



PROGRAM STUDI TEKNIK SIPIL FAKULTAS TEKNIK
UNIVERSITAS ISLAM SULTAN AGUNG
SEMARANG

Jln. Kaligawe Raya KM. 4, Terboyo Kulon, Genuk, Semarang, 50112 Telp. (024) 6583584

LEMBAR ASISTENSI

TUGAS AKHIR

Nama Mahasiswa : 1. Alysha Salsabila Nugrahany (30201900222)

2. Chandra Khoiru Riza (30201900227)

Program Studi : S1 Teknik Sipil

Dosen Pembimbing 1 : Ir. M. Faiqun Ni'am, MT.Ph.D

Dosen Pembimbing 2 : Ir. Gata Dian Asfari, MT.

No.	Tanggal	Keterangan	Paraf
1.	13-01-2021	- Kebutuhan air irigasi dan pola tanam. - Lokasi di Merangin, Jambi. - Baca Pedoman penulisan TA.	
2.	19-01-2021	- Analisis Hidrologi pada sungai yg dipakan oleh irigasi (Q. andalan). - Menggunakan DAS Merangin.	
3.	16-02-2021	- Perbaiki analisis Hidrologi - Lanjutkan analisis bab 4.	



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**LEMBAR ASISTENSI
TUGAS AKHIR**

Nama Mahasiswa : 1. Alysha salsabila W (3.02.019.002~~22~~)
2. Chandra Kharrisa (3.02.019.002~~27~~)
Program Studi : S1 Teknik Sipil
Dosen Pembimbing 1 : Ir. M Faiqun Ni'am, MT, Ph.D.
Dosen Pembimbing 2 : Ir. Gata Dian Asfari, MT.

No.	Tanggal	Keterangan	Paraf
4.	19-7-2021	- Perbaikan kesimpulannya sesuaikan dg point 2 pd tugas - Siapkan abstrak (3 paragraf)	
5.	19-7-2021	- Setuju dengan hasil	



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**LEMBAR ASISTENSI
TUGAS AKHIR**

Nama Mahasiswa : 1. Alysha Salsabila Nugrahany (30201900222)

2. Chandra Khoiru Riza (30201900227)

Program Studi : S1 Teknik Sipil

Dosen Pembimbing 1 : Ir. M. Faiqun Ni'am, MT.Ph.D

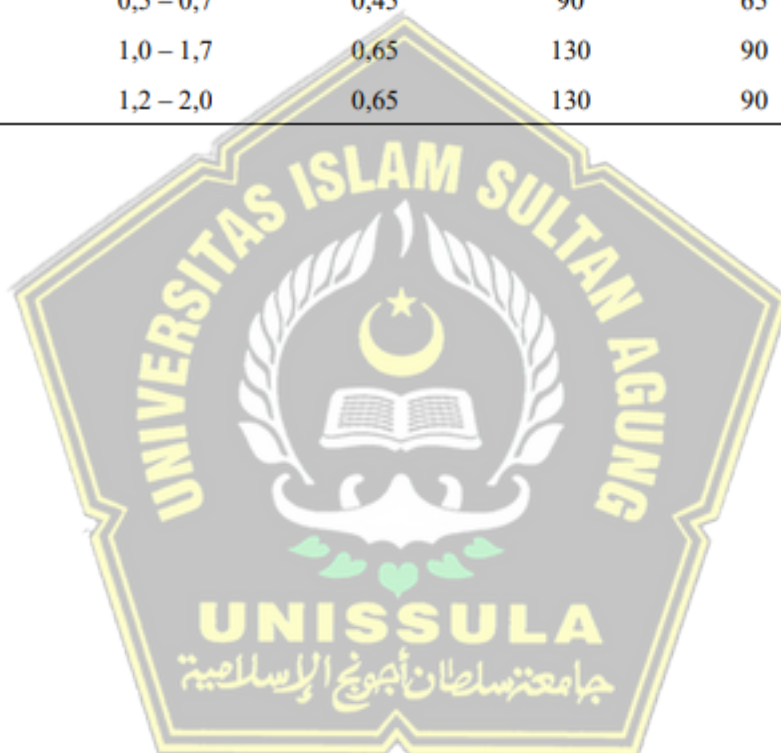
Dosen Pembimbing 2 : Ir. Gata Dian Asfari, MT.

No.	Tanggal	Keterangan	Paraf
1.	17 Januari 2021	- Perbaiki Sesuai Koreksi - Lanjut Bab 3 Membahas Rumusan Masalah	
2.	8 Juli 2021	- Hitung Neraca Air Irigasi - Hitung Kebutuhan Air Irigasi sesuai Pola Tanam - Lanjut Bab V Kesimpulan dan Saran.	
3	21 Juli 2021	Ace dpt seminar	

Lampiran 1

Tabel Nilai Kedalaman Air Tanah (D)

Tanaman	Dalamnya Akar (m)	Fraksi Air yang Tersedia	Air Tanah Tersedia yang Siap Pakai (mm)		
			Halus	Sedang	Kasar
Kedelai	0,6 – 1,3	0,50	100	75	35
Jagung	1,0 – 1,7	0,60	120	80	40
Kacang Tanah	0,5 – 1,0	0,40	80	55	25
Bawang	0,3 – 0,5	0,25	50	35	15
Buncis	0,5 – 0,7	0,45	90	65	30
Kapas	1,0 – 1,7	0,65	130	90	40
Tebu	1,2 – 2,0	0,65	130	90	40



Lampiran 2

Data Curah Hujan Stasiun Hujan Muara Imat

2010														
Tanggal	Bulan													
	Jan	Feb	Mar	Apr	Mei	Jun	Jul	Ags	Sep	Okt	Nop	Des		
1	10	10	0	0	0	0	12	0	0	10	3	0		
2	25	6	0	0	0	0	7	0	0	15	1	0		
3	18	9	0	0	0	0	15	0	0	8	0	0		
4	9	15	0	0	3	0	10	0	0	5	0	0		
5	12	20	0	2	7	2	20	0	0	2	0	0		
6	6	12	0	8	9	5	13	2	0	0	0	0		
7	20	10	0	11	5	8	8	6	0	0	0	0		
8	11	4	0	4	11	3	5	10	2	0	2	2		
9	16	8	0	9	20	0	25	18	5	0	0	7		
10	8	17	0	6	8	0	19	25	8	0	5	10		
11	5	25	2	10	2	0	7	20	3	0	1	4		
12	0	11	6	13	6	6	4	11	7	0	0	1		
13	0	7	10	20	10	10	11	8	0	0	0	0		
14	0	16	4	15	4	4	6	21	0	0	0	0		
15	0	21	8	8	13	1	2	19	0	0	0	0		
16	0	18	15	17	9	0	0	5	0	0	3	0		
17	0	9	19	12	15	15	0	3	4	0	6	0		
18	2	5	25	25	7	9	0	7	9	3	9	0		
19	7	2	11	19	2	7	0	0	15	7	12	0		
20	15	0	20	22	1	0	0	0	6	4	18	0		
21	9	0	13	14	0	0	0	0	2	1	10	0		
22	4	0	9	10	0	5	3	0	8	0	7	0		
23	11	8	22	16	0	12	5	0	10	0	15	0		
24	25	13	17	9	0	8	16	0	12	0	20	0		
25	10	6	14	4	0	15	10	0	7	6	8	0		
26	6	0	18	2	0	25	21	0	3	10	5	0		
27	21	1	12	6	0	21	24	0	5	0	19	0		
28	13	0	10	3	0	10	18	0	0	0	4	0		
29	8		5	0	0	6	9	0	0	5	2	0		
30	3		21	0	0	9	4	0	0	3	0	0		
31	0		12	0	0	2	0	0	0	0	0	0		
Hujan Maximum	25	25	25	25	20	25	25	25	15	15	20	10		
Hujan Rata	9	9	9	9	4	6	9	5	4	3	5	1		
Hujan Minimum	0	0	0	0	0	0	0	0	0	0	0	0		
Jml Curah Hujan	274	253	273	265	132	181	276	155	106	79	150	24		
Jml.Hari Hujan	24	23	21	24	17	20	25	13	16	13	19	5		
Hujan (1-15)	140	191	30	106	98	39	164	140	25	40	12	24		
Hujan (16-31)	134	62	243	159	34	142	112	15	81	39	138	0		
Hari (1-15)	11	15	5	11	12	8	15	10	5	5	5	5		
Hari (16-31)	13	8	16	13	5	12	10	3	11	8	14	0		

2011												
Tanggal	Bulan											
	Jan	Feb	Mar	Apr	Mei	Jun	Jul	Ags	Sep	Okt	Nop	Des
1	0	20	10	0	0	10	0	0	8	10	15	18
2	0	9	6	0	0	6	0	0	11	6	8	24
3	0	15	15	0	0	15	0	0	19	22	5	15
4	0	10	9	0	0	8	7	0	25	15	3	10
5	0	6	5	0	0	3	3	0	20	9	1	21
6	0	2	7	0	0	0	12	0	7	6	0	17
7	0	0	11	0	0	0	19	0	4	2	0	25
8	0	0	3	4	0	0	8	0	2	0	0	11
9	0	0	8	9	0	2	5	0	9	0	0	19
10	0	0	5	15	0	8	0	0	6	0	0	8
11	0	0	2	7	0	15	0	0	15	0	0	13
12	0	0	4	10	0	7	2	0	3	0	0	22
13	2	0	9	5	0	5	6	5	5	0	0	16
14	4	0	13	8	0	9	9	11	10	3	9	9
15	9	0	17	3	5	3	15	3	21	8	6	6
16	15	0	8	6	8	0	11	7	16	11	11	14
17	8	9	14	20	15	1	4	2	8	5	20	23
18	5	7	6	13	7	0	0	9	0	9	14	12
19	3	4	2	9	10	0	0	4	0	7	8	20
20	7	0	0	5	21	0	0	10	0	4	17	11
21	10	0	0	18	6	0	0	15	0	1	22	18
22	16	0	0	22	4	0	0	17	0	0	10	21
23	11	0	0	11	9	4	0	20	0	0	16	24
24	6	0	0	7	2	10	0	8	0	0	7	19
25	4	0	0	4	0	18	0	14	2	0	2	15
26	9	0	0	16	0	25	0	9	5	0	11	10
27	13	0	0	21	0	11	0	6	1	0	19	16
28	20	0	0	8	0	6	0	4	0	0	23	22
29	17	0	0	3	0	2	0	0	0	6	14	7
30	10	0	0	0	0	0	0	0	0	10	20	0
31	22	0	0	0	0	0	0	0	0	17	0	0
Hujan Maximum	22	20	17	22	21	25	19	20	25	22	23	25
Hujan Rata	6	3	5	7	3	6	3	5	7	5	9	15
Hujan Minimum	0	0	0	0	0	0	0	0	0	0	0	0
Jml Curah Hujan	191	82	154	224	87	168	101	144	197	151	261	466
Jml.Hari Hujan	19	9	19	22	10	20	12	16	20	18	22	29
Hujan (1-15)	15	62	124	61	5	91	86	19	165	81	47	234
Hujan (16-31)	176	20	30	163	82	77	15	125	32	70	214	232
Hari (1-15)	3	6	15	8	1	12	10	3	15	9	7	15
Hari (16-31)	16	3	4	14	9	8	2	13	5	9	15	14

2012												
Tanggal	Bulan											
	Jan	Feb	Mar	Apr	Mei	Jun	Jul	Ags	Sep	Okt	Nop	Des
1	0	6	0	0	0	2	13	0	0	9	10	10
2	0	1	2	0	0	8	18	0	0	6	7	23
3	0	8	0	0	0	5	10	8	0	3	3	15
4	0	5	0	0	0	0	5	12	0	12	9	9
5	0	2	0	0	0	0	0	5	0	17	0	6
6	0	0	0	0	8	0	0	3	0	20	0	4
7	0	0	0	0	2	0	8	0	0	24	0	0
8	0	0	0	0	0	0	11	0	0	8	4	0
9	0	0	0	0	3	0	17	0	0	5	11	0
10	0	0	0	0	4	0	20	0	10	0	20	0
11	0	0	0	0	2	0	4	0	21	0	19	0
12	0	0	0	0	4	0	0	0	11	2	15	3
13	2	0	0	1	0	0	0	0	8	0	25	8
14	0	0	0	5	0	8	0	0	0	0	10	20
15	0	0	0	8	1	15	0	0	0	0	6	11
16	0	3	0	4	0	6	2	0	0	0	9	16
17	5	1	0	2	0	0	5	0	0	1	7	25
18	1	0	0	0	0	0	8	0	0	4	24	21
19	3	0	0	0	2	0	12	0	0	10	22	18
20	0	0	0	0	1	0	20	0	0	16	16	26
21	0	4	0	0	4	0	22	0	0	7	50	10
22	0	7	0	0	2	0	18	2	0	3	35	13
23	0	2	0	0	4	0	10	0	0	0	30	25
24	0	2	0	0	2	0	13	0	0	0	27	20
25	0	1	0	0	1	0	9	0	0	0	31	14
26	0	3	0	0	6	0	3	0	0	0	18	22
27	0	2	5	6	1	0	0	0	0	5	5	18
28	0	2	8	9	3	4	0	0	5	11	13	10
29	4	1	3	2	6	9	0	0	11	22	17	6
30	7	0	0	1	9	20	0	0	7	19	8	3
31	9	0	0	0	0	0	0	0	0	8	0	1
Hujan Maximum	9	8	8	9	9	20	22	12	21	24	50	26
Hujan Rata	1	2	1	1	2	3	7	1	2	7	15	12
Hujan Minimum	0	0	0	0	0	0	0	0	0	0	0	0
Jml Curah Hujan	31	49	18	38	65	77	228	30	73	212	451	357
Jml.Hari Hujan	7	16	4	9	19	9	20	5	7	21	27	26
Hujan (1-15)	2	22	2	14	24	38	106	28	50	106	139	109
Hujan (16-31)	29	27	16	24	41	39	122	2	23	106	312	248
Hari (1-15)	1	5	1	3	7	5	9	4	4	10	12	10
Hari (16-31)	6	11	3	6	12	4	11	1	3	11	15	16

2013												
Tanggal	Bulan											
	Jan	Feb	Mar	Apr	Mei	Jun	Jul	Ags	Sep	Okt	Nop	Des
1	0	10	18	0	10	0	0	0	0	0	6	8
2	0	6	15	0	15	0	5	0	0	0	10	15
3	0	12	20	0	23	0	8	0	0	0	17	23
4	0	20	25	1	19	0	15	0	0	0	8	19
5	0	9	19	3	10	3	20	0	2	0	15	10
6	2	25	11	6	6	9	13	0	6	0	22	25
7	7	18	21	10	2	12	9	5	10	3	10	20
8	11	11	0	11	0	6	6	8	20	8	25	16
9	20	5	0	15	0	2	0	12	15	20	12	11
10	14	3	0	19	0	0	0	21	9	14	19	7
11	9	1	0	25	0	0	0	7	5	9	8	4
12	5	0	0	20	0	0	10	2	11	5	5	9
13	10	0	0	7	0	0	4	0	4	10	0	0
14	25	0	0	4	0	0	1	0	8	7	0	0
15	18	0	0	9	0	0	0	0	13	21	0	0
16	6	0	0	22	0	0	0	0	23	18	0	0
17	1	0	0	17	3	4	0	0	25	25	2	0
18	0	0	0	8	8	11	0	0	16	12	7	0
19	0	2	0	5	15	16	0	4	20	6	10	0
20	0	0	0	16	10	20	0	9	7	2	16	10
21	0	0	0	24	7	7	0	3	3	0	20	21
22	0	0	2	10	4	10	0	6	1	0	14	16
23	3	0	6	14	1	8	2	15	0	0	9	11
24	8	0	11	12	0	5	7	25	0	4	3	20
25	15	0	5	21	0	0	11	11	0	16	5	13
26	21	0	9	18	0	0	20	5	0	23	11	17
27	24	0	3	26	0	0	13	1	0	19	6	25
28	17	0	7	30	0	0	9	0	0	8	0	18
29	13	4	32	0	0	5	0	0	22	0	7	
30	9	8	20	0	0	3	0	0	15	4	22	
31	5	0	0	0	0	1	0	0	11	0	6	
Hujan Maximum	25	25	25	32	23	20	20	25	25	25	25	25
Hujan Rata	8	4	6	14	4	4	5	4	7	9	9	11
Hujan Minimum	0	0	0	0	0	0	0	0	0	0	0	0
Jml Curah Hujan	243	122	184	405	133	113	162	134	198	278	264	353
Jml.Hari Hujan	21	12	16	27	14	13	19	15	18	22	24	24
Hujan (1-15)	121	120	129	130	85	32	91	55	103	97	157	167
Hujan (16-31)	122	2	55	275	48	81	71	79	95	181	107	186
Hari (1-15)	10	11	7	12	7	5	10	6	11	9	12	12
Hari (16-31)	11	1	9	15	7	8	9	9	7	13	12	12

2014												
Tanggal	Bulan											
	Jan	Feb	Mar	Apr	Mei	Jun	Jul	Ags	Sep	Okt	Nop	Des
1	8	1	0	10	10	0	4	9	0	0	7	12
2	13	9	0	4	21	0	7	15	0	0	15	9
3	20	0	0	7	19	0	10	23	5	0	9	20
4	16	0	0	13	1	5	0	10	11	0	25	25
5	21	0	0	9	5	8	0	7	20	0	11	18
6	9	0	0	5	16	0	0	4	9	0	6	10
7	15	0	0	11	20	0	0	1	4	0	3	3
8	24	0	0	3	9	0	0	0	0	2	1	0
9	18	0	2	0	13	0	11	0	0	6	0	0
10	10	0	5	0	6	0	16	0	6	0	0	0
11	14	0	8	0	2	2	3	0	10	0	0	0
12	25	0	3	1	0	6	0	0	13	0	5	5
13	29	0	0	6	0	10	0	3	25	0	8	8
14	7	10	0	15	4	4	0	6	16	0	13	11
15	3	2	4	8	8	1	0	11	8	0	4	20
16	0	0	7	2	15	0	0	8	3	7	16	7
17	0	0	11	0	22	0	0	0	0	3	10	4
18	0	0	9	0	25	0	0	2	0	0	2	0
19	0	0	15	0	17	0	1	5	0	0	0	0
20	5	0	15	10	20	0	5	8	9	0	0	0
21	4	0	6	18	0	5	2	11	2	2	0	0
22	17	0	10	23	0	9	0	16	0	9	21	0
23	20	0	17	20	0	15	0	20	0	12	14	9
24	12	0	21	14	0	7	0	10	0	5	20	15
25	8	0	8	7	0	3	0	7	5	1	17	25
26	22	4	14	12	10	0	0	9	1	0	26	10
27	10	0	20	4	6	0	0	4	0	0	22	18
28	3	0	13	0	13	0	0	1	0	0	19	6
29	0	0	25	2	4	0	15	0	0	0	10	2
30	0	0	19	6	0	0	9	0	0	0	4	0
31	0	0	12	0	0	0	12	0	0	4	0	5
Hujan Maximum	29	10	25	23	25	15	16	23	25	12	26	25
Hujan Rata	11	1	8	7	9	3	3	6	5	2	10	8
Hujan Minimum	0	0	0	0	0	0	0	0	0	0	0	0
Jml Curah Hujan	333	26	244	210	266	75	95	190	147	51	288	242
Jml.Hari Hujan	24	5	21	23	22	12	12	22	16	10	24	21
Hujan (1-15)	232	22	22	92	134	36	51	89	127	8	107	141
Hujan (16-31)	101	4	222	118	132	39	44	101	20	43	181	101
Hari (1-15)	15	4	5	12	13	7	6	10	11	2	12	11
Hari (16-31)	9	1	16	11	9	5	6	12	5	8	12	10

2015												
Tanggal	Bulan											
	Jan	Feb	Mar	Apr	Mei	Jun	Jul	Ags	Sep	Okt	Nop	Des
1	0	3	4	0	0	7	0	0	0	0	0	4
2	0	0	9	0	0	14	0	0	0	0	0	11
3	0	0	15	0	2	21	0	0	0	0	0	6
4	0	0	21	4	7	10	0	0	0	0	2	20
5	0	5	13	9	15	6	0	0	0	0	7	9
6	0	9	10	15	9	20	0	0	0	0	11	16
7	2	15	7	7	20	11	0	0	0	4	20	22
8	9	21	2	20	6	8	0	0	0	0	8	8
9	15	11	0	13	10	3	0	0	0	0	4	14
10	7	23	0	10	14	0	0	0	0	0	0	19
11	3	10	0	6	25	0	0	0	0	0	0	23
12	0	19	0	22	8	0	0	0	0	0	5	19
13	0	25	3	18	3	0	0	0	0	2	15	25
14	0	14	8	5	1	0	0	0	0	0	9	5
15	0	20	19	2	0	5	0	15	0	0	6	14
16	4	16	25	0	0	17	0	9	0	0	3	21
17	10	21	17	0	0	25	10	0	0	0	0	10
18	6	8	6	11	0	16	6	0	0	0	0	7
19	20	0	20	25	4	9	0	0	0	0	0	3
20	8	0	14	7	11	4	0	0	0	2	2	12
21	12	0	5	10	5	1	0	0	17	7	10	6
22	5	5	2	18	15	0	0	0	0	0	21	2
23	22	11	0	5	10	0	0	0	0	0	5	0
24	11	20	0	2	18	2	0	0	0	0	13	0
25	0	16	0	0	22	0	0	0	0	0	25	0
26	0	9	4	9	13	0	0	0	0	0	19	0
27	0	3	10	1	9	0	0	0	0	0	7	0
28	0	7	6	0	20	0	0	0	0	0	21	0
29	0	1	0	0	6	0	0	0	0	0	18	0
30	0	0	0	0	4	0	0	0	0	0	4	0
31	0	0	0	0	0	0	0	0	0	0	0	0
Hujan Maximum	22	25	25	25	25	25	10	15	17	7	25	25
Hujan Rata	4	10	7	7	8	6	1	1	1	0	8	9
Hujan Minimum	0	0	0	0	0	0	0	0	0	0	0	0
Jml Curah Hujan	134	291	221	219	257	179	16	24	17	15	235	276
Jml.Hari Hujan	14	22	22	21	24	17	2	2	1	4	22	22
Hujan (1-15)	36	175	111	131	120	105	0	15	0	6	87	215
Hujan (16-31)	98	116	110	88	137	74	16	9	17	9	148	61
Hari (1-15)	5	12	11	12	12	10	0	1	0	2	10	15
Hari (16-31)	9	10	11	9	12	7	2	1	1	2	12	7

2016												
Tanggal	Bulan											
	Jan	Feb	Mar	Apr	Mei	Jun	Jul	Ags	Sep	Okt	Nop	Des
1	5	2	25	2	9	0	0	15	33	0	3	20
2	1	7	0	0	3	24	24	0	0	15	0	20
3	0	0	3	4	15	44	44	0	0	0	48	0
4	0	0	0	5	23	0	0	6	0	0	21	0
5	0	0	5	30	0	52	52	0	13	0	5	5
6	2	0	31	60	50	0	0	0	3	0	20	0
7	9	0	0	13	28	0	0	0	9	0	4	0
8	13	4	12	0	2	9	9	0	0	7	7	2
9	20	11	23	3	5	0	0	0	44	1	0	0
10	7	6	18	0	17	51	51	0	0	9	37	0
11	11	3	40	27	0	1	1	0	0	0	52	0
12	6	0	13	45	74	28	28	15	0	0	36	0
13	0	11	11	4	20	8	8	0	0	0	1	0
14	0	0	14	53	15	0	0	9	0	0	17	0
15	3	0	26	21	9	1	1	6	0	0	11	0
16	0	0	10	9	0	6	6	0	0	0	0	0
17	10	4	0	0	6	29	29	10	0	0	14	0
18	5	1	7	0	16	0	0	4	3	0	15	0
19	8	0	0	0	4	0	0	7	0	0	9	0
20	21	0	0	4	5	0	0	0	0	0	30	0
21	7	6	0	0	0	0	0	0	0	0	4	0
22	14	0	0	2	0	0	0	0	0	0	0	0
23	24	23	31	51	9	0	0	0	0	6	39	0
24	9	15	36	8	0	0	0	6	5	25	0	0
25	0	22	0	2	5	0	0	0	9	30	0	0
26	0	32	41	97	3	0	0	0	12	80	0	0
27	0	8	0	1	22	0	0	0	2	26	0	0
28	0	0	0	25	4	0	0	0	0	8	6	0
29	0	13	29	0	5	0	0	0	0	9	11	0
30	0	17	0	3	0	0	0	0	0	0	0	0
31	0	13	0	0	0	0	0	50	0	0	0	0
Hujan Maximum	24	32	41	97	74	52	52	50	44	80	52	20
Hujan Rata	6	6	13	16	11	8	8	4	4	7	13	2
Hujan Minimum	0	0	0	0	0	0	0	0	0	0	0	0
Jml Curah Hujan	176	168	403	466	352	253	253	128	133	216	390	47
Jml.Hari Hujan	18	16	20	21	24	11	11	10	10	11	21	4
Hujan (1-15)	78	44	220	267	270	218	218	51	102	32	262	47
Hujan (16-31)	98	124	183	199	82	35	35	77	31	184	128	0
Hari (1-15)	10	7	12	12	13	9	9	5	5	4	13	4
Hari (16-31)	8	9	8	9	11	2	2	5	5	7	8	0

2017												
Tanggal	Bulan											
	Jan	Feb	Mar	Apr	Mei	Jun	Jul	Ags	Sep	Okt	Nop	Des
1	0	15	7	0	4	9	0	0	0	0	14	0
2	28	0	8	3	50	0	26	0	0	0	118	4
3	0	0	12	0	6	0	0	0	0	23	0	0
4	0	0	16	0	4	0	0	0	0	34	5	0
5	8	0	8	0	0	0	0	0	0	10	0	0
6	3	0	5	0	20	0	0	0	0	3	16	0
7	0	0	31	0	22	0	0	0	34	42	0	0
8	0	0	0	0	71	0	21	57	36	66	16	31
9	0	0	0	0	0	4	8	44	0	13	25	0
10	0	0	0	0	0	0	9	61	0	0	0	25
11	0	2	0	10	76	15	1	0	0	15	25	25
12	0	10	23	7	3	0	3	12	0	5	25	0
13	0	2	0	38	8	0	0	9	0	12	15	0
14	0	6	14	0	2	5	9	10	0	0	0	0
15	0	7	0	34	22	8	10	0	131	0	50	5
16	0	8	0	0	36	22	10	20	21	0	16	25
17	0	1	0	0	0	0	0	20	0	0	0	0
18	0	0	20	9	0	0	0	0	10	0	0	0
19	0	0	0	19	0	0	0	32	6	0	15	0
20	0	15	4	24	17	0	4	4	5	0	0	50
21	9	72	0	7	0	0	0	75	14	0	0	0
22	120	5	0	0	0	0	0	6	0	3	45	0
23	24	20	5	0	0	0	3	6	6	0	22	0
24	4	43	0	8	5	0	10	0	1	0	0	0
25	0	0	0	0	0	0	4	0	0	0	13	0
26	12	60	10	38	30	15	0	48	16	0	17	0
27	10	20	14	9	0	0	0	6	0	0	26	2
28	2	37	16	1	48	0	6	2	2	0	0	0
29	0	59	0	0	0	50	7	0	40	20	0	0
30	0	0	0	8	0	2	5	19	0	7	0	2
31	11	13	13	44	0	0	0	0	6	0	14	0
Hujan Maximum	120	72	59	38	76	50	26	75	131	66	118	50
Hujan Rata	7	12	9	7	15	4	4	14	11	8	15	6
Hujan Minimum	0	0	0	0	0	0	0	0	0	0	0	0
Jml Curah Hujan	231	323	265	215	468	130	136	431	322	259	463	183
Jml.Hari Hujan	11	16	17	14	18	9	16	17	13	14	17	10
Hujan (1-15)	39	42	124	92	288	41	87	193	201	223	309	90
Hujan (16-31)	192	281	141	123	180	89	49	238	121	36	154	93
Hari (1-15)	3	6	9	5	12	5	8	6	3	10	10	5
Hari (16-31)	8	10	8	9	6	4	8	11	10	4	7	5

2018												
Tanggal	Bulan											
	Jan	Feb	Mar	Apr	Mei	Jun	Jul	Ags	Sep	Okt	Nop	Des
1	12	0	5	40	20	0	5	0	0	0	0	75
2	0	0	17	7	0	0	0	0	0	0	0	0
3	0	0	0	8	9	0	0	0	25	0	15	12
4	18	0	0	41	2	0	0	0	0	0	0	0
5	0	0	10	0	3	0	0	0	0	12	15	9
6	0	8	23	6	0	0	0	40	0	0	32	0
7	0	3	8	0	4	0	0	26	0	0	0	0
8	0	12	25	14	0	0	0	0	17	3	75	0
9	0	0	8	0	0	0	40	20	2	6	0	0
10	11	0	3	11	0	0	27	0	0	0	22	23
11	5	0	0	11	31	0	0	0	3	4	25	16
12	0	0	0	25	10	0	0	0	0	0	30	0
13	0	0	0	0	7	30	0	0	0	72	55	17
14	0	0	0	14	0	5	0	0	0	0	0	28
15	0	0	0	5	25	8	0	50	5	32	0	0
16	0	0	6	15	25	10	0	50	9	57	0	0
17	0	0	20	40	30	7	0	25	0	0	0	0
18	0	0	14	30	0	4	0	25	0	0	0	16
19	0	0	9	0	0	6	0	6	150	22	28	0
20	0	0	2	7	0	20	17	50	0	0	36	27
21	0	0	0	0	21	25	0	7	0	3	11	0
22	0	10	7	50	5	1	15	15	9	0	32	0
23	0	6	10	13	65	2	0	0	33	0	2	0
24	0	20	4	0	15	4	12	0	4	30	0	75
25	0	7	23	25	23	0	5	50	28	35	0	0
26	0	15	12	9	19	0	7	0	0	0	0	0
27	0	25	26	0	6	8	0	0	0	3	0	120
28	0	19	19	0	4	12	0	5	0	0	26	0
29	0	5	3	0	0	7	0	0	0	0	28	0
30	0	10	0	0	0	0	10	20	0	0	36	0
31	0	32	0	0	0	0	8	0	108	0	14	0
Hujan Maximum	18	25	32	50	65	30	40	50	150	108	75	120
Hujan Rata	1	4	10	12	10	5	4	13	10	12	16	14
Hujan Minimum	0	0	0	0	0	0	0	0	0	0	0	0
Jml Curah Hujan	46	125	298	374	324	149	138	397	285	387	468	432
Jml.Hari Hujan	4	10	23	20	19	15	9	15	11	13	16	12
Hujan (1-15)	46	23	99	182	111	43	72	136	52	129	269	180
Hujan (16-31)	0	102	199	192	213	106	66	261	233	258	199	252
Hari (1-15)	4	3	8	11	9	3	3	4	5	6	8	7
Hari (16-31)	0	7	15	9	10	12	6	11	6	7	8	5

2019												
Tanggal	Bulan											
	Jan	Feb	Mar	Apr	Mei	Jun	Jul	Ags	Sep	Okt	Nop	Des
1	0	0	100	15	0	0	0	0	0	0	0	0
2	15	0	0	0	0	0	0	0	0	0	0	13
3	28	0	0	12	0	0	0	0	0	0	0	7
4	0	27	19	0	0	0	0	0	0	0	13	0
5	0	0	75	10	0	0	0	0	0	8	0	0
6	16	50	0	125	0	0	0	0	0	0	11	23
7	0	15	36	26	0	0	0	0	0	0	19	18
8	75	0	75	0	0	0	0	0	0	0	0	0
9	0	75	0	0	0	0	0	0	0	0	0	6
10	0	9	0	0	0	0	0	0	0	0	0	29
11	0	34	0	0	0	0	0	0	0	0	0	25
12	16	15	20	0	0	0	0	0	0	15	0	14
13	27	0	40	11	0	0	0	0	0	0	0	0
14	25	17	0	14	0	0	0	0	0	0	8	10
15	9	0	25	16	0	0	0	0	0	0	0	0
16	0	100	8	24	0	0	0	0	0	0	0	0
17	14	15	0	50	0	0	0	0	0	18	0	0
18	0	16	8	0	0	0	0	0	0	20	0	0
19	100	25	0	0	0	0	0	0	0	24	0	0
20	0	15	0	0	0	0	0	0	0	18	10	0
21	14	21	0	0	0	0	0	0	0	12	18	0
22	0	30	0	30	0	0	0	0	0	0	15	21
23	39	100	0	60	0	0	0	0	21	0	19	15
24	0	0	0	11	0	0	0	0	0	0	7	0
25	22	55	0	21	0	0	0	0	28	0	12	10
26	0	0	17	0	0	0	0	0	11	0	23	12
27	11	75	10	0	0	0	0	0	14	0	0	19
28	0	29	25	0	0	0	0	0	0	10	0	0
29	15	30	15	0	0	0	0	21	6	21	0	9
30	75	45	17	0	0	0	0	0	15	0	0	0
31	0	15	0	0	0	0	0	0	0	0	0	0
Hujan Maximum	100	100	100	125	0	0	0	21	28	24	23	29
Hujan Rata	16	26	18	15	0	0	0	1	3	5	5	7
Hujan Minimum	0	0	0	0	0	0	0	0	0	0	0	0
Jml Curah Hujan	501	723	548	457	0	0	0	21	95	146	155	231
Jml.Hari Hujan	16	19	16	16	0	0	0	1	6	9	11	15
Hujan (1-15)	211	242	390	229	0	0	0	0	0	23	51	145
Hujan (16-31)	290	481	158	228	0	0	0	21	95	123	104	86
Hari (1-15)	8	8	8	8	0	0	0	0	0	2	4	9
Hari (16-31)	8	11	8	8	0	0	0	1	6	7	7	6

Lampiran 3

Data Curah Hujan Stasiun Hujan Sungai Manau

2010														
Tanggal	Bulan													
	Jan	Feb	Mar	Apr	Mei	Jun	Jul	Ags	Sep	Okt	Nop	Des		
1	0	0	0	0	4	0	0	6	0	0	0	0	0	0
2	23	10	0	0	14	0	0	0	5	0	17	0		
3	0	0	0	0	0	0	0	0	0	0	20	9		
4	0	0	0	0	0	0	0	0	21	0	0	0		
5	6	0	0	0	0	0	0	0	0	0	0	0		
6	6	0	0	0	0	0	0	9	0	0	0	0		
7	5	9	0	0	0	18	0	36	0	0	0	64		
8	12	0	0	0	0	0	0	6	8	0	0	0		
9	0	9	0	0	0	0	0	0	0	0	0	22		
10	0	0	0	0	0	0	20	0	0	34	58	0		
11	0	12	0	0	16	0	0	0	0	23	0	0		
12	0	0	0	19	0	0	0	8	0	0	2	0		
13	9	0	0	0	0	0	0	0	0	0	15	0		
14	9	0	0	11	24	18	0	0	0	0	0	0		
15	0	0	0	9	0	0	0	0	0	0	0	0		
16	0	0	0	0	0	0	0	33	0	0	15	10		
17	0	0	0	0	0	0	23	24	0	0	0	10		
18	0	31	0	0	0	0	0	10	0	0	0	0		
19	0	0	0	0	0	0	0	0	20	0	19	0		
20	5	0	0	0	0	0	0	0	3	0	0	0		
21	12	0	0	21	0	0	9	0	0	0	0	0		
22	0	0	0	0	32	0	12	0	0	0	6	0		
23	0	0	0	0	0	0	0	18	49	0	0	0		
24	0	45	0	0	0	0	0	8	36	27	0	0		
25	26	0	0	0	0	0	0	9	0	0	0	0		
26	0	0	0	17	0	0	0	0	11	18	0	5		
27	5	0	0	0	7	12	10	15	8	0	16	0		
28	7	35	0	0	0	32	0	0	0	0	15	0		
29	0		0	0	0	0	0	0	0	7	0	0		
30	0		0	4	5	24	31	0	0	0	18	0		
31	15		0		3		0			0		0		
Hujan Maximum	26	45	0	21	32	32	31	36	49	34	58	64		
Hujan Rata	4	5	0	3	3	3	3	6	5	3	7	4		
Hujan Minimum	0	0	0	0	0	0	0	0	0	0	0	0		
Jml Curah Hujan	139	151	0	82	105	104	104	181	159	107	201	119		
Jml.Hari Hujan	13	7	0	6	8	5	6	12	9	5	11	6		
Hujan (1-15)	69	40	0	39	57	36	20	66	34	56	111	94		
Hujan (16-31)	70	111	0	43	47	68	85	115	125	51	90	25		
Hari (1-15)	7	4	0	3	4	2	1	5	3	2	5	3		
Hari (16-31)	6	3	0	3	4	3	5	7	6	3	6	3		

2011													
Tanggal	Bulan												
	Jan	Feb	Mar	Apr	Mei	Jun	Jul	Ags	Sep	Okt	Nop	Des	
1	0	0	15	0	0	0	0	0	0	0	0	0	5
2	0	0	18	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	11	0	0	11	31	20	
4	34	0	0	0	10	6	0	0	0	0	0	0	0
5	8	0	0	0	0	39	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	9	0	23	0	0	0	0	0	0	7	0	0
8	3	3	0	29	5	0	0	0	0	17	0	0	0
9	0	0	9	0	13	0	0	0	0	30	0	39	0
10	9	13	0	0	0	0	0	0	19	0	0	0	0
11	0	6	0	0	0	0	29	0	26	0	7	9	0
12	0	2	0	0	0	0	0	0	0	21	0	0	0
13	0	0	12	7	0	0	0	0	0	0	40	8	0
14	8	0	0	0	0	0	0	0	3	0	0	10	0
15	17	0	0	0	0	0	39	0	0	6	0	15	0
16	0	0	29	0	0	0	0	16	0	0	10	0	0
17	0	0	0	0	22	0	0	0	0	0	0	0	0
18	0	0	0	0	18	0	0	0	0	17	0	0	0
19	0	0	0	0	0	0	0	0	0	5	0	0	0
20	0	0	0	14	0	0	0	0	11	0	0	0	0
21	0	0	27	0	0	0	0	0	5	0	0	0	0
22	0	0	14	0	18	13	18	0	0	0	0	0	0
23	0	0	0	0	27	0	0	0	0	0	26	0	0
24	6	0	5	9	0	0	19	0	0	7	21	0	0
25	6	0	5	10	0	0	2	0	0	17	0	0	0
26	12	0	7	0	0	0	0	0	21	0	0	0	0
27	0	12	0	0	0	0	0	0	0	8	0	0	0
28	0	29	0	0	0	0	0	0	0	20	0	0	0
29	0	0	0	0	10	0	0	36	0	0	0	0	0
30	20	0	0	0	17	0	0	0	0	30	12	0	0
31	0	0	0	0	5	0	0	0	0	0	0	0	0
Hujan Maximum	34	29	29	29	27	39	39	36	26	30	40	39	
Hujan Rata	4	3	5	3	5	2	4	2	3	6	5	3	
Hujan Minimum	0	0	0	0	0	0	0	0	0	0	0	0	
Jml Curah Hujan	123	72	140	92	144	58	118	51	85	190	154	107	
Jml.Hari Hujan	10	7	10	6	10	3	6	2	6	12	8	7	
Hujan (1-15)	79	32	54	59	27	45	79	0	48	87	85	107	
Hujan (16-31)	44	41	86	33	117	13	39	51	37	103	70	0	
Hari (1-15)	6	5	4	3	3	2	3	0	3	5	4	7	
Hari (16-31)	4	2	6	3	7	1	3	2	3	7	4	0	

2012												
Tanggal	Bulan											
	Jan	Feb	Mar	Apr	Mei	Jun	Jul	Ags	Sep	Okt	Nop	Des
1	0	48	18	13	0	0	0	0	0	0	0	0
2	0	0	5	24	6	0	0	0	0	0	0	2
3	0	5	0	0	0	0	0	0	0	19	0	0
4	0	0	11	0	17	15	0	0	0	19	12	0
5	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	12	0	24	0	7	0	0	0	0	0
7	0	9	0	12	0	0	13	0	0	3	0	0
8	0	0	0	46	0	12	0	0	0	4	0	10
9	0	0	0	0	0	0	0	0	2	0	0	0
10	0	0	0	28	0	0	0	0	0	0	34	0
11	0	4	0	0	0	0	0	0	27	0	0	0
12	20	6	0	0	0	0	15	0	0	0	0	14
13	18	39	0	0	0	0	0	0	0	0	44	0
14	0	21	0	0	0	0	11	0	0	0	0	0
15	0	9	0	0	25	0	0	0	0	6	0	14
16	0	0	0	16	0	0	3	0	0	0	0	25
17	0	16	0	0	0	0	16	0	0	7	22	0
18	0	0	0	3	0	0	0	0	0	47	0	8
19	0	5	0	0	0	0	0	0	0	16	0	0
20	0	0	3	0	5	0	0	0	0	0	0	0
21	0	0	18	0	0	0	0	0	7	0	0	0
22	0	0	22	0	14	0	0	0	0	7	32	0
23	0	5	0	17	0	0	0	0	0	0	8	28
24	0	0	0	0	0	0	0	0	66	0	0	0
25	0	6	0	0	13	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	24	0
27	0	0	27	0	0	0	0	23	0	0	0	10
28	0	0	0	0	0	0	9	0	0	5	4	5
29	0	0	42	50	0	0	0	9	15	3	0	7
30	0	13	0	0	0	0	0	0	0	0	0	0
31	0	0	0	0	18	0	0	0	0	0	0	0
Hujan Maximum	20	48	42	50	25	15	16	23	66	47	44	28
Hujan Rata	1	6	5	7	4	1	2	1	4	4	6	4
Hujan Minimum	0	0	0	0	0	0	0	0	0	0	0	0
Jml Curah Hujan	38	173	170	208	121	27	74	32	117	136	180	122
Jml.Hari Hujan	2	12	10	9	8	2	7	2	5	11	8	10
Hujan (1-15)	38	141	45	122	71	27	46	0	29	51	90	40
Hujan (16-31)	0	32	125	86	50	0	28	32	88	85	90	82
Hari (1-15)	2	8	4	5	4	2	4	0	2	5	3	4
Hari (16-31)	0	4	6	4	4	0	3	2	3	6	5	6

2013												
Tanggal	Bulan											
	Jan	Feb	Mar	Apr	Mei	Jun	Jul	Ags	Sep	Okt	Nop	Des
1	3	23	0	2	0	0	0	0	0	15	29	25
2	0	0	0	10	2	0	0	0	13	0	0	0
3	0	0	0	3	0	9	0	0	4	6	5	0
4	0	15	0	10	0	0	19	0	0	0	20	0
5	0	5	0	0	0	0	0	0	6	13	0	10
6	0	0	0	6	0	0	0	0	4	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	26
8	11	2	3	0	0	28	6	0	26	0	0	0
9	9	55	34	0	11	15	0	0	0	0	31	0
10	0	0	0	0	19	0	0	0	0	0	21	0
11	0	0	21	4	6	0	0	0	0	5	0	0
12	0	0	0	0	0	0	0	0	0	0	0	8
13	0	24	0	0	0	0	0	0	0	15	0	0
14	3	0	18	0	0	0	9	0	18	0	22	0
15	0	0	0	0	0	0	0	0	0	0	0	0
16	0	11	40	0	0	0	10	0	17	0	16	0
17	0	0	0	0	18	0	0	15	0	3	0	0
18	0	0	0	6	0	0	0	0	0	0	22	0
19	0	0	13	0	20	0	0	0	0	0	7	15
20	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	8	0	0
22	4	0	11	8	5	0	0	0	0	0	0	0
23	6	0	0	31	0	0	0	0	0	12	0	0
24	14	0	16	0	27	0	14	0	0	0	0	0
25	24	0	8	0	0	0	0	0	0	0	32	0
26	0	0	0	5	8	0	0	0	7	0	0	0
27	27	4	0	34	20	0	0	0	0	18	22	0
28	0	0	0	0	20	0	28	0	25	0	0	7
29	4	0	0	0	0	0	0	0	5	0	0	0
30	0	0	0	0	0	0	47	0	0	0	0	0
31	0	0	0	0	0	0	0	0	0	0	0	0
Hujan Maximum	27	55	40	34	27	28	47	15	26	15	32	26
Hujan Rata	3	5	5	4	5	2	4	0	4	3	7	4
Hujan Minimum	0	0	0	0	0	0	0	0	0	0	0	0
Jml Curah Hujan	102	138	163	119	155	52	133	15	118	81	222	113
Jml.Hari Hujan	10	8	9	11	11	3	7	1	9	9	11	7
Hujan (1-15)	25	123	75	35	37	52	33	0	70	54	127	70
Hujan (16-31)	78	15	88	84	118	0	100	15	48	28	94	43
Hari (1-15)	4	6	4	6	4	3	3	0	6	5	6	4
Hari (16-31)	6	2	5	5	7	0	4	1	3	4	5	3

2014													
Tanggal	Bulan												
	Jan	Feb	Mar	Apr	Mei	Jun	Jul	Ags	Sep	Okt	Nop	Des	
1	0	0	0	4	3	7	0	0	0	0	1	0	
2	1	1	2	0	0	0	0	0	5	0	2	0	
3	1	0	2	0	0	0	0	9	0	0	0	0	
4	3	0	0	0	1	0	0	3	0	0	0	0	
5	2	0	0	0	0	0	0	1	0	0	0	0	
6	0	0	0	4	0	0	0	4	0	0	0	0	
7	0	1	0	0	0	0	0	0	0	0	0	0	
8	0	3	1	0	3	0	2	0	0	0	0	0	
9	0	3	0	0	0	0	1	0	0	0	3	6	
10	5	0	0	0	5	0	2	1	0	0	2	6	
11	0	0	0	0	1	0	1	2	0	0	0	10	
12	1	0	0	2	3	0	0	0	0	0	0	0	
13	2	0	0	2	0	0	7	0	0	0	6	0	
14	0	0	0	1	0	0	0	6	0	0	0	8	
15	2	0	1	0	2	0	0	0	0	3	0	0	
16	0	0	0	1	0	0	0	0	0	4	5	0	
17	0	0	0	0	0	0	0	1	0	1	0	0	
18	0	0	0	2	4	0	0	1	0	9	0	1	
19	0	0	0	0	0	0	0	0	0	0	4	0	
20	0	0	0	4	0	0	0	0	0	0	0	3	
21	0	0	2	0	0	0	0	0	31	0	0	5	
22	0	0	0	4	6	0	0	0	0	0	7	0	
23	0	3	1	0	0	0	0	0	0	0	5	1	
24	0	0	0	0	0	0	0	5	0	0	0	0	
25	1	0	0	0	0	0	0	0	0	0	4	0	
26	0	0	0	0	0	1	0	0	0	0	0	0	
27	0	0	0	4	6	0	0	0	0	0	0	5	
28	0	0	0	4	0	6	0	0	0	0	6	9	
29	0	0	0	0	0	2	0	0	0	0	4	0	
30	0	4	0	0	0	0	0	0	0	0	1	0	
31	0	0	0	0	0	0	0	1	0	1	0	0	
Hujan Maximum	5	3	4	4	6	7	7	9	31	9	7	10	
Hujan Rata	1	0	0	1	1	1	0	1	1	1	2	2	
Hujan Minimum	0	0	0	0	0	0	0	0	0	0	0	0	
Jml Curah Hujan	19	11	15	30	33	16	12	34	37	20	50	54	
Jml.Hari Hujan	10	6	9	12	10	6	5	11	3	6	14	12	
Hujan (1-15)	17	8	7	12	17	7	12	26	5	3	15	30	
Hujan (16-31)	2	4	7	18	16	9	0	8	31	17	35	23	
Hari (1-15)	8	4	6	5	7	1	5	7	2	1	6	5	
Hari (16-31)	2	2	3	7	3	5	0	4	1	5	8	7	

2015												
Tanggal	Bulan											
	Jan	Feb	Mar	Apr	Mei	Jun	Jul	Ags	Sep	Okt	Nop	Des
1	0	1	0	0	0	0	0	0	0	0	10	27
2	0	0	0	0	0	0	0	0	0	7	44	0
3	0	0	2	1	2	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	10
5	0	0	0	1	0	0	0	0	0	0	2	0
6	0	0	0	0	0	0	0	0	0	0	15	27
7	0	0	0	4	0	3	0	11	0	0	0	0
8	0	6	1	5	0	2	0	0	0	0	17	0
9	0	0	0	2	0	0	0	6	0	0	8	42
10	0	1	7	0	1	0	0	0	0	0	13	58
11	1	0	0	0	0	0	0	0	0	0	30	15
12	0	0	8	0	0	10	24	22	0	0	12	0
13	5	0	1	0	3	0	32	0	0	0	36	12
14	0	0	0	0	4	2	0	0	0	10	7	0
15	3	1	0	1	0	0	0	0	0	0	8	0
16	0	0	0	1	0	0	0	21	0	0	5	0
17	0	11	0	0	4	0	0	0	0	0	6	0
18	1	1	0	3	0	0	0	0	0	0	15	0
19	0	1	0	1	0	0	57	0	0	0	14	0
20	0	0	0	0	0	0	0	0	15	0	75	16
21	0	0	0	2	0	2	0	0	73	0	14	0
22	0	0	7	1	0	0	0	0	0	0	25	0
23	2	1	0	4	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	0	0
25	2	0	0	0	0	1	0	0	0	0	15	0
26	0	4	0	2	0	1	0	0	0	0	0	0
27	0	0	7	0	0	0	0	0	0	0	41	35
28	2	4	0	0	3	0	0	0	0	0	0	15
29	0	0	0	0	2	0	0	0	0	0	7	12
30	2	0	0	0	0	0	0	0	0	0	0	25
31	3	0	0	0	0	0	0	0	0	0	0	0
Hujan Maximum	5	11	8	5	4	10	57	22	73	10	75	58
Hujan Rata	1	1	1	1	1	1	4	2	3	1	14	9
Hujan Minimum	0	0	0	0	0	0	0	0	0	0	0	0
Jml Curah Hujan	21	30	32	27	19	22	113	60	88	17	419	294
Jml.Hari Hujan	9	11	8	15	9	10	3	4	2	2	22	12
Hujan (1-15)	9	9	18	16	11	17	56	39	0	17	202	191
Hujan (16-31)	12	21	14	12	8	4	57	21	88	0	217	103
Hari (1-15)	3	4	6	7	6	5	2	3	0	2	12	7
Hari (16-31)	6	7	2	8	3	5	1	1	2	0	10	5

2016												
Tanggal	Bulan											
	Jan	Feb	Mar	Apr	Mei	Jun	Jul	Ags	Sep	Okt	Nop	Des
1	0	0	70	12	12	0	0	0	18	5	0	85
2	25	0	0	0	0	115	0	0	0	6	1	21
3	26	0	0	56	50	0	0	0	0	0	52	0
4	0	5	0	0	0	0	21	18	0	0	3	1
5	0	25	0	0	0	65	0	0	0	0	0	0
6	0	25	25	71	0	0	0	0	0	4	25	0
7	0	100	29	41	0	18	0	35	0	0	0	0
8	0	0	0	0	2	0	0	0	44	0	0	0
9	25	0	0	9	0	0	0	0	0	3	19	0
10	27	14	0	0	18	0	37	0	14	0	32	0
11	0	0	0	0	0	0	0	0	0	0	0	1
12	0	13	0	19	90	0	78	0	0	0	77	0
13	0	0	25	0	6	0	0	0	0	0	4	0
14	60	25	0	1	0	0	0	28	0	0	0	0
15	0	0	0	0	11	0	146	0	0	0	1	0
16	0	0	0	11	0	1	0	21	6	0	0	0
17	125	0	15	0	0	31	259	0	0	0	0	0
18	25	12	25	0	0	57	0	2	0	22	5	0
19	50	0	0	0	0	0	0	0	0	0	23	0
20	50	0	19	0	26	0	18	19	0	0	20	0
21	50	0	0	0	0	0	0	137	22	3	35	0
22	0	0	0	33	15	24	43	0	0	1	42	0
23	0	0	0	32	0	0	0	0	0	27	0	0
24	0	0	0	10	0	0	78	0	0	37	12	0
25	0	0	0	25	0	0	0	0	41	0	0	0
26	0	0	0	0	49	0	0	0	0	0	0	0
27	0	0	50	0	0	0	29	0	0	0	21	0
28	0	75	52	0	0	0	0	2	0	0	0	0
29	0	30	0	22	27	0	36	0	0	24	15	0
30	0	31	0	0	0	0	0	0	0	4	0	0
31	0	0	0	0	111	0	79	25	0	0	0	0
Hujan Maximum	125	100	70	71	111	115	259	137	44	37	77	85
Hujan Rata	15	11	11	11	13	10	27	9	5	4	13	3
Hujan Minimum	0	0	0	0	0	0	0	0	0	0	0	0
Jml Curah Hujan	463	324	341	342	417	311	824	287	145	136	387	108
Jml.Hari Hujan	10	10	10	14	12	7	11	9	6	11	17	4
Hujan (1-15)	163	207	149	209	189	198	282	81	76	18	214	108
Hujan (16-31)	300	117	192	133	228	113	542	206	69	118	173	0
Hari (1-15)	5	7	4	8	7	3	4	3	3	4	9	4
Hari (16-31)	5	3	6	6	5	4	7	6	3	7	8	0

2017												
Tanggal	Bulan											
	Jan	Feb	Mar	Apr	Mei	Jun	Jul	Ags	Sep	Okt	Nop	Des
1	1	0	0	0	0	0	0	0	0	5	78	0
2	0	0	23	1	0	0	6	0	0	0	0	0
3	0	0	40	0	16	0	0	0	56	6	0	11
4	0	0	0	0	0	25	0	0	0	0	0	0
5	0	0	84	0	0	0	0	0	0	28	7	0
6	0	0	0	0	0	0	29	8	0	0	0	0
7	0	0	30	3	80	0	0	0	0	0	25	0
8	3	0	0	0	0	0	0	48	0	9	40	0
9	0	0	0	0	0	0	39	41	0	0	20	2
10	0	0	0	18	0	0	39	30	35	0	0	3
11	0	0	0	0	32	9	16	16	0	6	4	0
12	0	2	15	0	0	0	0	0	0	0	30	0
13	0	0	0	22	9	0	0	15	0	0	37	0
14	0	0	5	0	5	0	0	0	0	0	25	0
15	41	0	0	0	92	0	17	0	0	53	56	7
16	0	0	0	17	0	0	6	0	0	0	28	0
17	0	4	25	0	0	73	0	0	46	0	10	19
18	0	0	0	0	0	2	0	5	0	0	12	19
19	0	16	2	50	0	0	0	0	0	0	13	0
20	0	0	0	0	0	0	0	5	17	0	0	0
21	0	0	0	0	9	0	0	23	21	0	0	0
22	10	6	0	0	0	0	0	19	0	19	20	0
23	0	0	0	16	0	0	5	0	0	0	25	0
24	0	0	54	0	21	0	0	0	52	0	10	16
25	0	13	0	14	0	0	0	0	0	0	15	0
26	0	13	12	0	0	0	0	0	0	0	25	0
27	28	0	0	10	41	0	0	10	15	0	7	24
28	0	19	43	0	12	0	0	0	0	0	8	0
29	0	0	6	0	95	0	0	9	23	5	0	0
30	12	0	5	0	0	6	2	0	0	0	11	0
31	0	33	0	0	0	0	0	0	0	0	0	0
Hujan Maximum	41	19	84	50	92	95	39	48	56	53	78	24
Hujan Rata	3	3	12	5	10	7	5	7	8	5	17	4
Hujan Minimum	0	0	0	0	0	0	0	0	0	0	0	0
Jml Curah Hujan	95	73	366	163	317	204	163	222	251	149	500	112
Jml.Hari Hujan	6	7	12	11	10	5	9	12	8	8	22	9
Hujan (1-15)	45	2	197	44	234	34	146	158	91	107	322	23
Hujan (16-31)	50	71	169	118	83	170	17	64	160	42	178	89
Hari (1-15)	3	1	6	4	6	2	6	6	2	6	10	4
Hari (16-31)	3	6	6	7	4	3	3	6	6	2	12	5

2018												
Tanggal	Bulan											
	Jan	Feb	Mar	Apr	Mei	Jun	Jul	Ags	Sep	Okt	Nop	Des
1	18	0	0	0	0	0	0	0	0	0	0	40
2	17	0	48	0	0	0	16	0	42	0	16	0
3	0	0	38	0	0	25	0	0	0	0	18	10
4	0	0	50	0	0	0	0	0	32	0	20	0
5	0	0	0	0	2	0	0	12	0	0	0	41
6	0	0	85	0	27	0	0	0	0	0	0	0
7	20	0	78	0	10	0	0	0	0	0	31	40
8	0	0	8	6	0	0	0	0	0	0	0	0
9	0	0	48	0	0	0	12	0	50	1	4	16
10	0	0	10	0	0	2	0	0	0	7	6	14
11	10	25	13	0	0	0	27	0	0	0	40	20
12	15	0	0	0	0	0	0	2	0	16	20	20
13	16	0	0	0	9	0	0	0	0	0	40	21
14	7	0	8	0	0	10	48	0	0	41	0	0
15	0	0	0	6	0	0	0	0	0	0	8	0
16	0	0	0	0	0	0	0	0	0	20	0	0
17	0	0	0	0	50	0	0	0	0	4	14	14
18	0	58	23	52	0	0	0	0	0	0	0	0
19	0	0	25	0	0	0	0	46	0	0	20	0
20	0	0	0	2	46	0	0	0	34	14	40	0
21	0	0	0	0	0	0	0	0	0	20	0	0
22	0	0	0	51	0	0	24	0	0	0	4	0
23	0	12	12	0	76	0	0	0	15	21	20	12
24	0	0	0	25	0	0	0	0	0	0	0	0
25	0	0	31	0	0	0	0	0	0	0	40	0
26	0	0	32	0	0	0	0	12	0	0	21	0
27	0	0	0	0	2	0	52	0	0	12	0	0
28	0	0	0	0	0	0	0	15	0	4	0	0
29	0	2	27	0	16	0	0	0	28	0	0	0
30	0	0	0	0	0	0	0	0	14	0	0	0
31	0	0	0	0	0	0	0	0	40	0	0	6
Hujan Maximum	20	58	85	52	76	25	52	46	50	41	40	41
Hujan Rata	3	3	16	6	7	2	6	3	6	8	12	8
Hujan Minimum	0	0	0	0	0	0	0	0	0	0	0	0
Jml Curah Hujan	103	95	511	169	222	53	179	87	173	244	362	253
Jml.Hari Hujan	7	3	16	7	8	4	6	5	5	14	17	12
Hujan (1-15)	103	25	386	12	48	37	103	14	124	65	203	221
Hujan (16-31)	0	70	125	157	174	16	76	73	49	178	159	32
Hari (1-15)	7	1	10	2	4	3	4	2	3	4	10	9
Hari (16-31)	0	2	6	5	4	1	2	3	2	10	7	3

2019												
Tanggal	Bulan											
	Jan	Feb	Mar	Apr	Mei	Jun	Jul	Ags	Sep	Okt	Nop	Des
1	0	0	41	0	0	0	0	0	0	10	0	0
2	0	0	0	4	0	20	0	0	0	0	0	0
3	0	4	8	0	0	0	0	0	0	0	6	60
4	0	8	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	20	0	0	0	0	0	0	4
6	10	81	0	40	0	0	0	12	0	0	0	0
7	20	0	20	20	0	0	40	0	0	0	0	8
8	16	20	0	0	0	0	18	0	0	0	0	6
9	0	0	0	0	0	40	0	0	0	0	0	8
10	20	0	20	0	0	60	0	0	0	0	0	0
11	21	0	0	0	0	0	0	0	0	20	0	9
12	0	80	0	80	12	18	0	0	0	0	0	8
13	0	0	20	0	0	0	0	0	0	0	0	18
14	20	0	0	0	0	0	0	0	0	0	0	0
15	40	20	0	0	0	0	0	0	0	0	40	0
16	0	0	0	0	0	0	0	0	0	0	0	40
17	0	8	0	60	0	0	0	0	0	0	0	20
18	0	0	10	0	0	0	0	0	0	20	9	4
19	0	0	0	0	120	0	0	0	0	0	0	12
20	0	41	0	0	0	0	0	0	0	20	10	0
21	14	0	0	14	14	0	6	0	0	12	21	12
22	40	0	81	0	0	0	0	0	0	0	10	16
23	0	0	0	0	0	40	0	0	0	0	21	4
24	0	14	16	101	0	0	0	40	0	12	40	40
25	10	0	0	0	0	0	0	0	0	20	8	8
26	0	21	0	0	0	0	0	4	0	17	20	20
27	0	0	0	0	0	0	0	16	0	12	8	8
28	0	0	0	20	0	0	16	10	20	0	20	20
29	0	0	0	0	0	0	0	0	8	0	0	0
30	0	0	0	21	4	0	100	0	0	0	0	0
31	0	60	0	0	0	0	0	0	0	0	16	16
Hujan Maximum	40	81	81	101	120	60	40	100	40	20	40	60
Hujan Rata	7	11	9	11	6	6	3	5	2	3	6	11
Hujan Minimum	0	0	0	0	0	0	0	0	0	0	0	0
Jml Curah Hujan	211	297	276	340	187	183	80	142	68	102	178	343
Jml.Hari Hujan	10	10	9	8	5	6	4	5	3	6	11	21
Hujan (1-15)	147	213	109	145	32	138	58	12	0	30	46	121
Hujan (16-31)	64	83	167	195	155	44	22	130	68	72	132	221
Hari (1-15)	7	6	5	4	2	4	2	1	0	2	2	8
Hari (16-31)	3	4	4	4	3	2	2	4	3	4	9	13

Lampiran 4

Data Klimatologi Stasiun Meteorologi Depati Parbo

Tahun	Rata Rata Suhu Udara (°C)																							
	JANUARI		FEBRUARI		MARET		APRIL		MEI		JUNI		JULI		AGUSTUS		SEPTEMBER		OKTOBER		NOVEMBER		DESEMBER	
	I	II	I	II	I	II	I	II	I	II	I	II	I	II	I	II	I	II	I	II	I	II	I	II
2010	22.0	22.0	22.7	22.9	22.6	22.9	23.2	23.1	23.3	23.6	23.3	22.6	22.2	22.0	22.1	22.5	22.4	22.4	22.6	22.0	22.2	22.5	22.2	21.3
2011	22.1	21.8	21.6	22.3	22.5	22.6	22.6	22.3	23.0	22.6	22.7	22.8	21.7	22.4	22.4	22.2	22.0	21.6	22.3	22.3	21.9	22.5	22.6	22.4
2012	22.6	21.7	22.4	22.6	22.2	22.2	22.2	22.2	22.9	22.5	22.5	22.5	22.1	22.6	21.9	22.1	22.4	22.3	22.6	22.4	22.5	22.9	22.9	22.7
2013	22.9	22.5	22.4	22.3	22.6	22.9	22.7	23.0	0.0	0.0	22.7	22.8	22.2	22.1	22.2	22.2	22.1	22.4	22.1	22.7	22.2	22.1	22.6	21.9
2014	22.4	21.8	22.9	22.1	22.6	23.0	22.8	23.0	23.2	23.1	23.2	22.4	22.6	22.2	22.3	22.4	22.1	21.9	22.3	22.6	22.6	22.8	22.5	22.7
2015	21.8	22.3	21.8	22.2	22.5	0.0	0.0	22.8	22.3	0.0	0.0	23.5	22.7	22.8	22.4	22.3	22.2	22.8	22.0	22.9	22.8	23.2	22.9	22.8
2016	23.1	23.1	23.3	22.3	23.2	23.3	23.7	23.6	23.4	23.4	23.1	22.0	23.1	22.4	22.7	23.3	22.5	23.2	23.0	23.5	22.9	23.1	22.2	23.5
2017	22.5	22.2	22.1	22.3	22.5	22.6	22.9	23.1	23.3	23.5	23.0	22.2	22.5	22.8	22.5	22.3	23.1	22.7	22.5	23.4	22.9	22.8	22.4	22.5
2018	21.8	22.1	22.4	22.4	23.1	22.7	23.0	23.5	22.8	23.1	23.2	22.3	22.2	22.2	22.3	22.2	22.1	22.6	22.8	22.4	22.9	23.2	22.9	22.7
2019	22.5	22.7	22.7	22.6	22.4	22.9	23.1	23.1	23.0	23.1	23.1	23.4	22.6	22.1	22.4	22.6	22.4	22.9	23.0	22.9	23.1	23.2	22.9	22.7
RATA-RATA	22.4	22.2	22.4	22.4	22.6	20.5	20.6	23.0	20.7	18.5	20.7	22.7	22.4	22.4	22.3	22.4	22.3	22.5	22.5	22.7	22.6	22.8	22.6	22.5

Tahun	Rata Rata Kelembaban Relatif (%)																							
	JANUARI		FEBRUARI		MARET		APRIL		MEI		JUNI		JULI		AGUSTUS		SEPTEMBER		OKTOBER		NOVEMBER		DESEMBER	
	I	II	I	II	I	II	I	II	I	II	I	II	I	II	I	II	I	II	I	II	I	II	I	II
2010	85.7	85.7	85.4	85.8	86.2	83.4	84.7	83.3	84.9	82.9	84.1	86.1	85.6	86.5	86.9	84.4	82.2	84.9	83.5	82.1	85.0	86.7	79.7	79.2
2011	80.9	84.1	82.9	83.2	84.1	81.3	80.6	85.9	79.1	84.8	83.0	79.7	78.9	79.8	81.5	81.0	83.1	83.9	80.2	84.1	82.7	85.0	84.7	83.6
2012	82.5	77.5	83.5	84.2	81.4	79.2	84.3	82.3	81.2	84.6	82.5	82.6	83.5	81.5	82.5	82.2	81.1	80.1	81.8	85.6	86.5	84.1	84.5	84.2
2013	77.6	86.1	89.5	81.8	81.9	85.9	82.7	83.4	0.0	0.0	79.7	76.1	82.4	81.3	79.4	80.0	84.8	82.0	84.7	80.8	86.1	83.1	83.1	82.1
2014	85.4	86.0	80.5	83.4	84.1	85.8	83.3	85.9	85.9	85.2	82.8	78.8	81.8	77.6	83.5	84.9	81.4	82.3	80.4	81.6	83.2	85.9	82.1	82.3
2015	81.1	86.3	87.6	86.2	79.2	0.0		84.0	81.0	0.0	0.0	86.0	86.5	81.7	82.1	81.3	78.3	79.7	78.6	75.7	85.3	84.5	87.0	83.8
2016	87.7	85.0	83.1	86.5	87.4	85.5	85.1	85.9	87.0	85.1	85.6	79.8	77.4	83.6	80.8	80.6	83.3	78.7	80.3	79.9	85.7	84.8	85.4	76.0
2017	80.0	82.6	82.9	86.8	82.3	81.0	82.3	83.1	84.5	84.3	80.6	83.8	83.7	80.4	83.5	83.8	81.6	83.1	84.9	77.8	84.7	85.6	81.9	83.9
2018	79.7	75.1	80.9	85.6	84.3	81.8	83.5	84.1	84.7	85.1	83.4	83.5	83.0	84.3	81.8	84.3	81.4	81.9	82.9	85.8	84.7	82.1	83.9	76.3
2019	85.1	82.1	85.2	86.4	83.7	81.8	82.7	84.8	80.5	81.7	85.0	81.1	81.7	79.2	78.1	77.6	78.0	76.3	73.7	79.8	76.8	81.5	85.3	86.5
RATA-RATA	82.6	83.1	84.1	85.0	83.5	74.6	83.3	84.3	74.9	67.4	74.7	81.8	82.5	81.6	82.0	82.0	81.5	81.3	81.1	81.3	84.1	84.3	83.8	81.8

Tahun	Rata Rata Kecepatan Angin (m/det)																							
	JANUARI		FEBRUARI		MARET		APRIL		MEI		JUNI		JULI		AGUSTUS		SEPTEMBER		OKTOBER		NOVEMBER		DESEMBER	
	I	II	I	II	I	II	I	II	I	II	I	II	I	II	I	II	I	II	I	II	I	II	I	II
2010	3.1	3.5	3.3	3.3	3.4	3.7	3.1	3.2	3.9	3.5	3.6	3.0	3.4	3.0	3.5	3.3	3.2	3.4	3.9	3.5	4.3	3.4	4.8	4.3
2011	4.6	3.7	3.8	3.7	3.7	6.5	4.5	4.4	4.9	4.4	4.2	4.1	5.1	3.4	4.6	4.6	4.4	4.2	4.4	5.1	4.6	4.6	3.8	4.4
2012	4.1	5.1	3.9	3.8	4.5	5.2	4.0	3.5	3.6	3.5	3.7	4.2	3.6	3.7	4.1	3.8	2.4	2.8	3.7	4.0	3.4	2.9	2.1	3.1
2013	4.4	3.2	3.4	4.5	3.5	3.3	3.4	4.2	0.0	0.0	18.5	35.9	3.2	3.5	17.1	18.4	3.5	3.6	3.8	3.8	3.2	3.5	3.5	3.3
2014	2.7	3.2	3.6	3.4	3.6	3.1	2.7	2.9	3.3	2.8	3.0	3.1	3.2	3.0	3.1	2.9	3.0	3.4	3.3	3.1	3.5	3.1	3.1	3.5
2015	2.5	1.8	1.6	1.3	1.3	1.3	1.0	1.4	1.3	1.0	0.9	1.0	1.1	2.0	1.4	1.8	1.9	1.7	1.6	1.9	1.3	1.5	1.5	1.6
2016	1.5	1.5	1.4	1.5	1.4	1.6	1.5	1.5	1.2	1.2	1.1	1.7	1.4	1.6	1.9	2.2	1.2	2.1	2.5	1.6	1.3	1.5	2.7	2.6
2017	3.7	1.8	2.5	1.5	1.6	1.4	2.0	1.3	1.5	1.4	1.5	1.3	1.5	1.3	1.5	1.7	1.8	1.5	1.4	1.7	1.5	2.1	2.4	1.7
2018	1.7	3.1	1.5	1.0	1.2	1.4	1.5	1.1	1.5	1.4	1.2	1.1	1.3	1.0	1.4	1.6	1.7	0.8	1.5	1.1	1.5	1.7	1.3	2.4
2019	1.7	1.4	1.1	1.2	1.3	1.4	1.4	1.4	1.2	1.4	0.9	1.3	1.2	1.3	1.4	1.5	1.2	1.5	1.8	1.6	1.2	1.5	1.2	1.1
RATA-RATA	3.0	2.8	2.6	2.5	2.5	2.9	2.5	2.5	2.2	2.1	3.9	5.7	2.5	2.4	4.0	4.2	2.4	2.5	2.8	2.7	2.6	2.6	2.6	2.8

Tahun	Rata Rata Penyinaran Matahari (%)																							
	JANUARI		FEBRUARI		MARET		APRIL		MEI		JUNI		JULI		AGUSTUS		SEPTEMBER		OKTOBER		NOVEMBER		DESEMBER	
	I	II	I	II	I	II	I	II	I	II	I	II	I	II	I	II	I	II	I	II	I	II	I	II
2010	27.7	45.9	38.0	31.5	28.2	38.8	63.7	55.3	59.0	70.3	51.3	34.7	41.7	45.6	46.3	45.3	64.7	54.3	53.7	58.4	35.0	56.2	47.3	41.9
2011	51.3	40.9	58.2	50.8	40.3	34.4	45.3	36.0	75.7	49.1	42.0	64.0	62.0	52.5	50.7	50.6	41.3	28.3	46.1	46.9	34.3	28.3	27.7	25.5
2012	37.7	61.6	48.3	47.1	33.0	58.1	40.7	67.1	53.0	41.3	52.7	63.7	37.7	66.3	56.6	50.3	45.0	52.7	41.3	37.8	31.0	42.7	31.3	23.8
2013	36.3	48.0	36.3	40.0	45.3	44.1	49.7	47.7	0.0	0.0	58.7	55.5	30.5	17.2	63.1	67.6	39.3	44.0	4.8	4.9	46.3	49.8	51.8	33.1
2014	37.9	39.2	58.3	43.8	46.0	43.8	38.0	50.0	46.7	41.6	66.4	70.3	40.0	16.6	37.7	48.4	68.3	71.0	45.2	43.7	42.5	40.5	38.0	23.0
2015	39.8	32.5	24.1	37.6	37.8	33.1	18.1	23.6	39.9	40.2	23.8	29.3	30.5	47.0	34.5	49.4	34.6	16.3	21.7	21.7	30.0	26.8	44.6	46.3
2016	34.9	34.5	38.5	33.9	34.5	38.2	44.9	32.0	32.6	39.8	48.5	38.0	83.0	46.8	38.0	53.9	37.8	40.4	23.8	32.9	37.1	26.4	20.8	15.2
2017	19.1	29.1	32.6	23.2	41.2	30.8	19.7	47.8	56.3	51.3	53.3	29.4	46.6	58.9	53.7	40.9	77.6	43.0	43.2	71.2	45.1	39.3	48.1	42.8
2018	34.9	72.7	67.8	62.2	35.2	58.0	62.1	20.3	59.2	49.8	69.3	49.6	69.3	77.4	56.0	52.3	48.6	57.1	43.0	45.5	31.3	42.3	51.7	32.8
2019	49.9	51.5	64.2	41.6	61.1	56.6	74.2	62.3	99.6	76.0	57.6	62.2	74.2	65.5	88.3	84.5	86.8	69.2	85.2	45.6	53.8	48.5	32.6	35.0
RATA-RATA	37.0	45.6	46.6	41.2	40.3	43.6	45.6	44.2	52.2	45.9	52.4	49.7	51.5	49.4	52.5	54.3	54.4	47.6	40.8	40.9	38.6	40.1	39.4	31.9