

Diversity Measures PT ANJ Reg 3

January - July 2020

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8/25/2020

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Load packages

```
library(ggplot2)
library(dplyr)
library(plotly)
library(hrbrthemes)
library(openxlsx)
library(knitr)
```

```
subjek <- "Region 3"
range_x <- "Jan - Jul 2020"
filedata <- "C:/Users/robby/Documents/My R/Konservasi_ANJ/Diversity_measures/indeks_kehati/data_jml_spe
```

A. Species Richness Index

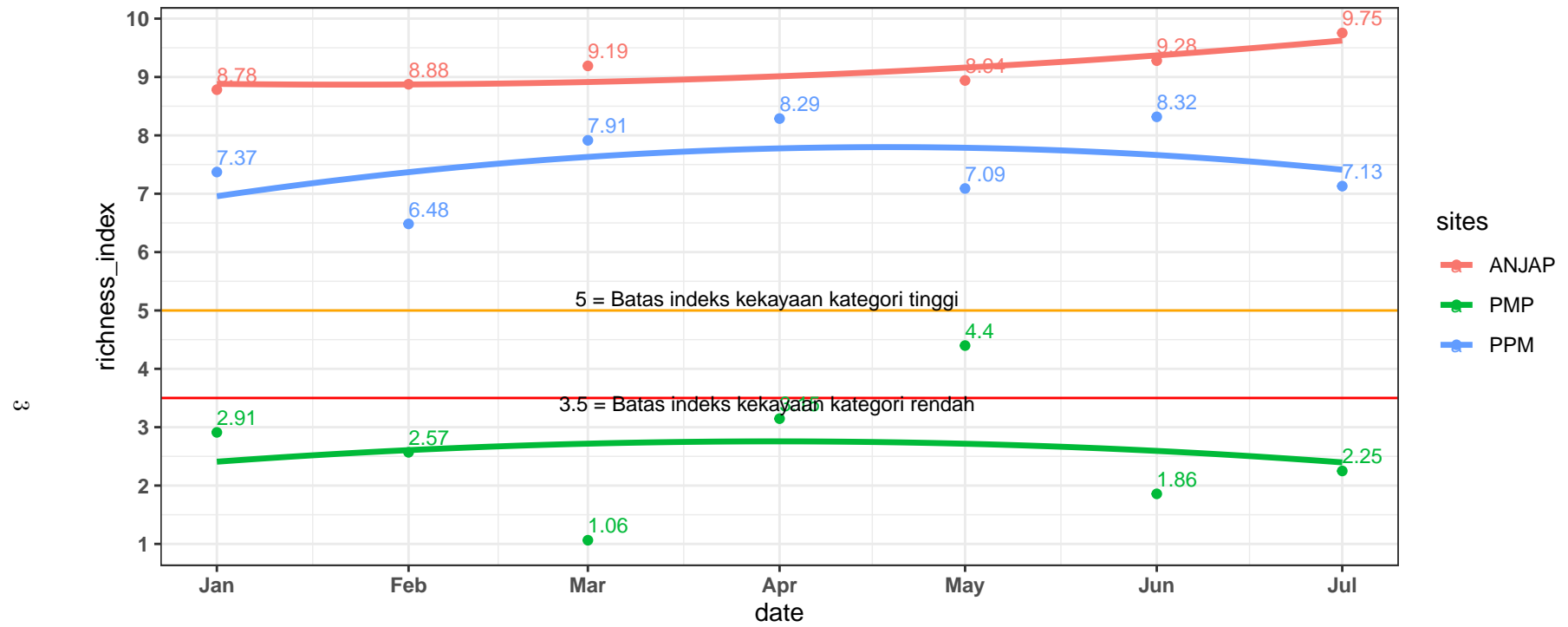
Table 1: Species Richness index Jan-July 2020

	date	sites	richness_index
5	2020-01-01	PMP	2.911639
6	2020-01-01	PPM	7.371780
7	2020-01-01	ANJAP	8.782675
12	2020-02-01	PMP	2.569492
13	2020-02-01	PPM	6.483391
14	2020-02-01	ANJAP	8.875195
19	2020-03-01	PMP	1.063490
20	2020-03-01	PPM	7.914943
21	2020-03-01	ANJAP	9.189937
26	2020-04-01	PMP	3.146580
27	2020-04-01	PPM	8.287632
32	2020-05-01	PMP	4.398521
33	2020-05-01	PPM	7.089498
34	2020-05-01	ANJAP	8.940376
39	2020-06-01	PMP	1.857897
40	2020-06-01	PPM	8.317466
41	2020-06-01	ANJAP	9.280048
46	2020-07-01	PMP	2.250131
47	2020-07-01	PPM	7.130201
48	2020-07-01	ANJAP	9.754112

Grafik Indeks Kekayaan Spesies Region 3 Jan – Jul 2020

Method: Margalef

Polynomial degree: 2



B. Diversity Index

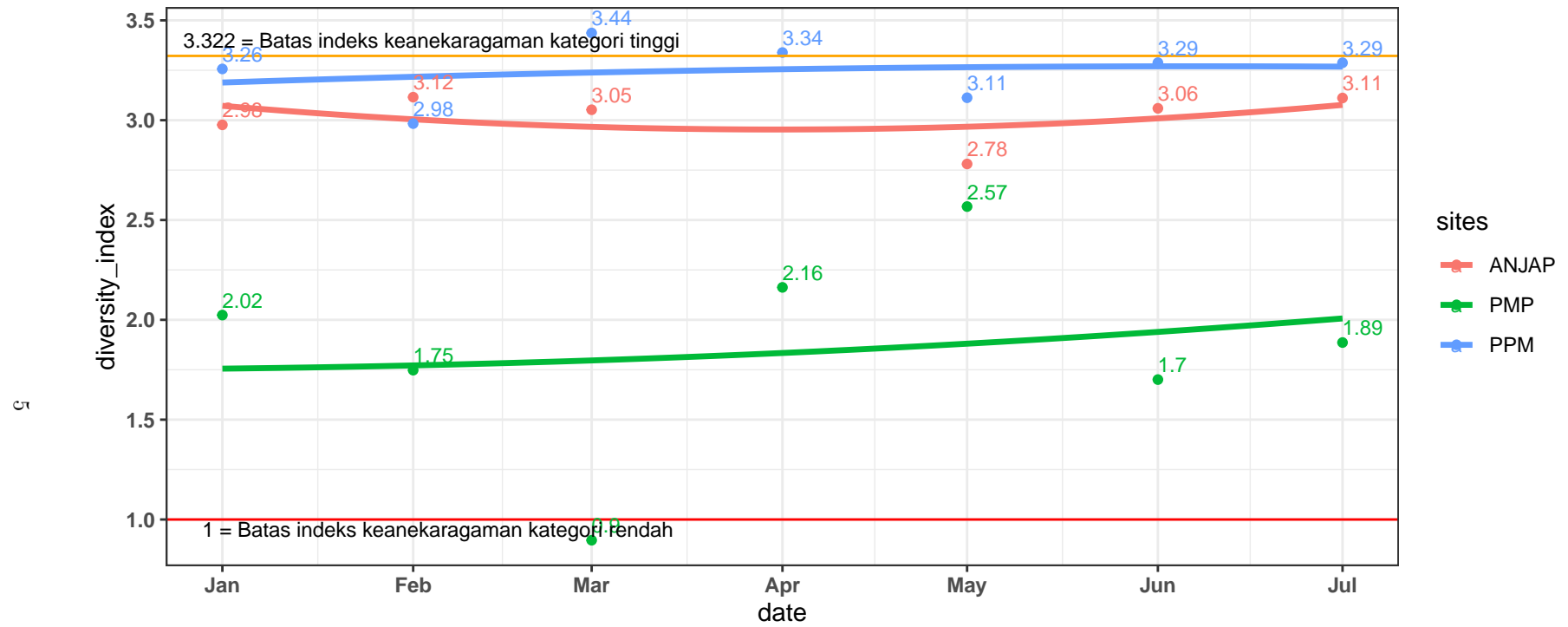
Table 2: Diversity index Jan-July 2020

	date	sites	diversity_index
5	2020-01-01	PMP	2.0237753
6	2020-01-01	PPM	3.2566683
7	2020-01-01	ANJAP	2.9766238
12	2020-02-01	PMP	1.7478681
13	2020-02-01	PPM	2.9830337
14	2020-02-01	ANJAP	3.1154126
19	2020-03-01	PMP	0.8961481
20	2020-03-01	PPM	3.4368273
21	2020-03-01	ANJAP	3.0523042
26	2020-04-01	PMP	2.1625568
27	2020-04-01	PPM	3.3388135
32	2020-05-01	PMP	2.5673845
33	2020-05-01	PPM	3.1123722
34	2020-05-01	ANJAP	2.7807200
39	2020-06-01	PMP	1.7007947
40	2020-06-01	PPM	3.2881334
41	2020-06-01	ANJAP	3.0594664
46	2020-07-01	PMP	1.8862906
47	2020-07-01	PPM	3.2874872
48	2020-07-01	ANJAP	3.1112646

Grafik Indeks Keanekaragaman Region 3 Jan – Jul 2020

Method: Shannon–Wiener

Polynomial degree: 2



C. Evenness Index

Table 3: Evenness index Jan-July 2020

	date	sites	evenness_index
5	2020-01-01	PMP	0.8789144
6	2020-01-01	PPM	0.8555180
7	2020-01-01	ANJAP	0.7427942
12	2020-02-01	PMP	0.9755038
13	2020-02-01	PPM	0.8032788
14	2020-02-01	ANJAP	0.7578468
19	2020-03-01	PMP	0.5568081
20	2020-03-01	PPM	0.8741047
21	2020-03-01	ANJAP	0.7208851
26	2020-04-01	PMP	0.9018562
27	2020-04-01	PPM	0.8491764
32	2020-05-01	PMP	0.9061741
33	2020-05-01	PPM	0.8274944
34	2020-05-01	ANJAP	0.6545188
39	2020-06-01	PMP	0.7386458
40	2020-06-01	PPM	0.8281843
41	2020-06-01	ANJAP	0.7108318
46	2020-07-01	PMP	0.8584879
47	2020-07-01	PPM	0.8687427
48	2020-07-01	ANJAP	0.7251588

Grafik Indeks Kemerataan Region 3 Jan – Jul 2020

Method: Shannon–Wiener

Polynomial degree: 2

