

BAB.V

KESIMPULAN dan SARAN

5.1 Kesimpulan

Dari hasil perhitungan dan analisa pada bab sebelumnya dapat ditarik kesimpulan antara lain:

1. Metode *Fuzzy* Tsukamoto dan *Fuzzy* Mamdani terbukti mampu digunakan dalam merencanakan produksi yang lebih baik dibandingkan perencanaan produksi yang ada sebelumnya.
2. Metode *Fuzzy* Mamdani terbukti lebih efektif dalam perencanaan produksi dibandingkan metode *Fuzzy* Tsukamoto dengan efektifitas penurunan roti sisa sebesar 59.46% untuk roti smear dan 55.41% untuk cake potong dan dibanding dengan *Fuzzy* Tsukamoto yang hanya sebesar 37.19% untuk roti smear dan 28.84% untuk cake potong.

5.2 Saran

1. Perusahaan sebaiknya memperhatikan adanya perencanaan produksi, agar dapat meminimalis jumlah roti sisa dan hal itu dapat menurunkan tingkat kerugian yang diterima perusahaan akibat dari roti sisa.
2. Dalam merencanakan produksi dapat menggunakan metode *Fuzzy* Mamdani yang telah terbukti mampu menurunkan jumlah roti sisa.

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Lampiran 1. Data Permintaan Roti

Tanggal	permintaan roti					
	roti smeer	roti piscok	roti piscokju	cake potong	brownies potong	rainbow cake
1-Sep-14	300	125	103	142	76	48
2-Sep-14	238	105	82	293	70	120
3-Sep-14	314	67	115	313	94	52
4-Sep-14	352	82	113	314	113	74
5-Sep-14	310	140	99	302	93	83
6-Sep-14	275	80	66	286	43	94
7-Sep-14	324	114	110	205	78	78
8-Sep-14	193	92	76	238	114	96
9-Sep-14	230	72	64	153	92	63
10-Sep-14	305	68	72	205	110	111
11-Sep-14	285	100	78	291	61	127
12-Sep-14	276	74	54	202	88	75
13-Sep-14	431	67	105	315	78	114
14-Sep-14	317	83	57	143	61	80
15-Sep-14	274	104	66	253	107	76
16-Sep-14	209	46	97	357	125	122
17-Sep-14	262	76	84	193	80	87
18-Sep-14	310	83	95	163	88	77
19-Sep-14	284	58	48	139	80	57
20-Sep-14	343	113	80	245	102	109
21-Sep-14	374	133	102	224	78	65
22-Sep-14	200	40	80	236	73	94
23-Sep-14	241	59	56	212	55	123
24-Sep-14	179	92	72	194	84	94
25-Sep-14	254	56	64	308	69	64
26-Sep-14	355	74	106	196	85	95
27-Sep-14	493	140	121	187	100	109
28-Sep-14	372	83	109	361	125	93
29-Sep-14	250	86	126	304	89	80
30-Sep-14	245	133	78	368	52	105
1-Oct-14	284	50	62	246	67	92
2-Oct-14	263	47	88	323	85	60
3-Oct-14	240	82	130	431	79	53
4-Oct-14	325	77	81	289	86	76
5-Oct-14	285	120	106	290	110	60
6-Oct-14	265	47	110	203	70	131

Tanggal	permintaan roti					
	roti smear	roti piscok	roti piscokju	cake potong	brownies potong	rainbow cake
7-Oct-14	242	91	58	327	55	125
8-Oct-14	258	106	118	255	64	88
9-Oct-14	522	72	80	217	79	115
10-Oct-14	368	109	109	406	41	64
11-Oct-14	371	101	76	315	72	115
12-Oct-14	334	65	70	254	50	81
13-Oct-14	443	80	100	325	33	103
14-Oct-14	285	147	86	320	86	111
15-Oct-14	251	55	98	231	90	53
16-Oct-14	142	85	69	169	45	107
17-Oct-14	344	100	94	260	105	123
18-Oct-14	408	122	114	152	70	109
19-Oct-14	353	94	130	216	46	125
20-Oct-14	340	146	80	320	68	106
21-Oct-14	175	58	76	416	110	151
22-Oct-14	369	71	80	211	97	126
23-Oct-14	210	81	95	137	79	116
24-Oct-14	266	147	110	296	38	78
25-Oct-14	452	46	125	179	112	100
26-Oct-14	353	94	113	190	100	80
27-Oct-14	264	114	62	158	31	63
28-Oct-14	233	96	121	189	100	65
29-Oct-14	210	76	62	166	69	141
30-Oct-14	272	125	79	403	50	67
31-Oct-14	214	95	69	312	61	92
1-Nov-14	392	128	85	297	100	73
2-Nov-14	295	124	94	377	87	86
3-Nov-14	194	63	108	260	118	148
4-Nov-14	423	97	73	324	36	129
5-Nov-14	430	138	97	297	85	55
6-Nov-14	182	133	83	153	69	139
7-Nov-14	375	149	46	203	64	54
8-Nov-14	361	46	50	361	94	88
9-Nov-14	361	69	91	432	83	51
10-Nov-14	277	100	80	202	60	55
11-Nov-14	252	65	107	417	81	132
12-Nov-	284	78	97	241	70	142

Tanggal	permintaan roti					
	roti smear	roti piscok	roti piscokju	cake potong	brownies potong	rainbow cake
14						
13-Nov-14	210	63	77	216	35	54
14-Nov-14	418	54	69	221	59	132
15-Nov-14	267	51	45	370	109	110
16-Nov-14	362	74	61	275	54	121
17-Nov-14	298	49	66	225	70	66
18-Nov-14	395	57	75	165	78	97
19-Nov-14	381	61	69	245	58	75
20-Nov-14	202	82	110	283	91	102
21-Nov-14	273	142	88	184	87	121
22-Nov-14	185	50	90	211	86	79
23-Nov-14	493	56	74	339	100	75
24-Nov-14	319	70	108	182	76	98
25-Nov-14	239	81	51	399	96	74
26-Nov-14	448	83	98	262	70	120
27-Nov-14	302	57	85	205	86	94
28-Nov-14	433	40	84	185	62	82
29-Nov-14	321	51	125	206	73	94
30-Nov-14	352	64	100	230	46	81

Lampiran 2. Data Permintaan dan Persediaan Roti Smeer dan Cake Potong

Tanggal	roti smear	cake potong	roti smear	cake potong	roti smear	cake potong	roti smear	cake potong
	produksi roti		persediaan roti		permintaan harga normal		sisa roti setiap hari	
1-Sep-14	432	320	160	102	300	142	292	280
2-Sep-14	360	192	292	280	238	293	414	179
3-Sep-14	180	192	414	179	314	313	280	58
4-Sep-14	216	256	280	58	352	314	144	0
5-Sep-14	216	480	144	0	310	302	50	178
6-Sep-14	360	256	50	178	275	286	135	148
7-Sep-14	432	256	135	148	324	205	243	199
8-Sep-14	252	256	243	199	193	238	302	217
9-Sep-14	288	256	302	217	230	153	360	320
10-Sep-14	180	128	360	320	305	205	235	243
11-Sep-14	180	128	235	243	285	291	130	80
12-Sep-14	360	384	130	80	276	202	214	262
13-Sep-14	288	224	214	262	431	315	71	171
14-Sep-14	432	192	71	171	317	143	186	220
15-Sep-14	360	224	186	220	274	253	272	191
16-Sep-14	216	192	272	191	209	357	279	26
17-Sep-14	216	288	279	26	262	193	233	121
18-Sep-14	216	256	233	121	310	163	139	214
19-Sep-14	288	160	139	214	284	139	143	235
20-Sep-14	288	160	143	235	343	245	88	150
21-Sep-14	360	150	88	150	374	224	74	76
22-Sep-14	468	320	74	76	200	236	342	160
23-Sep-14	108	288	342	160	241	212	209	236
24-Sep-14	144	256	209	236	179	194	174	298
25-Sep-14	252	256	174	298	254	308	172	246
26-Sep-14	324	192	172	246	355	196	141	242
27-Sep-14	360	96	141	242	493	187	8	151
28-Sep-14	540	224	8	151	372	361	176	14
29-Sep-14	216	384	176	14	250	304	142	94
30-Sep-14	216	360	142	94	245	368	113	86
1-Oct-14	252	360	113	86	284	246	81	200
2-Oct-14	360	256	81	200	263	323	178	133
3-Oct-14	252	320	178	133	240	431	190	22
4-Oct-14	180	480	190	22	325	289	45	213
5-Oct-14	432	192	45	213	285	290	192	115

Tanggal	roti smeer	cake potong	roti smeer	cake potong	roti smeer	cake potong	roti smeer	cake potong
	produksi roti		persediaan roti		permintaan harga normal		sisa roti setiap hari	
6-Oct-14	360	224	192	115	265	203	287	136
7-Oct-14	216	224	287	136	242	327	261	33
8-Oct-14	360	480	261	33	258	255	363	258
9-Oct-14	288	256	363	258	522	217	129	297
10-Oct-14	360	160	129	297	368	406	121	51
11-Oct-14	360	320	121	51	371	315	110	56
12-Oct-14	360	384	110	56	334	254	136	186
13-Oct-14	432	320	136	186	443	325	125	181
14-Oct-14	432	320	125	181	285	320	272	181
15-Oct-14	252	160	272	181	251	231	273	110
16-Oct-14	216	256	273	110	142	169	347	197
17-Oct-14	216	160	347	197	344	260	219	97
18-Oct-14	216	288	219	97	408	152	27	233
19-Oct-14	540	192	27	233	353	216	214	209
20-Oct-14	360	192	214	209	340	320	234	81
21-Oct-14	288	384	234	81	175	416	347	49
22-Oct-14	252	384	347	49	369	211	230	222
23-Oct-14	252	192	230	222	210	137	272	277
24-Oct-14	252	160	272	277	266	296	258	141
25-Oct-14	252	192	258	141	452	179	58	154
26-Oct-14	432	192	58	154	353	190	137	156
27-Oct-14	360	192	137	156	264	158	233	190
28-Oct-14	216	224	233	190	233	189	216	225
29-Oct-14	216	224	216	225	210	166	222	283
30-Oct-14	180	192	222	283	272	403	130	72
31-Oct-14	288	288	130	72	214	312	204	48
1-Nov-14	216	320	204	48	392	297	28	71
2-Nov-14	432	384	28	71	295	377	165	78
3-Nov-14	252	480	165	78	194	260	223	298
4-Nov-14	288	256	223	298	423	324	88	230
5-Nov-14	540	256	88	230	430	297	198	189
6-Nov-14	324	160	198	189	182	153	340	196
7-Nov-14	216	192	340	196	375	203	181	185
8-Nov-14	252	192	181	185	361	361	72	16
9-Nov-14	360	480	72	16	361	432	71	64
10-Nov-14	360	416	71	64	277	202	154	278
11-Nov-14	360	256	154	278	252	417	262	117

Tanggal	roti smeer	cake potong	roti smeer	cake potong	roti smeer	cake potong	roti smeer	cake potong
	produksi roti		persediaan roti		permintaan harga normal		sisa roti setiap hari	
12-Nov-14	288	320	262	117	284	241	266	196
13-Nov-14	216	192	266	196	210	216	272	172
14-Nov-14	252	192	272	172	418	221	106	143
15-Nov-14	252	256	106	143	267	370	91	29
16-Nov-14	325	480	91	29	362	275	54	234
17-Nov-14	504	256	54	234	298	225	260	265
18-Nov-14	288	160	260	265	395	165	153	260
19-Nov-14	252	160	153	260	381	245	24	175
20-Nov-14	576	192	24	175	202	283	398	84
21-Nov-14	144	288	398	84	273	184	269	188
22-Nov-14	216	192	269	188	185	211	300	169
23-Nov-14	216	192	300	169	493	339	23	22
24-Nov-14	360	480	23	22	319	182	64	320
25-Nov-14	360	256	64	320	239	399	185	177
26-Nov-14	288	256	185	177	448	262	25	171
27-Nov-14	504	192	25	171	302	205	227	158
28-Nov-14	252	160	227	158	433	185	46	133
29-Nov-14	360	96	46	133	321	206	85	23
30-Nov-14	288	320	85	23	352	230	21	113

Lampiran 3. Agregasi Data Permintaan

Tanggal	harga jual						total harga jual
	roti smear	roti piscok	roti piscokju	cake potong	brownies potong	rainbow cake	
1-Sep-14	450000	562500	515000	284000	190000	144000	2145500
2-Sep-14	357000	472500	410000	586000	175000	360000	2360500
3-Sep-14	471000	301500	575000	626000	235000	156000	2364500
4-Sep-14	528000	369000	565000	628000	282500	222000	2594500
5-Sep-14	465000	630000	495000	604000	232500	249000	2675500
6-Sep-14	412500	360000	330000	572000	107500	282000	2064000
7-Sep-14	486000	513000	550000	410000	195000	234000	2388000
8-Sep-14	289500	414000	380000	476000	285000	288000	2132500
9-Sep-14	345000	324000	320000	306000	230000	189000	1714000
10-Sep-14	457500	306000	360000	410000	275000	333000	2141500
11-Sep-14	427500	450000	390000	582000	152500	381000	2383000
12-Sep-14	414000	333000	270000	404000	220000	225000	1866000
13-Sep-14	646500	301500	525000	630000	195000	342000	2640000
14-Sep-14	475500	373500	285000	286000	152500	240000	1812500
15-Sep-14	411000	468000	330000	506000	267500	228000	2210500
16-Sep-14	313500	207000	485000	714000	312500	366000	2398000
17-Sep-14	393000	342000	420000	386000	200000	261000	2002000
18-Sep-14	465000	373500	475000	326000	220000	231000	2090500
19-Sep-14	426000	261000	240000	278000	200000	171000	1576000
20-Sep-14	514500	508500	400000	490000	255000	327000	2495000
21-Sep-14	561000	598500	510000	448000	195000	195000	2507500
22-Sep-14	300000	180000	400000	472000	182500	282000	1816500
23-Sep-14	361500	265500	280000	424000	137500	369000	1837500
24-Sep-14	268500	414000	360000	388000	210000	282000	1922500
25-Sep-14	381000	252000	320000	616000	172500	192000	1933500
26-Sep-14	532500	333000	530000	392000	212500	285000	2285000
27-Sep-14	739500	630000	605000	374000	250000	327000	2925500
28-Sep-14	558000	373500	545000	722000	312500	279000	2790000
29-Sep-14	375000	387000	630000	608000	222500	240000	2462500
30-Sep-14	367500	598500	390000	736000	130000	315000	2537000
1-Oct-14	426000	225000	310000	492000	167500	276000	1896500
2-Oct-14	394500	211500	440000	646000	212500	180000	2084500
3-Oct-14	360000	369000	650000	862000	197500	159000	2597500
4-Oct-14	487500	346500	405000	578000	215000	228000	2260000
5-Oct-14	427500	540000	530000	580000	275000	180000	2532500
6-Oct-14	397500	211500	550000	406000	175000	393000	2133000

Tanggal	harga jual						total harga jual
	roti smear	roti piscok	roti piscokju	cake potong	brownies potong	rainbow cake	
7-Oct-14	363000	409500	290000	654000	137500	375000	2229000
8-Oct-14	387000	477000	590000	510000	160000	264000	2388000
9-Oct-14	783000	324000	400000	434000	197500	345000	2483500
10-Oct-14	552000	490500	545000	812000	102500	192000	2694000
11-Oct-14	556500	454500	380000	630000	180000	345000	2546000
12-Oct-14	501000	292500	350000	508000	125000	243000	2019500
13-Oct-14	664500	360000	500000	650000	82500	309000	2566000
14-Oct-14	427500	661500	430000	640000	215000	333000	2707000
15-Oct-14	376500	247500	490000	462000	225000	159000	1960000
16-Oct-14	213000	382500	345000	338000	112500	321000	1712000
17-Oct-14	516000	450000	470000	520000	262500	369000	2587500
18-Oct-14	612000	549000	570000	304000	175000	327000	2537000
19-Oct-14	529500	423000	650000	432000	115000	375000	2524500
20-Oct-14	510000	657000	400000	640000	170000	318000	2695000
21-Oct-14	262500	261000	380000	832000	275000	453000	2463500
22-Oct-14	553500	319500	400000	422000	242500	378000	2315500
23-Oct-14	315000	364500	475000	274000	197500	348000	1974000
24-Oct-14	399000	661500	550000	592000	95000	234000	2531500
25-Oct-14	678000	207000	625000	358000	280000	300000	2448000
26-Oct-14	529500	423000	565000	380000	250000	240000	2387500
27-Oct-14	396000	513000	310000	316000	77500	189000	1801500
28-Oct-14	349500	432000	605000	378000	250000	195000	2209500
29-Oct-14	315000	342000	310000	332000	172500	423000	1894500
30-Oct-14	408000	562500	395000	806000	125000	201000	2497500
31-Oct-14	321000	427500	345000	624000	152500	276000	2146000
1-Nov-14	588000	576000	425000	594000	250000	219000	2652000
2-Nov-14	442500	558000	470000	754000	217500	258000	2700000
3-Nov-14	291000	283500	540000	520000	295000	444000	2373500
4-Nov-14	634500	436500	365000	648000	90000	387000	2561000
5-Nov-14	645000	621000	485000	594000	212500	165000	2722500
6-Nov-14	273000	598500	415000	306000	172500	417000	2182000
7-Nov-14	562500	670500	230000	406000	160000	162000	2191000
8-Nov-14	541500	207000	250000	722000	235000	264000	2219500
9-Nov-14	541500	310500	455000	864000	207500	153000	2531500
10-Nov-14	415500	450000	400000	404000	150000	165000	1984500
11-Nov-14	378000	292500	535000	834000	202500	396000	2638000
12-Nov-14	426000	351000	485000	482000	175000	426000	2345000
13-Nov-14	315000	283500	385000	432000	87500	162000	1665000

Tanggal	harga jual						total harga jual
	roti smear	roti piscok	roti piscokju	cake potong	brownies potong	rainbow cake	
14-Nov-14	627000	243000	345000	442000	147500	396000	2200500
15-Nov-14	400500	229500	225000	740000	272500	330000	2197500
16-Nov-14	543000	333000	305000	550000	135000	363000	2229000
17-Nov-14	447000	220500	330000	450000	175000	198000	1820500
18-Nov-14	592500	256500	375000	330000	195000	291000	2040000
19-Nov-14	571500	274500	345000	490000	145000	225000	2051000
20-Nov-14	303000	369000	550000	566000	227500	306000	2321500
21-Nov-14	409500	639000	440000	368000	217500	363000	2437000
22-Nov-14	277500	225000	450000	422000	215000	237000	1826500
23-Nov-14	739500	252000	370000	678000	250000	225000	2514500
24-Nov-14	478500	315000	540000	364000	190000	294000	2181500
25-Nov-14	358500	364500	255000	798000	240000	222000	2238000
26-Nov-14	672000	373500	490000	524000	175000	360000	2594500
27-Nov-14	453000	256500	425000	410000	215000	282000	2041500
28-Nov-14	649500	180000	420000	370000	155000	246000	2020500
29-Nov-14	481500	229500	625000	412000	182500	282000	2212500
30-Nov-14	528000	288000	500000	460000	115000	243000	2134000
total	41790000	35185500	39575000	47030000	17735000	25404000	206719500
prosentase roti	20.22%	17.02%	19.14%	22.75%	8.58%	12.29%	100.00%

Lampiran 4. Hasil Peramalan Metode *Trend Linear*

Tanggal	peramalan (D't)
1-Sep-14	2274832.78
2-Sep-14	2274761.89
3-Sep-14	2274691.00
4-Sep-14	2274620.11
5-Sep-14	2274549.23
6-Sep-14	2274478.34
7-Sep-14	2274407.45
8-Sep-14	2274336.57
9-Sep-14	2274265.68
10-Sep-14	2274194.79
11-Sep-14	2274123.91
12-Sep-14	2274053.02
13-Sep-14	2273982.13
14-Sep-14	2273911.24
15-Sep-14	2273840.36
16-Sep-14	2273769.47
17-Sep-14	2273698.58
18-Sep-14	2273627.70
19-Sep-14	2273556.81
20-Sep-14	2273485.92
21-Sep-14	2273415.03
22-Sep-14	2273344.15
23-Sep-14	2273273.26
24-Sep-14	2273202.37
25-Sep-14	2273131.49
26-Sep-14	2273060.60
27-Sep-14	2272989.71
28-Sep-14	2272918.82
29-Sep-14	2272847.94
30-Sep-14	2272777.05
1-Oct-14	2272706.16
2-Oct-14	2272635.28
3-Oct-14	2272564.39
4-Oct-14	2272493.50
5-Oct-14	2272422.62
6-Oct-14	2272351.73
7-Oct-14	2272280.84

Tanggal	peramalan
8-Oct-14	2272209.95
9-Oct-14	2272139.07
10-Oct-14	2272068.18
11-Oct-14	2271997.29
12-Oct-14	2271926.41
13-Oct-14	2271855.52
14-Oct-14	2271784.63
15-Oct-14	2271713.74
16-Oct-14	2271642.86
17-Oct-14	2271571.97
18-Oct-14	2271501.08
19-Oct-14	2271430.20
20-Oct-14	2271359.31
21-Oct-14	2271288.42
22-Oct-14	2271217.53
23-Oct-14	2271146.65
24-Oct-14	2271075.76
25-Oct-14	2271004.87
26-Oct-14	2270933.99
27-Oct-14	2270863.10
28-Oct-14	2270792.21
29-Oct-14	2270721.33
30-Oct-14	2270650.44
31-Oct-14	2270579.55
1-Nov-14	2270508.66
2-Nov-14	2270437.78
3-Nov-14	2270366.89
4-Nov-14	2270296.00
5-Nov-14	2270225.12
6-Nov-14	2270154.23
7-Nov-14	2270083.34
8-Nov-14	2270012.45
9-Nov-14	2269941.57
10-Nov-14	2269870.68
11-Nov-14	2269799.79
12-Nov-14	2269728.91
13-Nov-14	2269658.02
14-Nov-14	2269587.13

Tanggal	peramalan
15-Nov-14	2269516.24
16-Nov-14	2269445.36
17-Nov-14	2269374.47
18-Nov-14	2269303.58
19-Nov-14	2269232.70
20-Nov-14	2269161.81
21-Nov-14	2269090.92
22-Nov-14	2269020.04

Tanggal	peramalan
23-Nov-14	2268949.15
24-Nov-14	2268878.26
25-Nov-14	2268807.37
26-Nov-14	2268736.49
27-Nov-14	2268665.60
28-Nov-14	2268594.71
29-Nov-14	2268523.83
30-Nov-14	2268452.94

Lampiran 5. Perhitungan MR

tanggal	permintaan (Dt)	peramalan (D't)	d't-dt	(d't-1)-(dt-1)	MR	UJI KELAYAKAN	
						BKA	BKB
1-Sep-14	2145500	2274832.78	129332.78			LAYAK	LAYAK
2-Sep-14	2360500	2274761.89	-85738.11	129332.78	215070.8871	LAYAK	LAYAK
3-Sep-14	2364500	2274691.00	-89809.00	-85738.11	4070.887084	LAYAK	LAYAK
4-Sep-14	2594500	2274620.11	-319879.89	-89809.00	230070.8871	LAYAK	LAYAK
5-Sep-14	2675500	2274549.23	-400950.77	-319879.89	81070.88708	LAYAK	LAYAK
6-Sep-14	2064000	2274478.34	210478.34	-400950.77	611429.1129	LAYAK	LAYAK
7-Sep-14	2388000	2274407.45	-113592.55	210478.34	324070.8871	LAYAK	LAYAK
8-Sep-14	2132500	2274336.57	141836.57	-113592.55	255429.1129	LAYAK	LAYAK
9-Sep-14	1714000	2274265.68	560265.68	141836.57	418429.1129	LAYAK	LAYAK
10-Sep-14	2141500	2274194.79	132694.79	560265.68	427570.8871	LAYAK	LAYAK
11-Sep-14	2383000	2274123.91	-108876.09	132694.79	241570.8871	LAYAK	LAYAK
12-Sep-14	1866000	2274053.02	408053.02	-108876.09	516929.1129	LAYAK	LAYAK
13-Sep-14	2640000	2273982.13	-366017.87	408053.02	774070.8871	LAYAK	LAYAK
14-Sep-14	1812500	2273911.24	461411.24	-366017.87	827429.1129	LAYAK	LAYAK
15-Sep-14	2210500	2273840.36	63340.36	461411.24	398070.8871	LAYAK	LAYAK
16-Sep-14	2398000	2273769.47	-124230.53	63340.36	187570.8871	LAYAK	LAYAK
17-Sep-14	2002000	2273698.58	271698.58	-124230.53	395929.1129	LAYAK	LAYAK
18-Sep-14	2090500	2273627.70	183127.70	271698.58	88570.88708	LAYAK	LAYAK
19-Sep-14	1576000	2273556.81	697556.81	183127.70	514429.1129	LAYAK	LAYAK
20-Sep-14	2495000	2273485.92	-221514.08	697556.81	919070.8871	LAYAK	LAYAK
21-Sep-14	2507500	2273415.03	-234084.97	-221514.08	12570.88708	LAYAK	LAYAK
22-Sep-14	1816500	2273344.15	456844.15	-234084.97	690929.1129	LAYAK	LAYAK
23-Sep-14	1837500	2273273.26	435773.26	456844.15	21070.88708	LAYAK	LAYAK
24-Sep-14	1922500	2273202.37	350702.37	435773.26	85070.88708	LAYAK	LAYAK
25-Sep-14	1933500	2273131.49	339631.49	350702.37	11070.88708	LAYAK	LAYAK
26-Sep-14	2285000	2273060.60	-11939.40	339631.49	351570.8871	LAYAK	LAYAK
27-Sep-14	2925500	2272989.71	-652510.29	-11939.40	640570.8871	LAYAK	LAYAK
28-Sep-14	2790000	2272918.82	-517081.18	-652510.29	135429.1129	LAYAK	LAYAK
29-Sep-14	2462500	2272847.94	-189652.06	-517081.18	327429.1129	LAYAK	LAYAK
30-Sep-14	2537000	2272777.05	-264222.95	-189652.06	74570.88708	LAYAK	LAYAK
1-Oct-14	1896500	2272706.16	376206.16	-264222.95	640429.1129	LAYAK	LAYAK
2-Oct-14	2084500	2272635.28	188135.28	376206.16	188070.8871	LAYAK	LAYAK
3-Oct-14	2597500	2272564.39	-324935.61	188135.28	513070.8871	LAYAK	LAYAK
4-Oct-14	2260000	2272493.50	12493.50	-324935.61	337429.1129	LAYAK	LAYAK
5-Oct-14	2532500	2272422.62	-260077.38	12493.50	272570.8871	LAYAK	LAYAK
6-Oct-14	2133000	2272351.73	139351.73	-260077.38	399429.1129	LAYAK	LAYAK
7-Oct-14	2229000	2272280.84	43280.84	139351.73	96070.88708	LAYAK	LAYAK

tanggal	permintaan (Dt)	peramalan (D't)	d't-dt	(d't-1)-(dt-1)	MR	UJI KELAYAKAN	
						BKA	BKB
8-Oct-14	2388000	2272209.95	-115790.05	43280.84	159070.8871	LAYAK	LAYAK
9-Oct-14	2483500	2272139.07	-211360.93	-115790.05	95570.88708	LAYAK	LAYAK
10-Oct-14	2694000	2272068.18	-421931.82	-211360.93	210570.8871	LAYAK	LAYAK
11-Oct-14	2546000	2271997.29	-274002.71	-421931.82	147929.1129	LAYAK	LAYAK
12-Oct-14	2019500	2271926.41	252426.41	-274002.71	526429.1129	LAYAK	LAYAK
13-Oct-14	2566000	2271855.52	-294144.48	252426.41	546570.8871	LAYAK	LAYAK
14-Oct-14	2707000	2271784.63	-435215.37	-294144.48	141070.8871	LAYAK	LAYAK
15-Oct-14	1960000	2271713.74	311713.74	-435215.37	746929.1129	LAYAK	LAYAK
16-Oct-14	1712000	2271642.86	559642.86	311713.74	247929.1129	LAYAK	LAYAK
17-Oct-14	2587500	2271571.97	-315928.03	559642.86	875570.8871	LAYAK	LAYAK
18-Oct-14	2537000	2271501.08	-265498.92	-315928.03	50429.11292	LAYAK	LAYAK
19-Oct-14	2524500	2271430.20	-253069.80	-265498.92	12429.11292	LAYAK	LAYAK
20-Oct-14	2695000	2271359.31	-423640.69	-253069.80	170570.8871	LAYAK	LAYAK
21-Oct-14	2463500	2271288.42	-192211.58	-423640.69	231429.1129	LAYAK	LAYAK
22-Oct-14	2315500	2271217.53	-44282.47	-192211.58	147929.1129	LAYAK	LAYAK
23-Oct-14	1974000	2271146.65	297146.65	-44282.47	341429.1129	LAYAK	LAYAK
24-Oct-14	2531500	2271075.76	-260424.24	297146.65	557570.8871	LAYAK	LAYAK
25-Oct-14	2448000	2271004.87	-176995.13	-260424.24	83429.11292	LAYAK	LAYAK
26-Oct-14	2387500	2270933.99	-116566.01	-176995.13	60429.11292	LAYAK	LAYAK
27-Oct-14	1801500	2270863.10	469363.10	-116566.01	585929.1129	LAYAK	LAYAK
28-Oct-14	2209500	2270792.21	61292.21	469363.10	408070.8871	LAYAK	LAYAK
29-Oct-14	1894500	2270721.33	376221.33	61292.21	314929.1129	LAYAK	LAYAK
30-Oct-14	2497500	2270650.44	-226849.56	376221.33	603070.8871	LAYAK	LAYAK
31-Oct-14	2146000	2270579.55	124579.55	-226849.56	351429.1129	LAYAK	LAYAK
1-Nov-14	2652000	2270508.66	-381491.34	124579.55	506070.8871	LAYAK	LAYAK
2-Nov-14	2700000	2270437.78	-429562.22	-381491.34	48070.88708	LAYAK	LAYAK
3-Nov-14	2373500	2270366.89	-103133.11	-429562.22	326429.1129	LAYAK	LAYAK
4-Nov-14	2561000	2270296.00	-290704.00	-103133.11	187570.8871	LAYAK	LAYAK
5-Nov-14	2722500	2270225.12	-452274.88	-290704.00	161570.8871	LAYAK	LAYAK
6-Nov-14	2182000	2270154.23	88154.23	-452274.88	540429.1129	LAYAK	LAYAK
7-Nov-14	2191000	2270083.34	79083.34	88154.23	9070.887084	LAYAK	LAYAK
8-Nov-14	2219500	2270012.45	50512.45	79083.34	28570.88708	LAYAK	LAYAK
9-Nov-14	2531500	2269941.57	-261558.43	50512.45	312070.8871	LAYAK	LAYAK
10-Nov-14	1984500	2269870.68	285370.68	-261558.43	546929.1129	LAYAK	LAYAK
11-Nov-14	2638000	2269799.79	-368200.21	285370.68	653570.8871	LAYAK	LAYAK
12-Nov-14	2345000	2269728.91	-75271.09	-368200.21	292929.1129	LAYAK	LAYAK
13-Nov-14	1665000	2269658.02	604658.02	-75271.09	679929.1129	LAYAK	LAYAK
14-Nov-14	2200500	2269587.13	69087.13	604658.02	535570.8871	LAYAK	LAYAK
15-Nov-14	2197500	2269516.24	72016.24	69087.13	2929.112916	LAYAK	LAYAK

tanggal	permintaan (Dt)	peramalan (D't)	d't-dt	(d't-1)-(dt-1)	MR	UJI KELAYAKAN	
						BKA	BKB
16-Nov-14	2229000	2269445.36	40445.36	72016.24	31570.88708	LAYAK	LAYAK
17-Nov-14	1820500	2269374.47	448874.47	40445.36	408429.1129	LAYAK	LAYAK
18-Nov-14	2040000	2269303.58	229303.58	448874.47	219570.8871	LAYAK	LAYAK
19-Nov-14	2051000	2269232.70	218232.70	229303.58	11070.88708	LAYAK	LAYAK
20-Nov-14	2321500	2269161.81	-52338.19	218232.70	270570.8871	LAYAK	LAYAK
21-Nov-14	2437000	2269090.92	-167909.08	-52338.19	115570.8871	LAYAK	LAYAK
22-Nov-14	1826500	2269020.04	442520.04	-167909.08	610429.1129	LAYAK	LAYAK
23-Nov-14	2514500	2268949.15	-245550.85	442520.04	688070.8871	LAYAK	LAYAK
24-Nov-14	2181500	2268878.26	87378.26	-245550.85	332929.1129	LAYAK	LAYAK
25-Nov-14	2238000	2268807.37	30807.37	87378.26	56570.88708	LAYAK	LAYAK
26-Nov-14	2594500	2268736.49	-325763.51	30807.37	356570.8871	LAYAK	LAYAK
27-Nov-14	2041500	2268665.60	227165.60	-325763.51	552929.1129	LAYAK	LAYAK
28-Nov-14	2020500	2268594.71	248094.71	227165.60	20929.11292	LAYAK	LAYAK
29-Nov-14	2212500	2268523.83	56023.83	248094.71	192070.8871	LAYAK	LAYAK
30-Nov-14	2134000	2268452.94	134452.94	56023.83	78429.11292	LAYAK	LAYAK

Lampiran 6. Disagregat Data

tanggal	peramalan (D't)	prosentase roti		jumlah roti	
		Roti smeer	cake potong	Roti smeer	cake potong
		20.2%	22.75%	1500	2000
1-Dec-14	2268382.051	458572	516071	306	258
2-Dec-14	2268311.164	458557	516055	306	258
3-Dec-14	2268240.277	458543	516039	306	258
4-Dec-14	2268169.39	458529	516023	306	258
5-Dec-14	2268098.503	458514	516007	306	258
6-Dec-14	2268027.616	458500	515991	306	258
7-Dec-14	2267956.729	458486	515975	306	258
8-Dec-14	2267885.842	458471	515958	306	258
9-Dec-14	2267814.955	458457	515942	306	258
10-Dec-14	2267744.068	458443	515926	306	258
11-Dec-14	2267673.18	458428	515910	306	258
12-Dec-14	2267602.293	458414	515894	306	258
13-Dec-14	2267531.406	458400	515878	306	258
14-Dec-14	2267460.519	458385	515862	306	258
15-Dec-14	2267389.632	458371	515846	306	258
16-Dec-14	2267318.745	458357	515829	306	258
17-Dec-14	2267247.858	458342	515813	306	258
18-Dec-14	2267176.971	458328	515797	306	258
19-Dec-14	2267106.084	458314	515781	306	258
20-Dec-14	2267035.197	458299	515765	306	258
21-Dec-14	2266964.31	458285	515749	306	258
22-Dec-14	2266893.423	458271	515733	306	258
23-Dec-14	2266822.535	458256	515717	306	258
24-Dec-14	2266751.648	458242	515700	305	258
25-Dec-14	2266680.761	458228	515684	305	258
26-Dec-14	2266609.874	458213	515668	305	258
27-Dec-14	2266538.987	458199	515652	305	258
28-Dec-14	2266468.1	458185	515636	305	258
29-Dec-14	2266397.213	458170	515620	305	258
30-Dec-14	2266326.326	458156	515604	305	258
31-Dec-14	2266255.439	458142	515588	305	258

Lampiran 7. Pembangkitan Bilangan *Fuzzy* Roti Smeer

tanggal	roti smeer		μ Permintaan			μ Persediaan			
	x	y	TURUN	TETAP	NAIK	SEDIKIT	SEDANG	SEDANG	BANYAK
1-Dec-14	306	85	0.569	0.651	0.431	0.810	0.395	0.000	0.190
2-Dec-14	306	107	0.569	0.651	0.431	0.756	0.508	0.000	0.244
3-Dec-14	306	171	0.569	0.652	0.431	0.599	0.836	0.000	0.401
4-Dec-14	306	250	0.569	0.652	0.431	0.404	0.000	0.777	0.596
5-Dec-14	306	255	0.569	0.652	0.431	0.392	0.000	0.754	0.608
6-Dec-14	306	321	0.569	0.652	0.431	0.229	0.000	0.441	0.771
7-Dec-14	306	260	0.569	0.652	0.431	0.379	0.000	0.730	0.621
8-Dec-14	306	246	0.569	0.652	0.431	0.414	0.000	0.796	0.586
9-Dec-14	306	381	0.569	0.652	0.431	0.081	0.000	0.156	0.919
10-Dec-14	306	235	0.569	0.652	0.431	0.441	0.000	0.848	0.000
11-Dec-14	306	288	0.569	0.652	0.431	0.310	0.000	0.597	0.690
12-Dec-14	306	226	0.569	0.652	0.431	0.463	0.000	0.891	0.537
13-Dec-14	306	88	0.569	0.652	0.431	0.803	0.410	0.000	0.197
14-Dec-14	306	97	0.569	0.652	0.431	0.781	0.456	0.000	0.219
15-Dec-14	306	103	0.570	0.652	0.430	0.766	0.487	0.000	0.234
16-Dec-14	306	198	0.570	0.652	0.430	0.532	0.974	0.000	0.468
17-Dec-14	306	70	0.570	0.652	0.430	0.847	0.318	0.000	0.153
18-Dec-14	306	290	0.570	0.652	0.430	0.305	0.000	0.588	0.695
19-Dec-14	306	307	0.570	0.652	0.430	0.264	0.000	0.507	0.736
20-Dec-14	306	241	0.570	0.652	0.430	0.426	0.000	0.820	0.574
21-Dec-14	306	47	0.570	0.652	0.430	0.904	0.200	0.000	0.096
22-Dec-14	306	103	0.570	0.652	0.430	0.766	0.487	0.000	0.234
23-Dec-14	306	262	0.570	0.652	0.430	0.374	0.000	0.720	0.000
24-Dec-14	305	90	0.570	0.652	0.430	0.798	0.421	0.000	0.202
25-Dec-14	305	60	0.570	0.652	0.430	0.872	0.267	0.000	0.128
26-Dec-14	305	220	0.570	0.652	0.430	0.478	0.000	0.919	0.522
27-Dec-14	305	445	0.570	0.652	0.430	-0.076	0.000	-0.147	1.076
28-Dec-14	305	276	0.570	0.652	0.430	0.340	0.000	0.654	0.000
29-Dec-14	305	291	0.570	0.652	0.430	0.303	0.000	0.583	0.697
30-Dec-14	305	126	0.570	0.652	0.430	0.709	0.605	0.000	0.000
31-Dec-14	305	196	0.570	0.652	0.430	0.537	0.964	0.000	0.463

Lampiran 8. Pembangkitan Bilangan *Fuzzy* Cake Potong

tanggal	cake potong		μ Permintaan			μ Persediaan			
	x	y	TURUN	TETAP	NAIK	SEDIKIT	SEDANG	SEDANG	BANYAK
1-Dec-14	258	23	0.590	0.611	0.410	0.971	0.065	0.000	0.029
2-Dec-14	258	153	0.590	0.612	0.410	0.546	1.000	1.000	0.454
3-Dec-14	258	195	0.590	0.612	0.410	0.408	0.000	0.749	0.592
4-Dec-14	258	113	0.590	0.612	0.410	0.676	0.712	0.000	0.324
5-Dec-14	258	136	0.590	0.612	0.410	0.601	0.878	0.000	0.399
6-Dec-14	258	279	0.590	0.612	0.410	0.134	0.000	0.246	0.866
7-Dec-14	258	282	0.590	0.612	0.410	0.124	0.000	0.228	0.876
8-Dec-14	258	159	0.590	0.612	0.410	0.526	0.000	0.964	0.474
9-Dec-14	258	19	0.590	0.612	0.410	0.984	0.036	0.000	0.016
10-Dec-14	258	154	0.590	0.612	0.410	0.542	0.000	0.994	0.458
11-Dec-14	258	150	0.590	0.612	0.410	0.556	0.978	0.000	0.444
12-Dec-14	258	213	0.590	0.612	0.410	0.350	0.000	0.641	0.650
13-Dec-14	258	196	0.590	0.612	0.410	0.405	0.000	0.743	0.595
14-Dec-14	258	182	0.590	0.612	0.410	0.451	0.000	0.826	0.549
15-Dec-14	258	190	0.590	0.612	0.410	0.425	0.000	0.778	0.575
16-Dec-14	258	167	0.590	0.612	0.410	0.500	0.000	0.916	0.500
17-Dec-14	258	247	0.590	0.612	0.410	0.239	0.000	0.437	0.761
18-Dec-14	258	271	0.590	0.612	0.410	0.160	0.000	0.293	0.840
19-Dec-14	258	238	0.590	0.612	0.410	0.268	0.000	0.491	0.732
20-Dec-14	258	75	0.590	0.612	0.410	0.801	0.439	0.000	0.199
21-Dec-14	258	206	0.590	0.612	0.410	0.373	0.000	0.683	0.627
22-Dec-14	258	162	0.590	0.612	0.410	0.516	0.000	0.946	0.484
23-Dec-14	258	53	0.590	0.612	0.410	0.873	0.281	0.000	0.127
24-Dec-14	258	108	0.590	0.612	0.410	0.693	0.676	0.000	0.307
25-Dec-14	258	148	0.590	0.612	0.410	0.562	0.964	0.000	0.438
26-Dec-14	258	73	0.590	0.612	0.410	0.807	0.424	0.000	0.193
27-Dec-14	258	323	0.590	0.612	0.410	-0.010	0.000	-0.018	1.010
28-Dec-14	258	352	0.590	0.612	0.410	-0.105	0.000	-0.192	1.105
29-Dec-14	258	307	0.590	0.612	0.410	0.042	0.000	0.078	0.958
30-Dec-14	258	247	0.591	0.612	0.409	0.239	0.000	0.437	0.761
31-Dec-14	258	60	0.591	0.612	0.409	0.850	0.331	0.000	0.150

Lampiran 9. Fuzzifikasi Data Roti Smeer (*Fuzzy Tsukamoto*)

tanggal	R1		R2		R3		R4		R5		R6		R7		R8		R9		Z
	α_1	z1	α_2	z2	α_3	z3	α_4	z4	α_5	z5	α_6	z6	α_7	z7	α_8	z8	α_9	z9	
1-Dec-14	0.190	487.241	0.395	391.200	0.569	309.627	0.190	487.241	0.395	234.000	0.651	412.885	0.190	196.759	0.395	292.800	0.431	309.627	342
2-Dec-14	0.244	461.882	0.508	338.400	0.569	309.615	0.244	461.882	0.508	234.000	0.651	412.898	0.244	222.118	0.431	309.615	0.431	309.615	335
3-Dec-14	0.401	388.108	0.569	309.604	0.569	309.604	0.401	388.108	0.652	234.000	0.599	388.108	0.401	295.892	0.431	309.604	0.431	309.604	322
4-Dec-14	0.569	309.592	0.569	309.592	0.404	386.956	0.596	297.044	0.652	234.000	0.404	297.044	0.431	309.592	0.431	309.592	0.404	297.044	302
5-Dec-14	0.569	309.580	0.569	309.580	0.392	392.719	0.608	291.281	0.652	234.000	0.392	291.281	0.431	309.580	0.431	309.580	0.392	291.281	300
6-Dec-14	0.569	309.568	0.441	369.725	0.229	468.798	0.652	271.048	0.441	234.000	0.229	215.202	0.431	309.568	0.431	309.568	0.229	215.202	299
7-Dec-14	0.569	309.557	0.569	309.557	0.379	398.483	0.621	285.517	0.652	234.000	0.379	285.517	0.431	309.557	0.431	309.557	0.379	285.517	299
8-Dec-14	0.569	309.545	0.569	309.545	0.414	382.345	0.586	301.655	0.652	234.000	0.414	301.655	0.431	309.545	0.431	309.545	0.414	301.655	303
9-Dec-14	0.569	309.533	0.156	502.806	0.081	537.961	0.652	271.008	0.156	234.000	0.081	146.039	0.431	309.533	0.156	181.194	0.081	146.039	295
10-Dec-14	0.000	576.000	0.569	309.521	0.441	369.665	0.000	576.000	0.652	234.000	0.441	314.335	0.000	108.000	0.431	309.521	0.431	309.521	303
11-Dec-14	0.569	309.510	0.569	309.510	0.310	430.759	0.652	270.981	0.597	234.000	0.310	253.241	0.431	309.510	0.431	309.510	0.310	253.241	293
12-Dec-14	0.537	324.709	0.569	309.498	0.463	359.291	0.537	324.709	0.652	234.000	0.463	324.709	0.431	309.498	0.431	309.498	0.431	309.498	309
13-Dec-14	0.197	483.783	0.410	384.000	0.569	309.486	0.197	483.783	0.410	234.000	0.652	413.046	0.197	200.217	0.410	300.000	0.431	309.486	341
14-Dec-14	0.219	473.409	0.456	362.400	0.569	309.474	0.219	473.409	0.456	234.000	0.652	413.060	0.219	210.591	0.431	309.474	0.431	309.474	339
15-Dec-14	0.234	466.493	0.487	348.000	0.570	309.462	0.234	466.493	0.487	234.000	0.652	413.073	0.234	217.507	0.430	309.462	0.430	309.462	336
16-Dec-14	0.468	356.985	0.570	309.451	0.532	327.015	0.468	356.985	0.652	234.000	0.532	356.985	0.430	309.451	0.430	309.451	0.430	309.451	316
17-Dec-14	0.153	504.532	0.318	427.200	0.570	309.439	0.153	504.532	0.318	234.000	0.652	413.100	0.153	179.468	0.318	256.800	0.430	309.439	343
18-Dec-14	0.570	309.427	0.570	309.427	0.305	433.064	0.652	270.887	0.588	234.000	0.305	250.936	0.430	309.427	0.430	309.427	0.305	250.936	293
19-Dec-14	0.570	309.415	0.507	338.673	0.264	452.660	0.652	270.873	0.507	234.000	0.264	231.340	0.430	309.415	0.430	309.415	0.264	231.340	296
20-Dec-14	0.570	309.404	0.570	309.404	0.426	376.581	0.574	307.419	0.652	234.000	0.426	307.419	0.430	309.404	0.430	309.404	0.426	307.419	304
21-Dec-14	0.096	531.044	0.200	482.400	0.570	309.392	0.096	531.044	0.200	234.000	0.652	413.154	0.096	152.956	0.200	201.600	0.430	309.392	346

tanggal	R1		R2		R3		R4		R5		R6		R7		R8		R9		Z
	α_1	z1	α_2	z2	α_3	z3	α_4	z4	α_5	z5	α_6	z6	α_7	z7	α_8	z8	α_9	z9	
22-Dec-14	0.234	466.493	0.487	348.000	0.570	309.380	0.234	466.493	0.487	234.000	0.652	413.167	0.234	217.507	0.430	309.380	0.430	309.380	336
23-Dec-14	0.000	576.000	0.570	309.368	0.374	400.788	0.000	576.000	0.652	234.000	0.374	283.212	0.000	108.000	0.430	309.368	0.374	283.212	297
24-Dec-14	0.202	481.478	0.421	379.200	0.570	309.357	0.202	481.478	0.421	234.000	0.652	413.194	0.202	202.522	0.421	304.800	0.430	309.357	341
25-Dec-14	0.128	516.059	0.267	451.200	0.570	309.345	0.128	516.059	0.267	234.000	0.652	413.208	0.128	167.941	0.267	232.800	0.430	309.345	345
26-Dec-14	0.522	331.626	0.570	309.333	0.478	352.374	0.522	331.626	0.652	234.000	0.478	331.626	0.430	309.333	0.430	309.333	0.430	309.333	311
27-Dec-14	0.570	309.321	0.147	644.758	0.076	611.734	0.652	270.765	0.147	234.000	0.076	72.266	0.430	309.321	0.147	39.242	0.076	72.266	299
28-Dec-14	0.000	576.000	0.570	309.310	0.340	416.926	0.000	576.000	0.652	234.000	0.340	267.074	0.000	108.000	0.430	309.310	0.340	267.074	294
29-Dec-14	0.570	309.298	0.570	309.298	0.303	434.217	0.652	270.738	0.583	234.000	0.303	249.783	0.430	309.298	0.430	309.298	0.303	249.783	293
30-Dec-14	0.000	576.000	0.570	309.286	0.570	309.286	0.000	576.000	0.605	234.000	0.652	413.275	0.000	108.000	0.430	309.286	0.430	309.286	316
31-Dec-14	0.463	359.291	0.570	309.274	0.537	324.709	0.463	359.291	0.652	234.000	0.537	359.291	0.430	309.274	0.430	309.274	0.430	309.274	316

Lampiran 10. Fuzzifikasi Data Cake Potong (*Fuzzy Tsukamoto*)

tanggal	R1		R2		R3		R4		R5		R6		R7		R8		R9		Z
	α_1	z1	α_2	z2	α_3	z3	α_4	z4	α_5	z5	α_6	z6	α_7	z7	α_8	z8	α_9	z9	
1-Dec-14	0.029	468.706	0.065	455.137	0.590	253.552	0.029	468.706	0.065	192.000	0.611	330.806	0.029	107.294	0.065	120.863	0.410	253.552	283
2-Dec-14	0.454	305.569	0.590	253.541	0.546	270.431	0.454	305.569	0.612	192.000	0.546	305.569	0.410	253.541	0.410	253.541	0.410	253.541	264
3-Dec-14	0.590	253.531	0.590	253.531	0.408	323.137	0.592	252.863	0.612	192.000	0.408	252.863	0.410	253.531	0.410	253.531	0.408	252.863	251
4-Dec-14	0.324	355.765	0.590	253.520	0.590	253.520	0.324	355.765	0.612	192.000	0.612	330.839	0.324	220.235	0.410	253.520	0.410	253.520	269
5-Dec-14	0.399	326.902	0.590	253.510	0.590	253.510	0.399	326.902	0.612	192.000	0.601	326.902	0.399	249.098	0.410	253.510	0.410	253.510	268
6-Dec-14	0.590	253.499	0.246	385.725	0.134	428.549	0.612	245.140	0.246	192.000	0.134	147.451	0.410	253.499	0.246	190.275	0.134	147.451	251
7-Dec-14	0.590	253.489	0.228	392.623	0.124	432.314	0.612	245.129	0.228	192.000	0.124	143.686	0.410	253.489	0.228	183.377	0.124	143.686	250
8-Dec-14	0.474	298.039	0.590	253.478	0.526	277.961	0.474	298.039	0.612	192.000	0.526	298.039	0.410	253.478	0.410	253.478	0.410	253.478	263
9-Dec-14	0.016	473.725	0.036	466.187	0.590	253.468	0.016	473.725	0.036	192.000	0.612	330.893	0.016	102.275	0.036	109.813	0.410	253.468	283
10-Dec-14	0.458	304.314	0.590	253.457	0.542	271.686	0.458	304.314	0.612	192.000	0.542	304.314	0.410	253.457	0.410	253.457	0.410	253.457	264
11-Dec-14	0.444	309.333	0.590	253.447	0.556	266.667	0.444	309.333	0.612	192.000	0.556	309.333	0.410	253.447	0.410	253.447	0.410	253.447	265
12-Dec-14	0.590	253.436	0.590	253.436	0.350	345.725	0.612	245.074	0.612	192.000	0.350	230.275	0.410	253.436	0.410	253.436	0.350	230.275	247
13-Dec-14	0.590	253.426	0.590	253.426	0.405	324.392	0.595	251.608	0.612	192.000	0.405	251.608	0.410	253.426	0.410	253.426	0.405	251.608	251
14-Dec-14	0.549	269.176	0.590	253.415	0.451	306.824	0.549	269.176	0.612	192.000	0.451	269.176	0.410	253.415	0.410	253.415	0.410	253.415	256
15-Dec-14	0.575	259.137	0.590	253.405	0.425	316.863	0.575	259.137	0.612	192.000	0.425	259.137	0.410	253.405	0.410	253.405	0.410	253.405	253
16-Dec-14	0.500	288.000	0.590	253.394	0.500	288.000	0.500	288.000	0.612	192.000	0.500	288.000	0.410	253.394	0.410	253.394	0.410	253.394	261
17-Dec-14	0.590	253.384	0.437	312.144	0.239	388.392	0.612	245.020	0.437	192.000	0.239	187.608	0.410	253.384	0.410	253.384	0.239	187.608	252
18-Dec-14	0.590	253.373	0.293	367.329	0.160	418.510	0.612	245.009	0.293	192.000	0.160	157.490	0.410	253.373	0.293	208.671	0.160	157.490	251
19-Dec-14	0.590	253.363	0.491	291.449	0.268	377.098	0.612	244.998	0.491	192.000	0.268	198.902	0.410	253.363	0.410	253.363	0.268	198.902	250
20-Dec-14	0.199	403.451	0.439	311.482	0.590	253.352	0.199	403.451	0.439	192.000	0.612	331.013	0.199	172.549	0.410	253.352	0.410	253.352	279
21-Dec-14	0.590	253.342	0.590	253.342	0.373	336.941	0.612	244.976	0.612	192.000	0.373	239.059	0.410	253.342	0.410	253.342	0.373	239.059	248

tanggal	R1		R2		R3		R4		R5		R6		R7		R8		R9		Z
	α_1	z1	α_2	z2	α_3	z3	α_4	z4	α_5	z5	α_6	z6	α_7	z7	α_8	z8	α_9	z9	
22-Dec-14	0.484	294.275	0.590	253.331	0.516	281.725	0.484	294.275	0.612	192.000	0.516	294.275	0.410	253.331	0.410	253.331	0.410	253.331	262
23-Dec-14	0.127	431.059	0.281	372.259	0.590	253.321	0.127	431.059	0.281	192.000	0.612	331.045	0.127	144.941	0.281	203.741	0.410	253.321	282
24-Dec-14	0.307	362.039	0.590	253.310	0.590	253.310	0.307	362.039	0.612	192.000	0.612	331.056	0.307	213.961	0.410	253.310	0.410	253.310	269
25-Dec-14	0.438	311.843	0.590	253.300	0.562	264.157	0.438	311.843	0.612	192.000	0.562	311.843	0.410	253.300	0.410	253.300	0.410	253.300	265
26-Dec-14	0.193	405.961	0.424	317.007	0.590	253.289	0.193	405.961	0.424	192.000	0.612	331.078	0.193	170.039	0.410	253.289	0.410	253.289	280
27-Dec-14	0.590	253.279	0.018	486.898	0.010	483.765	0.612	244.911	0.018	192.000	0.010	92.235	0.410	253.279	0.018	89.102	0.010	92.235	250
28-Dec-14	0.590	253.268	0.192	553.581	0.105	520.157	0.612	244.900	0.192	192.000	0.105	55.843	0.410	253.268	0.192	22.419	0.105	55.843	263
29-Dec-14	0.590	253.258	0.078	450.108	0.042	463.686	0.612	244.889	0.078	192.000	0.042	112.314	0.410	253.258	0.078	125.892	0.042	112.314	249
30-Dec-14	0.591	253.247	0.437	312.144	0.239	388.392	0.612	244.878	0.437	192.000	0.239	187.608	0.409	253.247	0.409	253.247	0.239	187.608	252
31-Dec-14	0.150	422.275	0.331	352.921	0.591	253.237	0.150	422.275	0.331	192.000	0.612	331.133	0.150	153.725	0.331	223.079	0.409	253.237	281

Lampiran 11. Fuzzifikasi Data Roti Smeer (*Fuzzy Mamdani*)

tanggal	roti smeer		α maksimum dari produksi			nilai z		MOMEN			luas area (A)			Z
	x	y	berkurang	tetap	bertambah	z1	z2	M1	M2	M3	A1	A2	A3	
1-Dec-14	306	85	0.569	0.395	0.651	309.63	412.88	27283.01	20382.00	52541.23	176.23	63.02	106.26	290.02
2-Dec-14	306	107	0.569	0.508	0.651	309.62	412.90	27282.14	20387.20	52539.93	176.23	63.04	106.26	290.02
3-Dec-14	306	171	0.569	0.652	0.599	309.60	412.91	27281.27	20392.39	52538.63	176.23	63.06	106.26	290.01
4-Dec-14	306	250	0.596	0.652	0.431	297.04	412.92	26296.74	21986.31	52537.33	177.06	72.29	106.25	283.53
5-Dec-14	306	255	0.608	0.652	0.431	291.28	412.94	25808.61	22664.38	52536.02	177.21	76.64	106.25	280.51
6-Dec-14	306	321	0.652	0.441	0.431	271.05	314.27	23935.82	7644.72	51349.95	176.62	23.61	115.36	262.78
7-Dec-14	306	260	0.621	0.652	0.431	285.52	412.97	25299.34	23312.39	52533.42	177.22	81.08	106.24	277.46
8-Dec-14	306	246	0.586	0.652	0.431	301.66	412.98	26671.20	21436.45	52532.11	176.83	68.90	106.24	285.93
9-Dec-14	306	381	0.652	0.156	0.431	271.01	309.53	23931.85	6817.27	50806.42	176.61	20.85	114.75	261.22
10-Dec-14	306	235	0.569	0.652	0.441	309.52	413.01	27275.19	20428.74	52529.50	176.24	63.18	106.23	289.98
11-Dec-14	306	288	0.652	0.597	0.431	270.98	387.47	23929.21	19940.85	54234.83	176.61	72.74	112.58	271.06
12-Dec-14	306	226	0.569	0.652	0.463	309.50	413.03	27273.45	20439.12	52526.89	176.24	63.22	106.22	289.98
13-Dec-14	306	88	0.569	0.410	0.652	309.49	413.05	27272.58	20444.32	52525.58	176.24	63.24	106.21	289.97
14-Dec-14	306	97	0.569	0.456	0.652	309.47	413.06	27271.71	20449.51	52524.28	176.25	63.26	106.21	289.97
15-Dec-14	306	103	0.570	0.487	0.652	309.46	413.07	27270.84	20454.70	52522.97	176.25	63.27	106.21	289.96
16-Dec-14	306	198	0.570	0.652	0.532	309.45	413.09	27269.97	20459.90	52521.66	176.25	63.29	106.20	289.96
17-Dec-14	306	70	0.570	0.318	0.652	309.44	413.10	27269.10	20465.09	52520.35	176.25	63.31	106.20	289.96
18-Dec-14	306	290	0.652	0.588	0.430	270.89	383.03	23919.95	19260.96	54378.29	176.60	69.51	113.40	271.36
19-Dec-14	306	307	0.652	0.507	0.430	270.87	345.33	23918.63	13057.77	53886.73	176.60	43.15	116.98	269.84
20-Dec-14	306	241	0.574	0.652	0.430	307.42	413.14	27118.18	20742.82	52516.42	176.43	64.80	106.19	288.93
21-Dec-14	306	47	0.570	0.200	0.652	309.39	413.15	27265.62	20485.87	52515.11	176.25	63.38	106.18	289.94

tanggal	roti smear		α maksimum dari produksi			nilai z		MOMEN			luas area (A)			Z
	x	y	berkurang	tetap	bertambah	z1	z2	M1	M2	M3	A1	A2	A3	
22-Dec-14	306	103	0.570	0.487	0.652	309.38	413.17	27264.75	20491.06	52513.80	176.25	63.40	106.18	289.94
23-Dec-14	306	262	0.570	0.652	0.430	309.37	413.18	27263.88	20496.26	52512.49	176.26	63.42	106.17	289.93
24-Dec-14	305	90	0.570	0.421	0.652	309.36	413.19	27263.00	20501.45	52511.18	176.26	63.44	106.17	289.93
25-Dec-14	305	60	0.570	0.267	0.652	309.34	413.21	27262.13	20506.65	52509.87	176.26	63.46	106.17	289.92
26-Dec-14	305	220	0.570	0.652	0.478	309.33	413.22	27261.26	20511.84	52508.56	176.26	63.47	106.16	289.92
27-Dec-14	305	445	0.652	-0.147	0.430	270.77	309.32	23908.05	6822.75	50781.22	176.60	20.87	114.72	261.11
28-Dec-14	305	276	0.570	0.652	0.430	309.31	413.25	27259.52	20522.23	52505.93	176.26	63.51	106.15	289.91
29-Dec-14	305	291	0.652	0.583	0.430	270.74	380.82	23905.40	18935.84	54433.57	176.59	67.98	113.78	271.45
30-Dec-14	305	126	0.570	0.000	0.652	309.29	413.28	27257.78	20532.62	52503.30	176.26	63.55	106.15	289.90
31-Dec-14	305	196	0.570	0.652	0.537	309.27	413.29	27256.91	20537.82	52501.99	176.26	63.57	106.14	289.90

Lampiran 12. Fuzzifikasi Data Cake Potong (*Fuzzy Mamdani*)

tanggal	cake potong		maksimum dari produksi			nilai z		MOMEN			luas area (A)			Z
	x	y	berkurang	tetap	bertambah	z1	z2	M1	M2	M3	A1	A2	A3	
1-Dec-14	258	23	0.590	0.065	0.611	300.02	394.17	26539.75	21550.28	22939.50	176.92	56.55	111.18	206.09
2-Dec-14	258	153	0.590	0.612	0.546	300.00	394.18	26538.71	21556.38	22937.36	176.92	56.57	111.18	206.09
3-Dec-14	258	195	0.592	0.612	0.410	299.18	394.20	26471.71	21691.74	22935.23	176.96	57.16	111.18	205.91
4-Dec-14	258	113	0.590	0.612	0.612	299.98	394.21	26536.65	21568.57	22933.09	176.92	56.60	111.18	206.09
5-Dec-14	258	136	0.590	0.612	0.601	299.96	394.22	26535.61	21574.67	22930.96	176.92	56.62	111.17	206.08
6-Dec-14	258	279	0.612	0.246	0.410	289.76	299.95	25676.57	1448.14	28798.70	177.22	5.20	113.22	189.15
7-Dec-14	258	282	0.612	0.228	0.410	289.75	299.94	25675.41	1448.24	28798.36	177.22	5.21	113.22	189.15
8-Dec-14	258	159	0.590	0.612	0.526	299.93	394.26	26532.51	21592.97	22924.55	176.93	56.68	111.16	206.08
9-Dec-14	258	19	0.590	0.036	0.612	299.91	394.28	26531.48	21599.07	22922.41	176.93	56.69	111.16	206.08
10-Dec-14	258	154	0.590	0.612	0.542	299.90	394.29	26530.44	21605.17	22920.28	176.93	56.71	111.16	206.08
11-Dec-14	258	150	0.590	0.612	0.556	299.89	394.30	26529.41	21611.27	22918.14	176.93	56.73	111.15	206.08
12-Dec-14	258	213	0.612	0.612	0.410	289.68	394.32	25669.61	12611.27	22916.00	177.22	64.01	111.15	173.66
13-Dec-14	258	196	0.595	0.612	0.410	297.65	394.33	26346.51	21972.93	22913.86	177.03	58.33	111.15	205.57
14-Dec-14	258	182	0.590	0.612	0.451	299.85	394.34	26526.31	21629.57	22911.72	176.93	56.79	111.15	206.08
15-Dec-14	258	190	0.590	0.612	0.425	299.84	394.36	26525.27	21635.67	22909.58	176.93	56.80	111.14	206.07
16-Dec-14	258	167	0.590	0.612	0.500	299.82	394.37	26524.24	21641.77	22907.44	176.93	56.82	111.14	206.07
17-Dec-14	258	247	0.612	0.437	0.410	289.62	312.57	25663.80	3217.75	29002.63	177.23	12.04	115.15	190.15
18-Dec-14	258	271	0.612	0.293	0.410	289.60	299.80	25662.64	1449.40	28794.54	177.23	5.21	113.19	189.11
19-Dec-14	258	238	0.612	0.491	0.410	289.59	337.80	25661.47	6524.69	28551.12	177.23	26.59	116.96	189.35
20-Dec-14	258	75	0.590	0.439	0.612	299.77	394.42	26520.10	21666.18	22898.88	176.93	56.90	111.13	206.07

tanggal	cake potong		maksimum dari produksi			nilai z		MOMEN			luas area (A)			Z
	x	y	berkurang	tetap	bertambah	z1	z2	M1	M2	M3	A1	A2	A3	
21-Dec-14	258	206	0.612	0.612	0.410	289.56	394.44	25659.15	12638.91	22896.74	177.23	64.18	111.13	173.58
22-Dec-14	258	162	0.590	0.612	0.516	299.75	394.45	26518.03	21678.38	22894.60	176.94	56.93	111.12	206.07
23-Dec-14	258	53	0.590	0.281	0.612	299.73	394.46	26516.99	21684.48	22892.45	176.94	56.95	111.12	206.07
24-Dec-14	258	108	0.590	0.612	0.612	299.72	394.47	26515.95	21690.58	22890.31	176.94	56.97	111.12	206.06
25-Dec-14	258	148	0.590	0.612	0.562	299.71	394.49	26514.92	21696.68	22888.17	176.94	56.99	111.11	206.06
26-Dec-14	258	73	0.590	0.424	0.612	299.70	394.50	26513.88	21702.78	22886.02	176.94	57.01	111.11	206.06
27-Dec-14	258	323	0.612	-0.018	0.410	289.49	299.68	25652.17	1450.34	28791.39	177.23	5.21	113.17	189.08
28-Dec-14	258	352	0.612	-0.192	0.410	289.47	299.67	25651.01	1450.45	28791.04	177.23	5.21	113.17	189.08
29-Dec-14	258	307	0.612	0.078	0.410	289.46	299.66	25649.84	1450.55	28790.69	177.23	5.21	113.17	189.07
30-Dec-14	258	247	0.612	0.437	0.409	289.45	312.57	25648.68	3242.51	29002.63	177.23	12.14	115.15	190.12
31-Dec-14	258	60	0.591	0.331	0.612	299.63	394.57	26508.70	21733.29	22875.30	176.94	57.10	111.10	206.06

Lampiran 13. Perbandingan Produksi Aktual dengan *Fuzzy Tsukamoto*

Tanggal	roti smeer	cake potong	roti smeer	cake potong	roti smeer	cake potong	roti smeer	cake potong	Z FUZZY		Zfuzzy setelah		roti smeer	cake potong
	produksi roti		persediaan roti		penjualan /perminaan		sisa roti setiap hari				diberi batasan		sisa roti setiap hari FUZZY	
1-Dec-14	396	480	85	23	374	350	107	153	342	283	324	256	35	0
2-Dec-14	360	320	107	153	296	278	171	195	335	264	324	256	135	131
3-Dec-14	324	256	171	195	245	338	250	113	322	251	288	224	214	81
4-Dec-14	288	320	250	113	283	297	255	136	302	269	288	256	255	72
5-Dec-14	399	320	255	136	333	177	321	279	300	268	288	256	210	215
6-Dec-14	304	256	321	279	365	253	260	282	299	251	288	224	244	250
7-Dec-14	396	192	260	282	410	315	246	159	299	250	288	224	138	191
8-Dec-14	288	288	246	159	153	428	381	19	303	263	288	256	381	0
9-Dec-14	216	384	381	19	362	249	235	154	295	283	288	256	307	26
10-Dec-14	324	256	235	154	271	260	288	150	303	264	288	256	252	150
11-Dec-14	288	320	288	150	350	257	226	213	293	265	288	256	226	149
12-Dec-14	360	288	226	213	498	305	88	196	309	247	288	224	16	132
13-Dec-14	432	192	88	196	423	206	97	182	341	251	324	224	0	214
14-Dec-14	432	192	97	182	426	184	103	190	339	256	324	224	0	222
15-Dec-14	360	192	103	190	265	215	198	167	336	253	324	224	162	199
16-Dec-14	288	256	198	167	416	176	70	247	316	261	288	256	70	247
17-Dec-14	540	256	70	247	320	232	290	271	343	252	324	224	74	239
18-Dec-14	324	224	290	271	307	257	307	238	293	251	288	224	271	238
19-Dec-14	216	224	307	238	282	387	241	75	296	250	288	224	313	75
20-Dec-14	360	480	241	75	554	349	47	206	304	279	288	256	0	0

Tanggal	roti smeer	cake potong	roti smeer	cake potong	roti smeer	cake potong	roti smeer	cake potong	Z FUZZY		Zfuzzy setelah		roti smeer	cake potong	
	produksi roti		persediaan roti		penjualan /perminaan		sisa roti setiap hari				diberi batasan		sisa roti setiap hari FUZZY		
21-Dec-14	540	256	47	206	484	300	103	162	346	248	324	224	0	130	
22-Dec-14	540	288	103	162	381	397	262	53	336	262	324	256	46	21	
23-Dec-14	360	512	262	53	532	457	90	108	297	282	288	256	18	0	
24-Dec-14	720	640	90	108	750	600	60	148	341	269	324	256	0	0	
25-Dec-14	1260	800	60	148	1100	875	220	73	345	265	324	256	0	0	
26-Dec-14	900	800	220	73	675	550	445	323	311	280	288	256	0	0	
27-Dec-14	540	480	445	323	709	451	276	352	299	250	288	224	24	96	
28-Dec-14	576	384	276	352	561	429	291	307	294	263	288	256	3	179	
29-Dec-14	720	256	291	307	885	316	126	247	293	249	288	224	0	215	
30-Dec-14	720	384	126	247	650	571	196	60	316	252	288	224	0	0	
31-Dec-14	1080	960	196	60	944	950	332	70	316	281	288	256	0	0	
JUMLAH							6582	5528					JUMLAH	3394	3472
													48.44%	37.19%	

Lampiran 14. Perbandingan Produksi Aktual dengan *Fuzzy Mamdani*

Tanggal	roti smear	cake potong	roti smear	cake potong	roti smear	cake potong	roti smear	cake potong	Z FUZZY		Zfuzzy setelah	roti smear	cake potong	roti smear	cake potong	
	produksi roti		persediaan roti		penjualan /perminaan		sisa roti setiap hari				diberi batasan	sisa roti setiap hari FUZZY		sisa roti setiap hari FUZZY		
1-Dec-14	396	480	85	23	374	350	107	153	290	206	288	192	-1	-135	0	0
2-Dec-14	360	320	107	153	296	278	171	195	290	206	288	192	99	67	99	67
3-Dec-14	324	256	171	195	245	338	250	113	290	206	288	192	214	49	214	49
4-Dec-14	288	320	250	113	283	297	255	136	284	206	252	192	219	8	219	8
5-Dec-14	399	320	255	136	333	177	321	279	281	206	252	192	174	151	174	151
6-Dec-14	304	256	321	279	365	253	260	282	263	189	252	160	208	186	208	186
7-Dec-14	396	192	260	282	410	315	246	159	277	189	252	160	102	127	102	127
8-Dec-14	288	288	246	159	153	428	381	19	286	206	252	192	345	-77	345	0
9-Dec-14	216	384	381	19	362	249	235	154	261	206	252	192	271	-38	271	0
10-Dec-14	324	256	235	154	271	260	288	150	290	206	288	192	252	86	252	86
11-Dec-14	288	320	288	150	350	257	226	213	271	206	252	192	190	85	190	85
12-Dec-14	360	288	226	213	498	305	88	196	290	174	288	160	16	68	16	68
13-Dec-14	432	192	88	196	423	206	97	182	290	206	288	192	-47	182	0	182
14-Dec-14	432	192	97	182	426	184	103	190	290	206	288	192	-41	190	0	190
15-Dec-14	360	192	103	190	265	215	198	167	290	206	288	192	126	167	126	167
16-Dec-14	288	256	198	167	416	176	70	247	290	206	288	192	70	183	70	183
17-Dec-14	540	256	70	247	320	232	290	271	290	190	288	160	38	175	38	175
18-Dec-14	324	224	290	271	307	257	307	238	271	189	252	160	235	174	235	174
19-Dec-14	216	224	307	238	282	387	241	75	270	189	252	160	277	11	277	11
20-Dec-14	360	480	241	75	554	349	47	206	289	206	288	192	-25	-82	0	0

Tanggal	roti smeer	cake potong	roti smeer	cake potong	roti smeer	cake potong	roti smeer	cake potong	Z FUZZY		Zfuzzy setelah	roti smeer	cake potong	roti smeer	cake potong	
	produksi roti		persediaan roti		penjualan /perminaan		sisa roti setiap hari				diberi batasan	sisa roti setiap hari FUZZY		sisa roti setiap hari FUZZY		
21-Dec-14	540	256	47	206	484	300	103	162	290	174	288	160	-149	66	0	66
22-Dec-14	540	288	103	162	381	397	262	53	290	206	288	192	10	-43	10	0
23-Dec-14	360	512	262	53	532	457	90	108	290	206	288	192	18	-212	18	0
24-Dec-14	720	640	90	108	750	600	60	148	290	206	288	192	-372	-300	0	0
25-Dec-14	1260	800	60	148	1100	875	220	73	290	206	288	192	-752	-535	0	0
26-Dec-14	900	800	220	73	675	550	445	323	290	206	288	192	-167	-285	0	0
27-Dec-14	540	480	445	323	709	451	276	352	261	189	252	160	-12	32	0	32
28-Dec-14	576	384	276	352	561	429	291	307	290	189	288	160	3	83	3	83
29-Dec-14	720	256	291	307	885	316	126	247	271	189	252	160	-342	151	0	151
30-Dec-14	720	384	126	247	650	571	196	60	290	190	288	160	-236	-164	0	0
31-Dec-14	1080	960	196	60	944	950	332	70	290	206	288	192	-460	-698	0	0
							JUMLAH								2867	2241
											JUMLAH				56.44%	59.46%