

## LAMPIRAN

**Lampiran 1. Data Pertumbuhan bobot Ikan Lele**

Sampel	P1U1								Sampel	P1U2							
	Hari Ke-									Hari Ke-							
	1	5	10	15	20	25	30	35		1	5	10	15	20	25	30	35
1	1	2.2	4.1	3.4	4.2	5.5	9.6	12	1	0.93	3	3	3.56	6.3	4.2	13.2	12
2	0.9	2.1	4	4.4	3.9	6	6	16.3	2	0.87	2.1	4.2	5.43	5.2	14	7.2	10
3	1	1	3	6.6	4.6	8	10.5	6	3	0.83	2.3	4	8.1	2.9	10	7.3	13.5
4	1	3.4	3.8	6.2	4.2	8.3	5.6	22.5	4	0.81	3.2	2.5	5.23	6.4	7	10.3	14.3
5	0.7	2.3	5.6	4.1	4.2	6.5	12	13.6	5	0.81	1.56	2.6	7.12	5.2	9	9	8.4
6	0.8	2.7	4.1	4.4	5.6	7.5	6.4	14.2	6	1	1.76	3.5	5.6	5.3	5.5	12	9.4
7	0.7	2.6	3.4	3.9	4	8	6.6	11.4	7	2	2.2	3.5	4.32	6.1	6.2	13	8.9
8	0.9	1.5	3.8	4	7	7.3	4.1	18	8	1	2.4	5	3.78	6.2	5.6	6.5	12.1
9	1	1.7	5	3.8	6.3	8.4	8	10.7	9	1.3	2.19	4.3	3.65	5	10	10.5	10.4
10	1	2.1	5.6	3.6	5.3	10.4	7.3	10.6	10	1.75	2.31	3.2	3.8	4	9.3	8.4	11.2
11	1	1.2	6.7	3.5	4.6	9.3	7.5	11	11	0.8	2.13	3.5	5.2	4.3	8.3	9.4	9.8
12	1.3	1.4	4.5	4.8	7	10.3	7	13	12	0.7	1.98	5.2	4.21	4.7	7.3	7.8	8
13	1.2	2.5	3	4.4	5.3	9	9	20.3	13	0.9	2.18	3.1	4.53	6.3	9	8.4	9.5
14	0.8	1.2	6	5.3	6.5	8	9	10.3	14	1	2.34	4.2	4.32	4.2	9	9.7	15.3
15	0.9	19	4	5.6	6.8	7.2	10.5	11.3	15	1	2.67	3.2	6.12	4.7	10.9	10.4	18.3
16	0.78	2.4	4.1	5.4	10	8.4	5.2	10.4	16	0.37	2.3	5.2	5.23	7.3	11	10.4	15
17	1.2	2.6	3.2	5.2	5.6	10.9	5.6	14.6	17	0.8	2.13	5	5.43	5.4	6.3	8.5	16
18	1.1	3	4.3	4.8	7.3	13	6.4	12	18	1.34	1.98	3.4	6.42	5.8	6.6	8.6	12
19	0.9	2.3	3	6.5	6.3	7.6	12.6	10.7	19	1.78	1.94	8.1	3.45	9.3	10.2	9.8	10.3
20	0.91	2.5	3.1	6.3	4.1	6.5	12	8.8	20	1.95	3.5	3.4	4.52	6.2	7.6	7.8	12.3
21	1	1.15	4	5.4	7.3	6.3	10.9	13	21	0.53	3.5	3.9	4.63	5.2	7.5	13.2	10.2
22	1	1.67	4	3.7	6.5	9	6.7	11	22	1.23	3.2	3.8	4.5	5	8	20.4	11.3
23	0.9	2.19	4.3	3.7	4	8.8	10	12.9	23	1.24	2.65	4	3.9	5.1	7	15.6	9.8
24	0.83	2.3	8	3.7	4.7	10.4	11	20.3	24	1.38	2.35	3.7	3.7	4.8	5.6	14.3	16.3
25	0.81	1.67	4.3	4.3	5.2	12	10.5	25.3	25	0.79	2.41	3.45	3.8	6	6.1	6.7	11
26	0.7	1.8	5.4	4.2	3.8	7.8	8	6.7	26	0.59	2.53	4.01	5.21	4.6	8	8.5	10.2
27	1.3	2.3	4.7	5.6	4.5	8.2	5.8	10.3	27	0.98	3.5	2.89	4.32	4.5	13	18.2	15.2
28	1.3	2	3	6.5	5.3	4.4	9.3	12	28	0.38	4	4.01	4.57	6.5	10.3	16.2	10
29	1.2	2	3.6	5.4	5	6.3	13	10.4	29	0.78	2.3	3.29	4.3	4.5	8.7	9.5	9
30	1.3	2.78	3.2	5.8	4.1	8.4	10	7.8	30	0.38	2.67	3.3	3.6	5.3	4.5	8.3	9.8
31	0.78	2.5	6	6.5	4.7	6.5	6.3	11.4	31	0.93	2.85	3.35	5.2	4	5.4	6.5	13.2
32	0.9	1.8	4	4.3	4.3	7.3	10.5	18.2	32	0.38	2.73	3.65	3.5	7	7.6	9.5	12
33	1	3.2	4.2	5.3	5.3	6.8	12	20	33	0.78	1.9	4.3	7	4.2	8.5	16.3	11
34	1	3.44	3.4	3.9	10	8.4	10.3	8.3	34	0.88	1.43	4.1	5.2	5.3	9.3	8.6	10
35	0.9	1.95	3.2	5.3	8.3	8.2	9.3	10.4	35	1.73	1.23	3.76	5.32	5.73	8.4	9.8	13.3

36	0.9	3.47	2.6	3.8	4.7	5.4	13	25.6	36	0.38	3.2	3.56	4.3	4.78	7.8	19.6	9.7
37	0.97	2.24	4.3	5.7	5.7	6.67	10.7	8.9	37	0.84	2.3	3.85	3.8	5.35	10.2	13.3	12.4
38	0.7	3.2	3.5	4	4.5	6.34	9.3	10.2	38	1.8	3.2	3.56	4.1	6.01	10	8	11.5
39	1	1	3.7	4.2	4.1	7.24	8.8	13.7	39	1.3	1.98	4.38	3.9	4.65	9	6.3	12
40	0.9	1.6	3.6	3.6	6.1	11.7	14	22.6	40	1.2	2.68	4.3	4.2	6.21	9	6.8	15.2
41	1.4	3	5.2	5.4	5.3	5.7	10	15.4	41	1	3.6	2.3	4.3	4.32	15.3	8.9	12.5
42	1.31	1.9	3.2	4	5.2	8.3	10.4	13	42	0.3	2.9	2.97	4.4	5.43	14	8.6	9.8
43	1.71	3.2	3.5	5.6	5.4	6	10.4	8.5	43	0.8	2.45	3.42	5.2	6.43	9.3	11.2	11.4
44	0.74	2.7	3.5	6.5	7	7.1	15.3	8.3	44	0.4	2.53	3.24	4.5	6.7	5.6	7.8	12
45	1	2.6	4.3	8	8.2	6.3	14	10	45	0.9	2.59	4.2	3.8	7.1	5.6	8.4	10
46	0.83	2.4	4.1	7.5	6	9	8.2	12.3	46	1	2.54	3.56	3.9	4.35	4.1	8.6	10.2
47	0.71	2.6	3	3.6	4.5	8.2	11	11.2	47	1.82	2.73	4.3	7.4	5.43	6.4	7.9	10.5
48	0.81	1.2	3.5	4.3	6.2	4.6	9.8	13	48	0.98	2.14	3.4	6.5	6.23	7	8.3	11.1
49	0.91	1.54	3	5.6	7.2	6.2	6.8	8.1	49	1.2	1.88	4.3	5.2	6	7.5	9.5	10.5
50	1	2.31	7.12	4.3	5.3	7	9.8	13	50	1.1	2.3	6.32	4.5	5.3	6.3	10.5	17.3

Sampel	P2U1								Sampel	P2U2							
	Hari Ke-									Hari Ke-							
	1	5	10	15	20	25	30	35		1	5	10	15	20	25	30	35
1	1.35	3.4	5.3	4.3	4.5	24	7.5	18	1	0.78	1.56	7.5	3.2	7.4	10.3	11.3	9
2	2.25	2	4.4	5.3	5.3	11.6	8.5	12.3	2	1.48	2.36	6.5	4.2	5.6	6.3	10.4	23
3	1.39	8.02	4.2	6.2	6.2	11.5	6.8	12.5	3	1.48	3.01	6.5	4.3	4.5	11.2	13.7	16
4	2.29	2.3	3.4	6.3	6.7	8	14	18	4	1.92	2.36	4	3.5	4.5	9.4	10.3	14
5	2.03	3	4.3	4.1	6.4	7	7.5	17	5	1.58	2.83	4.3	3.8	5.5	9.3	8.4	15.6
6	1.32	2.9	5.8	4.1	6.8	11.2	15.4	13	6	1.78	1.5	5.5	3.5	8	6	10.7	15
7	1.45	2.3	5.3	3.3	8.5	13.2	28.3	14.2	7	1.4	1.66	4.2	4.8	10.4	8.3	8.6	16
8	1.18	3.5	5.3	4.1	4.2	5.3	9.3	17.1	8	2	3.33	3.3	4.6	5.3	8.3	11.6	12.5
9	1.34	3.2	3.2	8.7	4.2	5	8.2	14	9	1.65	2.56	5.5	5.2	6.3	11.3	6.4	17
10	1.53	2.25	4.1	4	5.2	11	5.6	16	10	1.04	5.43	4	4.4	4.3	9.3	7.2	15.6
11	1.54	2.2	4	6.5	4.7	7	15	14	11	0.9	1.64	4	4.1	4.3	8.5	6.5	11
12	2.24	2.57	3.8	4.3	4.3	6.3	5.7	16	12	1.4	2.46	3	4.2	8.3	12.3	19	14
13	1.63	2.75	4.5	8.7	6.5	6	11	13.2	13	0.87	2.67	4	6.2	7	10.5	17	20
14	1.28	3	5.3	4.2	5.3	5.3	13.5	12	14	1.2	2.83	3	4.2	5.3	5.8	25	21
15	1.41	2.19	5.2	5.7	4.3	10	20.5	10.4	15	1.68	2.23	3	5.6	5.2	7.6	10	11
16	1.46	2.7	4	6.5	6.7	5.2	5.6	16.9	16	1.53	1	3.3	5.3	4.2	6	10	15
17	1.4	4	4.2	5.6	4.3	10.3	14	12	17	1.88	3.19	3.5	5.1	5.8	8.3	6.5	5
18	1	2.2	3.1	4.5	6.5	10.4	7.5	12	18	1.35	1.15	3.2	3.4	7.3	9.5	7.8	21
19	1.6	2.8	5	3.2	7.8	7	10	13	19	0.25	2.23	3	4	5	10	6.8	23
20	1.57	2.24	3.2	3.8	6.2	6	10.5	14	20	1.08	2.86	3	3.2	4.1	12.3	7.5	15
21	1.12	2.3	4.5	10.7	7.5	9	11	9.4	21	1.29	3.46	3	3.7	6.4	12.3	7.2	11
22	1.4	2.9	6.5	6.5	4.3	5	8.4	18.4	22	1.14	3.35	3.4	5.6	6.7	5.6	16.3	11

23	1.3	2.4	5.1	4.2	5.1	8.3	7.3	12	23	1.82	1.06	4	4.2	5.3	10	16.4	12
24	1.2	3	4	3.4	4.2	4.3	6	22	24	1.5	3.47	3	5.4	5.2	9.3	9.3	10.6
25	1.2	3.5	3.8	3.6	6.2	6.3	9.3	20.1	25	1.69	2.38	3.5	4.2	4.6	6.3	7.2	13
26	0.56	3.4	5	4.6	5.7	10.3	6	17	26	0.97	2.26	3.8	5.3	5.3	9	7.3	25
27	1.5	3.2	5.5	4.5	5.8	9.3	10.2	10	27	1.7	2.6	3.7	5.5	5.4	5.5	15	10.5
28	1.1	1	4	4.2	5.3	7	10.3	11.4	28	1.93	1.67	4	5.4	5.5	12	9.2	15
29	1.7	2.5	3.2	3.8	5.6	5.3	8.3	13	29	1	2.3	4.5	7	6.7	9.3	5.6	13.2
30	1.25	2.2	4.4	6.8	4.4	10.3	8.3	12	30	1.1	1.68	4.6	4.2	6.7	8.3	7.8	11.1
31	1.61	6	4.6	4.3	3.7	4	8.2	14.2	31	1.03	2	3.5	3.7	7.5	8.5	8.3	18.8
32	0.94	2.03	4	7.5	4	6.3	8.8	15	32	1.14	2.47	3	4	9.6	5.5	8.6	14
33	1.42	2.98	5	5.4	4.1	10.5	7.6	12.3	33	0.56	1.78	3	4.2	4.5	5.4	8	15
34	1.33	2.68	4	4.3	4.8	12	9.4	12	34	0.53	1.34	4.7	3.8	7.2	6.4	7	9
35	1.03	3.44	3.5	4.1	4.5	6.5	10.4	16	35	0.76	1.7	4.4	3.7	5.3	10.2	9.3	9
36	1.08	2.21	4	4.2	4.5	9.3	9.3	11.7	36	0.75	3.06	3.9	4	5.2	7.3	8.6	12
37	1.68	1.95	3.4	4.2	3.8	6.3	18.3	17	37	1.5	2.5	3.7	4.7	9	6.5	8.2	13
38	1.15	2	3.8	7.2	4.2	8.2	13	16	38	0.65	1.22	5	3.7	6.3	5.3	8	17.8
39	1.45	3	4.3	6.5	7.2	7.5	12	19	39	1.16	2.25	4.8	3.7	6.2	10	7.5	15
40	1.05	2.4	3.4	4.5	5.3	7.5	10	18	40	1.15	1.4	3.8	3.8	10.3	7.3	8.2	10
41	0.93	6	3.3	5.5	10.2	7.2	10.2	17.2	41	1.4	2.19	3	3.8	4.3	6.5	7	15
42	1.3	2.45	3.7	6	6.8	7.3	10	13	42	1.29	1.5	3.6	4.1	5	9.3	9.2	17
43	1.28	1.2	3.8	4.5	6.5	5.8	13	9	43	0.25	1.32	3	4.3	5.3	8.4	10.2	12
44	0.94	1.8	3.4	4	4.6	6.5	10.4	13	44	1.5	2.3	4.8	4	5.4	10.6	10	12
45	1.27	2.3	3	3.1	5.5	6.4	9	14	45	1.3	2	3	5	4	5.7	10	12
46	1.45	1.8	4	4.2	4.6	9.4	12	16.2	46	1.3	3	4.1	6	5.3	8.1	9.1	14
47	1.2	2.4	4	4.5	7.3	7.7	13	17	47	2	2.3	4	4.9	4	7.2	11.2	8
48	1.7	2.8	3.7	6	5.3	8.8	8	12	48	1.68	2	4	5.5	4.6	6.5	10	8
49	1.7	2.5	4.1	3.9	6.7	6.6	10	12	49	1.59	1	3.7	6	5	5.7	14	12
50	1.61	1.5	4.2	3.8	4.5	5.3	9	10.1	50	0.98	2.3	3.8	7	5.8	8.3	15	12

Sampel	P3U1								Sampel	P3U2							
	Hari Ke-									Hari Ke-							
	1	5	10	15	20	25	30	35		1	5	10	15	20	25	30	35
1	1.8	2.18	4.8	6.4	16	13.5	24	15.4	1	1.3	2.27	5	5.8	14	17	13	20
2	2.2	2.36	4.2	3.6	6.7	6.3	13	24	2	1.26	3.5	3.4	3.4	7	11.3	10	21
3	1.2	3.05	3.2	6.8	5.3	10.2	13	30.2	3	0.89	2	8	4.2	7.3	14.5	10.3	15.4
4	1.35	2.69	3	6.2	7.3	12.2	10.3	31	4	1.15	3.8	4.2	6.3	4.3	8.3	12.5	14.5
5	1.25	3.2	4.2	6.3	10.3	10.5	14.3	26.3	5	1	3	4.4	4.65	8.4	9	15.3	19.3
6	1.9	3	3.5	5.4	8.2	10.3	10.3	14.5	6	0.97	3.8	3	4.3	6.8	10.3	13.4	11.2
7	1.13	1.85	3.5	6.2	6.3	10.4	12.2	10.2	7	1.7	3.4	3.2	5.3	5.8	9.3	8.4	25
8	1.9	3.4	3.3	4.2	3.8	9	14.2	10	8	1.9	3.2	4.3	7.6	10.5	16.3	8.3	19
9	1.4	3.42	4	5.3	5.4	12.3	8.3	12.3	9	1.7	2.5	8	4.2	3.8	8	7.8	29

10	1.39	2.17	4.2	5.3	4.4	10.3	17	12	10	1.8	3.4	4.12	6.4	5.8	10.3	15	16.5
11	1.6	2.2	3.5	4.4	4.8	8.5	14	11.2	11	0.79	2.46	4.5	6.5	5.7	7.5	7	11
12	1.9	3.45	8	5.8	5.3	9.3	12.3	16	12	1.3	2.45	4.2	4.1	5.8	10.3	10	10.3
13	1.45	3.4	4	5.4	5.4	8.3	15.2	22	13	1.2	2.27	3.45	4.5	6.5	8.5	15	9.6
14	1.56	2.04	6.6	4.4	6.8	10.3	12.4	16.2	14	1	2.8	3	6.5	8.3	12.3	8.3	8.7
15	1.28	2	3.2	5.32	6.8	13.4	10.3	15.3	15	1.9	2.93	4	5.8	5.5	9	6.6	11
16	1.22	3	5.6	4.4	4.8	8	10	12.5	16	1.8	1.92	5	5.7	9.5	11.3	9.3	9.5
17	2.11	3	5.5	6.5	5.3	7.5	9	13.2	17	1.9	2.04	4	3.7	9.6	5.3	10.3	14
18	1.02	4.2	9.6	6.6	4.8	10.3	9.6	13.4	18	1.5	2	4.4	4.2	4.8	10.3	9.2	12
19	1.25	3	4.2	5.3	5.3	8.8	8.9	12.3	19	0.98	3	3.8	4.5	6.5	8.5	6	20.3
20	1.73	4.5	3	5.3	5	8.3	9	13	20	0.79	2.1	4.8	4.4	7.3	15.2	18	12.4
21	1.44	2	4	4.4	4.8	7.8	17	10	21	0.97	2.1	5.3	6.5	4.8	4.5	12.6	9.7
22	1.4	3.5	4.2	4.2	5.3	10	16.5	12.3	22	0.9	1.5	3.8	5.3	4.2	8.6	12.7	13
23	1.5	1.17	4.2	4.13	4.4	10.4	13	15.7	23	0.98	1.4	3.5	5.6	4.8	7.3	10.3	11.3
24	1.8	3.11	6.2	6.5	4.5	10.5	14.4	16.4	24	1.7	4.7	3.9	5	8.5	7.5	9.2	12
25	2.7	3.3	8.1	4.52	4	9	9.6	20.5	25	2	4.5	4	6.5	5.6	7.4	10.4	16
26	2.6	1.2	8.3	4.7	4.8	7.5	20	18	26	1.9	3	4	5	12	16.3	11.3	13.2
27	1.23	3.3	3.45	4.2	4	10.2	6	17.3	27	1.8	4	4	5.6	4.8	8.3	11.2	10.5
28	1.09	2	8	4.8	5	8.3	12	16	28	2	3.8	4.21	5.4	9	8.3	11.4	19.6
29	1.44	3.7	8.1	4.1	5	13.2	18.9	15	29	2	4.1	4	5.3	14.5	10.2	7.3	23
30	1.56	4.5	3.65	7.5	4.3	10.3	12.5	12	30	2.1	4	5.5	4.3	7.5	10.2	9	11.5
31	1.1	3.2	4	5.3	11	6.2	7.6	17.3	31	1	2	4	3.8	6.5	14.3	9.3	12.4
32	1	1.98	4.3	3.5	10.5	8	7.8	10.3	32	1	3.1	4.11	3.9	7.5	6.5	8.7	12
33	1.25	2.13	4	5.4	8.6	6.3	5.9	12	33	2.1	3.5	3	5.1	6.5	6.5	7.5	15.6
34	1.33	3.3	3.5	5.7	6.5	12	7.8	11.1	34	2	3	4	3.6	6.8	7.8	7.6	12.8
35	1.2	3.3	3.3	4.8	4.7	8	8.3	11.3	35	1.98	3	3	4	4.8	8.8	15	15.4
36	1.67	2.2	3.3	4.12	6.5	12	12	18.2	36	1.77	3.4	4	4.5	4.9	9	10.4	10.3
37	0.9	4.3	5.5	4.3	7.3	7.5	7.8	17.4	37	1.78	1.2	3.89	5.3	5.8	8.1	12.5	13.4
38	1.47	2.2	7.2	5.8	5.3	10.2	10.4	14.3	38	1.98	3.8	3.45	4.3	7.3	7.9	11	15
39	2.75	3	6.3	3.9	6.3	9.5	12.3	12.6	39	0.87	3	4.1	4.4	5.8	7.3	10.5	11.5
40	1.45	3.2	8	4.8	6.7	8.7	11	15	40	0.96	3	4.2	3.9	5.6	6.5	12	9.3
41	1.21	2.3	4	4.7	6.2	9.3	9.2	10.3	41	0.99	2.1	4	4.2	4.4	6.9	10	13
42	1.1	2	6	6.3	4.2	8.2	8.3	13.4	42	0.88	2.3	4.3	3.9	5.6	7.4	11.3	23.4
43	0.8	3	5.5	3.9	3.9	7.9	10.2	11.3	43	0.78	2.5	4.2	4	7.5	7.3	12	11.2
44	2.3	3.4	4	4.5	4.1	8.3	12	13.4	44	0.57	3.4	4.1	3.8	8.6	9	9.4	13
45	1.63	1.59	5	6.12	5.7	7.3	16	14	45	0.97	3	7	3.6	6.8	8.8	7.9	12.5
46	1	2.1	4.3	4.3	3.8	9	13	10	46	1.9	4.8	5	5.2	5	6.6	8.5	25.3
47	1.25	3	4.2	5.34	4	10	8.8	10.4	47	1	5	5.9	4.2	6	6.7	6.8	19.3
48	1	3	4.1	7.2	4.8	9.3	7.9	11.2	48	1.76	4.3	5.8	6	5.6	5.8	11	14.2
49	2.14	2.9	3.2	6.7	5	8.7	10	25	49	2	4.2	6	4.2	5.4	8	10.3	12.5
50	2.9	2.8	3.8	7	5.2	8.6	9	13.6	50	2	1.9	7	3	4	9	10.3	17.3

Sampel	P4U1								Sampel	P4U2							
	Hari Ke-									Hari Ke-							
	1	5	10	15	20	25	30	35		1	5	10	15	20	25	30	35
1	0.87	3.2	5.4	6.8	5.4	7.8	14.2	11	1	1	3	7	4.6	6.5	9.5	12.3	13.4
2	0.78	2.8	4.1	6.7	4.1	10	18.2	18.2	2	1.2	2.67	5.6	8.4	4.6	9.3	10.2	12.4
3	1.23	3	6.7	6.7	6.7	10.3	9.5	16.8	3	1.3	2.3	5.3	8.3	5.4	6.9	9.7	16.3
4	1.2	3.5	6.1	6.1	7.7	6.2	24.3	20.4	4	0.38	2.5	5.32	7.3	5.1	10.4	9	11
5	1.3	3.2	6	8	6.1	16.16	13.3	13.3	5	0.98	2.3	6.34	5.6	7.1	8.3	10.3	18.4
6	0.83	3.2	4	5.7	5.6	6.3	14	23.4	6	1	3.54	4.98	7.3	4.6	7.9	11.2	23.4
7	0.81	4.2	4	4.5	7.3	10	21	11.2	7	1	3.2	4.06	4.7	6	7.89	20.3	20.4
8	0.56	2.4	4.1	6.7	8.9	5.3	8.9	13.4	8	0.98	3.02	5	5.7	10	8.04	8.9	18.2
9	0.65	3.32	7.3	7.3	9.1	9.3	13.9	20.6	9	0.38	2.32	6.3	5	7.3	10.5	17.3	12
10	0.4	3.3	7.7	6	6	14.4	11.3	16.3	10	0.78	3.4	4.3	6.7	6.1	8.6	10.9	10.3
11	1.7	5.2	6.1	6.7	11.2	14	10.2	26.3	11	0.9	4	5.2	5.4	4.4	12.3	8.3	14
12	1.8	4.3	5.6	5	5	12.3	9.7	15.2	12	0.95	2.5	3.5	5.2	4.2	10.2	14.2	15
13	0.78	4.2	6.5	6.4	9.5	10	11	15.6	13	0.68	3.2	4.7	6.2	7.9	9	16	14.2
14	0.9	2.45	6	4.5	5.2	11	10.3	14.3	14	1.3	2.6	3.8	7	11.9	11.2	17.2	12.4
15	0.81	3.4	5.1	5.2	4.3	6.3	17.4	12.3	15	1.3	2.3	5.5	7.3	7.9	10.3	11.2	15.3
16	0.5	6.3	5.2	6	8.8	7.2	16.3	17.2	16	1.5	2.5	5.2	5	7.2	10.8	15.3	17.3
17	1.2	3.4	6.2	7	7.4	8.4	7.8	23.4	17	1.8	2.3	4.35	6.2	10.8	9.54	10.6	12
18	1	3.4	4.5	6.8	8.2	8.8	11.1	17.2	18	1.3	3.5	7.12	4.8	6.5	8.3	11.7	11
19	1.3	3.5	5.2	6.2	5.5	7.1	10.4	13.2	19	1	2.6	3.6	4.8	4.7	8.77	11	11.5
20	1.28	3.2	5.1	5.2	6.5	13	10.5	12.3	20	0.68	2.3	4.2	6.4	5.6	8.8	12	12.3
21	1.3	4.6	6	6.73	8.8	6.6	9.3	10.9	21	1	2.4	5.34	4.62	7.9	9.4	10.8	11
22	1.3	2.3	6.4	6.4	9.4	10.8	9.3	24.3	22	0.79	3	4	6.34	7.5	10.4	9.8	16.3
23	0.7	2.23	4.8	7.3	8.2	9.3	16	20.1	23	1.2	2	5.2	6.7	6	7.4	10	18
24	0.8	5.2	5.1	5.6	6.5	10	13	15.3	24	0.38	2	6.12	8.2	6.3	11.5	22.3	13.8
25	0.9	2.4	4.5	6.2	5.2	7.3	10.4	16	25	0.98	2.4	4.3	6.3	9.7	11.6	8.7	15.2
26	1.3	4	6	6.4	8.8	7	10.5	13.2	26	0.98	3.2	4.13	8	8.1	8.4	10	14.5
27	1.5	3.2	3.4	5.6	7	7.8	11.2	11.3	27	0.68	3.2	3.2	5.6	7.5	9.6	11.5	11.2
28	0.78	3.6	5.2	4.8	9.7	6.4	17.6	17.4	28	0.77	2.4	3.8	7.2	5.6	7.7	14.6	14.2
29	1	2.3	5.3	7.3	10.7	6.3	13.2	9.4	29	0.73	2.3	4.7	6.2	6.3	7.8	8.4	19.4
30	1.25	3.1	4.5	5.8	8.2	9.9	14.4	10.3	30	1.98	2	4	5.2	5.6	10.6	10.4	12.2
31	0.81	3.2	5.2	6.34	6	8.9	12.4	11.2	31	0.45	3.4	5.1	7.2	9	10.4	13.5	16.3
32	1.2	2.7	6.1	6.21	8.4	8.8	17	18.2	32	0.47	4.2	3.87	5.3	8.7	8.5	8.3	15.3
33	1.5	4	2.5	5.2	10	13	11.8	15	33	0.38	4	3.8	6	6.5	7.4	8.6	13.4
34	1.3	4.2	8.8	5.7	7.9	13.2	16.7	30	34	0.9	2.5	3.65	9.2	6.2	9.4	9	17.3
35	1.2	2.5	4.5	6	6.4	11.2	19.3	16.2	35	0.6	3.08	4.2	6.2	5.8	11.3	12.6	12.3
36	0.65	4	6.3	5	5.6	8.8	12.2	15.3	36	1.2	1	4.8	6.3	9	11.2	8.6	13.2
37	0.75	3	7.9	7.2	8.7	5.6	9.3	12.3	37	1.2	2.1	5	5.43	6.3	9.3	13.4	17.3
38	0.71	4.21	6.3	4.8	9.3	8.2	9.67	16.2	38	1	2.04	5	7.23	13.4	9	12	11.2
39	0.8	2.4	5.4	4	6.5	6.2	10.3	20.4	39	2	1.82	4.3	6	12.5	8.6	9.6	16.2
40	1.23	2.7	4.6	5.3	7.8	6	8.5	18	40	0.9	2.87	3.5	7	10	9.12	10.2	15.3

41	0.73	2.24	5.2	6.7	4.5	13	13.2	17.3	41	0.67	2.78	3.7	4.5	7.2	9.45	9.3	19.3
42	1.2	2.34	5.4	4.5	5.1	18	11.7	11	42	0.66	2	7.1	4.7	6.2	9.5	10.5	14.2
43	2	3.2	4	5.3	4.1	10.4	12.3	12.3	43	0.73	2.3	6.2	7.4	5.6	16.2	11.5	17
44	1	3	5	5.6	6.7	5.7	19	11.7	44	1	3	3.45	5.6	6.3	18.4	10	25.2
45	0.87	2.7	6.2	8.3	4.8	6.7	11.4	13.2	45	1.2	3	3.6	6.23	7.3	7.8	9.3	16.7
46	0.56	2.3	4.2	7.8	6.7	8	10.4	16.2	46	1	1.98	3.45	6.8	10.2	9.4	13.2	14
47	0.73	3.4	3	8	12.3	6.5	9.8	14.2	47	1	2.78	4.5	6.6	5.3	10.2	11	23.1
48	0.82	2.5	5.2	6.2	8.2	11.2	14.2	13.2	48	0.78	2.58	5	4.78	6.2	15.6	12.6	11.5
49	0.54	3.2	4.7	4.5	10.2	8	13	14.2	49	0.54	3.21	5.2	7.2	6	9.3	9.3	14.2
50	0.43	2.3	5.5	6.3	9.4	8.3	12.2	16.7	50	1.8	2.83	6.2	5.5	7.2	13.5	11.6	18.3

### Lampiran 2. Rata-rata bobot Ikan Lele

Perlakuan	Ulangan	Hari ke-							
		1	5	10	15	20	25	30	35
P1	1	0.98	2.55	4.15	4.92	5.62	7.81	9.32	12.99
	2	1.00	2.49	3.87	4.78	5.46	8.24	10.27	11.70
	Rata-Rata	0.99	2.52	4.01	4.85	5.54	8.03	16.53	12.35
P2	1	1.94	2.79	4.22	5.07	5.54	8.11	10.42	14.31
	2	1.28	2.25	3.97	4.78	5.92	8.34	10.07	13.95
	Rata-Rata	1.61	2.52	4.09	4.92	5.73	8.22	10.25	14.13
P3	1	1.54	2.82	4.86	5.24	8.85	9.40	11.65	15.13
	2	1.43	3.01	4.44	4.83	6.79	9.19	10.42	14.78
	Rata-Rata	1.48	2.91	4.65	5.03	7.82	9.29	11.04	14.95
P4	1	1.00	3.29	5.36	6.09	7.39	9.22	12.85	15.85
	2	0.97	2.69	4.76	6.23	7.18	9.89	11.56	15.16
	Rata-Rata	1.24	2.99	5.01	6.16	7.29	9.55	12.21	15.51

### Lampiran 3. Data Pertumbuhan Panjang Ikan Lele

sampel	PIU1								Sampel	PIU2							
	Hari Ke-									Hari Ke-							
	1	5	10	15	20	25	30	35		1	5	10	15	20	25	30	35
1	3.2	4.5	6.5	6	8.2	7.6	11.2	11	1	4.2	6.5	5.2	5.6	9	6.5	11.4	10.4
2	3.7	4.6	6	6.3	7.6	8	8.9	12	2	4.7	4.3	5.6	7.6	8.4	13	8.9	11.2
3	4	5.6	5.3	8	7.5	9	12.3	9	3	3.7	5.2	6.2	9.2	6	11	8.6	12
4	3.6	5.8	4.7	7.6	10	10.3	8	14.3	4	3.8	4.7	4	7	9	9.3	11	12
5	3.6	6	7	6.3	8.8	9.3	11.3	11	5	3.6	5	3.8	9.2	7.8	11	10.2	10
6	3.7	6.2	4.5	6.7	8.5	9.5	9.8	12.5	6	5	4.6	6	8.2	8	6.7	11.2	11
7	4.1	4.7	7.2	5.4	8	10	9.4	10	7	4.7	5.7	5.7	7.6	9.3	8	12.3	10.2

8	4	4.6	6.4	6	8	8	8.3	12.5	8	4.2	5.3	6	6.3	9.2	6.3	8.2	11.2
9	3.1	5.7	6.7	6.5	9.1	9.3	10.3	10	9	4.3	5	7	6.5	8.3	11.4	11.2	12
10	3.7	5.6	7.4	6.7	7.5	11.1	10.4	12	10	3.6	6	5.2	6.5	8	11.3	9	13
11	5	5.8	6.2	5	7.4	10	11.2	10	11	4.1	6.4	5.4	8.2	7.6	10	10	11.2
12	4.2	6	6.3	7.2	9	11.2	9.3	10.3	12	4.2	4.8	7	7.3	6.6	9.1	8.6	10.2
13	4.3	5.3	4.7	7	7.8	10.3	10.4	15.3	13	4.2	5	6	7.2	8.4	10	9.8	11.5
14	4.8	7	8.3	8.2	8.3	8.8	12.3	9.2	14	4.1	6.5	7.3	8	8.5	11.3	10	12.5
15	3.2	7.5	5.7	7.2	8.1	8	12.3	10	15	3.8	6.3	6	9.2	7.9	13	11.2	15.3
16	3.7	7.4	6	8.4	11	9.8	8	12	16	3.9	4.8	5.7	7.6	9.3	12	11	12.4
17	3.4	5.8	4.3	7.6	8.3	12	8	11.2	17	3.8	5.3	8	7	8.4	7	9	13.4
18	5	5.6	5.2	6.7	8.1	12	9.3	11	18	3.5	6	5.6	8.3	8.2	7.2	9	10.4
19	4.1	6.6	4.3	9	8.3	9.3	11.2	11	19	3.2	5.6	9	6.4	10.2	12	10	11.2
20	3.7	6.7	4.6	8.7	8.5	8.5	11.5	10	20	4.8	4.6	7.2	7.3	8.3	8.3	8.5	11
21	4.2	6	6.5	7.4	7.8	7.8	12.4	12.3	21	3.7	6.3	6.5	7.6	7.6	9	12.3	11.4
22	4.1	6	5.4	6.5	9.3	10.4	10.2	10	22	4	6.2	6	6	9	10.2	15.2	12.7
23	5	5	6.2	6	8.3	9.8	10.2	13.4	23	3.6	4.6	7	6.3	8.6	9.3	13	11.3
24	4.3	5.8	10	5.6	7.6	12	10	15.2	24	3.5	5.3	6.5	5.3	8.5	6.7	12	14.2
25	3.5	4.3	6.7	8.3	6.7	11.5	10	15	25	3.7	5.8	5.3	6.2	9	9	7	10
26	3.6	4.7	8	7.3	7	10	9.2	9	26	3.8	4.8	5	8	7.6	10.2	9	10.5
27	3.5	4.5	6.4	8.2	8.4	7.8	8	10.8	27	3.9	5.6	4	7.3	8	12.3	13	13.2
28	4.7	4.3	5.4	9	9	6.5	9.1	11.3	28	3.8	7.3	5	6.5	9.5	10	12.3	11
29	4.2	5	6	8	8.3	8	11	12.3	29	4.1	7.4	5.3	6.4	7.8	9	10	10
30	3.6	6.5	5.2	6.7	7.8	9	11.2	8.9	30	4.2	6	5	6.5	9.5	6.3	9.2	10.4
31	3.8	6.4	7.2	6.3	8.3	8.7	7.3	10	31	4.1	5.7	6.4	7.2	8.7	6.3	7	12
32	3.7	4.8	6.7	6.7	9	9	12.2	12	32	3	4.6	6.1	6.2	9.3	9	10	10
33	3.5	4.7	5.3	8.3	10	8	10.2	16	33	3.6	5.3	6.4	9	8.6	10	13.2	13.2
34	5.1	6	4.6	6.7	11	10.4	12	10	34	4	6.3	6.4	6.5	9	11	9	12.4
35	3.5	5.5	5	7.3	10.2	9	10	11	35	4.2	5.3	5.3	8	9	9.2	10	12
36	3.4	6.2	4	7	7.2	7.4	12.3	19	36	3.9	6.4	6	8.4	7.6	9	14.2	10
37	4.3	6.4	5.3	8.5	6.7	8	11	10.3	37	3.4	5.4	5.4	7.3	8.9	11.2	11	11
38	3.7	5.4	4.7	7.8	9	8	10	12.3	38	3.5	7	6	8.4	9	12.3	10	10
39	4.1	5.4	4.5	6.8	8.1	8.4	9	10.3	39	3.4	6.3	7	6.7	8.5	10	8	11.3
40	4.3	6.8	4.2	7.3	9	12	11.2	15.6	40	3.6	5.4	8	8.3	9.4	7	7	13.2
41	3.4	7.4	7	8	8.3	7.6	11	12.3	41	3.7	5	5	8.2	8	13	8.7	10.4
42	3.4	5.5	5	6.7	7.8	8.9	9.3	11	42	3.8	6	5.3	8	8.5	7.2	8	10.5
43	4.1	6.5	4.6	8.2	9.3	8	9.8	10	43	3.2	5.3	5.4	8.2	10.4	11.2	10	12.3
44	4.2	7.3	4.2	9	8.2	9.8	13.2	9.7	44	3.6	5.6	5.3	6.7	8.8	8	8	11
45	3.8	5.7	7.2	7.8	9.3	7.8	12	11	45	3.5	6.3	6	5.8	9.2	6	9	13
46	4	5.3	6.2	9	7.9	10	10	11.2	46	3	5.6	5	6.4	8.7	5.7	10	12.1
47	4.2	6.5	5.6	6.4	7	10	10	10.4	47	3.6	4.6	4.5	9	9	7	9	11.2
48	3.8	6.9	5.2	6.7	9	6	10.2	12	48	3.3	6.2	5.4	8.2	9.5	7.1	10	10

<b>49</b>	3.1	4.6	4	8.7	10.2	7.8	7.6	10.2	<b>49</b>	4.1	5.6	6	8	8.7	8	11.2	12.3
<b>50</b>	4.1	7.2	9.2	6.5	8.4	8	9.2	11.2	<b>50</b>	3.6	6.3	9	7.8	9.2	8.3	11	14.3

sampel	P2U1								sampel	P2U2							
	Hari Ke-									Hari Ke-							
	1	5	10	15	20	25	30	35		1	5	10	15	20	25	30	35
<b>1</b>	3.8	7	8.9	8.4	7.8	14	9.2	13	<b>1</b>	4.4	5.3	9.2	7	8.4	11.2	10.6	11.3
<b>2</b>	3.4	5.5	7.5	7.3	8.5	10.3	8.5	11	<b>2</b>	4.1	6	9.5	8.4	7.8	8.5	11	15.3
<b>3</b>	4	9	7.5	8.3	10.4	10.2	8	10	<b>3</b>	3.8	6.5	7	8	7.2	10.5	12.2	12
<b>4</b>	4	5	7	9.4	7.2	11	12	13.6	<b>4</b>	3.9	6	7	7.8	7.8	10	10.5	11.4
<b>5</b>	4.2	6.5	7	7.5	6.5	12	9.3	12.5	<b>5</b>	5	5.5	8	8.1	8.6	9.7	10.5	12.5
<b>6</b>	3.6	5	8.3	8.1	9.1	10.5	13	11	<b>6</b>	4.1	5	8.5	8	7.8	8.3	11	12.3
<b>7</b>	4	5	8.2	8	10.5	11.2	14.2	11.5	<b>7</b>	4.2	5	7.9	8.2	11	9	10.5	14
<b>8</b>	3.5	6.7	8.2	8	8.3	8	10	14.5	<b>8</b>	4	7.1	6.5	8.6	9	8.7	11.2	11
<b>9</b>	3.5	6.5	6	10.5	8	7.9	9	13.2	<b>9</b>	4	6.5	8.5	9	9.5	11.5	9	13
<b>10</b>	4.2	5.5	7.9	6.5	8.9	10.2	8.8	13.2	<b>10</b>	4	8.3	7.5	8	8	9	8	13
<b>11</b>	4	6	6	9.1	7	8.3	12	11.5	<b>11</b>	4.4	5.5	8	8.2	8.8	10.5	9	9
<b>12</b>	4	6.5	7	8.5	6.5	8	9	14.3	<b>12</b>	4.5	6.4	7	8.7	10.3	11.7	13	11
<b>13</b>	4.6	5.5	6.9	10.5	7.9	7.8	10.6	12.4	<b>13</b>	4	6.3	8.5	9	8.2	10.3	12	13
<b>14</b>	4.5	5	8	8.5	6.5	8	12.3	10.2	<b>14</b>	4	6.6	7	8	8.9	7.8	16.3	13
<b>15</b>	3.8	6	7.5	8.5	7.9	10	12.5	12.4	<b>15</b>	3.6	6.4	6.5	9.3	8.6	8.5	10.5	10.4
<b>16</b>	4.5	6.5	7	8	8.3	7.9	8	14	<b>16</b>	4.1	4.8	7.2	8	8.5	8	10.6	11
<b>17</b>	3.9	7.5	8	8.5	7.8	11	12	10	<b>17</b>	3.9	6.5	7	8.2	8.7	9.3	9	9
<b>18</b>	4.2	6	7	7	9.5	12	8.8	12	<b>18</b>	3.8	5	6	6.5	10.2	11	11	15
<b>19</b>	4.3	5.7	7	7.5	9.8	11	11	12.3	<b>19</b>	4.1	6.5	7.5	7	7.6	12	10.5	14
<b>20</b>	4	6	7	8.1	9.4	10.5	11	12.4	<b>20</b>	4.8	6.2	6.2	7	8.4	10.4	9	11
<b>21</b>	3.4	5	6	11.2	9.7	10	10.5	11.2	<b>21</b>	4.5	5.6	6.8	7.8	9.3	11.3	9.3	10.5
<b>22</b>	3.6	6.5	9.2	9.5	8	8.2	10	13.2	<b>22</b>	4	6.9	8	8.6	8.2	8.3	13	11
<b>23</b>	3.4	6	8.3	7.8	7.8	9	8	10	<b>23</b>	4.1	5	7	7.5	9	9.3	12	12
<b>24</b>	4.6	7	7	8.1	8.1	8	8.3	16	<b>24</b>	3.9	6.6	7	8.6	8.5	8.8	10.2	10
<b>25</b>	4.7	7	6.5	7.6	8.6	8.3	10	14.5	<b>25</b>	3.8	6.5	6.5	8.1	8	8.5	9.3	11
<b>26</b>	4	6.5	6.8	6.9	8.4	8.9	8.8	14	<b>26</b>	3.7	5.8	6.3	8	9.5	9.5	8.3	18.5
<b>27</b>	4	6	8	7.6	9	10	10	11.5	<b>27</b>	4.2	5.6	5.8	8.5	9	8.5	11.2	11
<b>28</b>	3.9	5	7	8	9	9	10	12	<b>28</b>	4.3	5.7	5.9	9.3	10	11	10.4	12
<b>29</b>	4.1	6	7.2	8	8.7	8	9.3	11	<b>29</b>	4.7	6.1	5.3	8.9	8.3	10.3	8	11.5
<b>30</b>	4.2	5.5	8.4	10	9	10.3	10	11.4	<b>30</b>	4.8	5.5	5.7	7.9	8.2	9	9.3	10
<b>31</b>	4	5.9	8.3	7.8	8.2	8	8.3	12	<b>31</b>	4.8	5.7	6.8	7.5	9.2	9.5	8.2	14
<b>32</b>	3.5	5	7	9.8	8.3	8.8	8.8	12.3	<b>32</b>	4.1	6.4	6.4	8	11.5	8	8.5	12
<b>33</b>	3.6	6.5	6.5	9	8.2	9	9.1	12	<b>33</b>	4.2	5.8	6.2	7.8	9.3	8.2	9	10



34	4	5	7.1	8	8.5	10.3	10	11.4	34	4.2	5	6.3	8	9.6	8	10.3	10.4
35	3	4.5	7	8.5	8.2	8.9	10.3	12	35	4.3	5.8	8	7	9	10.3	8.8	10
36	4.1	6	7	8	8	10	10.3	11.6	36	5	6.7	7.5	7.3	9.2	8	9	11
37	4.5	4.5	7	8	7.8	8.3	12.2	14.3	37	5	6.1	6	7.9	10.5	8.3	9.3	11
38	4.7	6	7.1	9.5	8.2	8.5	11.2	13.4	38	4.1	5.8	6	8.5	9.6	8	9.2	13.5
39	4.8	5	7.2	8.5	9	8.8	11	12.2	39	3.9	6.2	6.3	7	8.5	9	9.2	10.4
40	4	4.5	7.2	8	9.1	9.1	10.5	14.3	40	3.9	6	6.2	8.5	12.8	9	8.8	11
41	3.6	6	6.5	8.5	11	9.2	11.2	14.2	41	4.1	5.8	7	7.1	8.9	10.3	9.2	12
42	3.7	5	6.4	8	8.5	10	10.3	13.2	42	4.5	5	7.1	8	8.3	9.4	8.8	13.2
43	4.5	5	6.3	9.7	9.3	9.3	12	9.5	43	4.7	4.8	7.2	8.1	8.9	11	11.3	11
44	3.8	6	6.1	7.1	8.3	8.2	9.3	10	44	4	5.5	6.3	7.9	8.4	10	10.5	10.4
45	4.5	5	6.5	6.5	9.3	8.5	10.3	12	45	3.6	5.6	6.9	7	8	9.9	10.4	11.3
46	4.7	5.5	6.8	8	8.3	9.2	10.4	14.4	46	4.1	6	7	8	9	8	10.2	12.2
47	4.6	6	7.8	8.5	10	9.7	11.3	12.5	47	3.8	5	6.5	7	8.3	9.6	11.2	10
48	3.9	6	7.3	8.8	9.1	8.8	12	14	48	3.9	5.4	6.7	8	8.5	9.3	12.3	10.5
49	4.1	6	6	7	9	9.5	9.3	13	49	4.7	4.5	6.8	7.5	8.2	8.8	12.1	11
50	4.2	6	6.2	8	8.2	8.5	9	12.3	50	4.8	5.5	6.7	7	8.3	8.7	13.2	10

Sampel	P3U1								Sampel	P3U1							
	Hari Ke-									Hari Ke-							
	1	5	10	15	20	25	30	35		1	5	10	15	20	25	30	35
1	2.4	6	7.5	8	13	11	13	12	1	4.3	6.8	7	8.7	13	11.5	11	14.5
2	4.1	6.5	8	9	9.5	8	11	13.2	2	3.8	7	7	7.9	10	10.2	10.6	14
3	4.3	7	7.2	6.8	9.3	10.6	11.3	16.3	3	3.7	5	9.3	7.3	10	12	10.4	12.4
4	5	5.6	6	9	9.6	11.3	10.1	16.2	4	4.2	6.6	8	9.4	9.1	8.3	11.2	12
5	5.1	5.82	7.5	9.5	10.3	10.4	10.2	17.8	5	4.2	6	8	8.6	9.5	8.5	12	12.6
6	4.6	5	7	8.7	10.3	10	10.3	11	6	4.8	7	6	8	9.5	10	11	10.4
7	3.8	5.8	8	9	9.5	10.2	11	10	7	4.3	6	6.5	8.3	11	8.8	9.3	12.3
8	3.8	5.3	7	10	8	9	9.2	11.3	8	4.7	6	7	9.8	7.5	12.1	9.4	13.4
9	3.7	7.3	7	7.5	10	8.5	10.3	10	9	5	5.6	9	8.4	9.5	8.2	10.2	15
10	3.9	5.2	8.3	7.9	9	10	12	15	10	4.1	7	8	9.3	8.7	9	11.3	12.5
11	4.9	5.8	7	8.8	8.3	9.2	8.7	10	11	4.8	5.6	6	9.5	8.8	9	9.3	11
12	4.8	5.6	10	8.4	8	9.4	11	12	12	5	5.6	7	7.4	9	10.2	10.3	11.3
13	5	6.7	7.8	9	8.3	8.3	11.5	15.4	13	4.7	5	7	8.4	9.6	9	11	10
14	5	5.4	9	8.8	9	10.5	9.2	13.4	14	4.1	5.6	7	9.3	9.7	10.8	9.3	10.6
15	4	6.4	8	8.7	9.3	11	9.3	12	15	4.7	7	7.8	9.5	9.4	8.9	10.2	11.7
16	4	6.3	8.6	7.7	8	8.5	10	11	16	4.8	5	7.9	8.9	11.5	12	8.8	10
17	4.3	6.4	8	8.5	9.3	9	9.3	10	17	4.2	6	8	8.1	11	7.3	10	11.5

18	4.2	7.3	8	9.3	8.3	8	8.7	10	18	5	5.5	8.5	7.9	9.3	10.5	9.2	10
19	4.1	7	8	9	9	9	9.3	10.5	19	5	6.4	7.2	7	9.8	9.3	9.3	14
20	4	5.6	6.8	8	9.3	9	9.3	11.2	20	3.9	5	7.5	8	9.7	13	13	11
21	4.7	5.6	7	8.3	9	7.8	12	10	21	4.8	5.3	9	9.3	8.3	7.8	10.2	10.4
22	4.6	5.3	6.8	8.9	9	10.2	12.4	11.5	22	4.2	5	7.2	7	8	9.5	11.2	25
23	4.2	4	7.1	7	9	8	11	13	23	4	5	7	9.2	8	8.3	9.3	10
24	4.3	6.6	8.7	7.6	8.3	8.5	12.3	12.3	24	5	4	7.2	9.2	10.2	10.5	9.5	18.3
25	4	5.4	9.3	9.5	8.3	8.3	10.2	16.3	25	5	7	7.3	9	9.3	8.3	10.3	12
26	4	6	9.3	7	8.8	8.5	13	14	26	4	7.3	7.5	8.9	11	12.3	10.2	11.2
27	3.8	5.4	6	7.2	8	8.3	8	13.2	27	3.6	5.5	8	8.7	8.8	8	10.5	10.3
28	3.9	6.2	9.3	8.3	9	9.3	10.3	12.4	28	3.8	7	8	8.3	10	9.2	10.3	12
29	3.9	6.5	6	9	8.4	11	14	13	29	3.9	6	7.5	8.7	10.6	11	9.2	15
30	3.9	6.8	7.3	9.6	8.3	10.3	9.3	10	30	4.3	7	8	8.6	8.5	10.5	9	10.2
31	3.9	7	8.5	10	10.5	8	9	13.5	31	4.4	6	6.6	7.7	9.5	12	8.8	10.2
32	5	6.3	8.5	9	11	9.3	9	11	32	4.6	6.2	7.1	7.5	10	8	10	10
33	5	6.2	7.8	8	10.8	8.3	8.3	10.3	33	4.5	5.8	6	8	10	9.2	9.2	12.3
34	3	4	6	8.7	9.7	11.5	9.5	11	34	4	5	7	7.9	10	9.3	9.3	10.4
35	3.7	5	6	8.5	8.3	9	9.2	10.4	35	4.7	6.5	6.5	7.5	8.4	10.2	11.2	9.8
36	4.1	5.3	8.3	8.1	9	11	10.3	14.5	36	4.6	5.8	6.5	7.9	8.8	8.8	10.6	11
37	4.8	7	7.5	7.6	9.4	8.5	9.2	13.5	37	4.9	5.5	6	8.6	8.7	10.1	10.4	11.2
38	4.9	6	6	7.8	9.3	10.3	10.2	11.5	38	5	5.4	6	9.5	8.6	8.8	10.5	11
39	4.1	6.4	8.6	9.3	9.6	11	11.2	10.4	39	3.9	5.4	7	8	9.3	9	10.3	10
40	4.2	6	8.6	7.3	10	8.8	9.2	13.2	40	3.8	5.2	7.1	7.8	8.3	8	10.4	12.3
41	4.2	5.3	6.9	8.1	9.5	8.8	11	10	41	4.6	6.4	7	8	7.7	8.3	12	11
42	4.7	5.6	2.5	8	8.4	8.7	9	12	42	3.9	5.3	7.2	7.5	9	10	9.3	11.6
43	4	5	7.1	7.5	8	9.6	10	10.3	43	4.1	6	7.1	7.6	9.5	9	11.4	11
44	4	6	7.2	7.9	8.5	9.4	8.4	10.4	44	3.9	5	7	7.5	10	10.3	10.6	10.2
45	4	5.3	6.8	8	8.7	10.3	13	12.2	45	5	4.6	6	7.7	9.6	11	9	11
46	5	5.3	7.8	7.5	8.3	9	9.3	10.4	46	5	4.8	6	6.5	8.5	8.8	11.2	16
47	4.1	5.5	8	7	7.8	8.6	10	11.2	47	4.6	4.7	6.7	8.4	9	8.7	9	14.2
48	4.2	5.5	7.5	8.2	8.5	8.2	9.2	13.4	48	4.9	5	6.8	7.5	9.3	9.5	8.9	10.2
49	3.8	6.5	7.6	8.3	9	8.3	10	15	49	4.8	6	6.9	6.5	8.5	9.2	10	13.2
50	3.9	6	6	8	8.8	9	10	12	50	4.1	4	7.2	6.7	8	9	10.3	13.2

Sampel	P4U1								Sampel	P4U2							
	Hari Ke-									Hari Ke-							
	1	5	10	15	20	25	30	35		1	5	10	15	20	25	30	35
1	4	4.5	7.2	9	8	9.5	12.3	10.2	1	4	7.3	8.4	7.4	8.4	11.2	10	11.2
2	4	5.4	6	10.2	7.4	11	14.2	14.2	2	5	6	8	10	7.3	11	10.2	11

3	3.6	7	8.8	8.5	8.5	11.5	10.3	12.3	3	3.1	5.3	6.3	11.2	8	10.4	10.2	14.5
4	3.7	7.6	8.2	9	10.4	10	16.7	15	4	3.6	5.5	7.8	9.8	8	12.3	10	10.4
5	3.9	6.2	9	12.3	9.2	12	11.2	12.3	5	3.7	5	8.4	8	9.4	10.4	10	14.5
6	3	5.4	6.3	6.2	9	8.5	12	16.7	6	3.9	7.2	6.3	10.5	8.5	9.5	10.3	18.3
7	4	8.1	6.7	6.4	11.2	11	15.2	11.5	7	3.6	6.2	6.7	7.8	9	10.3	15.3	16
8	4.1	5.2	8.2	9.3	10.3	7	9	12.4	8	3.5	6	8	9	11.2	10.3	9.4	14.2
9	3.8	6.2	9.2	11.2	11	10.5	11.4	16.2	9	4	5	9.3	8.3	10.4	12	13.4	10
10	3.6	5	9	8.3	8.2	12.5	10.4	14.2	10	4.1	8.2	7.3	10.2	9	11	12.3	11.4
11	3.6	9.1	8.3	7.8	13.2	12	10.2	18.5	11	4.3	7	8.6	7.1	8.4	13.2	9.3	12
12	3.8	6.4	8	8.8	7	11.3	10	12.4	12	3.6	6.7	5.3	7.5	8	12.4	12	14
13	4.7	6.3	9	9	12.3	10.5	10.2	13.4	13	3.5	7	6.7	9.3	10	11.2	13.2	13
14	4.3	5.3	8.4	7.2	8	12.5	10.4	12.4	14	3.6	5.2	5.7	10	10.2	10.4	14.2	10.3
15	3.5	6.2	8	8	6.4	8.5	13	11.6	15	4	5	9	9.5	10	12.3	10.2	13.2
16	3.6	7	7.2	9	10.3	10.3	13.4	14.2	16	4.1	6.2	9.4	8	9.4	10.6	12.4	14.5
17	3.8	6.2	8.1	9.6	9.5	11.2	9	17.3	17	4.3	4	6.3	10	12	11.2	10	10
18	3.8	5.2	7.2	10	10.2	10	12	12.3	18	5	6	10.2	7.3	8	10.4	12.4	10.6
19	4	4.3	8	9.2	8	9.4	10	12.5	19	4	5.6	5.7	6.7	7.8	11.2	10.5	13.2
20	4	8.3	8.2	8.2	9.3	12.3	10.3	12	20	4.1	5.6	8.2	9.3	8.6	10.4	10	10.5
21	3.7	5.4	7.5	9.5	10.3	9.3	10	10	21	3.8	5	8	6.7	10	11.3	11.6	10.5
22	3.6	6.3	7.2	8.2	11.2	11.3	10	17.8	22	5	5.3	7.3	8.3	11.2	12.3	11.2	14.3
23	3.7	6.5	6.4	12.4	10.4	11.3	13.2	1.7	23	4	4.5	9	9	8	9.5	12.4	14.3
24	3	8	9.2	8.4	9	12.3	11.6	14	24	3.4	5	8.3	10.3	8.2	12.3	16.2	12
25	4	5.4	7.2	9.3	7.3	10	10.5	14	25	3.6	4.8	6.7	8.7	11	12	9.5	12.3
26	4.3	6	8	8.2	10.2	9.3	11.2	11.2	26	3.7	4	7.2	11.2	10.4	9.5	12	12.6
27	4	5	5.6	7.8	9.3	9.3	12.3	10.3	27	3.8	7.3	5.6	7.3	9.6	10.5	10.5	10
28	4.3	7.2	7	7	11.2	8.2	14.2	14.3	28	5	6	5.8	10.4	8	9.4	12.4	12
29	4.3	6.3	8.2	10.2	12.3	8.5	11.8	11.6	29	5	6.2	8	9.5	10	8.9	10.3	15.3
30	4.1	6.2	6.8	8.3	10.2	11.2	12.4	11	30	3.3	5	7.4	7.3	8.4	10.3	12.4	10.4
31	3	6	7	9	9.3	10.5	11.2	12	31	3	6.3	8.2	8.6	11.2	11.2	11.5	12.5
32	3.3	5.6	7.2	9	10.2	10	14.2	14.5	32	4.2	8	6.7	6.7	10.3	9.3	9	11.4
33	3.5	7.3	5.3	7.4	12.6	11.4	10.2	13.5	33	4.3	5.3	6	9	9	9	10.5	10.5
34	4	8	11.7	7.8	11.2	12.4	14.2	19	34	3.1	4	5.7	13.2	9	10.4	12.4	14
35	4	4.6	6	8	10	10.3	15.6	13.4	35	3.2	7.2	6.3	8	8.3	12.4	10.5	11
36	4.2	6	8.2	7.8	9.4	9	10.4	12.4	36	3.3	4	7.2	8.5	11.2	12	11.2	12
37	3.7	5	10.8	9	10.3	8.4	10	11	37	4	5.4	8.3	7.4	9	11	11.6	13
38	3.8	7.6	9	6.2	12.3	10.2	11.4	13.4	38	4.4	5.6	7.1	10.4	12	10.7	10	10
39	3.7	5.7	8.2	6	10.3	8.2	12.4	15.3	39	3.8	5	6.4	9	11.3	10	13	12.6
40	3.9	5.6	7.2	7.3	11.3	8	10.4	13.2	40	3.7	7.3	5.6	11.3	12.4	11	12	12.6
41	3.1	7	7.2	8.5	6.8	12.3	12	14.2	41	5	6.8	5.6	7.4	9.4	11.4	10.5	14
42	3.6	6.5	8.2	6.5	7	14	13.4	10.3	42	4	6	9.3	6	9	10.4	12.5	12
43	3.7	6.5	6.3	7	6.3	11.2	13.3	11.2	43	4	5.3	8.2	10.3	8.3	13.4	10.7	14.2

44	4.3	4.2	6.8	8.2	8.6	8.3	15.3	10	44	3.6	5.5	6.5	8	10	15.3	10.5	16.7
45	4.1	5	8.3	11.2	7	8.9	12	12	45	3.7	4.8	5.7	9.3	9.2	9	10.5	13
46	4.2	5.6	8	9.2	9.2	10.3	11.4	13.7	46	3.7	6.2	6.6	8.7	12.3	10	11.5	10
47	3.9	5.1	6.4	10	11.2	8.3	11.3	12	47	4.1	7.3	7.3	10.3	8.3	11.3	10	16
48	3.8	6.3	7.3	9.3	10.2	11.4	11.2	11	48	3.5	6.5	8.2	6.7	9	13.2	10.3	10
49	3.6	7	8	6.8	12.3	10	10	12.3	49	3.7	7	7.6	11.6	8.3	10.3	11.5	12
50	3.1	5	9	9	11.2	10.4	10.2	12.4	50	5	6.4	9	7.8	10.5	11.4	10	14.2

#### Lampiran 4. Rata-rata Pertumbuhan Panjang Ikan Lele

Perlakuan	Ulangan	Hari ke-							
		1	5	10	15	20	25	30	35
P1	1	3.93	5.79	5.86	7.26	8.44	9.15	10.24	11.56
	2	3.84	5.62	5.95	7.37	8.59	9.26	10.13	11.58
	Rata-Rata	3.89	5.71	5.91	7.32	8.52	9.21	10.19	11.57
P2	1	4.03	5.85	7.19	8.32	8.53	9.40	10.22	12.41
	2	4.21	5.87	6.97	7.95	8.91	9.43	10.32	11.69
	Rata-Rata	4.12	5.86	7.08	8.14	8.72	9.42	10.27	12.05
P3	1	4.22	5.90	7.49	8.34	9.09	9.33	10.24	12.20
	2	4.42	5.75	7.20	8.22	9.38	9.62	10.18	12.09
	Rata-Rata	4.32	5.83	7.35	8.28	9.24	9.48	10.21	12.15
P4	1	3.81	6.14	7.76	8.59	9.71	10.31	11.77	12.86
	2	3.94	5.86	7.33	8.88	9.49	11.01	11.27	12.56
	Rata-Rata	4.07	6.00	7.55	8.74	9.60	10.66	11.52	12.71

#### Lampiran 5. Data Kualitas Air

Perlakuan	Hari Ke-	1	5	10	15	20	25	30	35
1	Suhu	27	26	28.5	29	27	27	30	29
	pH	6.4	7	6.5	7.3	7.2	6	8	6.5
	DO	5	4.6	6	5.2	4.1	6	6.5	5
2	Suhu	28	29	26	26.5	27.5	28	27	28.6
	pH	7.3	6.8	7	6.5	7	6	6.6	6.5
	DO	4.5	4.9	5	6.1	5.4	4	4	5.4
3	Suhu	28	27.4	28.4	27	27	27.8	26.5	29
	pH	7.5	7.3	6.4	7	7.5	8	6.8	7
	DO	4.6	4.7	5.5	6	5.3	5.8	5.5	5
4	Suhu	27.6	26.5	28	29	26.4	27	27.5	26
	pH	6.5	7	7.4	7.6	6.3	7.7	6.3	7.5
	DO	4.6	4.9	5.6	6.6	6.4	6	5.4	6.3

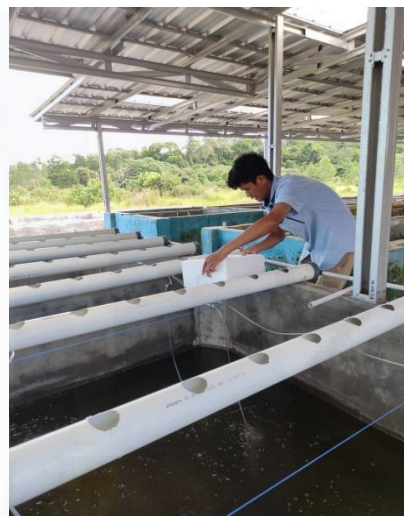
### Lampiran 6. Data Pertumbuhan Tinggi Tanaman Kangkung

Hari Ke-	1	5	10	15	20	25	30	35
P1	5.29	7.11	10.14	14.30	17.89	22.73	25.69	29.25
P2	5.44	7.63	10.71	15.02	18.75	23.40	27.37	30.23
P3	6.42	8.63	11.76	16.21	19.46	23.92	28.02	32.16
P4	6.57	8.70	11.28	14.38	18.89	24.28	28.51	31.73

### Lampiran 7. Dokumentasi Penelitian



Sortir Benih Ikan Lele



Penebaran Benih Ikan Lele



Penyemaian Benih Kangkung



Persiapan Pakan Uji



Pencampuran Probiotik Ke Pakan



Pengukuran Berat Ikan



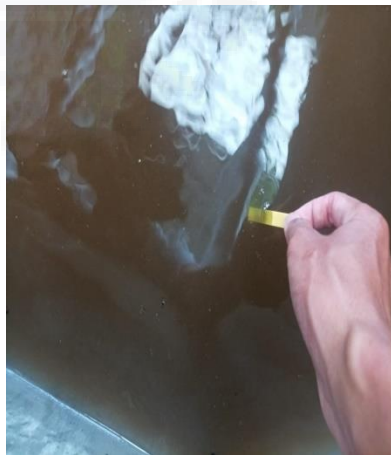
Pengamatan panjang ikan



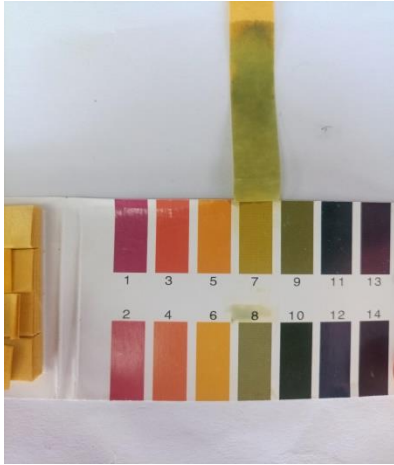
Pengukuran Tinggi Tanaman Kangkung



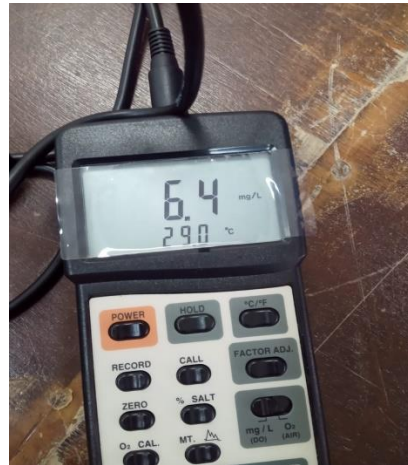
Pengamatan Suhu Air



Pengamatan pH



Pengamatan pH



Pengamatan DO



Tanaman Kangkung



Instalasi Akuaponik

## RIWAYAT HIDUP



Penulis bernama lengkap Sudi dilahirkan di Desa Sebagin, Kecamatan Simpang Rimba, Kabupaten Bangka Selatan, Provinsi Kepulauan Bangka Belitung, pada tanggal 04 Agustus 1999. Penulis merupakan anak ke delapan dari delapan bersaudara, dimana penulis merupakan putri dari pasangan Bapak Sopian dan Ibu Sana. Penulis lulus di Pendidikan SD Negeri 11 sebagin pada tahun 2011, lulus di SMP Muhammadiyah Kota Pangkalpinang pada tahun 2014, lulus di SMA Muhammadiyah Kota Pangkalpinang pada tahun 2017. Pada tahun 2017 penulis melanjutkan pendidikan di Pusdiklat An-Nahl Sukabumi selama satu tahun. Pada tahun 2018 penulis melanjutkan perkuliahan dan diterima sebagai mahasiswa melalui seleksi jalur SMMPTN dan diterima di Program Studi Akuakultur, Fakultas Pertanian Perikanan dan Biologi, Universitas Bangka Belitung. Selama kuliah penulis aktif mengikuti organisasi di lingkungan kampus maupun diluar kampus diantaranya Himpunan Mahasiswa Kultur Akuatik (HIMAKUATIK).