400	5.75000	C2
118	19.15000	16.45000	0.88900	6.24500	3.81500	3.08400	6.18500	C2
119	18.89000	16.23000	0.90080	6.22700	3.76900	3.63900	5.96600	C2
120	20.03000	16.90000	0.88110	6.49300	3.85700	3.06300	6.32000	C2
122	18.14000	16.12000	0.87720	6.05900	3.56300	3.61900	6.01100	C2
123	16.17000	15.38000	0.85880	5.76200	3.38700	4.28600	5.70300	C2
124	18.43000	15.97000	0.90770	5.98000	3.77100	2.98400	5.90500	C2
126	18.75000	16.18000	0.89990	6.11100	3.86900	4.18800	5.99200	C2
127	18.65000	16.41000	0.86980	6.28500	3.59400	4.39100	6.10200	C2
128	17.98000	15.85000	0.89930	5.97900	3.68700	2.25700	5.91900	C2
129	20.16000	17.03000	0.87350	6.51300	3.77300	1.91000	6.18500	C2
130	17.55000	15.66000	0.89910	5.79100	3.69000	5.36600	5.66100	C2
131	18.30000	15.89000	0.91080	5.97900	3.75500	2.83700	5.96200	C2
132	18.94000	16.32000	0.89420	6.14400	3.82500	2.90800	5.94900	C2
134	16.16000	15.33000	0.86440	5.84500	3.39500	4.26600	5.79500	C2
137	17.36000	15.76000	0.87850	6.14500	3.57400	3.52600	5.97100	C2
140	16.23000	15.18000	0.88500	5.87200	3.47200	3.76900	5.92200	C2

Lampiran 9. Hasil proses *clustering cluster* ketiga di empat *cluster*

No	Area A	Perimeter P	Compactness C	Length of kernel	Width of Kernel	Asymmetry Coefficient	Length of Kernel Groove	CLUSTER
17	13.99000	13.83000	0.91830	5.11900	3.38300	5.23400	4.78100	C3
20	12.72000	13.57000	0.86860	5.22600	3.04900	4.10200	4.91400	C3
40	14.28000	14.17000	0.89440	5.39700	3.29800	6.68500	5.00100	C3
61	11.42000	12.86000	0.86830	5.00800	2.85000	2.70000	4.00000	C3
62	11.23000	12.63000	0.88400	4.90200	2.87900	2.26900	4.70300	C3
63	12.36000	13.19000	0.89230	5.07600	3.04200	3.22000	4.60500	C3
64	13.22000	13.84000	0.86800	5.39500	3.07000	4.15700	5.08800	C3
70	12.73000	13.75000	0.84580	5.41200	2.88200	3.53300	5.06700	C3
141	13.07000	13.92000	0.84800	5.47200	2.99400	5.30400	5.39500	C3
142	13.32000	13.94000	0.86130	5.54100	3.07300	7.03500	5.44000	C3
143	13.34000	13.95000	0.86200	5.38900	3.07400	5.99500	5.30700	C3
144	12.22000	13.32000	0.86520	5.22400	2.96700	5.46900	5.22100	C3
145	11.82000	13.40000	0.82740	5.31400	2.77700	4.47100	5.17800	C3
146	11.21000	13.13000	0.81670	5.27900	2.68700	6.16900	5.27500	C3
147	11.43000	13.13000	0.83350	5.17600	2.71900	2.22100	5.13200	C3
148	12.49000	13.46000	0.86580	5.26700	2.96700	4.42100	5.00200	C3
149	12.70000	13.71000	0.84910	5.38600	2.91100	3.26000	5.31600	C3
150	10.79000	12.93000	0.81070	5.31700	2.64800	5.46200	5.19400	C3
151	11.83000	13.23000	0.84960	5.26300	2.84000	5.19500	5.30700	C3
152	12.01000	13.52000	0.82490	5.40500	2.77600	6.99200	5.27000	C3
153	12.26000	13.60000	0.83330	5.40800	2.83300	4.75600	5.36000	C3
154	11.18000	13.04000	0.82660	5.22000	2.69300	3.33200	5.00100	C3
155	11.36000	13.05000	0.83820	5.17500	2.75500	4.04800	5.26300	C3
156	11.19000	13.05000	0.82530	5.25000	2.67500	5.81300	5.21900	C3
157	11.34000	12.87000	0.85960	5.05300	2.84900	3.34700	5.00300	C3
158	12.13000	13.73000	0.80810	5.39400	2.74500	4.82500	5.22000	C3
159	11.75000	13.52000	0.80820	5.44400	2.67800	4.37800	5.31000	C3
160	11.49000	13.22000	0.82630	5.30400	2.69500	5.38800	5.31000	C3
161	12.54000	13.67000	0.84250	5.45100	2.87900	3.08200	5.49100	C3
162	12.02000	13.33000	0.85030	5.35000	2.81000	4.27100	5.30800	C3
163	12.05000	13.41000	0.84160	5.26700	2.84700	4.98800	5.04600	C3
164	12.55000	13.57000	0.85580	5.33300	2.96800	4.41900	5.17600	C3
165	11.14000	12.79000	0.85580	5.01100	2.79400	6.38800	5.04900	C3
166	12.10000	13.15000	0.87930	5.10500	2.94100	2.20100	5.05600	C3
167	12.44000	13.59000	0.84620	5.31900	2.89700	4.92400	5.27000	C3
168	12.15000	13.45000	0.84430	5.41700	2.83700	3.63800	5.33800	C3
169	11.35000	13.12000	0.82910	5.17600	2.66800	4.33700	5.13200	C3
170	11.24000	13.00000	0.83590	5.09000	2.71500	3.52100	5.00000	C3
171	11.02000	13.00000	0.81890	5.32500	2.70100	6.73500	5.00000	C3
172	11.55000	13.10000	0.84550	5.16700	2.84500	6.71500	4.95600	C3
173	11.27000	12.97000	0.84190	5.08800	2.76300	4.30900	5.00000	C3
174	11.40000	13.08000	0.83750	5.13600	2.76300	5.58800	5.08900	C3
175	10.83000	12.96000	0.80990	5.27800	2.64100	5.18200	5.18500	C3
176	10.80000	12.57000	0.85900	4.98100	2.82100	4.77300	5.06300	C3
177	11.26000	13.01000	0.83550	5.18600	2.71000	5.33500	5.09200	C3
178	10.74000	12.73000	0.83290	5.14500	2.64200	4.70200	4.96300	C3
179	11.48000	13.05000	0.84730	5.18000	2.75800	5.87600	5.00200	C3
181	11.41000	12.95000	0.85600	5.09000	2.77500	4.95700	4.82500	C3
182	12.46000	13.41000	0.87060	5.23600	3.01700	4.98700	5.14700	C3
183	12.19000	13.36000	0.85790	5.24000	2.90900	4.85700	5.15800	C3
184	11.65000	13.07000	0.85750	5.10800	2.85000	5.20900	5.13500	C3
185	12.89000	13.77000	0.85410	5.49500	3.02600	6.18500	5.31600	C3
186	11.56000	13.31000	0.81980	5.36300	2.68300	4.06200	5.18200	C3
187	11.81000	13.45000	0.81980	5.41300	2.71600	4.89800	5.35200	C3
188	10.91000	12.80000	0.83720	5.08800	2.67500	4.17900	4.95600	C3
189	11.23000	12.82000	0.85940	5.08900	2.82100	7.52400	4.95700	C3
190	10.59000	12.41000	0.86480	4.89900	2.78700	4.97500	4.79400	C3
191	10.93000	12.80000	0.83900	5.04600	2.71700	5.39800	5.04500	C3
192	11.27000	12.86000	0.85630	5.09100	2.80400	3.98500	5.00100	C3
193	11.87000	13.02000	0.87950	5.13200	2.95300	3.59700	5.13200	C3
194	10.82000	12.83000	0.82560	5.18000	2.63000	4.85300	5.08900	C3
195	12.11000	13.27000	0.86390	5.23600	2.97500	4.13200	5.01200	C3
196	12.80000	13.47000	0.88600	5.16000	3.12600	4.87300	4.91400	C3
197	12.79000	13.53000	0.87860	5.22400	3.05400	5.48300	4.95800	C3
198	13.37000	13.78000	0.88490	5.32000	3.12800	4.67000	5.09100	C3
199	12.62000	13.67000	0.84810	5.41000	2.91100	3.30600	5.23100	C3
201	12.38000	13.44000	0.86090	5.21900	2.98900	5.47200	5.04500	C3
203	11.18000	12.72000	0.86800	5.00900	2.81000	4.05100	4.82800	C3
204	12.70000	13.41000	0.88740	5.18300	3.09100	8.45600	5.00000	C3
205	12.37000	13.47000	0.85670	5.20400	2.96000	3.91900	5.00100	C3
206	12.19000	13.20000	0.87830	5.13700	2.98100	3.63100	4.87000	C3
207	11.23000	12.88000	0.85110	5.14000	2.79500	4.32500	5.00300	C3
208	13.20000	13.66000	0.88830	5.23600	3.23200	8.31500	5.05600	C3
209	11.84000	13.21000	0.85210	5.17500	2.83600	3.59800	5.04400	C3
210	12.30000	13.34000	0.86840	5.24300	2.97400	5.63700	5.06300	C3

Lampiran 10. Hasil proses *clustering cluster* empat di empat *cluster*

No	Area A	Perimeter P	Compactness C	Length of kernel	Width of Kernel	Asymmetry Coefficient	Length of Kernel Groove	CLUSTER
78	20.71000	17.23000	0.87630	6.57900	3.81400	4.45100	6.45100	C4
79	18.94000	16.49000	0.87500	6.44500	3.63900	5.06400	6.36200	C4
82	18.72000	16.19000	0.89770	6.00600	3.85700	5.32400	5.87900	C4
83	20.20000	16.89000	0.88940	6.28500	3.86400	5.17300	6.18700	C4
89	21.18000	17.21000	0.89890	6.57300	4.03300	5.78000	6.23100	C4
90	20.88000	17.05000	0.90310	6.45000	4.03200	5.01600	6.32100	C4
94	18.59000	16.05000	0.90660	6.03700	3.86000	6.00100	5.87700	C4
95	18.36000	16.52000	0.84520	6.66600	3.48500	4.93300	6.44800	C4
103	19.46000	16.50000	0.89850	6.11300	3.89200	4.30800	6.00900	C4
114	19.14000	16.61000	0.87220	6.25900	3.73700	6.68200	6.05300	C4
115	20.97000	17.25000	0.88590	6.56300	3.99100	4.67700	6.31600	C4
121	20.24000	16.91000	0.88970	6.31500	3.96200	5.90100	6.18800	C4

Lampiran 11. Hasil proses *clustering cluster* pertama di lima *cluster*

No	Area A	Perimeter P	Compactness C	Length of kernel	Width of Kernel	Asymmetry Coefficient	Length of Kernel Groove	CLUSTER
20	12.72000	13.57000	0.86860	5.22600	3.04900	4.10200	4.91400	C1
24	12.08000	13.23000	0.86640	5.09900	2.93600	1.41500	4.96100	C1
27	13.02000	13.76000	0.86410	5.39500	3.02600	3.37300	4.82500	C1
28	12.74000	13.67000	0.85640	5.39500	2.95600	2.50400	4.86900	C1
30	13.45000	14.02000	0.86040	5.51600	3.06500	3.53100	5.09700	C1
31	13.16000	13.82000	0.86620	5.45400	2.97500	0.85510	5.05600	C1
41	13.54000	13.85000	0.88710	5.34800	3.15600	2.58700	5.17800	C1
42	13.50000	13.85000	0.88520	5.35100	3.15800	2.24900	5.17600	C1
43	13.16000	13.55000	0.90090	5.13800	3.20100	2.46100	4.78300	C1
60	12.11000	13.47000	0.83920	5.15900	3.03200	1.50200	4.51900	C1
61	11.42000	12.86000	0.86830	5.00800	2.85000	2.70000	4.00000	C1
62	11.23000	12.63000	0.88400	4.90200	2.87900	2.26900	4.70300	C1
63	12.36000	13.19000	0.89230	5.07600	3.04200	3.22000	4.60500	C1
64	13.22000	13.84000	0.86800	5.39500	3.07000	4.15700	5.08800	C1
65	12.78000	13.57000	0.87160	5.26200	3.02600	1.17600	4.78200	C1
66	12.88000	13.50000	0.88790	5.13900	3.11900	2.35200	4.60700	C1
70	12.73000	13.75000	0.84580	5.41200	2.88200	3.53300	5.06700	C1
147	11.43000	13.13000	0.83350	5.17600	2.71900	2.22100	5.13200	C1
149	12.70000	13.71000	0.84910	5.38600	2.91100	3.26000	5.31600	C1
154	11.18000	13.04000	0.82660	5.22000	2.69300	3.33200	5.00100	C1
157	11.34000	12.87000	0.85960	5.05300	2.84900	3.34700	5.00300	C1
161	12.54000	13.67000	0.84250	5.45100	2.87900	3.08200	5.49100	C1
166	12.10000	13.15000	0.87930	5.10500	2.94100	2.20100	5.05600	C1
168	12.15000	13.45000	0.84430	5.41700	2.83700	3.63800	5.33800	C1
170	11.24000	13.00000	0.83590	5.09000	2.71500	3.52100	5.00000	C1
180	12.21000	13.47000	0.84530	5.35700	2.89300	1.66100	5.17800	C1
193	11.87000	13.02000	0.87950	5.13200	2.95300	3.59700	5.13200	C1
199	12.62000	13.67000	0.84810	5.41000	2.91100	3.30600	5.23100	C1
200	12.76000	13.38000	0.89640	5.07300	3.15500	2.82800	4.83000	C1
202	12.67000	13.32000	0.89770	4.98400	3.13500	2.30000	4.00000	C1
205	12.37000	13.47000	0.85670	5.20400	2.96000	3.91900	5.00100	C1
206	12.19000	13.20000	0.87830	5.13700	2.98100	3.63100	4.87000	C1
209	11.84000	13.21000	0.85210	5.17500	2.83600	3.59800	5.04400	C1

Lampiran 12. Hasil proses *clustering cluster* kedua di lima *cluster*

No	Area A	Perimeter P	Compactness C	Length of kernel	Width of Kernel	Asymmetry Coefficient	Length of Kernel Groove	CLUSTER
38	17.08000	15.38000	0.90790	5.83200	3.68300	2.95600	5.48400	C2
71	17.63000	15.98000	0.86730	6.19100	3.56100	4.07600	6.06000	C2
72	16.84000	15.67000	0.86230	5.99800	3.48400	4.67500	5.87700	C2
73	17.26000	15.73000	0.87630	5.97800	3.59400	4.53900	5.79100	C2
74	19.11000	16.26000	0.90810	6.15400	3.93000	2.93600	6.07900	C2
75	16.82000	15.51000	0.87860	6.01700	3.48600	4.00400	5.84100	C2
76	16.77000	15.62000	0.86380	5.92700	3.43800	4.92000	5.79500	C2
77	17.32000	15.91000	0.85990	6.06400	3.40300	3.82400	5.92200	C2
80	17.12000	15.55000	0.88920	5.85000	3.56600	2.85800	5.74600	C2
81	16.53000	15.34000	0.88230	5.87500	3.46700	5.53200	5.88000	C2
84	19.57000	16.74000	0.87790	6.38400	3.77200	1.47200	6.27300	C2
85	19.51000	16.71000	0.87800	6.36600	3.80100	2.96200	6.18500	C2
86	18.27000	16.09000	0.88700	6.17300	3.65100	2.44300	6.19700	C2
87	18.88000	16.26000	0.89690	6.08400	3.76400	1.64900	6.10900	C2
88	18.98000	16.66000	0.85900	6.54900	3.67000	3.69100	6.49800	C2
91	20.10000	16.99000	0.87460	6.58100	3.78500	1.95500	6.44900	C2
92	18.76000	16.20000	0.89840	6.17200	3.79600	3.12000	6.05300	C2
93	18.81000	16.29000	0.89060	6.27200	3.69300	3.23700	6.05300	C2
96	16.87000	15.65000	0.86480	6.13900	3.46300	3.69600	5.96700	C2
97	19.31000	16.59000	0.88150	6.34100	3.81000	3.47700	6.23800	C2
98	18.98000	16.57000	0.86870	6.44900	3.55200	2.14400	6.45300	C2
99	18.17000	16.26000	0.86370	6.27100	3.51200	2.85300	6.27300	C2
100	18.72000	16.34000	0.88100	6.21900	3.68400	2.18800	6.09700	C2
102	17.99000	15.86000	0.89920	5.89000	3.69400	2.06800	5.83700	C2
104	19.18000	16.63000	0.87170	6.36900	3.68100	3.35700	6.22900	C2
105	18.95000	16.42000	0.88290	6.24800	3.75500	3.36800	6.14800	C2
106	18.83000	16.29000	0.89170	6.03700	3.78600	2.55300	5.87900	C2
107	18.85000	16.17000	0.90560	6.15200	3.80600	2.84300	6.20000	C2
108	17.63000	15.86000	0.88000	6.03300	3.57300	3.74700	5.92900	C2
109	19.94000	16.92000	0.87520	6.67500	3.76300	3.25200	6.55000	C2
110	18.55000	16.22000	0.88650	6.15300	3.67400	1.73800	5.89400	C2
111	18.45000	16.12000	0.89210	6.10700	3.76900	2.23500	5.79400	C2
112	19.38000	16.72000	0.87160	6.30300	3.79100	3.67800	5.96500	C2
113	19.13000	16.31000	0.90350	6.18300	3.90200	2.10900	5.92400	C2
116	19.06000	16.45000	0.88540	6.41600	3.71900	2.24800	6.16300	C2
117	18.96000	16.20000	0.90770	6.05100	3.89700	4.33400	5.75000	C2
118	19.15000	16.45000	0.88900	6.24500	3.81500	3.08400	6.18500	C2
119	18.89000	16.23000	0.90080	6.22700	3.76900	3.63900	5.96600	C2
120	20.03000	16.90000	0.88110	6.49300	3.85700	3.06300	6.32000	C2
122	18.14000	16.12000	0.87720	6.05900	3.56300	3.61900	6.01100	C2
124	18.43000	15.97000	0.90770	5.98000	3.77100	2.98400	5.90500	C2
126	18.75000	16.18000	0.89990	6.11100	3.86900	4.18800	5.99200	C2
127	18.65000	16.41000	0.86980	6.28500	3.59400	4.39100	6.10200	C2
128	17.98000	15.85000	0.89930	5.97900	3.68700	2.25700	5.91900	C2
129	20.16000	17.03000	0.87350	6.51300	3.77300	1.91000	6.18500	C2
130	17.55000	15.66000	0.89910	5.79100	3.69000	5.36600	5.66100	C2
131	18.30000	15.89000	0.91080	5.97900	3.75500	2.83700	5.96200	C2
132	18.94000	16.32000	0.89420	6.14400	3.82500	2.90800	5.94900	C2
137	17.36000	15.76000	0.87850	6.14500	3.57400	3.52600	5.97100	C2

Lampiran 13. Hasil proses *clustering cluster* ketiga di lima *cluster*

No	Area A	Perimeter P	Compactness C	Length of kernel	Width of Kernel	Asymmetry Coefficient	Length of Kernel Groove	CLUSTER
1	15.26000	14.84000	0.87100	5.76300	3.31200	2.22100	5.22000	C3
2	14.88000	14.57000	0.88110	5.55400	3.33300	1.01800	4.95600	C3
3	14.29000	14.09000	0.90500	5.29100	3.33700	2.69900	4.82500	C3
4	13.84000	13.94000	0.89550	5.32400	3.37900	2.25900	4.80500	C3
5	16.14000	14.99000	0.90340	5.65800	3.56200	1.35500	5.17500	C3
6	14.38000	14.21000	0.89510	5.38600	3.31200	2.46200	4.95600	C3
7	14.69000	14.49000	0.87990	5.56300	3.25900	3.58600	5.21900	C3
8	14.11000	14.10000	0.89110	5.42000	3.30200	2.70000	5.00000	C3
9	16.63000	15.46000	0.87470	6.05300	3.46500	2.04000	5.87700	C3
10	16.44000	15.25000	0.88800	5.88400	3.50500	1.96900	5.53300	C3
11	15.26000	14.85000	0.86960	5.71400	3.24200	4.54300	5.31400	C3
12	14.03000	14.16000	0.87960	5.43800	3.20100	1.71700	5.00100	C3
13	13.89000	14.02000	0.88800	5.43900	3.19900	3.98600	4.73800	C3
14	13.78000	14.06000	0.87590	5.47900	3.15600	3.13600	4.87200	C3
15	13.74000	14.05000	0.87440	5.48200	3.11400	2.93200	4.82500	C3
16	14.59000	14.28000	0.89930	5.35100	3.33300	4.18500	4.78100	C3
18	15.69000	14.75000	0.90580	5.52700	3.51400	1.59900	5.04600	C3
19	14.70000	14.21000	0.91530	5.20500	3.46600	1.76700	4.64900	C3
21	14.16000	14.40000	0.85840	5.65800	3.12900	3.07200	5.17600	C3
22	14.11000	14.26000	0.87220	5.52000	3.16800	2.68800	5.21900	C3
23	15.88000	14.90000	0.89880	5.61800	3.50700	0.76510	5.09100	C3
25	15.01000	14.76000	0.86570	5.78900	3.24500	1.79100	5.00100	C3
26	16.19000	15.16000	0.88490	5.83300	3.42100	0.90300	5.30700	C3
29	14.11000	14.18000	0.88200	5.54100	3.22100	2.75400	5.03800	C3
32	15.49000	14.94000	0.87240	5.75700	3.37100	3.41200	5.22800	C3
33	14.09000	14.41000	0.85290	5.71700	3.18600	3.92000	5.29900	C3
34	13.94000	14.17000	0.87280	5.58500	3.15000	2.12400	5.01200	C3
35	15.05000	14.68000	0.87790	5.71200	3.32800	2.12900	5.36000	C3
36	16.12000	15.00000	0.90000	5.70900	3.48500	2.00000	5.44300	C3
37	16.20000	15.27000	0.87340	5.82600	3.46400	2.82300	5.52700	C3
39	14.80000	14.52000	0.88230	5.65600	3.28800	3.11200	5.30900	C3
44	15.50000	14.86000	0.88200	5.87700	3.39600	4.71100	5.52800	C3
45	15.11000	14.54000	0.89860	5.57900	3.46200	3.12800	5.18000	C3
46	13.80000	14.04000	0.87940	5.37600	3.15500	1.56000	4.96100	C3
47	15.36000	14.76000	0.88610	5.70100	3.39300	1.36700	5.13200	C3
48	14.99000	14.56000	0.88830	5.57000	3.37700	2.95800	5.17500	C3
49	14.79000	14.52000	0.88190	5.54500	3.29100	2.70400	5.11100	C3
50	14.86000	14.67000	0.86760	5.67800	3.25800	2.12900	5.35100	C3
51	14.43000	14.40000	0.87510	5.58500	3.27200	3.97500	5.14400	C3
52	15.78000	14.91000	0.89230	5.67400	3.43400	5.59300	5.13600	C3
53	14.49000	14.61000	0.85380	5.71500	3.11300	4.11600	5.39600	C3
54	14.33000	14.28000	0.88310	5.50400	3.19900	3.32800	5.22400	C3
55	14.52000	14.60000	0.85570	5.74100	3.11300	1.48100	5.48700	C3
56	15.03000	14.77000	0.86580	5.70200	3.21200	1.93300	5.43900	C3
57	14.46000	14.35000	0.88180	5.38800	3.37700	2.80200	5.04400	C3
58	14.92000	14.43000	0.90060	5.38400	3.41200	1.14200	5.08800	C3
59	15.38000	14.77000	0.88570	5.66200	3.41900	1.99900	5.22200	C3
67	14.34000	14.37000	0.87260	5.63000	3.19000	1.31300	5.15000	C3
68	14.01000	14.29000	0.86250	5.60900	3.15800	2.21700	5.13200	C3
69	14.37000	14.39000	0.87260	5.56900	3.15300	1.46400	5.30000	C3
101	16.41000	15.25000	0.88660	5.71800	3.52500	4.21700	5.61800	C3
123	16.17000	15.38000	0.85880	5.76200	3.38700	4.28600	5.70300	C3
125	15.99000	14.89000	0.90640	5.36300	3.58200	3.33600	5.14400	C3
133	15.38000	14.90000	0.87060	5.88400	3.26800	4.46200	5.79500	C3
134	16.16000	15.33000	0.86440	5.84500	3.39500	4.26600	5.79500	C3
135	15.56000	14.89000	0.88230	5.77600	3.40800	4.97200	5.84700	C3
136	15.38000	14.66000	0.89900	5.47700	3.46500	3.60000	5.00000	C3
138	15.57000	15.15000	0.85270	5.92000	3.23100	2.64000	5.87900	C3
139	15.60000	15.11000	0.85800	5.83200	3.28600	2.72500	5.75200	C3
140	16.23000	15.18000	0.88500	5.87200	3.47200	3.76900	5.92200	C3

Lampiran 14. Hasil proses *clustering cluster* keempat di lima *cluster*

No	Area A	Perimeter P	Compactness C	Length of kernel	Width of Kernel	Asymmetry Coefficient	Length of Kernel Groove	CLUSTER
17	13.99000	13.83000	0.91830	5.11900	3.38300	5.23400	4.78100	C4
40	14.28000	14.17000	0.89440	5.39700	3.29800	6.68500	5.00100	C4
141	13.07000	13.92000	0.84800	5.47200	2.99400	5.30400	5.39500	C4
142	13.32000	13.94000	0.86130	5.54100	3.07300	7.03500	5.44000	C4
143	13.34000	13.95000	0.86200	5.38900	3.07400	5.99500	5.30700	C4
144	12.22000	13.32000	0.86520	5.22400	2.96700	5.46900	5.22100	C4
145	11.82000	13.40000	0.82740	5.31400	2.77700	4.47100	5.17800	C4
146	11.21000	13.13000	0.81670	5.27900	2.68700	6.16900	5.27500	C4
148	12.49000	13.46000	0.86580	5.26700	2.96700	4.42100	5.00200	C4
150	10.79000	12.93000	0.81070	5.31700	2.64800	5.46200	5.19400	C4
151	11.83000	13.23000	0.84960	5.26300	2.84000	5.19500	5.30700	C4
152	12.01000	13.52000	0.82490	5.40500	2.77600	6.99200	5.27000	C4
153	12.26000	13.60000	0.83330	5.40800	2.83300	4.75600	5.36000	C4
155	11.36000	13.05000	0.83820	5.17500	2.75500	4.04800	5.26300	C4
156	11.19000	13.05000	0.82530	5.25000	2.67500	5.81300	5.21900	C4
158	12.13000	13.73000	0.80810	5.39400	2.74500	4.82500	5.22000	C4
159	11.75000	13.52000	0.80820	5.44400	2.67800	4.37800	5.31000	C4
160	11.49000	13.22000	0.82630	5.30400	2.69500	5.38800	5.31000	C4
162	12.02000	13.33000	0.85030	5.35000	2.81000	4.27100	5.30800	C4
163	12.05000	13.41000	0.84160	5.26700	2.84700	4.98800	5.04600	C4
164	12.55000	13.57000	0.85580	5.33300	2.96800	4.41900	5.17600	C4
165	11.14000	12.79000	0.85580	5.01100	2.79400	6.38800	5.04900	C4
167	12.44000	13.59000	0.84620	5.31900	2.89700	4.92400	5.27000	C4
169	11.35000	13.12000	0.82910	5.17600	2.66800	4.33700	5.13200	C4
171	11.02000	13.00000	0.81890	5.32500	2.70100	6.73500	5.00000	C4
172	11.55000	13.10000	0.84550	5.16700	2.84500	6.71500	4.95600	C4
173	11.27000	12.97000	0.84190	5.08800	2.76300	4.30900	5.00000	C4
174	11.40000	13.08000	0.83750	5.13600	2.76300	5.58800	5.08900	C4
175	10.83000	12.96000	0.80990	5.27800	2.64100	5.18200	5.18500	C4
176	10.80000	12.57000	0.85900	4.98100	2.82100	4.77300	5.06300	C4
177	11.26000	13.01000	0.83550	5.18600	2.71000	5.33500	5.09200	C4
178	10.74000	12.73000	0.83290	5.14500	2.64200	4.70200	4.96300	C4
179	11.48000	13.05000	0.84730	5.18000	2.75800	5.87600	5.00200	C4
181	11.41000	12.95000	0.85600	5.09000	2.77500	4.95700	4.82500	C4
182	12.46000	13.41000	0.87060	5.23600	3.01700	4.98700	5.14700	C4
183	12.19000	13.36000	0.85790	5.24000	2.90900	4.85700	5.15800	C4
184	11.65000	13.07000	0.85750	5.10800	2.85000	5.20900	5.13500	C4
185	12.89000	13.77000	0.85410	5.49500	3.02600	6.18500	5.31600	C4
186	11.56000	13.31000	0.81980	5.36300	2.68300	4.06200	5.18200	C4
187	11.81000	13.45000	0.81980	5.41300	2.71600	4.89800	5.35200	C4
188	10.91000	12.80000	0.83720	5.08800	2.67500	4.17900	4.95600	C4
189	11.23000	12.82000	0.85940	5.08900	2.82100	7.52400	4.95700	C4
190	10.59000	12.41000	0.86480	4.89900	2.78700	4.97500	4.79400	C4
191	10.93000	12.80000	0.83900	5.04600	2.71700	5.39800	5.04500	C4
192	11.27000	12.86000	0.85630	5.09100	2.80400	3.98500	5.00100	C4
194	10.82000	12.83000	0.82560	5.18000	2.63000	4.85300	5.08900	C4
195	12.11000	13.27000	0.86390	5.23600	2.97500	4.13200	5.01200	C4
196	12.80000	13.47000	0.88600	5.16000	3.12600	4.87300	4.91400	C4
197	12.79000	13.53000	0.87860	5.22400	3.05400	5.48300	4.95800	C4
198	13.37000	13.78000	0.88490	5.32000	3.12800	4.67000	5.09100	C4
201	12.38000	13.44000	0.86090	5.21900	2.98900	5.47200	5.04500	C4
203	11.18000	12.72000	0.86800	5.00900	2.81000	4.05100	4.82800	C4
204	12.70000	13.41000	0.88740	5.18300	3.09100	8.45600	5.00000	C4
207	11.23000	12.88000	0.85110	5.14000	2.79500	4.32500	5.00300	C4
208	13.20000	13.66000	0.88830	5.23600	3.23200	8.31500	5.05600	C4
210	12.30000	13.34000	0.86840	5.24300	2.97400	5.63700	5.06300	C4

Lampiran 15. Hasil proses *clustering cluster* kelima di lima *cluster*

No	Area A	Perimeter P	Compactness C	Length of kernel	Width of Kernel	Asymmetry Coefficient	Length of Kernel Groove	CLUSTER
78	20.71000	17.23000	0.87630	6.57900	3.81400	4.45100	6.45100	C5
79	18.94000	16.49000	0.87500	6.44500	3.63900	5.06400	6.36200	C5
82	18.72000	16.19000	0.89770	6.00600	3.85700	5.32400	5.87900	C5
83	20.20000	16.89000	0.88940	6.28500	3.86400	5.17300	6.18700	C5
89	21.18000	17.21000	0.89890	6.57300	4.03300	5.78000	6.23100	C5
90	20.88000	17.05000	0.90310	6.45000	4.03200	5.01600	6.32100	C5
94	18.59000	16.05000	0.90660	6.03700	3.86000	6.00100	5.87700	C5
95	18.36000	16.52000	0.84520	6.66600	3.48500	4.93300	6.44800	C5
103	19.46000	16.50000	0.89850	6.11300	3.89200	4.30800	6.00900	C5
114	19.14000	16.61000	0.87220	6.25900	3.73700	6.68200	6.05300	C5
115	20.97000	17.25000	0.88590	6.56300	3.99100	4.67700	6.31600	C5
121	20.24000	16.91000	0.88970	6.31500	3.96200	5.90100	6.18800	C5

