

DAFTAR PUSTAKA

- Budiyanto, E., Rahayu, E., & Firmansyah, E. (2016). Kajian Produksi Dan Karakter Agronomi Kelapa Sawit Pada Lahan Mineral Dan Lahan Gambut Di Pt Subur Arum Makmur 2. *Jurnal Agromast*, 14(2), 74–79.
- Fikri Ansyori, Sri Manu Rohmiyati, N. A. (2017). Kajian Produksi Kelapa Sawit Pada Tipe Lahan Rendahan (Gambut Dan Mineral). *Jurnal Agromast*, 2(1), 1–13.
- Gumilar, T., Junaidi, J., & Suryadi, U. E. (2023). Studi Sifat Fisika Tanah Gambut pada Kebun Karet dan Kelapa Sawit Rakyat di Kecamatan Rasau Jaya Kabupaten Kubu Raya. *Perkebunan Dan Lahan Tropika*, 13(2), 45.
<https://doi.org/10.26418/plt.v13i2.80735>
- Junaidi, K. (2023). Produktivitas Crude Palm Oil (CPO) Pada Perkebunan Kelapa Sawit. *Agriprimatech*, 6(2), 98–105.
- Mubarok, H., Ahmad, F., Tambusai, N., Hidayat, A. N., Ali, I., Pt, H., Agro, A., & Tbk, L. (2022). Fenologi Kelapa Sawit dan Hubungannya dengan Curah Hujan dan Kedalaman Muka Air di Lahan Gambut Oil Palm Phenology and Its Relationship to Rainfall and Water Table Depth in Peatlands. *Fenologi Kelapa Sawit Pada Lahan Gambut Agrosains : Jurnal Penelitian Agronomi*, 24(2), 111–118.
<https://jurnal.uns.ac.id/agrosains/article/view/64249DOI:http://dx.doi.org/10.20961/agsjpa.v24i2.64249>
- Nelson P., Rhebergen T, Berthelsen S, Webb M, Banabas M, Oberthur T, Donough CR, Indrasuara K, & Lubis A. (1995). Soil acidification under oil palm: rates and effects on yield. *Better Crops with Plant Food*, January, 22–25.
- Pradiko, I., Hariyadi, June, T., & Sujadi. (2023). Performance of three oil palm varieties on the East Coast of North Sumatra. *IOP Conference Series: Earth*

and Environmental Science, 1133(1). <https://doi.org/10.1088/1755-1315/1133/1/012005>

Sahputra, R., & Anom, E. (2016). Pengaruh kedalaman muka air tanah dan bahan organik terhadap ketersediaan hara dan pertumbuhan tanaman kelapa sawit (*elaeis guineensis jacq*) di lahan gambut. *Universitas Riau JOM Faperta*, 3(1), 1–15.

Saud Paruliani, Sri Manu Rohmiyati, Y. T. M. A. (2019). Kajian Produksi Tanaman Kelapa Sawit Pada Tanah Mineral Dan Tanah Gambut Di Pt. Mutiara Bunda Jaya (Sampoerna Agro). *Tjyybjb.Ac.Cn*, 3(2), 58–66. <http://www.tjyybjb.ac.cn/CN/article/downloadArticleFile.do?attachType=PDF&id=9987>

Veloo, R., Van Ranst, E., & Selliah, P. (2015). Peat Characteristics and its Impact on Oil Palm Yield. *NJAS - Wageningen Journal of Life Sciences*, 72, 33–40. <https://doi.org/10.1016/j.njas.2014.11.001>

Wawan, W., Amri, A. I., & Akbar, A. N. (2019). Sifat Fisika Tanah dan Produktivitas Kelapa Sawit (*Elaeis Guineensis Jacq.*) Di Lahan Gambut Pada Tinggi Muka Air Tanah Yang Berbeda. *Jurnal Agroteknologi*, 10(1), 15. <https://doi.org/10.24014/ja.v10i1.5767>

Zulfikri, S., Rohmiyati, S. M., & Y. Th. Maria Astuti. (2017). Produktivitas Kelapa Sawit Pada Lahan Mineral Lempung & Pasiran. *Jurnal Agromast*, 2(2), 1–13.

LAMPIRAN



Lampiran 4. Menghitung lingkar batang



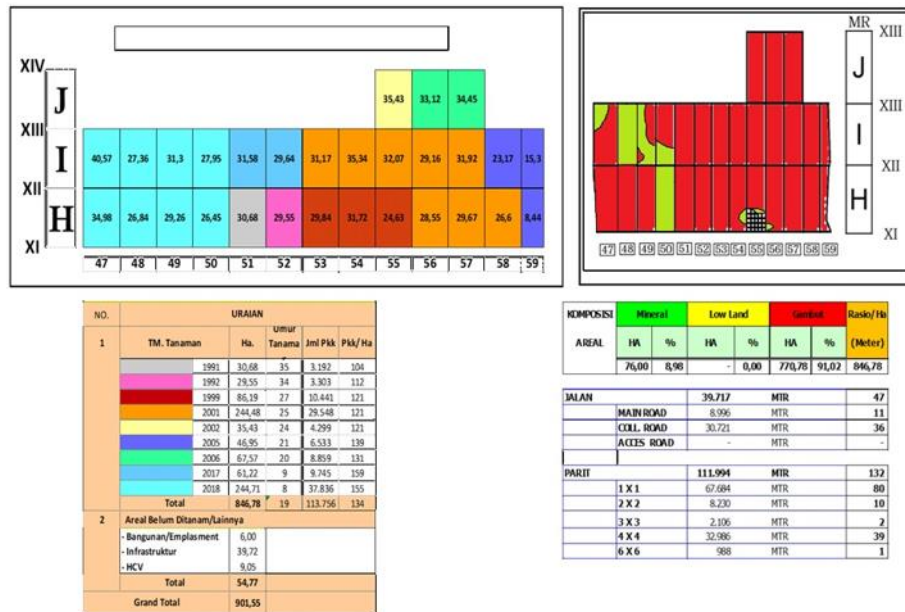
Lampiran 3. Menghitung jumlah pelepah



Lampiran 2. Menghitung tinggi tanaman



Lampiran 1. Menghitung berat janjang rata-rata



Lampiran 5. Peta Kondisi dan Luas Areal Divisi IV

Blok	Tanah	Pokok	Tinggi Tanaman (cm)	Lingkar Batang (cm)	Diameter Batang (cm)	Jumlah Pelepah
H47P18	G A M B U T	1	230	110	35,03	41
		2	312	96	30,57	33
		3	320	106	33,76	33
		4	285	100	31,85	33
		5	278	86	27,39	33
		6	283	108	34,39	33
		7	275	109	34,71	41
		8	290	83	26,43	41
		9	284	106	33,76	49
		10	287	101	32,17	33
		11	283	105	33,44	41
		12	285	101	32,17	41
		13	285	87	27,71	33
		14	287	94	29,94	41
		15	284	87	27,71	41
		16	293	91	28,98	41
		17	315	96	30,57	41
		18	308	77	24,52	33
		19	296	102	32,48	33
		20	290	107	34,08	33
		21	283	112	35,67	41
		22	294	100	31,85	33
		23	293	106	33,76	41
		24	296	68	21,66	33
		25	283	114	36,31	33
		26	287	108	34,39	33
		27	292	107	34,08	33
		28	285	111	35,35	33
		29	293	106	33,76	33
		30	283	98	31,21	33
		31	288	108	34,39	33
		32	279	94	29,94	33
		33	197	108	34,39	33
		34	306	113	35,99	33
		35	300	115	36,62	41
		36	298	97	30,89	33
		37	300	121	38,54	33
		38	283	114	36,31	49

		39	290	102	32,48	41
		40	286	114	36,31	33
		41	274	113	35,99	41
		42	285	82	26,11	33
		43	265	110	35,03	33
		44	277	100	31,85	33
		45	286	103	32,80	33
		46	293	110	35,03	33
		47	296	108	34,39	33
		48	295	83	26,43	33
		49	284	106	33,76	41
		50	285	105	33,44	33
H48P18	G A M B U T	1	320	109	34,71	41
		2	325	110	35,03	49
		3	318	113	35,99	49
		4	323	107	34,08	41
		5	315	123	39,17	41
		6	322	120	38,22	41
		7	316	110	35,03	41
		8	320	93	29,62	41
		9	311	101	32,17	49
		10	308	106	33,76	49
		11	313	117	37,26	41
		12	306	88	28,03	33
		13	310	108	34,39	41
		14	314	107	34,08	49
		15	308	100	31,85	41
		16	312	114	36,31	41
		17	310	78	24,84	33
		18	320	106	33,76	49
		19	318	113	35,99	33
		20	315	103	32,80	41
		21	321	91	28,98	41
		22	315	95	30,25	41
		23	309	99	31,53	41
		24	316	107	34,08	33
		25	318	103	32,80	33
		26	315	94	29,94	33
		27	305	88	28,03	49
		28	315	96	30,57	33

		29	310	105	33,44	33
		30	312	104	33,12	41
		31	307	108	34,39	33
		32	305	112	35,67	41
		33	274	110	35,03	33
		34	286	110	35,03	49
		35	308	107	34,08	41
		36	302	1106	33,76	33
		37	290	117	37,26	33
		38	305	111	35,35	33
		39	285	101	32,17	41
		40	297	108	34,39	33
		41	280	123	39,17	33
		42	300	96	30,57	33
		43	294	109	34,71	33
		44	283	119	37,90	33
		45	312	108	34,39	33
		46	293	109	34,71	41
		47	299	94	29,94	33
		48	274	114	36,31	33
		49	279	130	41,40	33
		50	293	115	36,62	33
H50P18	M I N E R A L	1	466	104	33,12	33
		2	409	103	32,80	33
		3	422	103	32,80	33
		4	467	108	34,39	33
		5	453	105	33,44	33
		6	449	97	30,89	41
		7	501	90	28,66	33
		8	489	113	35,99	41
		9	483	98	31,21	33
		10	479	100	31,85	33
		11	486	105	33,44	33
		12	524	94	29,94	33
		13	531	93	29,62	33
		14	490	113	35,99	33
		15	535	97	30,89	41
		16	478	100	31,85	33
		17	503	113	35,99	41
		18	533	102	32,48	33

		19	525	90	28,66	33
		20	496	103	32,80	41
		21	519	97	30,89	41
		22	538	90	28,66	33
		23	520	94	29,94	33
		24	495	104	33,12	41
		25	509	107	34,08	33
		26	520	97	30,89	33
		27	502	108	34,39	33
		28	498	108	34,39	33
		29	503	106	33,76	33
		30	508	97	30,89	33
		31	506	94	29,94	33
		32	516	93	29,62	33
		33	494	113	35,99	33
		34	510	91	28,98	33
		35	513	99	31,53	33
		36	511	94	29,94	33
		37	496	105	33,44	33
		38	489	108	34,39	33
		39	503	104	33,12	33
		40	502	104	33,12	33
		41	498	105	33,44	41
		42	488	107	34,08	33
		43	509	102	32,48	33
		44	506	100	31,85	33
		45	525	100	31,85	33
		46	533	90	28,66	33
		47	498	105	33,44	33
		48	513	93	29,62	33
		49	518	92	29,30	33
		50	522	86	27,39	33
I48P18	M I N E R A L	1	377	99	31,53	33
		2	358	111	35,35	33
		3	345	92	29,30	41
		4	529	97	30,89	33
		5	496	107	34,08	33
		6	506	122	38,85	41
		7	483	95	30,25	41
		8	494	103	32,80	33

9	489	100	31,85	33
10	476	95	30,25	33
11	480	106	33,76	49
12	473	100	31,85	33
13	468	102	32,48	33
14	387	117	37,26	41
15	379	97	30,89	33
16	513	121	38,54	41
17	493	113	35,99	33
18	498	96	30,57	41
19	495	113	35,99	33
20	503	102	32,48	41
21	497	96	30,57	33
22	488	114	36,31	33
23	502	102	32,48	33
24	486	105	33,44	33
25	493	93	29,62	33
26	489	103	32,80	33
27	485	102	32,48	49
28	490	104	33,12	41
29	465	104	36,31	33
30	446	115	36,62	41
31	483	111	35,35	41
32	494	115	36,62	33
33	489	114	36,31	49
34	488	111	35,35	41
35	485	113	35,99	33
36	502	105	33,44	41
37	496	104	33,12	33
38	488	118	37,58	33
39	485	111	35,35	49
40	503	106	33,76	33
41	490	104	33,12	33
42	370	106	33,76	65
43	445	112	35,67	33
44	456	102	32,48	41
45	438	107	34,08	41
46	469	108	34,39	33
47	450	100	31,85	33
48	479	96	30,57	33

	49	435	105	33,44	41
	50	443	101	32,17	41

Lampiran 6. Parameter Agronomi 1

Blok	Pokok	Jumlah JJG per rotasi				BJR per rotasi (kg)			
		1	2	3	4	1	2	3	4
H47P18 GAMBUT	1	1				9,5			
	2		1				10,5		
	3	2			1	8,5			10,5
	4	1				8,5			
	5	1				5			
	6			1				11,5	
	7	1				16			
	8	1				11,5			
	9	1			1	14,5			12
	10			1				10	
	11		1				12		
	12			1				10	
	13	1				14			
	14			2				6,75	
	15				1				7,5
	16				2				8,5
	17		1				10		
	18			1				9	
	19	1			1	11			8
	20			1				12,5	
	21		1				9		
	22			2				7,5	
	23			1				13	
	24		1				7		
	25	1				14,5			
	26			1				12	
	27		1				10		
	28			1				12,5	
	29		1				8,5		
	30				2				8,5
	31			1				9	
	32		1				7,5		
	33				1				10,5
	34	1				13,5			

	35		1				10,5		
	36				2				10,5
	37	1				14			
	38			1			12		
	39				1				9
	40		1				11		
	41			1				13,5	
	42		1				8		
	43			1				12	
	44		1				10,5		
	45		1				10,5		
	46	1			1	11			8,5
	47		1				12		
	48			1				8	
	49		1				10		
	50	1				10,5			
H48P18 GAMBUT	1	1			1	14,5			11,5
	2		1				12,5		
	3		1				10		
	4			1				10	
	5		1				14		
	6	1			1	19			13
	7			1				12,5	
	8			1				9	
	9			1				10	
	10	1			1	10,5			12,5
	11		1				11		
	12		1				9		
	13			1				12,5	
	14			1				8,5	
	15			1				11	
	16		1				13		
	17			1				9	
	18			1				10	
	19		1				10		
	20			1				8	
	21	1			1	8,5			10
	22		1				7		
	23			1				9	
	24		1				12		

	25	1			1	10			11,5
	26	1			1	10,5			9,5
	27			1				8,5	
	28		1				8,5		
	29	1			1	16			13,5
	30	1			1	10,5			11
	31			1				11,5	
	32		1				8		
	33	1			1	10			8,5
	34		1				6		
	35	1			1	6			9
	36			1				10	
	37		1				11		
	38	1			1	4			6,5
	39			1				12,5	
	40			1				14	
	41	1				8			
	42	1			1	11			10,5
	43			1				12	
	44		1				11,5		
	45	1		1		10,5		8,5	
	46	1		1		9		8	
	47	1		1		8		8,5	
	48		1				10		
	49		1				10		
	50	1			1	14,5			10
H50P18 MINERAL	1	1		1		22,5		14,5	
	2		1				15,5		
	3			1				15	
	4	1		1		14,5		13,5	
	5		1	1			12	12,5	
	6				1				17,5
	7		1		2		10		8,5
	8		1		2		16,5		9
	9			1				14,5	
	10			1				10	
	11			1				11	
	12			1				10	
	13			1				11	
	14		1		1				12,5

	15	1			1	10,5			12
	16				2				9,75
	17		1		1		12		13,5
	18			1				14	
	19			1				12	
	20			1				12,5	
	21			1				13	
	22			1				12,5	
	23			1				7	
	24			1				13	
	25		1		2		15		9
	26			1				12,5	
	27	1	1		1	15	16		16
	28		1				14,5		
	29			1				17,5	
	30			1				15	
	31			1				12	
	32			1				10	
	33	1	1		1	7,5	18		11,5
	34			1				10	
	35			1				13	
	36			1				12,5	
	37			1				14,5	
	38		1		1		17		14
	39				1				16,5
	40	1				11			
	41			1				12,5	
	42		1		1		16,5		11
	43			1				10	
	44			1				12	
	45	1			1	6			10
	46				1				12
	47	1	2			8	13,5		
	48				1				10
	49		1				12		
	50	1			1	6			9
I48P18 MINERAL	1	2			1	17,5			15
	2		1		1		18		21,5
	3			1				10	
	4			1	1			24,5	20

	5			1			16	
	6		1		1		25	23,5
	7			1			10,5	
	8			1	1		23,5	26
	9				1			18,5
	10	1			1	14		16
	11	1		1		15		28
	12				1			18
	13				1			18,5
	14	1		1		15		22,5
	15			1				7,5
	16		1		1		22,5	24,5
	17		1				16,5	
	18			1				9
	19	1		1		14		18
	20				1			16
	21		1				16	
	22		1		1		20	22,5
	23			1				18,5
	24		1		1		18	20,5
	25			1				13
	26			1	1			23,5
	27			1				22
	28	1			1	8		14
	29			1				28
	30			1	1			34
	31			1	1			30
	32		1		1		17	18
	33	1			1	6		13,5
	34		1		1		26,5	22
	35		1				13	
	36			1				21,5
	37			1				19
	38			1				28
	39	1			1	9		14
	40			1				23
	41		1		1		14	18,5
	42	1			1	8		13
	43		1		1		24	21
	44		1				19	

	45			1				16	
	46		1		1		20		22,5
	47		1		1		32,5		
	48			1				18	
	49	1			1	8			12,5
	50			1				15	

Lampiran 7. Parameter Agronomi 2

Ha	Blok	Tahun				
	Gambut	2021	2022	2023	2024	2025
34,98	H47P18	156.871	134.662	132.308	115.392	108.120
26,84	H48P18	129.648	103.763	110.443	94.248	94.181
	Mineral					
26,45	H50P18	123.078	106.637	115.150	97.005	92.900
27,36	I48P18	77.793	81.870	90.282	76.562	86.794

Lampiran 8. Data Jumlah tandan buah segar (jg/ha/tahun)

	2021	2022	2023	2024	2025
Gambut H47	4484,59	3849,69	3782,39	3298,80	3090,91
Gambut H48	4830,40	3865,98	4114,87	3511,48	3508,98
Rerata	4657,50	3857,83	3948,63	3405,14	3299,94
Mineral H50	4653,23	4031,64	4353,50	3667,49	3512,29
Mineral I48	2843,31	2992,32	3299,78	2798,32	3172,30
Rerata	3748,27	3511,98	3826,64	3232,90	3342,29

Lampiran 9. Data Jumlah Tandan buah segar (jg/ha/tahun)

Independent Samples Test									
		Levene's Test for Equality of Variances					t-test for Equality of Means		
		F	Sig.	t	df	Sig. (2-tailed)	Mean Difference	Std. Error Difference	95% Confidence Interval of the Difference
									Lower Upper
Tinggi_tanaman	Equal variances assumed	15.716	.000	-44.148	198	.000	-188.20000	4.26291	-196.60653 -179.79347
	Equal variances not assumed			-44.148	144.561	.000	-188.20000	4.26291	-196.62568 -179.77432
Lingkar_batang	Equal variances assumed	6.404	.012	.716	198	.475	.94000	1.31315	-1.64955 3.52955
	Equal variances not assumed			.716	179.437	.475	.94000	1.31315	-1.65120 3.53120
Diameter_batang	Equal variances assumed	6.399	.012	.721	198	.472	.30130	.41816	-.52331 1.12591
	Equal variances not assumed			.721	179.471	.472	.30130	.41816	-.52384 1.12644
Jumlah_pelepah	Equal variances assumed	3.446	.065	1.910	198	.058	1.44000	.75373	-.04637 2.92637
	Equal variances not assumed			1.910	197.917	.058	1.44000	.75373	-.04638 2.92638
Jumlah_janjang	Equal variances assumed	25.579	.000	-3.077	198	.002	-.06000	.01950	-.09846 -.02154
	Equal variances not assumed			-3.077	182.166	.002	-.06000	.01950	-.09848 -.02152
BJR	Equal variances assumed	65.033	.000	-7.250	198	.000	-2.52250	.34791	-3.20859 -1.83641
	Equal variances not assumed			-7.250	129.757	.000	-2.52250	.34791	-3.21081 -1.83419

Lampiran 11. Hasil Analisis SPSS Parameter Agronomi 2

Group Statistics

```
T-TEST PAIRS=Gambut WITH Mineral (PAIRED)
/CRITERIA=CI (.9500)
/MISSING=ANALYSIS.
```

→ T-Test

[DataSet0]

Lampiran 10. Hasil analisis spss parameter agronomi

		Mean	N	Std. Deviation	Std. Error Mean
Pair 1	Gambut	3833.8080	5	538.74877	240.93578
	Mineral	3532.4160	5	254.67434	113.89383

Paired Samples Correlations

		N	Correlation	Sig.
Pair 1	Gambut & Mineral	5	.804	.101

Lampiran 12. Hasil Analisis SPSS Jumlah Tandan Buah Segar (TBS)

Paired Samples Test									
		Paired Differences							
		Mean	Std. Deviation	Std. Error Mean	95% Confidence Interval of the Difference		t	df	Sig. (2-tailed)
					Lower	Upper			
Pair 1	Gambut - Mineral	301.39200	366.90170	164.08343	-154.17663	756.96063	1.837	4	.140

Lampiran 14. Hasil analisis SPSS Jumlah tandan buah segar (panjang/ha/tahun)

→ T-Test

[DataSet0]

Paired Samples Statistics					
		Mean	N	Std. Deviation	Std. Error Mean
Pair 1	Gambut	658.2000	5	165.67649	74.09278
	Mineral	791.2000	5	170.58048	76.28591

Paired Samples Correlations				
		N	Correlation	Sig.
Pair 1	Gambut & Mineral	5	.988	.002

Paired Samples Test									
		Paired Differences							
		Mean	Std. Deviation	Std. Error Mean	95% Confidence Interval of the Difference		t	df	Sig. (2-tailed)
					Lower	Upper			
Pair 1	Gambut - Mineral	-133.00000	26.56125	11.87855	-165.98015	-100.01985	-11.197	4	.000

Lampiran 13. Hasil analisis SPSS Berat panjang rata-rata (kg)

→ T-Test

[DataSet0]

Paired Samples Statistics					
		Mean	N	Std. Deviation	Std. Error Mean
Pair 1	Gambut	1846.0000	5	976.34574	436.63509
	Mineral	2670.8000	5	542.41608	242.57584

Paired Samples Correlations				
		N	Correlation	Sig.
Pair 1	Gambut & Mineral	5	.330	.587

Paired Samples Test									
		Paired Differences							
		Mean	Std. Deviation	Std. Error Mean	95% Confidence Interval of the Difference		t	df	Sig. (2-tailed)
					Lower	Upper			
Pair 1	Gambut - Mineral	-824.80000	947.43691	423.70667	-2001.19830	351.59830	-1.947	4	.123

Lampiran 15. Hasil analisis SPSS Produksi kelapa sawit (ton/ha/tahun)