

LAMPIRAN



Gambar 1 Alat dan Bahan



Gambar 2 Proses Perendaman



Gambar 3 Penirisan Air Sebelum Gabah Dikukus



Gambar 4 Pengukusan dan Penjemuran



Gambar 5 Proses Penggilingan Padi



Gambar 6 Menghitung Tingkat Kepatahan Beras (Per 100 gram)



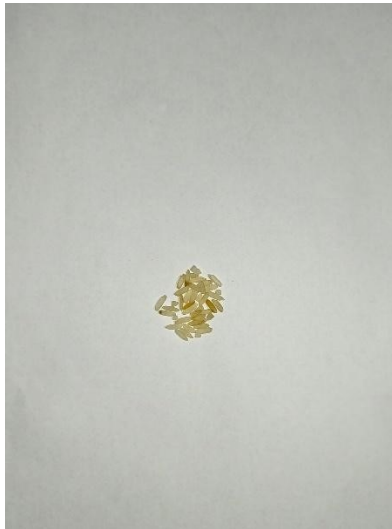
Gambar 7 Organoleptik



Gambar 8 Beras Tanpa Perendaman



Gambar 9 Beras Pratanak 3 Jam (P1)



Gambar 10 Beras Pratanak 4 Jam (P2)



Gambar 11 Beras Pratanak 5 Jam (P3)

Results					
File	Edit	Font	Results		
	Label		Area	Mean	Min Max
1	Red		39195	188.910	89 254
2	Green		39195	186.947	86 252
3	Blue		39195	171.566	56 237
4	(R+G+BY)3		39195	182.532	81 248
5	$0.299R+0.587G+0.114B$		39195	185.784	85 251

Gambar 12 Luminansi Kilap warna Beras Tanpa Perendaman (P0)

	Label	Area	Mean	Min	Max
1	Red	21942	193.317	113	255
2	Green	21942	186.764	97	253
3	Blue	21942	157.024	3	233
4	(R+G+B)/3	21942	179.089	86	246
5	0.299R+0.587G+0.114B	21942	185.350	96	250

Gambar 13 Luminansi Kilap Warna Beras Pratanak 3 Jam (P1)

	Label	Area	Mean	Min	Max
1	Red	23598	179.997	83	255
2	Green	23598	167.964	56	255
3	Blue	23598	119.128	0	239
4	(R+G+B)/3	23598	155.723	46	250
5	0.299R+0.587G+0.114B	23598	166.021	58	253

Gambar 14 Luminansi Kilap Warna Beras Pratanak 4 Jam (P2)

	Label	Area	Mean	Min	Max
1	Red	95481	186.306	71	255
2	Green	95481	182.421	60	255
3	Blue	95481	154.682	0	248
4	(R+G+B)/3	95481	174.455	52	252
5	0.299R+0.587G+0.114B	95481	180.445	62	254

Gambar 15 Luminansi Kilap Warna Beras Pratanak 5 Jam (P3)



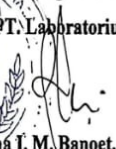
UNIVERSITAS KRISTEN ARTHA WACANA
UNIT PELAKSANA TEKNIS (UPT) LABORATORIUM EKSAKTA
Jl. Adisucipto – Oesapa – P.O.BOX 147 Kupang 85361– NTT

BLANKO HASIL ANALISIS SAMPEL PENELITIAN

Nama Pemohon : Grasela C. Padji
Jenis Analisis : Kadar air
Sampel : Beras

A. Kadar Air

Kode Sampel	Berat Cawan Kosong (g)	Berat Cawan + Sampel (g)	Berat Cawan Akhir + Sampel (g)	Kadar Air (%)
P0 ₍₁₎	42,8128	47,8150	47,2701	10,8932 %
P0 ₍₂₎	41,3117	46,3168	45,7697	10,9309 %
P0 ₍₃₎	40,4759	45,4777	44,9364	10,8221 %
P1 ₍₁₎	40,2668	45,2691	44,6571	12,2344 %
P1 ₍₂₎	43,1087	48,1111	47,4933	12,3501 %
P1 ₍₃₎	37,2080	42,2118	41,5958	12,3106 %
P2 ₍₁₎	40,6788	45,6820	45,0828	11,9763 %
P2 ₍₂₎	43,3446	48,3496	47,7562	11,8561 %
P2 ₍₃₎	46,3344	51,3359	50,7379	11,9564 %
P3 ₍₁₎	42,8747	47,8765	47,3188	11,1500 %
P3 ₍₂₎	44,9577	49,9597	49,4037	11,1156 %
P3 ₍₃₎	48,3237	53,3242	52,7629	11,2249 %

Mengetahui
Kepala UPT Laboratorium Eksakta

Regina I. M. Banoet, SP, MP
NIDN. 0812127401

Lampiran

A. Alat dan Bahan

Alat

- Timbangan analitik
- Oven
- Cawan Porselin
- Desikator
- Mortal + Alu
- Spatula

Bahan

- Sampel Gabah

B. Rumus

1. Kadar Air (SNI 01-2891-1992), Metode Oven)

$$\text{Kadar Air} = \frac{B-C}{B-A} \times 100\%$$

Keterangan :

A = Berat Cawan Kosong

B = Berat Cawan + Sampel

C = Berat Cawan Akhir + Sampel



BANK FOR DATA REPORTING PROTOCOL																								
P	PERIOD	RELATION	PERIOD																		TOTAL	INFORMATION		
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15							
1	P1	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15								
2		3	4	5	6	7	8	9	10	11	12	13	14	15										
3		4	5	6	7	8	9	10	11	12	13	14	15											
4	TOTAL	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	100	100						
5	DATA BANK	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	100	100						
6	P2	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15								
2		3	4	5	6	7	8	9	10	11	12	13	14	15										
3		4	5	6	7	8	9	10	11	12	13	14	15											
7	TOTAL	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	100	100						
8	DATA BANK	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	100	100						
9	P3	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15								
2		3	4	5	6	7	8	9	10	11	12	13	14	15										
3		4	5	6	7	8	9	10	11	12	13	14	15											
10	TOTAL	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	100	100						
11	DATA BANK	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	100	100						
12	P4	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15								
2		3	4	5	6	7	8	9	10	11	12	13	14	15										
3		4	5	6	7	8	9	10	11	12	13	14	15											
13	TOTAL	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	100	100						
14	DATA BANK	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	100	100						
15	P5	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15								
2		3	4	5	6	7	8	9	10	11	12	13	14	15										
3		4	5	6	7	8	9	10	11	12	13	14	15											
16	TOTAL	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	100	100						
17	DATA BANK	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	100	100						
18	P6	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15								
2		3	4	5	6	7	8	9	10	11	12	13	14	15										
3		4	5	6	7	8	9	10	11	12	13	14	15											
19	TOTAL	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	100	100						
20	DATA BANK	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	100	100						
21	P7	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15								
2		3	4	5	6	7	8	9	10</															

1441

1442

1443

1444

1445

1446

TABEL ANOVA

SR

DB

JK

KT

F HITUNG

F TABEL

0,05

0,01

Perlakuan

3

234,089

78,030

294,581**

2,660

3,905

Pemolis

14

5,978

0,427

1,612 ns

1,753

2,194

Galat

162

42,911

0,265

Total

179

282,978

UJI DMRT

$\sqrt{KTC/P}$

0,297

TABEL SSR

DB GALAT 162 TARAF 1%

NILAI

2

3

4

SSR

3,64

3,8

3,9

LSR

1,082

1,129

1,159

UJI RATA-RATA PERLAKUAN

PERLAKUAN

P2

P3

P1

P0

4,578

4,267

2,244

2,067

P2

4,578

0,311 ns

2,333**

2,511**

P3

4,267

2,022**

2,2**

P1

2,244

0,178 ns

P0

2,067

PERLAKUAN

NOTASI

P0

b

P1

b

P2

a

P3

a

NOTASI

P2

P3

P1

P0

a

b

ANALISIS DATA AROMA BERAS PRATANIAR																		
PERLUKUAN	ULANGAN	PANELIS															TOTAL	RERATA
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15		
P0	1	2	2	2	1	1	1	2	2	2	2	2	2	2	3	3		
	2	2	2	2	1	2		2	3	2	2	2	2	2	3	3		
	3	2	2	2	2	1	2	2	3	3	2	2	2	2	3	3		
TOTAL		6	6	6	3	5	5	8	7	6	6	6	6	6	8	9	90	6,0
RATA-RATA		2	2	2	1	1,6666667	1,6666667	2,6666667	2,3333333	2	2	2	2	2,6666667	3	3	32	2,1333333
P1	1	5	5	4	5	3		4	4	3	3	3	4	4	3	4		
	2	4	4	4	5	3		4	4	3	3	3	4	3	3	4		
	3	4	5	5	5	3		4	4	3	3	3	3	3	3	4		
TOTAL		13	14	13	15	9		12	12	9	9	9	11	10	9	12	108	11,266667
RATA-RATA		4,3333333	4,6666667	4,3333333	5	3		4	4	3	3	3	3,6666667	3,3333333	3	4	36,333333	3,7555556
P2	1	5	4	5	5	5		5	5	5	5	4	4	4	5	5		
	2	5	4	4	5	5		5	5	5	4	5	4	4	5	5		
	3	5	4	4	5	5		5	5	5	4	4	4	4	5	5		
TOTAL		15	12	13	15	15		15	15	15	13	14	12	12	14	15	210	14
RATA-RATA		5	4	4,3333333	5	5		5	5	5	4,3333333	4,6666667	4	4	4,6666667	5	70	4,6666667
P3	1	4	4	4	4	4		4	4	4	4	5	5	4	4	4		
	2	4	4	4	5	4		4	4	5	5	5	5	4	4	4		
	3	4	4	4	5	5		4	4	5	5	5	5	4	4	4		
TOTAL		12	12	12	13	14		12	12	14	14	15	15	12	12	12	194	12,933333
RATA-RATA		4	4	4,3333333	4,3333333	4,6666667		4	4	4,6666667	4,6666667	5	5	4	4	4	64,666667	4,3111111
TOTAL		40	44	45	49	49		44	47	49	42	44	44	40	43	48	608	
$\Sigma(n_i^2)$																$\Sigma(\text{TOTAL } n_i^2)$	847561	
		4	4	4	1	1	1	4	4	4	4	4	4	4	9	9	61	
		4	4	4	1	4	4	9	4	4	4	4	4	9	9	9	71	
		4	4	4	1	4	4	9	9	4	4	4	4	9	9	9	82	
		25	25	16	25	9	16	16	9	9	9	16	16	9	16	16	232	
		16	16	16	25	9	16	16	9	9	9	16	9	9	16	16	207	
		16	25	25	25	9	16	16	9	9	9	9	9	9	16	16	218	
		25	16	25	25	25	25	25	25	25	25	16	16	16	25	25	339	
		25	16	16	25	25	25	25	25	16	25	16	16	25	25	25	336	
		25	16	16	25	25	25	25	25	16	16	16	16	25	25	25	321	
		16	16	16	16	16	16	16	16	16	25	25	16	16	16	16	256	
		16	16	25	16	25	16	16	25	25	25	25	16	16	16	16	294	
		16	16	16	25	25	16	16	25	25	25	25	16	16	16	16	294	
$\Sigma(n_i^3)$																$\Sigma(\text{TOTAL } n_i^3)$	2713	

[illegible]

DB GALAT 162 TARAF 1%

NILAI	2	3	4
SSR	3,64	3,8	3,9
LSR	1,185	1,237	1,270

UJI RATA-RATA PERLAKUAN

PERLAKUAN		P2	P3	P1	P0
		4,667	4,311	3,756	2,133
P2	4,667		0,356 tn	0,911 tn	2,533**
P3	4,311			0,556 tn	2,178**
P1	3,756				1,622**
P0	2,133				

PERLAKUAN	NOTASI
P0	b
P1	a
P2	a
P3	a

NOTASI	P2	P3	P1	P0
				
	a			b

ANALISIS DATA TEKSTUR GERAS PRATANAK																		
PERLUKUAN	ULANGAN	PANELIS															TOTAL	RERATA
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15		
P0	1	1	2	2	2	2	2	2	2	2	2	2	2	2	3	3		
	2	1	2	2	2	2	2	2	3	2	2	2	2	3	3	3		
	3	1	2	2	2	2	2	2	3	3	2	2	2	3	3	2		
TOTAL		3	6	6	6	6	6	6	8	7	6	6	6	8	9	8	97	
RATA-RATA		1	2	2	2	2	2	2	2.666667	2.333333	2	2	2	2.666667	3	2.666667	32.333333	
P1	1	2	3	2	3	3	2	2	2	3	2	2	3	3	3	1		
	2	2	2	2	3	3	2	2	2	3	2	2	3	3	3	1		
	3	3	3	3	3	3	2	2	2	3	2	2	3	3	3	1		
TOTAL		7	8	7	9	9	6	6	6	9	6	6	9	9	9	3	109	
RATA-RATA		2.33333333	2.66666667	2.333333	3	3	2	2	2	3	2	2	3	3	3	1	36.333333	
P2	1	5	5	5	5	5	5	5	5	5	5	4	4	4	5	5		
	2	4	4	4	5	5	5	5	5	4	5	4	5	5	5	5		
	3	5	4	4	5	5	5	5	5	4	4	5	4	5	5	5		
TOTAL		14	13	13	15	15	15	15	15	13	14	13	13	14	15	15	212	
RATA-RATA		4.66666667	4.33333333	4.333333	5	5	5	5	5	4.333333	4.666667	4.333333	4.333333	4.666667	5	5	70.666667	
P3	1	4	5	4	4	4	4	4	4	4	5	5	4	4	4	5		
	2	5	5	5	4	5	4	4	5	5	5	5	4	4	4	5		
	3	4	5	4	5	5	4	4	5	5	5	5	4	4	4	5		
TOTAL		13	15	13	13	14	12	12	14	14	15	15	12	12	12	15	261	
RATA-RATA		4.33333333	5	4.333333	4.333333	4.666667	4	4	4.666667	4.666667	5	5	4	4	4	5	67	
TOTAL		37	42	39	43	44	39	41	42	42	41	40	40	43	45	41	619	
		$\Sigma(m)^2$															$(\Sigma \text{TOTAL } m)^2$	383161
		1	4	4	4	4	4	4	4	4	4	4	4	4	9	9	63	
		1	4	4	4	4	4	4	9	4	4	4	4	4	9	9	73	
		1	4	4	4	4	4	4	9	9	4	4	4	4	9	9	73	
		4	9	4	9	9	4	4	4	9	4	4	9	9	9	9	90	
		4	4	4	9	9	4	4	4	9	4	4	9	9	9	9	87	
		9	9	9	9	9	4	4	4	9	4	4	9	9	9	9	103	
		25	25	25	25	25	25	25	25	25	25	16	16	16	25	25	348	
		16	16	16	25	25	25	25	25	16	25	16	25	25	25	25	333	
		25	16	16	25	25	25	25	25	16	16	25	16	25	25	25	320	
		16	25	16	16	16	16	16	16	16	25	25	16	16	16	25	270	
		25	25	25	16	25	16	16	25	25	25	25	16	16	16	25	321	
		16	25	16	25	25	16	16	25	25	25	25	16	16	16	25	313	
		$\Sigma(m)^2$															2419	

UJI RATA-RATA PERLAKUAN									
PERLAKUAN		P2	P3	P1	P0	PERLAKUAN		NOTASI	
		4,711	4,467	2,422	2,156				
P2	4,711		0,244 tn	2,289**	2,556**	P0		b	
P3	4,467			2,044**	2,311**	P1		b	
P1	2,422				0,267 tn	P2		a	
P0	2,156					P3		a	
NOTASI		P2	P3	P1	P0				
				•	•				
		a		•	•				
									
				b					

ANALISA DATA KAWA BUKAN FRAMING																			
PERAKSIAN	JALANAN	PANELS															TOTAL	KIRAN	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15			
P0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16			
	2	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16			
	3	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16			
TOTAL		6	9	9	9	9	9	9	9	9	9	9	9	9	9	9	123	1.53333	
KAWA KAWA		2	3	3	3	3	3	3	3	3	3	3	3	3	3	3	41.6667	1.53333	
P1	1	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18			
	2	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18			
	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18			
TOTAL		12	15	15	15	15	15	15	15	15	15	15	15	15	15	15	333	1.53333	
KAWA KAWA		4	5	5	5	5	5	5	5	5	5	5	5	5	5	5	48.3333	1.53333	
P2	1	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19			
	2	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19			
	3	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19			
TOTAL		15	18	18	18	18	18	18	18	18	18	18	18	18	18	18	415	1.53333	
KAWA KAWA		5	6	6	6	6	6	6	6	6	6	6	6	6	6	6	51.6667	1.53333	
P3	1	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20			
	2	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20			
	3	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20			
TOTAL		18	21	21	21	21	21	21	21	21	21	21	21	21	21	21	465	1.53333	
KAWA KAWA		6	7	7	7	7	7	7	7	7	7	7	7	7	7	7	58.3333	1.53333	
TOTAL		45	54	54	54	54	54	54	54	54	54	54	54	54	54	54	645		
[2] TOTAL KAWA																		645	
[1] TOTAL PERAKSIAN		12366	14641	46335	88809	112848												21.645	

1	1	(TOTAL PERILAKUAN) ²	12769	14841	16225	88829	112444										
2	2	(TOTAL PANGKAS) ²	2025	1989	1849	2119	2209	1764	1681	1764	1764	1681	1600	1600	1849	2025	2025
3																	37636
4	3	PERILAKUAN (i)	4	10	12												
5	4	LIANGKAM (r)	8	10	8												
6	5	PANGKAS (P)	15	10	10												
7																	
8	6	DERIVAT BERSAMA															
9	7	DB Total (tarap) -1	179														
10	8	DB Perilaku (i) -1	6														
11	9	DB Pankas (P) -1	14														
12	10	DB Gabat	DB Total-DB Perilaku-DB Total			162											
13																	
14	11	FAKTOR KOREKSI															
15	12	Rt	(1) TOTAL a(i)/tarap			2818,422											
16																	
17	13	Jumlah Kuadrat															
18	14	JK Total	(1) (a) ² - Rt			225,578											
19	15	JK Perilaku	(1) (TOTAL PERILAKUAN) ² / tar - Rt			180,888											
20	16	JK Pankas	(1) (TOTAL PANGKAS) ² / tar - Rt			5,578											
21	17	JK Gabat	JK Total-JK Perilaku-JK Pankas			39,112											
22																	
23	18	KUADRAT TERSAMA															
24	19	K.T perilaku	JK Perilaku/DB Perilaku			60,111											
25	20	K.T pankas	JK Pankas / DB Pankas			0,898											
26	21	K.T Gabat	JK Gabat / DB Gabat			0,245											
27																	
28	19	F HITUNG															
29	20	F Hit Perilaku	K.T Perilaku/K.T Gabat			245,496											
30	21	F Hit Pankas	K.T Pankas/K.T Gabat			1,627											
31																	
32	22	TABEL ANOVA															
33	1		SR	DB	JK	K.T	F HITUNG	F TABEL									
34	2							0,05	0,01								
35	3	Perilaku		1	180,888	60,111	245,496*	2,660	1,905								
36	4	Pankas		14	5,578	0,898	1,627**	1,350	2,194								
37	5	Gabat		162	39,112	0,245											
38	6	Total		179	225,578												

LEI DIBERI $W_0 = 100/P = 0,286$

TABEL 10B

DAFTAR NILAI TABEL 1%

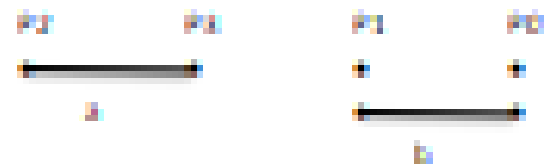
PERIOD	1	2	3
10%	0,91	0,83	0,75
15%	0,869	0,756	0,658

LEI KATA-KATA PERILAKUAN

PERILAKUAN		P2	P3	P1	P0
		0,278	0,478	2,689	2,611
P2	0,278		0,416	2,689**	2,261**
P3	0,478			2,689**	2,261**
P1	2,689				0,27816
P0	2,611				

PERILAKUAN	PERIOD
P0	1
P1	2
P2	3
P3	4

NOTASI



DATA ANALISIS KADAR AIR BERAS PRATANAK						
PERLAKUAN	ULANGAN			TOTAL	RERATA	
	1	2	3			
P0	10,893	10,9309	10,822	32,646	10,882	
P1	12,234	12,3501	12,311	36,895	12,298	
P2	11,976	11,8561	11,956	35,789	11,930	
P3	11,1500	11,1156	11,225	33,491	11,164	
TOTAL	46,254	46,2527	46,314	138,821		
		$(\sum \text{TOTAL } n)^2$		19271,2		
	$\sum (n)^2$					
	118,66	119,4846	117,12	355,264		
	149,68	152,525	151,55	453,756		
	143,43	140,5671	142,96	426,954		
	124,32	123,5566	126	373,877		
				AAAAAA		
$(\sum \text{TOTAL PERLAKUAN})^2$		1065,774	1361,2	1280,84	1121,6	4829,5
PERLAKUAN (t)	4					
ulangan (r)	3	tot	12			
DERAJAT BEBAS						
DB TOTAL	(tot) -1	11				
DB PERLAKUAN	(t) -1	3				
DB GALAT	DB Total - DB Perlakuan			8		
FAKTOR KOREKSI						
	FK	$(\sum \text{TOTAL } n)^2 / \text{tot}$		1605,93		
JUMLAH KUADRAT						
JK TOTAL	$\sum (n)^2 - FK$			3,923		
JK PERLAKUAN	$(\sum \text{TOTAL PERLAKUAN})^2 / r - FK$			3,895		
JK GALAT	JK TOTAL - JK PERLAKUAN			0,028		
KUADRAT TENGAH						
KT PERLAKUAN	JK PERLAKUAN / DB PERLAKUAN			1,298		
KT GALAT	JK GALAT / DB GALAT			0,003		

