

# LAMPIRAN 1

## KUISIONER POLA KONSUMSI BIHUN

JURUSAN TEKNOLOGI PANGAN  
FAKULTAS TEKNOLOGI PERTANIAN  
UNIVERSITAS KATOLIK SOEGIJAPRANATA  
Jl. Pawiyatan Luhur IV/1 Bendan Dhuwur, Semarang 50234

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Salah satu tujuan dari penelitian ini adalah untuk mengetahui pola konsumsi bihun konsumen, yaitu dengan menggunakan kuisisioner sebagai salah satu alat pengumpulan data dalam memperoleh informasi tersebut. Partisipasi anda melalui pengisian kuisisioner ini akan sangat membantu dalam penyelesaian skripsi saya. Terima kasih.

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### DATA RESPONDEN

Nama :  
Jenis Kelamin :  
Usia :  
Berat Badan :

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### KUISIONER

1. Apakah anda menyukai bihun?
  - a. cukup suka
  - b. suka
  - c. suka sekali
2. Berapa kali dalam seminggu anda mengkonsumsi bihun ?
  - a. 1 kali
  - b. 2 kali
  - c. lainnya.....kali
3. Berapa banyak (gram) bihun yang anda konsumsi setiap kali makan ?

## LAMPIRAN 2

### Data Responden

No.	Jenis Kelamin	Usia	Berat Badan	Konsumsi bihun Sekali Makan (gram)	Total per minggu	Weekly Consumption (g/kg BB)
1	Pria	21	53	100	1	1.887
2	Wanita	23	44	85	1	1.932
3	Pria	21	69	75	2	2.174
4	Wanita	21	72	110	1	1.528
5	Pria	22	62	120	3	5.806
6	Wanita	55	55	85	1	1.545
7	Pria	20	59	100	2	3.389
8	Pria	20	43	84	1	1.953
9	Wanita	20	46	100	1	2.174
10	Pria	19	50	85	1	1.700
11	Pria	21	49	85	1	1.735
12	Wanita	20	47	100	1	2.128
13	Wanita	20	62	85	1	1.371
14	Pria	39	55	85	2	3.091
15	Pria	26	59	100	1	1.695
16	Wanita	20	43	85	1	1.977
17	Pria	20	46	100	1	2.174
18	Pria	20	66	85	1	1.288
19	Wanita	21	53	85	3	4.810
20	Wanita	20	71	85	1	1.197
21	Wanita	39	68	100	1	1.471
22	Wanita	24	40	100	1	2.500
23	Wanita	29	54	100	1	1.852
24	Pria	32	50	100	2	4.000
25	Wanita	29	53	100	1	1.887
26	Wanita	36	52	85	3	4.903
27	Wanita	33	48	80	1	1.667
28	Wanita	27	55	85	3	4.636
29	Pria	27	42	85	1	2.024
30	Wanita	24	42	75	3	5.357
31	Pria	25	53	85	1	1.604
32	Wanita	45	48	85	3	5.312
33	Wanita	23	49	100	1	2.041
34	Pria	30	42	85	1	2.024
35	Wanita	33	58	85	3	4.396
36	Wanita	30	58	85	1	1.466
37	Pria	17	46	76	3	4.956
38	Wanita	32	50	85	3	5.100
39	Pria	24	53	85	1	1.604
40	Wanita	56	52	85	3	4.903
41	Wanita	34	48	120	1	2.500
42	Pria	28	52	85	1	1.635
43	Wanita	24	42	100	1	2.381
44	Pria	39	46	85	1	1.848
45	Pria	28	50	85	2	3.400
46	Wanita	32	56	110	1	1.964
47	Wanita	48	53	85	1	1.604
48	Pria	20	48	100	1	2.083
49	Wanita	28	46	85	1	1.848
50	Wanita	47	49	80	1	1.633

Keterangan :

Rata-rata berat badan pria : 53.83 kg

Rata-rata berat badan wanita : 48.23 kg

LAMPIRAN 3

Kadar air minggu 1

Sampel	Ulangan (ppm)	Rata-rata (ppm)	Berat Sampel (g)	Kehilangan Berat (g)	Berat sampel kering (g)	Kadar air (% DB)	Rata-rata Kadar air (%)	Kadar air (% WB)	Rata-rata Kadar air (%)	Berat Kering (%)
M1 mentah	4960	5166.66	3 24842	0 39097	2 85745	13 68247	14 0263	12 03569	12.30044	87 77042
	5580		3 07396	0 38541	2 68855	14 33523		12 53789		
	4960		3 1545	0 38888	2 76562	14 06122		12 32776		
M1 matang	2480	2273.33	5.65703	4.03665	1.62038	249.11749	273.29011	71.35634	70.3298	29.68578
	2480		5.57735	3.86942	1.70793	226.55612		69.37739		
	1860		5.5927	3.92918	1.66352	236.19673		70.25568		
M2 mentah	4340	4133.33	2 04478	0 23158	1 8132	12 77189	13 400436	11 32542	11.81402	88 11868
	4340		3 16318	0 39593	2 76725	14 3077		12 51683		
	3720		3 09561	0 35908	2 73653	13 12172		11 59981		
M2 matang	1860	1446.66	10.31797	8.29806	2.01991	410.81335	358.58813	80.42337	78.07705	21.93502
	1240		10.12489	7.77698	2.35509	330.22007		76.81051		
	1240		10.22344	7.87177	2.35167	334.73106		76.99728		
M3 mentah	4960	4960	2.3802	0.28862	2.09158	13.79913	14.15932	12.12587	12.13484	87.58675
	4960		2.56738	0.33257	2.23481	14.88135		12.15367		
	4960		2.44412	0.29634	2.14778	13.7975		12.12498		
M3 matang	2480	2273.33	4.58347	3.15071	1.43276	219.90493	232.08945	68.7471	69.86848	29.9611
	1860		7.67587	5.3933	2.28257	236.28191		70.26304		
	2480		7.60021	5.36539	2.23482	240.08152		70.59532		
M4 mentah	4340	4753.33	3.09831	0.38675	2.71156	14.263	13.62534	12.48236	11.98997	87.79866
	4960		2.61549	0.30485	2.31064	13.19331		11.65555		
	4960		2.8522	0.33747	2.51473	13.41973		11.83201		
M4 matang	1860	2066.66	8.04452	6.46614	1.57838	409.6694	329.73347	80.37943	76.31357	25.24337
	2480		7.93978	5.79668	2.1431	270.48107		73.00806		
	1860		7.99934	6.04375	1.95569	309.04995		75.55322		
M5 mentah	2480	2066.66	3.13769	0.39328	2.74441	14.33022	14.070626	12.53406	12.3263	87.65439
	1860		2.67889	0.32462	2.35427	13.78856		12.11775		
	1860		2.87121	0.35466	2.51655	14.0931		12.3271		
M5 matang	620	826.66	7.62398	5.5581	2.04298	273.17937	284.74048	68.7471	69.8684	26.04327
	1240		8.32586	6.29694	2.07966	302.78699		70.26304		
	620		7.92573	5.83039	2.09534	278.25508		70.59532		
M6 mentah	5580	5373.33	3.13405	0.42381	2.71024	15.63736	13.245053	13.50906	12.46359	87.53186
	5580		3.20983	0.35971	2.85012	12.62087		11.20651		
	4960		3.58913	0.45493	3.1342	11.47693		12.67522		
M6 matang	2480	2480	4.5616	3.03257	1.52903	198.33293	223.10907	66.4804	68.92516	30.71116
	2480		7.16547	5.11038	2.05509	248.6694		71.31953		
	2480		5.55672	3.83277	1.72395	222.32489		68.97555		
M7 mentah	3720	3720	3.0895	0.34636	2.74314	12.62652	12.32435	11.21127	11.03621	88.96308
	3720		3.05348	0.32959	2.72389	11.85653		10.79391		
	3720		3.06695	0.34053	2.72642	12.49		11.10345		
M7 matang	1240	1033.33	8.56398	5.80247	2.76151	210.92445	635.62645	67.75442	67.85974	32.14441
	620		7.91237	5.2529	2.65947	197.51679		66.38853		
	1240		7.8921	5.47998	2.41212	227.18521		69.43629		
M8 mentah	4340	4340	2.96896	0.33581	2.63315	11.15387	12.89785	11.31069	11.50351	88.46934
	4340		2.97522	0.34701	2.62821	12.54047		11.66333		
	4340		2.96124	0.34162	2.61962	12.99921		11.53652		
M8 matang	620	826.66	5.5898	3.81718	1.77262	215.34113	228.50763	69.28837	69.53425	30.478
	1240		5.46377	3.83009	1.63368	234.44554		70.09984		
	620		5.39743	3.78979	1.60764	235.73623		70.21486		
TM1 mentah	9300	9093.33	3.23331	0.37162	2.86169	12.98603	12.825526	11.49348	11.36755	88.62744
	9300		2.82697	0.31814	2.50883	12.68081		11.25374		
	8680		3.1221	0.35452	2.76758	12.80974		11.35543		
TM1 matang	3100	3100	8.27531	6.64712	1.62819	408.2521	361.5038	80.32477	78.22121	21.70662
	3100		7.81132	6.05465	1.75667	344.71272		77.51123		
	3100		7.29987	5.60831	1.69156	331.54661		76.82763		
M9 mentah	1240	1446.66	3.54849	0.39592	3.15257	12.55864	12.471356	11.15742	11.08849	88.89079
	1860		2.95371	0.32629	2.62742	12.41864		11.04678		
	1240		3.18873	0.35271	2.83602	12.43679		11.06128		
M9 matang	620	620	4.88355	2.94376	2.44595	120.35241	143.19202	60.27914	60.57437	42.71863
	620		4.98276	3.0095	1.97326	152.51411		60.39842		
	620		5.43123	3.31552	2.11571	156.70956		61.04556		
M10 mentah	1860	1860	2.40367	0.23224	2.17143	10.69525	10.623823	9.66189	9.60354	90.39497
	1860		2.20377	0.21055	1.99322	10.5633		9.55408		
	1860		2.35673	0.22612	2.13061	10.61292		9.59467		
M10 matang	1860	1446.66	5.50831	3.32408	2.18423	152.8543	155.17863	60.34673	60.80911	39.18285
	1240		5.44578	3.32515	2.12063	156.8001		61.05924		
	1240		6.23792	3.80646	2.43146	156.55038		61.02138		

LANJUTAN LAMPIRAN 3

Kadar air minggu 3

Sampel	Ulangan (ppm)	Rata-rata (ppm)	Berat Sampel (g)	Kehilangan Berat (g)	Berat sampel kering (g)	Kadar air (%DB)	Rata-rata Kadar air (%)	Kadar air (%WB)	Rata-rata Kadar air (%)	Berat Kering (%)
M1 mentah	4960	6166.66	3.11224	0.38662	2.72562	14.18466	14.08999	12.42283	12.30144	87.65158
	5580		3.01378	0.37286	2.64092	14.11856		12.37214		
	4960		3.24028	0.3971	2.84318	13.96675		12.25532		
M1 matang	1860	2066.66	10.11855	7.08396	3.03459	233.44043	226.85169	70.00969	69.39895	30.60495
	1860		1.31476	7.13087	3.18389	223.96722		69.13272		
	1860		10.31241	7.12117	3.19124	223.14742		69.05446		
M2 mentah	3720	3720	3.15504	0.38975	2.76529	14.09436	13.85123	12.35332	12.13996	87.83138
	3720		3.02133	0.36331	2.65802	13.66844		12.02496		
	3720		2.99872	0.36343	2.63529	13.79089		12.11982		
M2 matang	1240	1446.66	7.72485	6.04681	1.67804	360.34957	361.708	78.27738	78.34118	21.65953
	1860		7.73106	6.06236	1.6687	363.29837		78.41573		
	1240		9.2819	7.27055	2.01135	361.47612		78.33044		
M3 mentah	4960	5373.33	3.25236	0.39494	2.85742	13.82155	13.821653	12.14338	12.14059	73.06934
	5580		3.33912	0.40577	2.93335	13.83298		12.15215		
	5580		3.55224	0.43105	3.12119	13.81043		12.13476		
M3 matang	1860	2066.66	10.10074	7.02677	3.07397	228.58947	222.49074	69.56692	68.96548	30.98316
	1860		8.25491	5.68236	2.57255	220.88433		68.83621		
	2480		8.76922	6.01159	2.75763	217.99842		68.55332		
M4 mentah	4340	4340	3.12435	0.37246	2.75189	13.53469	13.34975	11.92144	11.85817	88.22154
	4340		3.08813	0.35722	2.73091	13.08062		11.56782		
	4340		3.21102	0.38028	2.83074	13.43394		11.84327		
M4 matang	2480	2066.66	5.58723	4.21275	1.37448	306.49773	306.19543	75.3997	75.38116	24.61909
	1860		5.46917	4.11738	1.35179	304.58725		75.28356		
	1860		5.40632	4.07962	1.3267	307.50131		75.46022		
M5 mentah	1860	2066.66	2.87842	0.35161	2.52681	13.91517	14.10268	12.21567	12.4484	87.64091
	1860		2.77751	0.34327	2.43424	14.10173		12.35923		
	2480		2.85441	0.35892	2.49749	14.29114		12.50438		
M5 matang	1240	826.66	7.12443	5.00695	2.11748	236.45795	237.23239	70.27864	70.34706	29.65315
	620		7.0856	4.98679	2.09881	237.60083		70.37935		
	620		7.21773	5.08002	2.13771	237.6384		70.38261		
M6 mentah	5580	5373.33	3.24682	0.37555	2.87127	13.07957	14.082166	11.56678	12.49882	87.63821
	4960		3.44272	0.43224	3.01048	14.35784		12.55523		
	5580		3.56651	0.46004	3.10647	14.80909		12.89902		
M6 matang	2480	2480	8.44912	6.04813	2.40099	251.9015	253.61046	71.58296	71.7199	28.28045
	2480		8.37945	6.02014	2.35931	255.16528		71.84413		
	2480		8.49166	6.09129	2.40037	253.76462		71.73262		
M7 mentah	3720	3926.66	2.87921	0.31098	2.56823	12.10872	12.414406	10.80089	11.37256	88.94442
	4340		3.46237	0.38516	3.07721	12.51653		11.12442		
	3720		3.33392	0.37354	2.96038	12.61797		11.20431		
M7 matang	620	826.66	5.78143	3.83061	1.95082	196.35896	136.84366	66.25723	66.31275	33.69013
	1240		5.34061	3.54611	1.7945	197.60991		66.399		
	620		5.77531	3.82789	1.94742	196.56211		66.28204		
M8 mentah	4340	4546.66	2.99124	0.34588	2.64536	13.07496	12.826506	11.5632	11.4511	88.64986
	4960		3.52731	0.39073	3.13658	12.45719		11.07734		
	4340		2.87782	0.32989	2.54793	12.94737		11.46352		
M8 matang	1240	1033.33	5.37584	3.52769	1.84815	190.87682	192.73174	65.62121	65.83047	34.1624
	620		5.49691	3.65931	1.8376	199.13528		66.57034		
	620		5.32963	3.48024	1.84939	188.18313		65.29988		
TM1 mentah	8680	9093.33	2.3346	0.26847	2.06613	12.99385	12.81971	11.50002	11.47972	88.6408
	9300		2.54273	0.28594	2.25679	12.6702		11.24566		
	9300		2.60392	0.29538	2.30854	12.79509		11.34397		
TM1 matang	3100	3100	7.19483	5.42093	1.7739	305.59388	304.86718	75.34483	75.30053	24.69959
	3100		7.22591	5.43788	1.78803	304.12688		75.25531		
	3100		7.31239	5.50633	1.80606	304.88079		75.30145		
M9 mentah	1240	1240	3.23642	0.36069	2.87583	12.54255	12.492776	11.14489	11.10253	88.89403
	1240		3.07736	0.34054	2.73682	12.4429		11.0663		
	1240		3.20112	0.3555	2.84562	12.49288		11.10575		
M9 matang	620	620	6.29528	3.79512	2.50016	151.79508	152.07173	60.28523	60.32874	39.67009
	620		5.43481	3.27724	2.15757	151.89495		60.30099		
	620		6.27622	3.79083	2.48538	152.52516		60.4		
M10 mentah	1860	1860	3.56722	0.34556	3.22166	10.72614	10.73935	9.6872	9.64803	90.30282
	1860		3.48912	0.34166	3.14746	10.8551		9.79243		
	1860		3.55964	0.34223	3.21741	10.63681		9.61443		
M10 matang	620	620	4.27382	2.5612	1.71262	149.54864	169.94056	59.9278	59.8936	37.47589
	620		4.34771	2.62096	1.72675	151.78572		60.28377		
	620		4.39724	2.97182	1.42542	208.48732		59.46924		

LANJUTAN LAMPIRAN 3

Kadar air minggu 2

Sampel	Ulangan (ppm)	Rata-rata (ppm)	Berat Sampel (g)	Kehilangan Berat (g)	Berat sampel kering (g)	Kadar air (% DB)	Rata-rata Kadar air (%)	Kadar air (% WB)	Rata-rata Kadar air (%)	Berat Kering (%)
M1 mentah	4960	4960	3.11224	0.38662	2.72562	14.18466	14.090243	12.42283	12.35009	87.76515
	4960		3.01378	0.37286	2.64092	14.11932		12.37214		
	4960		3.24028	0.3971	2.84318	13.96675		12.25532		
M1 matang	1860	2066.66	5.48722	3.84212	1.6451	233.5493	234.23061	70.01954	70.08084	29.9204
	2480		5.67147	3.97559	1.69588	234.4264		70.09821		
	1860		5.13145	3.59841	1.53309	234.7162		70.12478		
M2 mentah	3720	3926.66	3.15504	0.38975	2.76529	14.09436	13.85124	12.35332	12.16603	87.83339
	4340		3.02133	0.36331	2.65802	13.66849		12.02496		
	3720		2.99872	0.36343	2.63529	13.79089		12.11982		
M2 matang	1240	1446.66	7.13398	5.6591	1.47488	383.699	369.52626	79.32602	78.69218	21.32797
	1240		8.3814	6.57653	1.80487	364.3769		78.46581		
	1860		7.58416	5.93723	1.64693	360.5029		78.28472		
M3 mentah	4960	5166.66	3.25236	0.39494	2.85742	13.82155	13.821653	12.14338	12.14343	87.85682
	4960		3.33912	0.40577	2.93335	13.83298		12.15215		
	5580		3.55224	0.43105	3.12119	13.81043		12.13476		
M3 matang	2480	2480	8.17456	5.7666	2.40796	239.4807	229.15909	70.54332	69.59598	30.4108
	2480		8.52583	5.94813	2.5777	230.7534		69.76611		
	2480		8.3789	5.73774	2.64116	217.2432		68.47852		
M4 mentah	4340	4546.66	3.12435	0.37246	2.75189	13.53469	13.34967	11.92144	11.77751	88.22154
	4340		3.08813	0.35722	2.73091	13.08062		11.56782		
	4960		3.21102	0.38028	2.83079	13.4337		11.84327		
M4 matang	1860	1860	10.51645	7.95363	2.56282	310.3468	295.72455	75.63042	74.71301	25.28381
	1860		10.33171	7.67221	2.6595	288.4832		74.25891		
	1860		10.47895	7.78058	2.69837	288.3437		74.24971		
M5 mentah	1860	2066.66	2.87842	0.35161	2.52681	13.91517	14.10258	12.21567	12.35976	87.64126
	1860		2.77751	0.34327	2.40429	14.10144		12.35923		
	2480		2.85441	0.35692	2.49749	14.29114		12.50438		
M5 matang	1240	826.66	7.61198	5.34173	2.27025	235.2926	236.64139	70.17533	70.29408	29.71229
	620		7.34593	5.17955	2.16638	239.0878		70.50921		
	620		8.5663	6.01334	2.55296	235.5438		70.19772		
M6 mentah	5580	5373.33	3.24682	0.37555	2.8127	13.07957	14.082166	11.56678	12.34034	87.63821
	5580		3.44272	0.43224	3.01048	14.35784		12.55523		
	4960		3.56651	0.46004	3.10647	14.80909		12.89902		
M6 matang	1860	2060	5.51483	4.00055	1.51428	264.1883	253.99793	72.54175	72.73974	28.24805
	2480		5.22416	3.7247	1.49946	248.4028		71.29761		
	1860		5.32406	3.8003	1.52376	249.4028		71.37985		
M7 mentah	3720	3720	2.87921	0.31098	2.56823	12.10872	16.620396	10.80089	11.0432	88.94442
	3720		3.46237	0.38516	3.07721	12.51653		11.12442		
	3720		3.33392	0.37354	2.96038	12.61797		11.20431		
M7 matang	1240	1446.66	8.10195	5.30818	2.79377	190.0006	200.8802	65.51741	66.71972	33.32613
	620		7.72334	5.11733	2.60601	196.366		66.25801		
	1240		7.36644	5.03731	2.32913	216.274		68.38194		
M8 mentah	4340	4340	2.99124	0.34588	2.64536	13.07496	11.881959	11.5632	11.36802	88.64986
	4340		3.52731	0.39073	3.13658	11.10773		11.07734		
	4340		2.87782	0.32989	2.54793	11.46319		11.46352		
M8 matang	620	826.66	5.52899	3.6632	1.86579	196.3351	196.07079	66.25447	66.22109	33.77593
	620		5.65233	3.7417	1.91063	195.8359		66.1987		
	1240		5.39346	3.5716	1.82186	196.0414		66.21012		
TM1 mentah	9300	9093.33	2.3346	0.26847	2.06613	12.99385	12.81971	11.50002	11.36321	88.6408
	8680		2.54273	0.28594	2.25679	12.6702		11.24566		
	9300		2.60392	0.29538	2.30854	12.79509		11.34397		
TM1 matang	3100	3100	5.93921	4.53223	1.40698	322.1247	317.95533	76.31047	76.06385	23.95043
	3100		7.41529	5.67363	1.74166	325.7599		76.51267		
	3100		7.31408	5.5125	1.80158	305.9814		75.36842		
M9 mentah	1240	1240	3.23642	0.36069	2.71667	13.27691	12.73756	11.14489	11.10564	87.22234
	1240		3.07736	0.34054	2.73682	12.4429		11.0663		
	1240		3.20112	0.3555	2.84562	12.49288		11.10575		
M9 matang	620	620	5.22409	3.15254	2.07155	108.099	412.88558	60.34632	60.36765	39.64603
	620		5.21583	3.16015	2.05568	153.7277		60.58771		
	620		6.35671	3.82475	2.53196	151.0589		60.16892		
M10 mentah	1860	1446.66	3.56722	0.34556	3.22556	10.71317	10.73502	9.6872	9.69802	90.33956
	1240		3.48912	0.34166	3.14746	10.8551		9.79243		
	1240		3.55964	0.34223	3.21741	10.63681		9.61443		
M10 matang	620	620	4.19343	2.53091	1.66252	152.2334	152.9576	60.35432	60.46759	39.52229
	620		4.67741	2.82914	1.84827	153.0696		60.48531		
	620		5.65372	3.42407	2.22965	153.5698		60.56314		

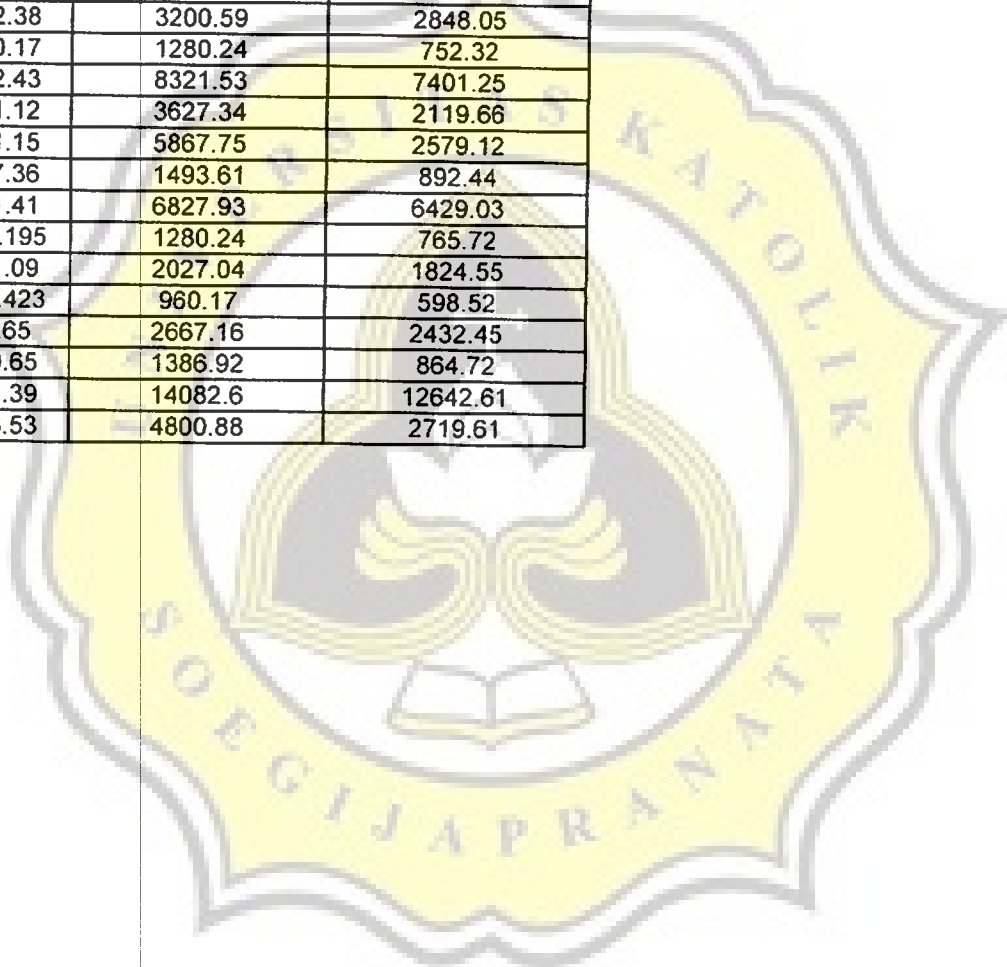
LAMPIRAN 4

Analisa Kandungan Boraks Dalam Berbagai Merek Bihun

Sampel	Asam Borat			Boron			Boraks			Rerala	Kdr Penurunan %
	Mgg1 (ppm)	Mgg2 (ppm)	Mgg3 (ppm)	Mgg1 (ppm)	Mgg2 (ppm)	Mgg3 (ppm)	Mgg3 (ppm)	Mgg1 (ppm)	Mgg2 (ppm)		
M1 mentah	4960	4960	4960	868	868	868	7681.416	7681.416	7681.416	7894.789	59.459459
	5580	4960	5580	976.5	868	976.5	8641.593	7681.416	8641.593		
	4960	4960	4960	868	868	868	7681.416	7681.416	7681.416		
M1 matang	2480	1860	1860	434	325.5	325.5	3840.708	2880.531	2880.531	3200.59	59.459459
	2480	2480	1860	434	434	325.5	3840.708	3840.708	2880.531		
	1860	1860	1860	325.5	325.5	325.5	2880.531	2880.531	2880.531		
M2 mentah	4340	3720	3720	759.5	651	651	6721.239	5761.062	5761.062	6081.121	63.157895
	4340	4340	3720	759.5	759.5	651	6721.239	6721.239	5761.062		
	3720	3720	3720	651	651	651	5761.062	5761.062	5761.062		
M2 matang	1860	1240	1240	325.5	217	217	2880.531	1920.354	1920.354	2240.413	63.157895
	1240	1240	1860	217	217	325.5	1920.354	1920.354	2880.531		
	1240	1860	1240	217	325.5	217	1920.354	2880.531	1920.354		
M3 mentah	4960	4960	4960	868	868	868	7681.416	7681.416	7681.416	8001.475	56
	4960	4960	5580	868	868	976.5	7681.416	8641.593	8641.593		
	4960	5580	5580	868	976.5	976.5	7681.416	8641.593	8641.593		
M3 matang	2480	2480	1860	434	434	325.5	3840.708	3840.708	2880.531	3520.649	56
	1860	2480	1860	325.5	434	325.5	2880.531	3840.708	2880.531		
	2480	2480	2480	434	434	434	3840.708	3840.708	3840.708		
M4 mentah	4340	4340	4340	759.5	759.5	759.5	6721.239	6721.239	6721.239	7041.298	56.060606
	4960	4340	4340	868	759.5	759.5	7681.416	6721.239	6721.239		
	4960	4960	4340	868	868	759.5	7681.416	7681.416	6721.239		
M4 matang	1860	1860	2480	325.5	325.5	434	2880.531	2880.531	3840.708	3093.904	56.060606
	2480	1860	1860	434	325.5	325.5	3840.708	2880.531	2880.531		
	1860	1860	1860	325.5	325.5	325.5	2880.531	2880.531	2880.531		
M5 mentah	2480	1860	1860	434	325.5	325.5	3840.708	2880.531	2880.531	3200.59	60
	1860	1860	1860	325.5	325.5	325.5	2880.531	2880.531	2880.531		
	1860	2480	2480	325.5	434	434	2880.531	3840.708	3840.708		
M5 matang	620	1240	1240	108.5	217	217	960.177	1920.354	1920.354	1280.236	60
	1240	620	620	217	108.5	108.5	1920.354	960.177	960.177		
	620	620	620	108.5	108.5	108.5	960.177	960.177	960.177		
M6 mentah	5580	5580	5580	976.5	976.5	976.5	8641.593	8641.593	8641.593	8321.534	56.410256
	5580	5580	4960	976.5	976.5	868	8641.593	8641.593	7681.416		
	4960	4960	5580	868	868	976.5	7681.416	7681.416	8641.593		
M6 matang	2480	1860	2480	434	325.5	434	3840.708	2880.531	3840.708	3627.335	56.410256
	2480	2480	2480	434	434	434	3840.708	3840.708	3840.708		
	2480	1860	2480	434	325.5	434	3840.708	2880.531	3840.708		
M7 mentah	3720	3720	3720	651	651	651	5761.062	5761.062	5761.062	5867.748	74.545455
	3720	3720	4340	651	651	759.5	5761.062	5761.062	6721.239		
	3720	3720	3720	651	651	651	5761.062	5761.062	5761.062		
M7 matang	1240	1240	620	217	217	108.5	1920.354	1920.354	960.177	1493.609	74.545455
	620	620	1240	108.5	108.5	217	960.177	960.177	1920.354		
	1240	1240	620	217	217	108.5	1920.354	1920.354	960.177		
M8 mentah	4340	4340	4340	759.5	759.5	759.5	6721.239	6721.239	6721.239	6827.925	81.25
	4340	4340	4960	759.5	759.5	868	6721.239	6721.239	7681.416		
	4340	4340	4340	759.5	759.5	759.5	6721.239	6721.239	6721.239		
M8 matang	620	620	1240	108.5	108.5	217	960.177	960.177	1920.354	1280.236	81.25
	1240	620	620	217	108.5	108.5	1920.354	960.177	960.177		
	620	1240	620	108.5	217	108.5	960.177	1920.354	960.177		
TM1 mentah	9300	9300	8680	1627.5	1627.5	1519	14402.65	14402.65	13442.48	14082.6	65.909091
	9300	8680	9300	1627.5	1519	1627.5	14402.65	13442.48	14402.65		
	8680	9300	9300	1519	1627.5	1627.5	13442.48	14402.65	14402.65		
TM1 matang	3100	3100	3100	542.5	542.5	542.5	4800.885	4800.885	4800.885	4800.885	65.909091
	3100	3100	3100	542.5	542.5	542.5	4800.885	4800.885	4800.885		
	3100	3100	3100	542.5	542.5	542.5	4800.885	4800.885	4800.885		
M9 mentah	1240	1240	1240	217	217	217	1920.354	1920.354	1920.354	2027.04	52.631579
	1860	1240	1240	325.5	217	217	2880.531	1920.354	1920.354		
	1240	1240	1240	217	217	217	1920.354	1920.354	1920.354		
M9 matang	620	620	620	108.5	108.5	108.5	960.177	960.177	960.177	960.177	52.631579
	620	620	620	108.5	108.5	108.5	960.177	960.177	960.177		
	620	620	620	108.5	108.5	108.5	960.177	960.177	960.177		
M10 mentah	1860	1860	1860	325.5	325.5	325.5	2880.531	2880.531	2880.531	2667.158	48
	1860	1240	1860	325.5	217	325.5	2880.531	1920.354	2880.531		
	1860	1240	1860	325.5	217	325.5	2880.531	1920.354	2880.531		
M10 matang	1860	620	620	325.5	108.5	108.5	2880.531	960.177	960.177	1386.922	48
	1240	620	620	217	108.5	108.5	1920.354	960.177	960.177		
	1240	620	620	217	108.5	108.5	1920.354	960.177	960.177		

## LANJUTAN LAMPIRAN 4

Sampel	Kdr air (WB %)	Kdr Boraks (brt krg) (ppm)	Kdr Boraks (brt bsh) (ppm)
M1 mentah	12.32	7894.79	7029.02
M1 matang	69.37	3200.59	1883.39
M2 mentah	12.04	6081.12	5427.63
M2 matang	78.37	2240.41	1256.04
M3 mentah	12.14	8001.47	7135.31
M3 matang	69.47	3520.65	2077.37
M4 mentah	11.87	7041.3	6293.89
M4 matang	75.47	3520.65	2006.42
M5 mentah	12.38	3200.59	2848.05
M5 matang	70.17	1280.24	752.32
M6 mentah	12.43	8321.53	7401.25
M6 matang	71.12	3627.34	2119.66
M7 mentah	11.15	5867.75	2579.12
M7 matang	67.36	1493.61	892.44
M8 mentah	11.41	6827.93	6429.03
M8 matang	67.195	1280.24	765.72
M9 mentah	11.09	2027.04	1824.55
M9 matang	60.423	960.17	598.52
M10 mentah	9.65	2667.16	2432.45
M10 matang	60.65	1386.92	864.72
TM1 mentah	11.39	14082.6	12642.61
TM1 matang	76.53	4800.88	2719.61



## LAMPIRAN 5

### Oneway Mentah

#### Descriptives

Asam Boraks

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
M1	9	7894.79	423.3983	141.1328	7569.3359	8220.2413	7681.42	8641.59
M2	9	6081.12	480.0885	160.0295	5712.0923	6450.1496	5761.06	6721.24
M3	9	8001.47	480.0885	160.0295	7632.4462	8370.5036	7681.42	8641.59
M4	9	7041.30	480.0885	160.0295	6672.2692	7410.3266	6721.24	7681.42
M5	9	3200.59	480.0885	160.0295	2831.5613	3569.6187	2880.53	3840.71
M6	9	8321.53	480.0885	160.0295	7952.5052	8690.5626	7681.42	8641.59
M7	9	5867.75	320.0590	106.6863	5621.7292	6113.7674	5761.06	6721.24
M8	9	6827.93	320.0590	106.6863	6581.9061	7073.9444	6721.24	7681.42
TM1	9	14082.6	480.0885	160.0295	13713.567	14451.625	13442.48	14402.65
M9	9	2027.04	320.0590	106.6863	1781.0212	2273.0594	1920.35	2880.53
M10	9	2667.16	423.3983	141.1328	2341.7056	2992.6110	1920.35	2880.53
Total	99	6546.66	3226.6998	324.2955	5903.1074	7190.2152	1920.35	14402.65

#### ANOVA

Asam Boraks

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	1.00E+09	10	100394593.9	539.030	.000
Within Groups	16390042	88	186250.476		
Total	1.02E+09	98			

#### Asam Boraks

Duncan<sup>a</sup>

Sampel	N	Subset for alpha = .05							
		1	2	3	4	5	6	7	8
M9	9	2027.04							
M10	9		2667.16						
M5	9			3200.59					
M7	9				5867.75				
M2	9				6081.12				
M8	9					6827.93			
M4	9					7041.30			
M1	9						7894.79		
M3	9						8001.47	8001.47	
M6	9							8321.53	
TM1	9								14082.60
Sig.		1.000	1.000	1.000	.297	.297	.601	.119	1.000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 9.000.



# LANJUTAN LAMPIRAN 5

## Oneway Matang

### Descriptives

Asam Boraks

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
M1	9	3200.6	480.0885	160.03	2831.5613	3569.62	2880.53	3840.71
M2	9	2240.4	480.0885	160.03	1871.3843	2609.44	1920.35	2880.53
M3	9	3520.6	480.0885	160.03	3151.6203	3889.68	2880.53	3840.71
M4	9	3520.6	1270.1948	423.40	2544.2908	4497.01	2880.53	6721.24
M5	9	1280.2	480.0885	160.03	911.2073	1649.26	960.18	1920.35
M6	9	3627.3	423.3983	141.13	3301.8826	3952.79	2880.53	3840.71
M7	9	1493.6	506.0577	168.69	1104.6183	1882.60	960.18	1920.35
M8	9	1280.2	480.0885	160.03	911.2073	1649.26	960.18	1920.35
TM1	9	4800.9	1.542E-13	5.E-14	4800.8850	4800.88	4800.88	4800.88
M9	9	960.18	2.833E-14	9.E-15	960.1770	960.1770	960.18	960.18
M10	9	1386.9	697.5524	232.52	850.7361	1923.11	960.18	2880.53
Total	99	2482.9	1357.9653	136.48	2212.0405	2753.72	960.18	6721.24

### ANOVA

Asam Boraks

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	1.51E+08	10	15121676.12	45.106	.000
Within Groups	29502075	88	335250.856		
Total	1.81E+08	98			

## Post Hoc Tests

### Homogeneous Subsets

Asam Boraks

Duncan<sup>a</sup>

Sampel	N	Subset for alpha = .05			
		1	2	3	4
M9	9	960.1770			
M5	9	1280.2360			
M8	9	1280.2360			
M10	9	1386.9223			
M7	9	1493.6087			
M2	9		2240.4130		
M1	9			3200.5900	
M3	9			3520.6490	
M4	9			3520.6490	
M6	9			3627.3353	
TM1	9				4800.8850
Sig.		.084	1.000	.159	1.000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 9.000.

## LAMPIRAN 6

### PENGHITUNGAN KADAR BORAKS PADA JUMLAH MAKSIMUM KONSUMSI (JMK) BIHUN

BB rata-rata :      Pria = 53.83 kg  
                            Wanita = 48.23 kg

Konsumsi bihun rata – rata perminggu :  
Pria = 93.29 g  
Wanita = 88.50 g

WC (Konsumsi bihun rata-rata / BB rata-rata)

Pria =  $93.29 / 53.83$   
      = 1.73 g/kg BB  
Wanita =  $81.12 / 48.2307$   
      = 1.83 g/kg BB

ADI = NOAEL Boron : 100  
      = 9.6 mg/kg.BB : 100  
      = 0.096 mg/kg.BB

PTWI = ADI x 7  
      = 0.096 mg/kg BB x 7  
      = 0.672 mg/kg.BB

Wanita & Pria = 0.672 mg/kg BB/minggu

WI = WC x C

HQ = WI / PTWI

JMK =  $1 / HQ \times WC$

## LANJUTAN LAMPIRAN 6

Konversi JMK bahun (boron) menjadi JMK bahun (boraks) :

$$\text{JMK boraks} = \frac{381,37}{4 \times \text{BMBoron}} \times \text{JMK}$$

$$\text{JMK bahun} = \text{JMK boraks} \times \text{berat badan rata-rata}$$

Keterangan :

WC	= <i>Weekly Consumption</i> (g/kg BB)
BB	= Berat Badan (kg)
ADI	= <i>Acceptable Daily Intake</i> (mg/kg BB)
NOAEL	= <i>No Observed Adverse Effect Level</i>
PTWI	= <i>Provisional Total Weekly Intake</i> (mg/kg BB/mgg)
WI	= <i>Weekly Intake</i> (mg/kg BB)
C	= <i>Consumption of Borax</i> (µg/g)
HQ	= <i>Hazard Quotient</i>
JMK	= Jumlah Maksimum Konsumsi (g/kg BB)
BM Boraks	= 381.37
BM Boron	= 10.81
NOAEL Boron	= 9.6 mg/kg (WHO,1998)

## LAMPIRAN 7

### Hasil Perhitungan JMK Bihun

#### Wanita

Sampel	Kdr Boraks ( $\mu\text{g/g}$ )	WI ( $\text{mg/kg BB}$ )	HQ	JMK Boraks ( $\text{g/kg BB}$ )	Konversi JMK Boraks ( $\text{g/kg BB}$ )	JMK Bihun ( $\text{g/ minggu}$ )
M1	1883.39	3.45	5.13	0.36	3.18	153.31
M2	1256.04	2.29	3.41	0.54	4.76	229.48
M3	2077.37	3.8	5.65	0.32	2.82	135.95
M4	2006.42	3.67	5.46	0.34	2.99	144.15
M5	752.32	1.38	2.05	0.89	7.85	378.45
M6	2119.66	3.88	5.77	0.32	2.82	135.95
M7	892.44	1.63	2.43	0.75	6.61	318.67
M8	765.72	1.4	2.09	0.88	0.79	425.2
M9	598.52	1.09	1.62	1.13	9.97	480.65
M10	864.72	1.58	2.35	0.78	6.88	331.68
TM1	2719.61	4.97	7.41	0.25	2.21	106.54

Keterangan :

WC : 1,83 g/kg BB

BB : 48,21 kg

PTWI 0,672 mg/kg BB

#### Pria

Sampel	Kdr Boraks ( $\mu\text{g/g}$ )	WI ( $\text{mg/kg BB}$ )	HQ	JMK Boraks ( $\text{g/kg BB}$ )	Konversi JMK Boraks ( $\text{g/kg BB}$ )	JMK Bihun ( $\text{g/ minggu}$ )
M1	1883.39	3.26	4.85	0.36	3.18	170.92
M2	1256.04	2.17	3.23	0.54	4.76	256.35
M3	2077.37	3.59	5.35	0.32	2.82	151.8
M4	2006.42	3.47	5.17	0.33	2.91	156.67
M5	752.32	1.3	1.93	0.89	7.85	422.55
M6	2119.66	3.67	5.46	0.32	2.82	151.8
M7	892.44	1.54	2.29	0.76	6.7	360.83
M8	765.72	1.32	1.97	0.88	7.76	417.79
M9	598.52	1.03	1.54	1.12	9.88	531.84
M10	864.72	1.49	2.22	0.78	6.88	370.32
TM1	2719.61	4.7	7	0.25	2.21	118.69

Keterangan :

WC : 1,73 g/kg BB

BB : 53,83 kg

PTWI : 0,672 mg/kg BB

## LAMPIRAN 8

### Lokasi Survei Konsumsi Bihun Matang Di Lima Wilayah Semarang

#### A. SEMARANG TENGAH

1. PUJASERA SRI RATU
2. PAK KUMIS

#### B. SEMARANG SELATAN

1. LAPANGAN TEMBAK
2. PAK BRENGOS

#### B. SEMARANG UTARA

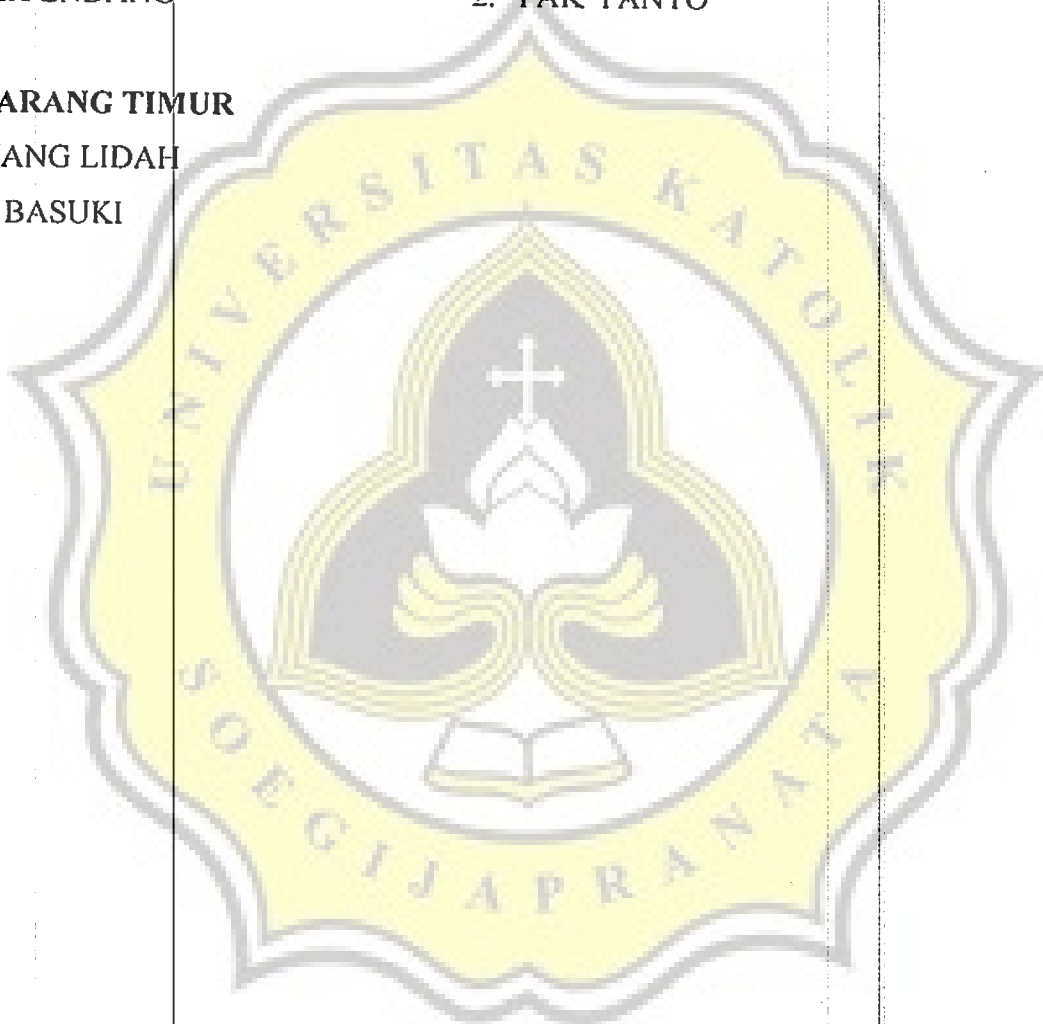
1. PAK PETRUK
2. MBAK ENDANG

#### B. SEMARANG BARAT

1. PAK GEGER
2. PAK YANTO

#### C. SEMARANG TIMUR

1. GOYANG LIDAH
2. PAK BASUKI



## NAMA DAN KODE SAMPEL

NAMA	KODE
Kujang	M1
Padi	M2
Bersama	M3
Superior	M4
Rose Brand	M5
Ceret	M6
AAA Merah	M7
AAA Hitam	M8
Super Bihun	M9
Pop Bihun	M10
Tanpa Merek	TM1

