













































LAMPIRAN 2
DATA YANG DIGUNAKAN UNTUK PENELITIAN










No	Nama Citra	Ciri Ekstraksi	Nilai Ciri Sebelum	Setelah di Normalisasi
1	sk_uji1.jpg 	Area	733908.7500	0.7653
		Perimeter	11691.3750	0.8668
		Indeks Kebulatan	0.0675	0.0053
		Compacnest	14.8211	0.9260
2	sk_uji2.jpg 	Area	803796.8750	0.8559
		Perimeter	12273.5000	0.9159
		Indeks Kebulatan	0.0671	0.0048
		Compacnest	14.9235	0.9322
3	sk_uji3.jpg 	Area	802136.0000	0.8537
		Perimeter	10508.6250	0.7668
		Indeks Kebulatan	0.0913	0.0324
		Compacnest	10.9555	0.6658
4	sk_uji4.jpg 	Area	666943.1250	0.6786
		Perimeter	9924.2500	0.7175
		Indeks Kebulatan	0.0851	0.0253
		Compacnest	11.7516	0.7194
5	sk_uji5.jpg 	Area	733675.6250	0.7650
		Perimeter	10389.5000	0.7568
		Indeks Kebulatan	0.0854	0.0257
		Compacnest	11.7078	0.7165
6	sk_uji6.jpg 	Area	912957.6250	0.9973
		Perimeter	13268.7500	1.0000
		Indeks Kebulatan	0.0652	0.0027
		Compacnest	15.3462	0.9613
7	sk_uji7.jpg 	Area	728850.8750	0.7588
		Perimeter	11518.6250	0.8522
		Indeks Kebulatan	0.0690	0.0071
		Compacnest	14.4861	0.9034
8	sk_uji8.jpg 	Area	676393.3750	0.6908
		Perimeter	11128.5000	0.8192
		Indeks Kebulatan	0.0686	0.0066
		Compacnest	14.5702	0.9091










9	sk_uji9.jpg 	Area	799847.2500	0.8508
		Perimeter	11635.0000	0.8260
		Indeks Kebulatan	0.0742	0.0130
		Compacnest	13.4684	0.6349
10	sk_uji10.jpg 	Area	758949.1250	0.7978
		Perimeter	12224.8750	0.9118
		Indeks Kebulatan	0.0638	0.0012
		Compacnest	15.6699	0.9831
11	sk_uji11.jpg 	Area	733524.2500	0.7648
		Perimeter	12114.3750	0.9025
		Indeks Kebulatan	0.0628	0.0000
		Compacnest	15.9213	1.0000
12	sk_uji12.jpg 	Area	792403.1250	0.8411
		Perimeter	12264.6250	0.9152
		Indeks Kebulatan	0.0662	0.0039
		Compacnest	15.1061	0.9451
13	sk_uji13.jpg 	Area	84405.8750	0.9085
		Perimeter	12609.000	0.9443
		Indeks Kebulatan	0.0667	0.0045
		Compacnest	14.9830	0.9369
14	sk_uji14.jpg 	Area	659660.50000	0.6691
		Perimeter	11309.0000	0.8345
		Indeks Kebulatan	0.0648	0.0023
		Compacnest	15.4283	0.9668
15	sk_uji15.jpg 	Area	740651.6250	0.7741
		Perimeter	11393.1250	0.8416
		Indeks Kebulatan	0.0717	0.0101
		Compacnest	13.9464	0.8671
16	sk_uji16.jpg 	Area	704151.5000	0.7268
		Perimeter	10957.6250	0.8048
		Indeks Kebulatan	0.0737	0.0124
		Compacnest	13.5693	0.8417
17	sk_uji17.jpg 	Area	803437.6250	0.8554
		Perimeter	12655.3750	0.9482
		Indeks Kebulatan	0.0630	0.0003
		Compacnest	15.8631	0.9961









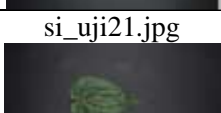
18	sk_uji18.jpg	Area	653392.6250	0.6610
		Perimeter	11034.25000	0.8112
		Indeks Kebulatan	0.0674	0.0053
		Compacnest	14.8286	0.9265
19	sk_uji19.jpg	Area	582670.8750	0.5694
		Perimeter	8329.3750	0.5828
		Indeks Kebulatan	0.1055	0.0486
		Compacnest	9.45753	0.5662
20	sk_uji20.jpg	Area	636421.50000	0.6390
		Perimeter	10645.3750	0.7784
		Indeks Kebulatan	0.0706	0.0088
		Compacnest	14.1699	0.8821
21	sk_uji21.jpg	Area	782828.2500	0.8287
		Perimeter	11940.1250	0.8878
		Indeks Kebulatan	0.0690	0.0071
		Compacnest	14.4924	0.9038
22	sk_uji22.jpg	Area	659403.7500	0.6688
		Perimeter	10648.3750	0.7787
		Indeks Kebulatan	0.0731	0.0117
		Compacnest	13.6838	0.8494
23	sk_uji23.jpg	Area	851616.3750	0.9178
		Perimeter	12504.6250	0.9355
		Indeks Kebulatan	0.0684	0.0064
		Compacnest	14.6113	0.9118
24	sk_uji24.jpg	Area	834310.0000	0.8954
		Perimeter	12309.1250	0.9189
		Indeks Kebulatan	0.0692	0.0073
		Compacnest	14.4516	0.9011
25	sk_uji25.jpg	Area	721056.5000	0.7487
		Perimeter	11251.5000	0.8296
		Indeks Kebulatan	0.0716	0.0100
		Compacnest	13.9715	0.8688
26	r_uji1.jpg	Area	392013.2500	0.3223
		Perimeter	7216.8750	0.4888
		Indeks Kebulatan	0.0946	0.0361
		Compacnest	10.5727	0.6401










27		Area	613009.3750	0.6087
		Perimeter	9938.3750	0.7187
		Indeks Kebulatan	0.0780	0.0173
		Compacnest	12.8219	0.7914
28		Area	379215.3750	0.3291
		Perimeter	7365.2500	0.5013
		Indeks Kebulatan	0.0920	0.0332
		Compacnest	10.8677	0.6599
29		Area	483396.3750	0.4407
		Perimeter	9212.5000	0.6574
		Indeks Kebulatan	0.0716	0.0100
		Compacnest	13.9715	0.8688
30		Area	463783.8750	0.4153
		Perimeter	9270.0000	0.6622
		Indeks Kebulatan	0.0678	0.0057
		Compacnest	14.7446	0.9208
31		Area	580424.0000	0.5664
		Perimeter	7131.2500	0.4816
		Indeks Kebulatan	0.1434	0.0917
		Compacnest	6.9723	0.3978
32		Area	313082.3750	0.2200
		Perimeter	6636.8750	0.4398
		Indeks Kebulatan	0.0893	0.0301
		Compacnest	11.1959	0.6820
33		Area	422087.8750	0.3613
		Perimeter	8305.8750	0.5808
		Indeks Kebulatan	0.0769	0.0160
		Compacnest	13.0064	0.8038
34		Area	481510.0000	0.4383
		Perimeter	8585.5000	0.6044
		Indeks Kebulatan	0.0821	0.0219
		Compacnest	12.1819	0.7484
35		Area	617367.7500	0.6143
		Perimeter	10301.3750	0.7493
		Indeks Kebulatan	0.0731	0.0117
		Compacnest	13.6784	0.8491










36		Area	623277.8750	0.6220
		Perimeter	10442.8750	0.7613
		Indeks Kebulatan	0.0718	0.0103
		Compacnest	13.9235	0.8656
37		Area	500202.0000	0.4625
		Perimeter	9306.1250	0.6653
		Indeks Kebulatan	0.0726	0.0111
		Compacnest	13.7779	0.8558
38		Area	546209.5000	0.5221
		Perimeter	9467.7500	0.6789
		Indeks Kebulatan	0.0766	0.0157
		Compacnest	13.0594	0.8074
39		Area	629068.5000	0.6295
		Perimeter	10443.3750	0.7613
		Indeks Kebulatan	0.0725	0.0110
		Compacnest	13.7967	0.8570
40		Area	584452.8750	0.5717
		Perimeter	10164.3750	0.7378
		Indeks Kebulatan	0.0711	0.0094
		Compacnest	14.0670	0.8752
41		Area	564224.3750	0.5455
		Perimeter	9271.6250	0.6624
		Indeks Kebulatan	0.0825	0.0224
		Compacnest	12.1241	0.7445
42		Area	638419.2500	0.6416
		Perimeter	10996.6250	0.8081
		Indeks Kebulatan	0.0663	0.0040
		Compacnest	15.0731	0.9429
43		Area	453072.2500	0.4014
		Perimeter	7715.3750	0.5309
		Indeks Kebulatan	0.0956	0.0373
		Compacnest	10.4553	0.6322
44		Area	289274.7500	0.1892
		Perimeter	6025.1250	0.3881
		Indeks Kebulatan	0.1001	0.0424
		Compacnest	9.9865	0.6006










45	r_uji20.jpg 	Area	477846.0000	0.4335
		Perimeter	7995.6250	0.5546
		Indeks Kebulatan	0.0939	0.0354
		Compacnest	10.6465	0.6450
46	r_uji21.jpg 	Area	497034.2500	0.4584
		Perimeter	9341.0000	0.6682
		Indeks Kebulatan	0.0716	0.0100
		Compacnest	13.9698	0.8687
47	r_uji22.jpg 	Area	299790.0000	0.2028
		Perimeter	5906.7500	0.3781
		Indeks Kebulatan	0.1080	0.0514
		Compacnest	9.2613	0.5518
48	r_uji23.jpg 	Area	268057.2500	0.1617
		Perimeter	4852.8750	0.2891
		Indeks Kebulatan	0.1430	0.0912
		Compacnest	6.9913	0.3991
49	r_uji24.jpg 	Area	285057.0000	0.1837
		Perimeter	5443.1250	0.3390
		Indeks Kebulatan	0.1209	0.0661
		Compacnest	8.2709	0.4852
50	r_uji25.jpg 	Area	369820.6250	0.2936
		Perimeter	6481.7500	0.4267
		Indeks Kebulatan	0.1106	0.0544
		Compacnest	9.0403	0.5369
51	si_uji1.jpg 	Area	221684.2500	0.1016
		Perimeter	1843.5000	0.0349
		Indeks Kebulatan	0.8197	0.8605
		Compacnest	1.2199	0.0107
52	si_uji2.jpg 	Area	285529.5000	0.1843
		Perimeter	2127.1250	0.0588
		Indeks Kebulatan	0.7930	0.8302
		Compacnest	1.2610	0.0134
53	si_uji3.jpg 	Area	278440.6250	0.1752
		Perimeter	2240.7500	0.0684
		Indeks Kebulatan	0.6969	0.7209
		Compacnest	1.4350	0.0252










54	si_uji4.jpg 	Area	271771.8750	0.1665
		Perimeter	2069.1250	0.0539
		Indeks Kebulatan	0.7977	0.8355
		Compacnest	1.2536	0.0129
55	si_uji5.jpg 	Area	268512.7500	0.1623
		Perimeter	2090.3750	0.0557
		Indeks Kebulatan	0.7722	0.8065
		Compacnest	1.2950	0.0157
56	si_uji6.jpg 	Area	252729.3750	0.1418
		Perimeter	2119.7500	0.0582
		Indeks Kebulatan	0.7068	0.7322
		Compacnest	1.4148	0.0238
57	si_uji7.jpg 	Area	245771.1250	0.1328
		Perimeter	2278.8750	0.0717
		Indeks Kebulatan	0.5947	0.6047
		Compacnest	1.6815	0.0417
58	si_uji8.jpg 	Area	230774.0000	0.1134
		Perimeter	1866.0000	0.0368
		Indeks Kebulatan	0.8329	0.8755
		Compacnest	1.2007	0.0094
59	si_uji9.jpg 	Area	268632.5000	0.1625
		Perimeter	2037.8750	0.0513
		Indeks Kebulatan	0.8129	0.8527
		Compacnest	1.2302	0.0114
60	si_uji10.jpg 	Area	238758.7500	0.1237
		Perimeter	1995.0000	0.0477
		Indeks Kebulatan	0.7538	0.7856
		Compacnest	1.3265	0.0179
61	si_uji11.jpg 	Area	223699.6250	0.1042
		Perimeter	1973.1250	0.0458
		Indeks Kebulatan	0.7220	0.7495
		Compacnest	1.3849	0.0218
62	si_uji12.jpg 	Area	268636.5000	0.1625
		Perimeter	2205.5000	0.0655
		Indeks Kebulatan	0.6940	0.7176
		Compacnest	1.4409	0.0256










63	si_uji13.jpg 	Area	241129.1250	0.1268
		Perimeter	1988.0000	0.0471
		Indeks Kebulatan	0.7667	0.8003
		Compacnest	1.3043	0.0164
64	si_uji14.jpg 	Area	248574.6250	0.1365
		Perimeter	2188.7500	0.0641
		Indeks Kebulatan	0.6520	0.6699
		Compacnest	1.5336	0.0318
65	si_uji15.jpg 	Area	293441.1250	0.1946
		Perimeter	2158.5000	0.0615
		Indeks Kebulatan	0.7915	0.8284
		Compacnest	1.2635	0.0136
66	si_uji16.jpg 	Area	265981.6250	0.1590
		Perimeter	2227.2500	0.0673
		Indeks Kebulatan	0.6738	0.6946
		Compacnest	1.4841	0.0285
67	si_uji17.jpg 	Area	227265.3750	0.1089
		Perimeter	1956.2500	0.0444
		Indeks Kebulatan	0.7463	0.7770
		Compacnest	1.3400	0.0188
68	si_uji18.jpg 	Area	249889.0000	0.1382
		Perimeter	2063.6250	0.0535
		Indeks Kebulatan	0.7374	0.7669
		Compacnest	1.3561	0.0198
69	si_uji19.jpg 	Area	279426.5000	0.1764
		Perimeter	2182.5000	0.0635
		Indeks Kebulatan	0.7372	0.7667
		Compacnest	1.3565	0.0199
70	si_uji20.jpg 	Area	266255.1250	0.1594
		Perimeter	2059.6250	0.0531
		Indeks Kebulatan	0.7887	0.8253
		Compacnest	1.2679	0.0139
71	si_uji21.jpg 	Area	262167.0000	0.1541
		Perimeter	2106.8750	0.0571
		Indeks Kebulatan	0.7422	0.7724
		Compacnest	1.3474	0.0193





72		Area	280440.0000	0.1778
		Perimeter	2218.0000	0.0665
		Indeks Kebulatan	0.7164	0.7430
		Compacnest	1.3960	0.0225
73		Area	271438.6250	0.1661
		Perimeter	2117.7500	0.0581
		Indeks Kebulatan	0.7606	0.7933
		Compacnest	1.3148	0.0171
74		Area	253984.8750	0.1435
		Perimeter	2036.8750	0.0512
		Indeks Kebulatan	0.7693	0.8032
		Compacnest	1.2999	0.0161
75		Area	276070.8750	0.1721
		Perimeter	2118.8750	0.0581
		Indeks Kebulatan	0.7727	0.8071
		Compacnest	1.2941	0.0157
76		Area	325856.2500	0.2366
		Perimeter	2226.7500	0.0673
		Indeks Kebulatan	0.8258	0.8675
		Compacnest	1.2109	0.0101
77		Area	369174.1250	0.2927
		Perimeter	2406.5000	0.0824
		Indeks Kebulatan	0.8011	0.8393
		Compacnest	1.2483	0.0126
78		Area	338895.6250	0.2535
		Perimeter	2293.2500	0.0729
		Indeks Kebulatan	0.8098	0.8492
		Compacnest	1.2349	0.0117
79		Area	310894.1250	0.2172
		Perimeter	2212.8750	0.0661
		Indeks Kebulatan	0.7978	0.8356
		Compacnest	1.2534	0.0129
80		Area	350845.1250	0.2690
		Perimeter	2335.6250	0.0765
		Indeks Kebulatan	0.8082	0.8474
		Compacnest	1.2373	0.0119

81	me_uji6.jpg 	Area	391768.2500	0.3220
		Perimeter	2526.2500	0.0926
		Indeks Kebulatan	0.7714	0.8056
		Compacnest	1.2963	0.0158
82	me_uji7.jpg 	Area	311674.2500	0.2182
		Perimeter	2167.3750	0.0622
		Indeks Kebulatan	0.8338	0.8765
		Compacnest	1.1994	0.0093
83	me_uji8.jpg 	Area	378732.2500	0.3051
		Perimeter	2544.8750	0.0941
		Indeks Kebulatan	0.7349	0.7641
		Compacnest	1.3608	0.0202
84	me_uji9.jpg 	Area	306829.7500	0.2119
		Perimeter	2353.5000	0.0780
		Indeks Kebulatan	0.6961	0.7200
		Compacnest	1.4366	0.0253
85	me_uji10.jpg 	Area	304648.6250	0.2091
		Perimeter	2220.3750	0.0667
		Indeks Kebulatan	0.7765	0.8114
		Compacnest	1.2878	0.0152
86	me_uji11.jpg 	Area	363946.5000	0.2860
		Perimeter	2280.6250	0.0718
		Indeks Kebulatan	0.8793	0.9283
		Compacnest	1.1373	0.0051
87	me_uji12.jpg 	Area	320629.7500	0.2298
		Perimeter	2310.2500	0.0743
		Indeks Kebulatan	0.7549	0.7868
		Compacnest	1.3247	0.0177
88	me_uji13.jpg 	Area	321931.2500	0.2315
		Perimeter	2247.6250	0.0690
		Indeks Kebulatan	0.8008	0.8390
		Compacnest	1.2487	0.0126
89	me_uji14.jpg 	Area	336793.7500	0.2508
		Perimeter	2262.6250	0.0703
		Indeks Kebulatan	0.8267	0.8685
		Compacnest	1.2096	0.0100

90	me_uji15.jpg 	Area	358649.7500	0.2791
		Perimeter	2226.3750	0.0672
		Indeks Kebulatan	0.9093	0.9623
		Compacnest	1.0998	0.0026
91	me_uji16.jpg 	Area	362087.2500	0.2835
		Perimeter	2303.8750	0.0738
		Indeks Kebulatan	0.8572	0.9032
		Compacnest	1.1665	0.0071
92	me_uji17.jpg 	Area	290124.8750	0.1903
		Perimeter	2137.6250	0.0597
		Indeks Kebulatan	0.7979	0.8357
		Compacnest	1.2533	0.0129
93	me_uji18.jpg 	Area	291673.3750	0.1923
		Perimeter	2189.2500	0.0641
		Indeks Kebulatan	0.7647	0.7980
		Compacnest	1.3076	0.0166
94	me_uji19.jpg 	Area	293837.2500	0.1951
		Perimeter	2284.0000	0.0721
		Indeks Kebulatan	0.7078	0.7333
		Compacnest	1.4128	0.0237
95	me_uji20.jpg 	Area	291380.5000	0.1919
		Perimeter	2293.3750	0.0729
		Indeks Kebulatan	0.6962	0.7201
		Compacnest	1.4364	0.0252
96	me_uji21.jpg 	Area	282721.8750	0.1807
		Perimeter	2192.2500	0.0643
		Indeks Kebulatan	0.7392	0.7690
		Compacnest	1.3527	0.0196
97	me_uji22.jpg 	Area	280445.2500	0.1778
		Perimeter	2027.0000	0.0504
		Indeks Kebulatan	0.8577	0.9037
		Compacnest	1.1659	0.0070
98	me_uji23.jpg 	Area	277690.3750	0.1742
		Perimeter	2176.7500	0.0630
		Indeks Kebulatan	0.7365	0.7659
		Compacnest	1.3578	0.0200

99		Area	276290.2500	0.1724
		Perimeter	2122.2500	0.0584
		Indeks Kebulatan	0.7709	0.8050
		Compacnest	1.2972	0.0159
100		Area	278019.7500	0.1746
		Perimeter	2011.2500	0.0491
		Indeks Kebulatan	0.8637	0.9105
		Compacnest	1.1578	0.0065
101		Area	751864.2500	0.7886
		Perimeter	3828.0000	0.2025
		Indeks Kebulatan	0.6448	0.6616
		Compacnest	1.5509	0.0330
102		Area	1091580.5000	1.2288
		Perimeter	13709.5000	1.0372
		Indeks Kebulatan	0.0730	0.0116
		Compacnest	13.7018	0.8506
103		Area	1207203.5000	1.3786
		Perimeter	5618.8750	0.3538
		Indeks Kebulatan	0.4805	0.4749
		Compacnest	2.0812	0.0686
104		Area	1112752.8750	1.2562
		Perimeter	5548.7500	0.3479
		Indeks Kebulatan	0.4542	0.4449
		Compacnest	2.2018	0.0768
105		Area	959563.0000	1.0577
		Perimeter	5343.7500	0.3306
		Indeks Kebulatan	0.4223	0.4087
		Compacnest	2.3681	0.0880
106		Area	1624084.7500	1.9187
		Perimeter	8026.5000	0.5572
		Indeks Kebulatan	0.3168	0.2888
		Compacnest	3.1567	0.1410
107		Area	926145.8750	1.0144
		Perimeter	26390.8750	2.1085
		Indeks Kebulatan	0.0167	-0.0524
		Compacnest	59.8437	3.9557

108		Area	1483900.6250	1.7371
		Perimeter	5238.3750	0.3217
		Indeks Kebulatan	0.6796	0.7012
		Compacnest	1.4716	0.0276
109		Area	1168795.2500	1.3288
		Perimeter	5122.7500	0.3119
		Indeks Kebulatan	0.5597	0.5649
		Compacnest	1.7867	0.0488
110		Area	1273898.2500	1.4650
		Perimeter	4614.1250	0.2689
		Indeks Kebulatan	0.7519	0.7834
		Compacnest	1.3299	0.0181
111		Area	1279213.0000	1.4719
		Perimeter	5167.3750	0.3157
		Indeks Kebulatan	0.6020	0.6130
		Compacnest	1.6611	0.0404
112		Area	1338465.8750	1.5487
		Perimeter	6160.2500	0.3995
		Indeks Kebulatan	0.4432	0.4325
		Compacnest	2.2562	0.0804
113		Area	1849669.5000	2.2110
		Perimeter	6197.8750	0.4027
		Indeks Kebulatan	0.6051	0.6165
		Compacnest	1.6527	0.0398
114		Area	867933.5000	0.9390
		Perimeter	8622.2500	0.6075
		Indeks Kebulatan	0.1467	0.0954
		Compacnest	6.8162	0.3873
115		Area	403815.6250	0.3376
		Perimeter	13784.7500	1.0436
		Indeks Kebulatan	0.0267	-0.0410
		Compacnest	37.4459	2.4485
116		Area	277497.1250	0.1739
		Perimeter	13362.1250	1.0079
		Indeks Kebulatan	0.0195	-0.0492
		Compacnest	51.2015	3.3742

117	bkn_17.jpg 	Area	665766.2500	0.6770
		Perimeter	32486.1250	2.6233
		Indeks Kebulatan	0.0079	-0.0624
		Compacnest	126.1433	8.4173
118	bkn_18.jpg 	Area	530939.6250	0.5023
		Perimeter	15157.1250	1.1595
		Indeks Kebulatan	0.0290	-0.0384
119	bkn_19.jpg 	Area	592284.7500	0.5818
		Perimeter	14968.8750	1.1436
		Indeks Kebulatan	0.0332	-0.0336
		Compacnest	30.1049	1.9545
120	bkn_20.jpg 	Area	1251610.2500	1.4361
		Perimeter	5098.5000	0.3098
		Indeks Kebulatan	0.6051	0.6165
		Compacnest	1.6527	0.0398