Diversity Measures PT ANJ Reg 1 dan 2 January - August 2020

Robby B Conservation Data Staff

9/18/2020

Contents

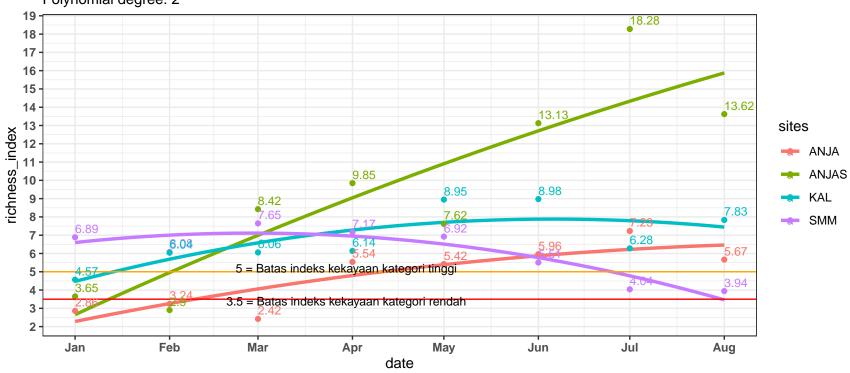
A. Species Richness Index 2	
B. Diversity Index	
C. Evenness Index	
Load packages	
<pre>library(ggplot2) library(dplyr) library(plotly) library(hrbrthemes) library(openxlsx) library(knitr)</pre>	
<pre>subjek <- "Region 1 dan 2" range_x <- "Jan - Aug 2020" filedata <- "C:/Users/robby/Documents/My R/Konservasi_ANJ/Diversity_measures/indeks_kehati</pre>	/data_jml_sp
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A. Species Richness Index

Table 1: Species Richness index Jan-August 2020

	date	sites	richness_index
1	2020-01-01	ANJA	2.859997
2	2020-01-01	ANJAS	3.648859
3	2020-01-01	SMM	6.887420
4	2020-01-01	KAL	4.568487
8	2020-02-01	ANJA	3.244053
9	2020-02-01	ANJAS	2.903512
10	2020-02-01	SMM	6.080884
11	2020-02-01	KAL	6.041760
15	2020-03-01	ANJA	2.421834
16	2020-03-01	ANJAS	8.424115
17	2020-03-01	SMM	7.647399
18	2020-03-01	KAL	6.058599
22	2020-04-01	ANJA	5.537706
23	2020-04-01	ANJAS	9.845815
24	2020-04-01	SMM	7.166537
25	2020-04-01	KAL	6.140196
28	2020-05-01	ANJA	5.421421
29	2020-05-01	ANJAS	7.616776
30	2020-05-01	SMM	6.921845
31	2020-05-01	KAL	8.947091
35	2020-06-01	ANJA	5.963262
36	2020-06-01	ANJAS	13.127674
37	2020-06-01	SMM	5.505840
38	2020-06-01	KAL	8.975126
42	2020-07-01	ANJA	7.229948
43	2020-07-01	ANJAS	18.277799
44	2020-07-01	SMM	4.040245
45	2020-07-01	KAL	6.279533
49	2020-08-01	ANJA	5.666283
50	2020-08-01	ANJAS	13.623705
51	2020-08-01	SMM	3.943581
52	2020-08-01	KAL	7.832002

Method: Margalef Polynomial degree: 2



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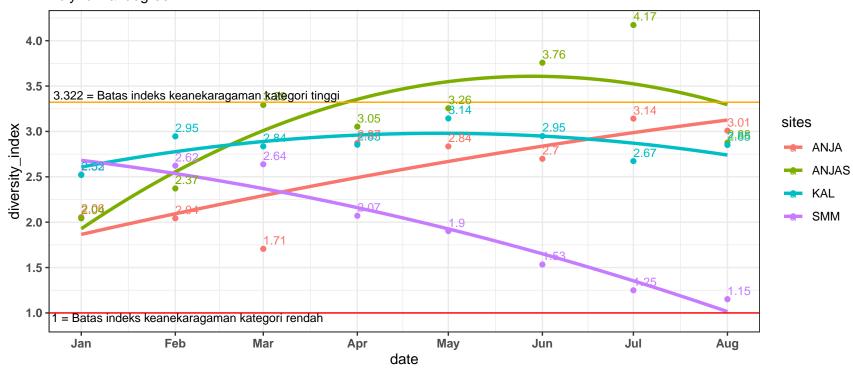
B. Diversity Index

Table 2: Diversity index Jan- Aug 2020

	date	sites	diversity_index
1	2020-01-01	ANJA	2.056750
2	2020-01-01	ANJAS	2.042709
3	2020-01-01	SMM	2.526439
4	2020-01-01	KAL	2.520057
8	2020-02-01	ANJA	2.042700
9	2020-02-01	ANJAS	2.371758
10	2020-02-01	SMM	2.622455
11	2020-02-01	KAL	2.945956
15	2020-03-01	ANJA	1.706057
16	2020-03-01	ANJAS	3.292038
17	2020-03-01	SMM	2.638273
18	2020-03-01	KAL	2.835589
22	2020-04-01	ANJA	2.873193
23	2020-04-01	ANJAS	3.053017
24	2020-04-01	SMM	2.070748
25	2020-04-01	KAL	2.853717
28	2020-05-01	ANJA	2.835416
29	2020-05-01	ANJAS	3.255055
30	2020-05-01	SMM	1.902032
31	2020-05-01	KAL	3.143209
35	2020-06-01	ANJA	2.698825
36	2020-06-01	ANJAS	3.757302
37	2020-06-01	SMM	1.533637
38	2020-06-01	KAL	2.949090
42	2020-07-01	ANJA	3.141243
43	2020-07-01	ANJAS	4.172806
44	2020-07-01	SMM	1.249361
45	2020-07-01	KAL	2.673424
49	2020-08-01	ANJA	3.007921
50	2020-08-01	ANJAS	2.876771
51	2020-08-01	SMM	1.151666
52	2020-08-01	KAL	2.850866

Grafik Indeks Keanekaragaman Region 1 dan 2 Jan – Aug 2020

Method: Shannon–Wiener Polynomial degree: 2



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C. Evenness Index

Table 3: Evenness index Jan-Aug 2020

	date	sites	evenness_index
1	2020-01-01	ANJA	0.8577313
2	2020-01-01	ANJAS	0.7367515
3	2020-01-01	SMM	0.6717108
4	2020-01-01	KAL	0.7734752
8	2020-02-01	ANJA	0.7740264
9	2020-02-01	ANJAS	0.8987141
10	2020-02-01	SMM	0.7318100
11	2020-02-01	KAL	0.8220846
15	2020-03-01	ANJA	0.8204400
16	2020-03-01	ANJAS	0.8985895
17	2020-03-01	SMM	0.6779021
18	2020-03-01	KAL	0.7795248
22	2020-04-01	ANJA	0.8532641
23	2020-04-01	ANJAS	0.7804188
24	2020-04-01	SMM	0.5293291
25	2020-04-01	KAL	0.7845084
28	2020-05-01	ANJA	0.8603023
29	2020-05-01	ANJAS	0.9083404
30	2020-05-01	SMM	0.4913285
31	2020-05-01	KAL	0.7843642
35	2020-06-01	ANJA	0.7787163
36	2020-06-01	ANJAS	0.9000847
37	2020-06-01	SMM	0.4157461
38	2020-06-01	KAL	0.7262976
42	2020-07-01	ANJA	0.8907890
43	2020-07-01	ANJAS	0.9121463
44	2020-07-01	SMM	0.3673298
45	2020-07-01	KAL	0.7199062
49	2020-08-01	ANJA	0.8843712
50	2020-08-01	ANJAS	0.6546374
51	2020-08-01	SMM	0.3386060
52	2020-08-01	KAL	0.7215110

Grafik Indeks Kemerataan Region 1 dan 2 Jan – Aug 2020

Method: Shannon–Wiener Polynomial degree: 2

