DAFTAR PUSTAKA

Anonim. 1990. Peraturan Pemerintah Nomor 7 tahun 1990 tentang Hak Pengusahaan Hutan Tanaman Industri. Diakses pada Tanggal 20 April 2020, pada laman: https://www.atrbpn.go.id/Publikasi/Peraturan-Perundangan/Peraturan-Pemerintah/peraturan-pemerintah-nomor-7-tahun-1990-1050

Alfenas, R. F., Lombard, L., Pereira, O. L., Alfenas, A. C., & Crous, P. W. (2015). Diversity and potential impact of Calonectria species in Eucalyptus plantations in Brazil. *Studies in Mycology*, *80*, 89–130. https://doi.org/10.1016/j.simyco.2014.11.002

Chen, C. C., Chen, C. Y., & Wu, S. H. (2021). Species diversity, taxonomy and multi-gene phylogeny of phlebioid clade (Phanerochaetaceae, Irpicaceae, Meruliaceae) of Polyporales. *Fungal Diversity*, *111*(1), 337–442. https://doi.org/10.1007/s13225-021-00490-w

Daughtrey, M. L. (2019). *Annual Review of Phytopathology Boxwood Blight: Threat to Ornamentals*. https://doi.org/10.1146/annurev-phyto-082718

Dong, W. B., Brenneman, T. B., Holbrook, C. C., Timper, P., & Culbreath, A. K. (2009). The interaction between Meloidogyne arenaria and Cylindrocladium parasiticum in runner peanut. *Plant Pathology*, *58*(1), 71–79. https://doi.org/10.1111/j.1365-3059.2008.01932.x

Diniyati, Dian 2011. Pengembangan Hutan Terung. *Jurnal Analisis Kebijakan Kehutanan.* 8 (1):1-3

Lane, C. R., Beales, P. A., Henricot, B., & Holden, A. (2006). First record of Cylindrocladium pauciramosum on Ceanothus in the UK. *Plant Pathology*, *55*(4), 582. https://doi.org/10.1111/j.1365-3059.2006.01363.x

Lombard, L., Crous, P. W., Wingfield, B. D., & Wingfield, M. J. (2010). Species concepts in Calonectria (Cylindrocladium). *Studies in Mycology*, *66*, 1–13. https://doi.org/10.3114/sim.2010.66.01

Lombard, L., Rodas, C. A., Crous, P. W., Wingfield, B. D., & Wingfield, M. J. (2009). Calonectria (Cylindrocladium) species associated with dying Pinus cuttings. *Persoonia: Molecular Phylogeny and Evolution of Fungi*, *23*, 41–47. https://doi.org/10.3767/003158509X471052

Puja, S., dan Mardaleni 2023. Karakter Mporfologi dan Kandungan Minyak Atsiri Tnaman Ekaliptus Pellita *(Eucalyptus pellita)* Jurnal Argonteknologi Agribisnis dan Akuakultur. Vol.3 No. 2. 2023

Pamoengkas, P., & Maharani, P. L. (2019). manajemen tempat tumbuh pada tanaman Eucalyptus pellita, RIAU Site Management *Eucalyptus* pellita at PT. Perawang Sukses Perkasa Industri, Riau. Journal of Tropical Silviculture, 9(2), 79–84.

Powers MD, Palik BJ, Bradford JB, Fraver S, Webster CR (2010) Thinning method and intensity influence long-term mortality trends in a red pine forest.For Ecol Manag 260(7):1138 1148. https://doi.org/10.1016/j.foreco.2010.07.002

Nair, K. S. S. (2000). *Insect pests and diseases in Indonesian forest* (Nair, Ed.).

Poli, G., & Crous, P. W. (1999). Root and collar rot of milkwort caused by Cylindrocladium pauciramosum, a new record for Europe. *European Journal of Plant Pathology*, *105*(4), 407–411. https://doi.org/10.1023/A:1008759230180

Rodas, C. A., Lombard, L., Gryzenhout, M., Slippers, B., & Wingfield, M. J. (2005). Cylindrocladium blight of Eucalyptus grandis in Colombia. *Australasian Plant Pathology*, *34*(2), 143–149. https://doi.org/10.1071/AP05012

Sitompul Bambang Guritno. (1995). *Analisa pertumbuhan tanaman konsep dan pengembangan* (edisi pertama). Gadjah Mada University Press.

Vitale, A., Lombard, L., Polizzi, G., Vitale, A., Crous, P. W., Lombard, L., & Polizzi, G. (2013). Calonectria diseases on ornamental plants in Europe and the mediterranean basin: An overview. *Article in Journal of Plant Pathology*, *95*(3), 463–476. https://doi.org/10.4454/JPP.V9513.007

Sulistyaningsih, D. R. (2010). Analisis Varian Rancangan Faktorial Dua Faktor RAL dengan Metode AMMI. 1–114.

Sudir B, Nuryanto, dan Triny S. Kadir. 2012. Epidemiologi, Patotipe, dan Strategi Pengendalian PenyakitHawar Daun Bakteri pada Tanaman Padi. *Iptek Tanaman PanganVOL. 7 NO. 2*. Balai Besar Penelitian Tanaman Padi: Hal 79-87

Taniguchi T, Tanaka C, Tamai S, Yamanaka N, Futai K (2008) Identification of Cylindrocladium sp. causing damping-off disease of Japanese black pine *(Pinus thunbergii)* and factors affecting the disease severity in a black locust *(Robinia pseudoacacia)*- nominated area. The Japanese Fore

LAMPIRAN

Perlakuan	Jumlah Tanaman Terkena *Cylindrocladium*
A1B1	15
A1B2	32
A2B1	43
A2B2	33
A3B1	92
A3B2	56
A4B1	101
A4B2	149
A5B1	124
A5B2	133

Lampiran 1. Data Serangan Penyakit Busuk Batang Jamur Cylindrocladium week 1-week 3

A1B1	T0	T1	T2	T3	Hasil
1	11	16.6	15	16.6	5.6
2	11	13.2	16	13.2	2.2
3	11	16.3	16	21.3	10.1
4	11	16	15	20.4	9.1
5	11	14.3	16	19.3	8.1
6	11	16	16	17.7	6.1
7	11	18.5	17	16	5.1
8	11	17.5	16	15.1	4.1
9	11	16.6	17	18	7.1
10	11	22	20	17.6	6.1
11	11	20.21	16	16.7	5.1
12	11	21	13	15.5	4.1
13	11	22	16	15.3	4.1
14	11	18.5	16	16.3	5.1
15	11	16	14	14.1	3.1
16	11	16	16	20.21	9.1
17	11	14	18	21	10.1
18	11	17	14	22	11.1
19	11	16	15	18.5	7.1
20	11	18	16	16	5.1
21	11	16	17	16	5
22	11	16	16	17.5	6.5
23	11	14	16	16.6	5.6
24	11	16	17	17.1	6.1
25	11	22	17	15.5	4.5
26	11	20	14	13.1	2.1
27	11	16	16	15.3	4.3
28	11	16	17	16.6	5.6

A1B2	T0	T1	T2	T3	Hasil
1	11	15.5	16.6	16.6	5.6
2	11	16.8	13.2	13.2	2.2
3	11	16.6	16.3	21.3	10.1
4	11	15.5	16	20.4	9.1
5	11	16.7	14.3	19.3	8.1
6	11	22	16	15.5	4.1
7	11	20.21	18.5	16.8	5.1
8	11	21	17.5	16.6	5.1
9	11	22	16.6	15.5	4.1
10	11	18.5	22	16.7	5.1
11	11	16	20.21	16.7	5.1
12	11	18.5	21	15.5	4.1
13	11	17.5	22	15.3	4.1
14	11	16.6	18.5	14	3.1
15	11	22	16	17	6.1
16	11	16	16	15.5	4.1
17	11	14	14	16.8	5.1
18	11	17	17	20.21	9.1
19	11	15.5	16	21	10.1
20	11	16.8	18	16	5.1
21	11	16	16	17.5	6.5
22	11	16	16	16.6	5.6
23	11	14	14	17.3	6.3
24	11	16	16	17.8	6.8
25	11	22	22	19.3	8.3
26	11	16.6	20	17.7	6.7
27	11	17.3	16	16	5
28	11	17.8	16	15.1	4.1

A2B1	T0	T1	T2	T3	Hasil
1	11	14.6	15.5	16.6	5.6
2	11	13.3	16.8	13.2	2.2
3	11	17.5	16.6	21.3	10.1
4	11	18.2	15.5	20.4	9.1
5	11	15.1	16.7	19.3	8.1
6	11	15.4	22	15.5	4.1
7	11	16.7	20.21	16.8	5.1
8	11	16.6	21	16.6	5.1
9	11	15.5	22	15.5	4.1
10	11	16.7	18.5	16.7	5.1
11	11	16.5	16	16.7	5.1
12	11	13.2	18.5	15.5	4.1
13	11	21.3	17.5	15.3	4.1
14	11	20.4	16.6	14	3.1
15	11	19.3	22	17	6.1
16	11	16.7	16	15.5	4.1
17	11	15.5	14	16.8	5.1
18	11	15.3	17	20.21	9.1
19	11	16.3	15.5	21	10.1
20	11	14.1	16.8	16	5.1
21	11	17.5	16	17.5	6.5
22	11	16.6	16	16.6	5.6
23	11	17.1	14	17.3	6.3
24	11	15.5	16	17.8	6.8
25	11	15.5	22	19.3	8.3
26	11	16	16.6	17.7	6.7
27	11	16.1	17.3	16	5
28	11	15.5	17.8	15.1	4.1

A2B2	T0	T1	T2	T3	Hasil
1	11	14.6	15.1	15.5	4.1
2	11	13.3	16.2	16.8	5.1
3	11	17.3	16.3	16.6	5.1
4	11	18	15	15.5	4.1
5	11	15.3	16.5	16.7	5.1
6	11	15.5	16.3	16	5.1
7	11	16.8	17.2	17.5	6.1
8	11	16.6	16.2	16.6	5.1
9	11	15.5	17.5	17.1	6.1
10	11	16.7	20.3	20.1	9.1
11	11	16.6	16.3	16.6	5.6
12	11	13.2	13.2	13.2	2.2
13	11	21.3	16.3	16.3	5.3
14	11	20.4	16	16	5.1
15	11	19.3	14.3	14.3	3.3
16	11	16.7	16	16	5.1
17	11	15.5	18.5	18.5	7.1
18	11	15.3	14.3	14.3	3.1
19	11	16.3	15.5	15.5	4.1
20	11	14.1	16.4	16.4	5.1
21	11	17.5	17	17	6
22	11	16.6	16.4	16.4	5.4
23	11	17.1	16.6	16.6	5.6
24	11	15.5	17.3	17.3	6.3
25	11	15.5	17.8	17.8	6.8
26	11	16	14.5	14.5	3.5
27	11	16.1	16.6	16.6	5.6
28	11	15.5	17.7	17.7	6.7

A3B1	T0	T1	T2	T3	Hasil
1	11	14.6	15.1	16.7	5.1
2	11	13.3	16.2	16.6	5.6
3	11	17.3	16.3	13.2	2.2
4	11	18	15	21.3	10.1
5	11	15.3	16.5	20.4	9.1
6	11	15.5	16.3	19.3	8.1
7	11	16.8	17.2	16.7	5.1
8	11	16.6	16.2	16.6	5.6
9	11	15.5	17.5	13.2	2.2
10	11	16.7	20.3	16.3	5.3
11	11	16.6	16.3	16	5.1
12	11	13.2	13.2	14.3	3.3
13	11	21.3	16.3	16	5.1
14	11	20.4	16	18.5	7.1
15	11	19.3	14.3	17.5	6.1
16	11	16.7	16	16.6	5.6
17	11	15.5	18.5	22	11.1
18	11	15.3	14.3	21.3	10.1
19	11	16.3	15.5	20.4	9.1
20	11	14.1	16.4	19.3	8.1
21	11	17.5	17	16.7	5.7
22	11	16.6	16.4	15.5	4.5
23	11	17.1	16.6	15.3	4.3
24	11	15.5	17.3	16.3	5.3
25	11	15.5	17.8	14.1	3.1
26	11	16	14.5	17.5	6.5
27	11	16.1	16.6	16.6	5.6
28	11	15.5	17.7	17.1	6.1

A3B2	T0	T1	T2	T3	Hasil
1	11	14.6	15.5	16.7	5.1
2	11	13.3	16.8	16.6	5.6
3	11	17.3	16.6	13.2	2.2
4	11	18	15.5	21.3	10.1
5	11	15.3	16.7	20.4	9.1
6	11	15.5	22	19.3	8.1
7	11	16.8	20.21	16.7	5.1
8	11	16.6	21	16.6	5.6
9	11	15.5	22	13.2	2.2
10	11	16.7	18.5	16.3	5.3
11	11	16.6	16	16	5.1
12	11	13.2	18.5	14.3	3.3
13	11	21.3	17.5	16	5.1
14	11	20.4	16.6	18.5	7.1
15	11	19.3	22	17.5	6.1
16	11	16.7	16	16.6	5.6
17	11	15.5	14	22	11.1
18	11	15.3	17	21.3	10.1
19	11	16.3	15.5	20.4	9.1
20	11	14.1	16.8	19.3	8.1
21	11	17.5	16	16.7	5.7
22	11	16.6	16	15.5	4.5
23	11	17.1	14	15.3	4.3
24	11	15.5	16	16.3	5.3
25	11	16.6	22	14.1	3.1
26	11	15.5	16.6	17.5	6.5
27	11	16.7	17.3	16.6	5.6
28	11	17.6	17.8	17.1	6.1

A4B1	T0	T1	T2	T3	Hasil
1	11	15.1	16.6	16.6	5.1
2	11	16.2	15.5	15.5	4.1
3	11	16.3	16.8	16.7	5.1
4	11	15	16.6	17.6	6.1
5	11	16.5	15.5	15.5	4.1
6	11	16.3	16.7	16.8	5.1
7	11	17.2	16	16.6	5.1
8	11	16.2	17.5	15.5	4.1
9	11	17.5	16.6	16.7	5.1
10	11	20.3	17.1	22	11.1
11	11	16.3	20.1	20.21	9.1
12	11	13.2	16.6	21	10.1
13	11	16.3	13.2	22	11.1
14	11	16	16.3	13.2	2.2
15	11	14.3	16	21.3	10.1
16	11	16	14.3	20.4	9.1
17	11	18.5	16	19.3	8.1
18	11	14.3	18.5	16.7	5.1
19	11	15.5	14.3	15.5	4.1
20	11	16.4	15.5	15.3	4.1
21	11	17	16.4	16.3	5.3
22	11	16.4	17	14.1	3.1
23	11	16.6	16.4	16	5
24	11	17.3	16.6	16	5
25	11	17.8	17.3	14	3
26	11	14.5	17.5	16	5
27	11	16.6	20.3	22	11
28	11	17.7	16.3	20.1	9.1

A4B2	T0	T1	T2	T3	Hasil
1	11	14.6	15.1	16.7	5.1
2	11	13.3	16.2	16.6	5.6
3	11	17.3	16.3	13.2	2.2
4	11	18	15	21.3	10.1
5	11	15.3	16.5	20.4	9.1
6	11	15.5	16.3	19.3	8.1
7	11	16.8	17.2	16.7	5.1
8	11	16.6	16.2	16.6	5.6
9	11	15.5	17.5	13.2	2.2
10	11	16.7	20.3	16.3	5.3
11	11	16.6	16.3	16	5.1
12	11	13.2	13.2	14.3	3.3
13	11	21.3	16.3	16	5.1
14	11	20.4	16	18.5	7.1
15	11	19.3	14.3	17.5	6.1
16	11	16.7	16	16.6	5.6
17	11	15.5	18.5	22	11.1
18	11	15.3	14.3	21.3	10.1
19	11	16.3	15.5	20.4	9.1
20	11	14.1	16.4	19.3	8.1
21	11	17.5	17	16.7	5.7
22	11	16.6	16.4	15.5	4.5
23	11	17.1	16.6	15.3	4.3
24	11	15.5	17.3	16.3	5.3
25	11	16.6	17.8	14.1	3.1
26	11	15.5	14.5	17.5	6.5
27	11	16.7	16.6	16.6	5.6
28	11	17.6	17.7	17.1	6.1

A5B1	T0	T1	T2	T3	Hasil
1	11	14.6	15.1	15.5	4.1
2	11	13.3	16.2	16.8	5.1
3	11	17.3	16.3	16.6	5.1
4	11	18	15	15.5	4.1
5	11	15.3	16.5	16.7	5.1
6	11	15.5	16.3	16	5.1
7	11	16.8	17.2	17.5	6.1
8	11	16.6	16.2	16.6	5.1
9	11	15.5	17.5	17.1	6.1
10	11	16.7	20.3	20.1	9.1
11	11	16.6	16.3	16.6	5.6
12	11	13.2	13.2	13.2	2.2
13	11	21.3	16.3	16.3	5.3
14	11	20.4	16	16	5.1
15	11	19.3	14.3	14.3	3.3
16	11	16.7	16	16	5.1
17	11	15.5	18.5	18.5	7.1
18	11	15.3	14.3	14.3	3.1
19	11	16.3	15.5	15.5	4.1
20	11	14.1	16.4	16.4	5.1
21	11	17.5	17	17	6
22	11	16.6	16.4	16.4	5.4
23	11	17.1	16.6	16.6	5.6
24	11	15.5	17.3	17.3	6.3
25	11	15.5	17.8	17.8	6.8
26	11	16	14.5	14.5	3.5
27	11	16.1	16.6	16.6	5.6
28	11	15.5	17.7	17.7	6.7

A5B2	T0	T1	T2	T3	Hasil
1	11	15.1	16.3	19	8.1
2	11	16.2	17.2	17.6	6.1
3	11	16.3	16.2	16.6	5.1
4	11	15	17.5	18	7.1
5	11	16.5	20.3	21	10.1
6	11	16.3	16.3	17	6.1
7	11	17.2	17.1	17.5	6.1
8	11	16.2	16.3	16.6	5.1
9	11	17.5	16	17.1	6.1
10	11	20.3	20.1	21.1	10.1
11	11	16.3	16	16.6	5.6
12	11	13.2	18.5	13.2	2.2
13	11	16.3	18.5	21.1	10.1
14	11	16	15.5	16	5.1
15	11	14.3	16.4	14.3	3.3
16	11	16	17	16	5.1
17	11	18.5	16.4	18.5	7.1
18	11	14.3	16.6	14.3	3.1
19	11	15.5	17.3	15.5	4.1
20	11	16.4	17.8	16.4	5.1
21	11	15.5	14.5	17	6
22	11	16.7	16.6	16.4	5.4
23	11	16.5	17.7	16.6	5.6
24	11	13.2	14.3	17.3	6.3
25	11	16	16	17.8	6.8
26	11	14	18.5	14.5	3.5
27	11	16	14.3	16.6	5.6
28	11	18	19	20	9

Lampiran 2 Data Pertumbuhan Tinggi week 1- week 3

Perlakuan	Week 0	Week 1	Week 2	Week 3
A1B1	0.0	2.5	1.2	0.9
A1B2	0.0	2.5	1.1	1.3
A2B1	0.0	2.2	1.3	1.2
A2B2	0.0	3.1	0.9	0.7
A3B1	0.0	1.3	1.3	1.0
A3B2	0.0	1.8	1.1	0.5
A4B1	0.0	2.1	1.1	0.7
A4B2	0.0	1.8	1.1	1.0
A5B1	0.0	2.4	0.8	1.0
A5B2	0.0	2.2	1.1	0.9

Lampiran 3 Pertumbuhan Data Diameter week 1- week 2

Perlakuan	Week 0	Week 1	Week 2	Week 3
A1B1	0.0	0.5	0.3	0.3
A1B2	0.0	0.7	0.3	0.6
A2B1	0.0	0.5	0.2	0.5
A2B2	0.0	0.7	0.2	0.6
A3B1	0.0	0.6	0.4	0.3
A3B2	0.0	0.8	0.2	0.4
A4B1	0.0	0.8	0.3	0.4
A4B2	0.0	0.7	0.3	0.4
A5B1	0.0	0.7	0.2	0.3
A5B2	0.0	0.7	0.3	0.2

Lampiran 4. Hasil Analisis Keragaman Pertambahan Tinggi Perminggu Semai Eucalyptus pellita Pada Berbagai Perlakuan Spacing dan waktu

Sumber Variasi	Db	Jk	Kt	F hitung	F tabel
Perlakuan	9	1,794	0,199	0,788 ns	2,390
Error	20	5,062	0,253	-	-
Total	29	6,856	-	-	-

Lampiran 5 : Hasil Analisis Keragaman Pertambahan Diameter Perminggu Semai Eucalyptus pellita Pada Berbagai Perlakuan Spacing dan waktu

Sumber Variasi	Db	Jk	Kt	F hitung	F tabel
Perlakuan	9	0,448	0,050	2,618	2,390
Error	20	0,381	0,019	-	-
Total	29	0,829	-	-	-

Lampiran 6. Hasil Uji Lanjut dengan Uji DMRT Pada Pertumbuhan Tinggi Perminggu Pada Taraf Uji 5%

Perlakuan	Rerata	Kode
A2B2	0,623	a
A1B2	0,597	a
A2B1	0,503	a
A3B2	0,407	a
A4B2	0,377	b
A4B1	0,367	b
A1B1	0,343	b
A3B1	0,327	b
A5B1	0,317	a
A5B2	0,217	a

Lampiran 7. Pengukuran Pertumbuhan Tinggi

Lampiran 8. Pengukuran Pertumbuhan Diameter

Lampiran 9. Plot Penelitian

Lampiran 10. Gejala Penyakit Cylindrocladium spp