

LAMPIRAN

Lampiran 1 Hasil Perhitungan IPCC Local Parameters (Komposisi 1)

Parameters	Country	INDONESIA
	Region	Asia- Southeast ▼

Please enter parameters in the yellow cells. If no national data are available, copy the IPCC default value. Help on parameter selection can be found in the 2006 IPCC guidelines

	IPCC default value		Country-specific parameters	
			Value	Reference and remarks
Starting year		1950	2015	
DOC (Degradable organic carbon) (weight fraction, wet basis)	Waste by composition ▼			
	Range	Default		
Food waste	0.08-0.20	0.15	0.2	
Garden	0.18-0.22	0.2	0.22	
Paper	0.36-0.45	0.4	0.43	
Wood and straw	0.39-0.46	0.43	0.45	
Textiles	0.20-0.40	0.24	0.35	
Disposable nappies	0.18-0.32	0.24	0.25	
Sewage sludge	0.04-0.05	0.05	0.05	
Industrial waste	0-0.54	0.15	0.35	
DOCf (fraction of DOC dissimilated)		0.5	0.5	
Methane generation rate constant (k) (years⁻¹)	Moist and wet tropica ▼			
	Range	Default		
Food waste	0.17-0.7	0.4	0.4	
Garden	0.15-0.2	0.17	0.17	
Paper	0.06-0.085	0.07	0.08	
Wood and straw	0.03-0.05	0.035	0.04	
Textiles	0.06-0.085	0.07	0.08	
Disposable nappies	0.15-0.2	0.17	0.17	
Sewage sludge	0.17-0.7	0.4	0.4	
Industrial waste	0.15-0.2	0.17	0.17	
Delay time (months)		6	6	
Fraction of methane (F) in developed gas		0.5	0.5	
Conversion factor, C to CH₄		1.33	1.33	
Oxidation factor (OX)		0	0	
Parameters for carbon storage				
% paper in industrial waste		0%	10%	
% wood in industrial waste		0%	5%	
For Harwested Wood Products calculations for Bulk waste option only:				

	MSW						Industrial					
	Un-managed, shallow	Un-managed, deep	Managed	Managed, semi-aerobic	Uncate-gorised	Distri-bution Check	Un-managed, shallow	Un-managed, deep	Managed	Managed, semi-aerobic	Uncate-gorised	Distri-bution Check
	MCF	MCF	MCF	MCF	MCF		MCF	MCF	MCF	MCF	MCF	
IPCC default	0.4	0.8	1	0.5	0.6		0.4	0.8	1	0.5	0.6	
Country-specific value	0.4	0.9	0.8	0.8	0.6		0.3	0.6	0.8	0.8	0.4	
	Distribution of Waste by Waste Management Type						Distribution of Waste by Waste Management Type					
"Fixed" Country-specific value	10%	70%	5%	0%	15%	Total (100%)	10%	70%	5%	0%	15%	Total (100%)
Year	%	%	%	%	%		%	%	%	%	%	
2015	10%	70%	5%	0%	15%	100%	10%	70%	5%	0%	15%	100%
2016	10%	70%	5%	0%	15%	100%	10%	70%	5%	0%	15%	100%
2017	10%	70%	5%	0%	15%	100%	10%	70%	5%	0%	15%	100%
2018	10%	70%	5%	0%	15%	100%	10%	70%	5%	0%	15%	100%
2019	10%	70%	5%	0%	15%	100%	10%	70%	5%	0%	15%	100%
2020	10%	70%	5%	0%	15%	100%	10%	70%	5%	0%	15%	100%
2021	10%	70%	5%	0%	15%	100%	10%	70%	5%	0%	15%	100%
2022	10%	70%	5%	0%	15%	100%	10%	70%	5%	0%	15%	100%
2023	10%	70%	5%	0%	15%	100%	10%	70%	5%	0%	15%	100%
2024	10%	70%	5%	0%	15%	100%	10%	70%	5%	0%	15%	100%

181.9841													99%					29%					32%					3%					8%					2%					3%					23%					100%				
Composition of waste going to solid waste disposal sites																																																									
Year	Population	Waste per capita	Total MSW	% to SWDS	Food	Garden	Paper	Wood	Textile	Nappies	Plastics, other inert	Total	Year	GDP	Waste generation rate	Total industrial waste	% to SWDS	Total to SWDS																																							
	millions	kg/cap/yr	Gg	%	%	%	%	%	%	%	%	(=100%)		\$ millions	Gg/\$m GDP/yr	Gg	%	Gg																																							
2015	0.44	181.98	79.24	99%	29%	32%	3%	8%	2%	3%	23%	100%	2015	0.84	94.00	79.24	50%	39.62																																							
2016	0.44	181.98	79.78	99%	29%	32%	3%	8%	2%	3%	23%	100%	2016	0.89	85.17	79.78	50%	39.89																																							
2017	0.44	181.98	80.31	99%	29%	32%	3%	8%	2%	3%	23%	100%	2017	0.94	85.18	80.31	50%	40.15																																							
2018	0.44	181.98	80.80	99%	29%	32%	3%	8%	2%	3%	23%	100%	2018	1.00	81.06	80.80	50%	40.40																																							
2019	0.45	181.98	81.29	99%	29%	32%	3%	8%	2%	3%	23%	100%	2019	1.05	77.26	81.29	50%	40.65																																							
2020	0.46	182.51	84.25	99%	29%	32%	3%	8%	2%	3%	23%	100%	2020	0.99	85.34	84.25	50%	42.12																																							
2021	0.47	181.18	84.25	99%	29%	32%	3%	8%	2%	3%	23%	100%	2021	0.97	87.06	84.25	50%	42.12																																							
2022	0.47	180.96	84.92	99%	29%	32%	3%	8%	2%	3%	23%	100%	2022	1.00	85.26	84.92	50%	42.46																																							
2023	0.47	180.17	84.92	99%	29%	32%	3%	8%	2%	3%	23%	100%	2023	1.03	82.33	84.92	50%	42.46																																							
2024	0.47	185.10	86.57	99%	29%	32%	3%	8%	2%	3%	23%	100%	2024	1.08	79.98	86.57	50%	43.29																																							

Amounts deposited in SWDS										
Year	Food	Garden	Paper	Wood	Textile	Nappies	Sludge	Deposited MSW	Inert	Industrial
	Gg	Gg	Gg	Gg	Gg	Gg	Gg	Gg	Gg	Gg
2015	22.92	24.93	2.23	6.28	1.79	2.35	0.00	78.50	17.99	39.62
2016	23.08	25.10	2.24	6.32	1.80	2.37	0.00	79.04	18.12	39.89
2017	23.23	25.27	2.26	6.36	1.81	2.39	0.00	79.56	18.24	40.15
2018	23.37	25.42	2.27	6.40	1.83	2.40	0.00	80.05	18.35	40.40
2019	23.52	25.58	2.29	6.44	1.84	2.42	0.00	80.54	18.46	40.65
2020	24.37	26.51	2.37	6.68	1.90	2.50	0.00	83.46	19.13	42.12
2021	24.37	26.51	2.37	6.68	1.90	2.50	0.00	83.46	19.13	42.12
2022	24.57	26.72	2.39	6.73	1.92	2.52	0.00	84.13	19.28	42.46
2023	24.57	26.72	2.39	6.73	1.92	2.52	0.00	84.13	19.28	42.46
2024	25.04	27.24	2.44	6.86	1.96	2.57	0.00	85.77	19.66	43.29

Methane generated												Methane recovery	Methane emission M = (K-L)*(1-OX) Gg
Year	Food	Garden	Paper	Wood	Textile	Nappies	Sludge	MSW	Industrial	Total	Methane recovery		
	A	B	C	D	E	F	G	H	J	K	L		
	Gg	Gg	Gg	Gg	Gg	Gg	Gg	Gg	Gg	Gg	Gg	Gg	
2015	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2016	0.40	0.23	0.02	0.03	0.01	0.02	0.00	0.00	0.40	1.12	0.00	0.00	1.12
2017	0.68	0.42	0.04	0.06	0.02	0.05	0.00	0.00	0.74	2.00	0.00	0.00	2.00
2018	0.86	0.59	0.05	0.09	0.04	0.06	0.00	0.00	1.02	2.71	0.00	0.00	2.71
2019	0.99	0.73	0.07	0.11	0.05	0.08	0.00	0.00	1.27	3.29	0.00	0.00	3.29
2020	1.08	0.85	0.09	0.14	0.06	0.09	0.00	0.00	1.48	3.78	0.00	0.00	3.78
2021	1.15	0.96	0.10	0.16	0.07	0.10	0.00	0.00	1.67	4.21	0.00	0.00	4.21
2022	1.20	1.05	0.11	0.19	0.07	0.11	0.00	0.00	1.83	4.57	0.00	0.00	4.57
2023	1.24	1.13	0.13	0.21	0.08	0.12	0.00	0.00	1.97	4.88	0.00	0.00	4.88
2024	1.26	1.20	0.14	0.24	0.09	0.13	0.00	0.00	2.09	5.14	0.00	0.00	5.14

Lampiran 2 Hasil Perhitungan IPCC Default Parameters (Komposisi 2)

Parameters

Country

INDONESIA

Region

Asia- Southeast

Please enter parameters in the yellow cells. If no national data are available, copy the IPCC default value. Help on parameter selection can be found in the 2006 IPCC guidelines

	IPCC default value		Country-specific parameters	
			Value	Reference and remarks
Starting year		1950	2015	
DOC (Degradable organic carbon) (weight fraction, wet basis)	Waste by composition			
	Range	Default		
Food waste	0.08-0.20	0.15	0.15	
Garden	0.18-0.22	0.2	0.2	
Paper	0.36-0.45	0.4	0.4	
Wood and straw	0.39-0.46	0.43	0.43	
Textiles	0.20-0.40	0.24	0.24	
Disposable nappies	0.18-0.32	0.24	0.24	
Sewage sludge	0.04-0.05	0.05	0.05	
Industrial waste	0-0.54	0.15	0.15	
DOCf (fraction of DOC dissimilated)		0.5	0.5	
Methane generation rate constant (k) (years⁻¹)	Wet temperate			
	Range	Default		
Food waste	0.1-0.2	0.185	0.185	
Garden	0.06-0.1	0.1	0.1	
Paper	0.05-0.07	0.06	0.06	
Wood and straw	0.02-0.04	0.03	0.03	
Textiles	0.05-0.07	0.06	0.06	
Disposable nappies	0.06-0.1	0.1	0.1	
Sewage sludge	0.1-0.2	0.185	0.185	
Industrial waste	0.08-0.1	0.09	0.09	
Delay time (months)		6	6	
Fraction of methane (F) in developed gas		0.5	0.5	
Conversion factor, C to CH₄		1.33	1.33	
Oxidation factor (OX)		0	0	
Parameters for carbon storage				
% paper in industrial waste		0%	0%	
% wood in industrial waste		0%	0%	
For Harvested Wood Products calculations for Bulk waste option only:				

	MSW						Industrial					
	Un-managed, shallow MCF	Un-managed, deep MCF	Managed MCF	Managed, semi-aerobic MCF	Uncate-gorised MCF	Distrib-ution Check	Un-managed, shallow MCF	Un-managed, deep MCF	Managed MCF	Managed, semi-aerobic MCF	Uncate-gorised MCF	Distrib-ution Check
IPCC default	0.4	0.8	1	0.5	0.6		0.4	0.8	1	0.5	0.6	
Country-specific value	0.4	0.8	1	0.5	0.6		0.4	0.8	1	0.5	0.6	
	Distribution of Waste by Waste Management Type						Distribution of Waste by Waste Management Type					
"Fixed" Country-specific value	25%	30%	25%	5%	15%	Total (100%)	20%	30%	25%	5%	20%	Total (100%)
Year	%	%	%	%	%	%	%	%	%	%	%	%
2015	25%	30%	25%	5%	15%	100%	20%	30%	25%	5%	20%	100%
2016	25%	30%	25%	5%	15%	100%	20%	30%	25%	5%	20%	100%
2017	25%	30%	25%	5%	15%	100%	20%	30%	25%	5%	20%	100%
2018	25%	30%	25%	5%	15%	100%	20%	30%	25%	5%	20%	100%
2019	25%	30%	25%	5%	15%	100%	20%	30%	25%	5%	20%	100%
2020	25%	30%	25%	5%	15%	100%	20%	30%	25%	5%	20%	100%
2021	25%	30%	25%	5%	15%	100%	20%	30%	25%	5%	20%	100%
2022	25%	30%	25%	5%	15%	100%	20%	30%	25%	5%	20%	100%
2023	25%	30%	25%	5%	15%	100%	20%	30%	25%	5%	20%	100%
2024	25%	30%	25%	5%	15%	100%	20%	30%	25%	5%	20%	100%

270													59%	44%	0%	13%	10%	3%	0%	31%	100%
Composition of waste going to solid waste disposal sites																					
Year	Population	Waste per capita	Total MSW	% to SWDS	Food	Garden	Paper	Wood	Textile	Nappies	Plastics, other inert	Total	Year	GDP	Waste generation rate	Total industrial waste	% to SWDS	Total to SWDS			
	millions	kg/cap/yr	Gg	%	%	%	%	%	%	%	%	(=100%)		\$ millions	Gg/\$m GDP/yr	Gg	%	Gg			
2015	0.44	181.98	79.24	59%	44%	0%	13%	10%	3%	0%	31%	100%	2015	0.84	94.00	79.24	50%	39.62			
2016	0.44	181.98	79.78	59%	44%	0%	13%	10%	3%	0%	31%	100%	2016	0.89	89.17	79.78	50%	39.89			
2017	0.44	181.98	80.31	59%	44%	0%	13%	10%	3%	0%	31%	100%	2017	0.94	85.18	80.31	50%	40.15			
2018	0.44	181.98	80.80	59%	44%	0%	13%	10%	3%	0%	31%	100%	2018	1.00	81.06	80.80	50%	40.40			
2019	0.45	181.98	81.29	59%	44%	0%	13%	10%	3%	0%	31%	100%	2019	1.05	77.26	81.29	50%	40.65			
2020	0.46	182.51	84.25	59%	44%	0%	13%	10%	3%	0%	31%	100%	2020	0.99	85.34	84.25	50%	42.12			
2021	0.47	181.18	84.25	59%	44%	0%	13%	10%	3%	0%	31%	100%	2021	0.97	87.06	84.25	50%	42.12			
2022	0.47	180.96	84.92	59%	44%	0%	13%	10%	3%	0%	31%	100%	2022	1.00	85.26	84.92	50%	42.46			
2023	0.47	180.17	84.92	59%	44%	0%	13%	10%	3%	0%	31%	100%	2023	1.03	82.33	84.92	50%	42.46			
2024	0.47	185.10	86.57	59%	44%	0%	13%	10%	3%	0%	31%	100%	2024	1.08	79.98	86.57	50%	43.29			

Amounts deposited in SWDS										
Year	Food	Garden	Paper	Wood	Textile	Nappies	Sludge	Deposited MSW	Inert	Industrial
	Gg	Gg	Gg	Gg	Gg	Gg	Gg	Gg	Gg	Gg
2015	20.34	0.00	6.03	4.63	1.26	0.00	0.00	46.75	14.49	39.62
2016	20.48	0.00	6.07	4.66	1.27	0.00	0.00	47.07	14.59	39.89
2017	20.61	0.00	6.11	4.69	1.28	0.00	0.00	47.38	14.69	40.15
2018	20.74	0.00	6.15	4.72	1.29	0.00	0.00	47.67	14.78	40.40
2019	20.86	0.00	6.19	4.75	1.29	0.00	0.00	47.96	14.87	40.65
2020	21.62	0.00	6.41	4.92	1.34	0.00	0.00	49.71	15.41	42.12
2021	21.62	0.00	6.41	4.92	1.34	0.00	0.00	49.71	15.41	42.12
2022	21.80	0.00	6.46	4.96	1.35	0.00	0.00	50.10	15.53	42.46
2023	21.80	0.00	6.46	4.96	1.35	0.00	0.00	50.10	15.53	42.46
2024	22.22	0.00	6.59	5.06	1.38	0.00	0.00	51.08	15.83	43.29

Methane generated												Methane recovery	Methane emission M = (K-L)*(1-OX) Gg
Year	Food	Garden	Paper	Wood	Textile	Nappies	Sludge	MSW	Industrial	Total	Methane recovery		
	A	B	C	D	E	F	G	H	J	K	L		
	Gg	Gg	Gg	Gg	Gg	Gg	Gg	Gg	Gg	Gg	Gg		
2015	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00		0.00
2016	0.12	0.00	0.03	0.01	0.00	0.00	0.00		0.12	0.29	0.00		0.29
2017	0.22	0.00	0.06	0.03	0.01	0.00	0.00		0.23	0.56	0.00		0.56
2018	0.31	0.00	0.09	0.04	0.01	0.00	0.00		0.34	0.79	0.00		0.79
2019	0.38	0.00	0.12	0.05	0.02	0.00	0.00		0.43	1.00	0.00		1.00
2020	0.44	0.00	0.15	0.07	0.02	0.00	0.00		0.52	1.19	0.00		1.19
2021	0.49	0.00	0.18	0.08	0.02	0.00	0.00		0.61	1.38	0.00		1.38
2022	0.54	0.00	0.20	0.09	0.03	0.00	0.00		0.68	1.54	0.00		1.54
2023	0.58	0.00	0.22	0.10	0.03	0.00	0.00		0.75	1.69	0.00		1.69
2024	0.61	0.00	0.25	0.12	0.03	0.00	0.00		0.82	1.82	0.00		1.82

Lampiran 3 Hasil Perhitungan IPCC Local Parameters (Komposisi 3)

Parameters

Country

INDONESIA

Region

Asia- Southeast

Please enter parameters in the yellow cells. If no national data are available, copy the IPCC default value. Help on parameter selection can be found in the 2006 IPCC guidelines

	IPCC default value		Country-specific parameters	
			Value	Reference and remarks
Starting year		1950	2015	
DOC (Degradable organic carbon) (weight fraction, wet basis)	Waste by composition ▾			
	Range	Default		
Food waste	0.08-0.20	0.15	0.2	
Garden	0.18-0.22	0.2	0.22	
Paper	0.36-0.45	0.4	0.43	
Wood and straw	0.39-0.46	0.43	0.45	
Textiles	0.20-0.40	0.24	0.35	
Disposable nappies	0.18-0.32	0.24	0.25	
Sewage sludge	0.04-0.05	0.05	0.05	
Industrial waste	0-0.54	0.15	0.35	
DOCf (fraction of DOC dissimilated)		0.5	0.5	
Methane generation rate constant (k) (years⁻¹)	Moist and wet tropica ▾			
	Range	Default		
Food waste	0.17-0.7	0.4	0.4	
Garden	0.15-0.2	0.17	0.17	
Paper	0.06-0.085	0.07	0.08	
Wood and straw	0.03-0.05	0.035	0.04	
Textiles	0.06-0.085	0.07	0.08	
Disposable nappies	0.15-0.2	0.17	0.17	
Sewage sludge	0.17-0.7	0.4	0.4	
Industrial waste	0.15-0.2	0.17	0.17	
Delay time (months)		6	6	
Fraction of methane (F) in developed gas		0.5	0.5	
Conversion factor, C to CH₄		1.33	1.33	
Oxidation factor (OX)		0	0	
Parameters for carbon storage				
% paper in industrial waste		0%	10%	
% wood in industrial waste		0%	5%	
For Harwested Wood Products calculations for Bulk waste option only:				

	MSW						Industrial					
	Un-managed, shallow	Un-managed, deep	Managed	Managed, semi-aerobic	Uncategorised	Distribution Check	Un-managed, shallow	Un-managed, deep	Managed	Managed, semi-aerobic	Uncategorised	Distribution Check
IPCC default	0.4	0.8	1	0.5	0.6		0.4	0.8	1	0.5	0.6	
Country-specific value	0.4	0.9	0.8	0.8	0.6		0.3	0.6	0.8	0.8	0.4	
"Fixed" Country-specific value	Distribution of Waste by Waste Management Type						Distribution of Waste by Waste Management Type					
	10%	70%	5%	0%	15%	Total (100%)	10%	70%	5%	0%	15%	Total (100%)
Year	%	%	%	%	%	%	%	%	%	%	%	%
2015	10%	70%	5%	0%	15%	100%	10%	70%	5%	0%	15%	100%
2016	10%	70%	5%	0%	15%	100%	10%	70%	5%	0%	15%	100%
2017	10%	70%	5%	0%	15%	100%	10%	70%	5%	0%	15%	100%
2018	10%	70%	5%	0%	15%	100%	10%	70%	5%	0%	15%	100%
2019	10%	70%	5%	0%	15%	100%	10%	70%	5%	0%	15%	100%
2020	10%	70%	5%	0%	15%	100%	10%	70%	5%	0%	15%	100%
2021	10%	70%	5%	0%	15%	100%	10%	70%	5%	0%	15%	100%
2022	10%	70%	5%	0%	15%	100%	10%	70%	5%	0%	15%	100%
2023	10%	70%	5%	0%	15%	100%	10%	70%	5%	0%	15%	100%
2024	10%	70%	5%	0%	15%	100%	10%	70%	5%	0%	15%	100%

Year	Population millions	Waste per capita kg/cap/yr	Total MSW Gg	Composition of waste going to solid waste disposal sites										Total (=100%)	Year	GDP \$ millions	Waste generation rate Gg/\$m GDP/yr	Total industrial waste Gg	% to SWDS	Total to SWDS Gg
				% to SWDS	Food	Garden	Paper	Wood	Textile	Nappies	Plastics, other inert	%	%							
2015	0.44	181.98	79.23589	99%	30%	32%	3%	8%	2%	2%	23%	100%	2015	0.84	94.00	79.24	50%	39.82		
2016	0.44	181.98	79.78184	99%	30%	32%	3%	8%	2%	2%	23%	100%	2016	0.89	89.17	79.78	50%	39.89		
2017	0.44	181.98	80.3096	99%	30%	32%	3%	8%	2%	2%	23%	100%	2017	0.94	85.18	80.31	50%	40.15		
2018	0.44	181.98	80.80095	99%	30%	32%	3%	8%	2%	2%	23%	100%	2018	1.00	81.06	80.80	50%	40.40		
2019	0.45	181.98	81.29231	99%	30%	32%	3%	8%	2%	2%	23%	100%	2019	1.05	77.26	81.29	50%	40.65		
2020	0.46	182.51	84.24748	99%	30%	32%	3%	8%	2%	2%	23%	100%	2020	0.99	85.34	84.25	50%	42.12		
2021	0.47	181.18	84.24748	99%	30%	32%	3%	8%	2%	2%	23%	100%	2021	0.97	87.06	84.25	50%	42.12		
2022	0.47	180.96	84.92309	99%	30%	32%	3%	8%	2%	2%	23%	100%	2022	1.00	85.26	84.92	50%	42.46		
2023	0.47	180.17	84.92273	99%	30%	32%	3%	8%	2%	2%	23%	100%	2023	1.03	82.33	84.92	50%	42.46		
2024	0.47	185.10	86.57107	99%	30%	32%	3%	8%	2%	2%	23%	100%	2024	1.08	79.98	86.57	50%	43.29		

Year	Amounts deposited in SWDS							Sludge Gg	Deposited MSW Gg	Inert Gg	Industrial Gg
	Food Gg	Garden Gg	Paper Gg	Wood Gg	Textile Gg	Nappies Gg					
2015	23.55	25.12	2.35	6.28	1.81	1.57	0.00	78.50	17.82	39.62	
2016	23.71	25.29	2.37	6.32	1.82	1.58	0.00	79.04	17.94	39.89	
2017	23.87	25.46	2.39	6.36	1.83	1.59	0.00	79.56	18.06	40.15	
2018	24.01	25.62	2.40	6.40	1.84	1.60	0.00	80.05	18.17	40.40	
2019	24.16	25.77	2.42	6.44	1.85	1.61	0.00	80.54	18.28	40.65	
2020	25.04	26.71	2.50	6.68	1.92	1.67	0.00	83.46	18.95	42.12	
2021	25.04	26.71	2.50	6.68	1.92	1.67	0.00	83.46	18.95	42.12	
2022	25.24	26.92	2.52	6.73	1.94	1.68	0.00	84.13	19.10	42.46	
2023	25.24	26.92	2.52	6.73	1.94	1.68	0.00	84.13	19.10	42.46	
2024	25.73	27.44	2.57	6.86	1.97	1.72	0.00	85.77	19.47	43.29	

Year	Methane generated										Methane recovery Gg	Methane emission M = (K-L)*(1-OX) Gg
	Food A Gg	Garden B Gg	Paper C Gg	Wood D Gg	Textile E Gg	Nappies F Gg	Sludge G Gg	MSW H Gg	Industrial J Gg	Total K Gg		
2015	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00
2016	0.41	0.23	0.02	0.03	0.01	0.02	0.00		0.40	1.12	0.00	1.12
2017	0.69	0.43	0.04	0.06	0.03	0.03	0.00		0.74	2.01	0.00	2.01
2018	0.89	0.59	0.06	0.09	0.04	0.04	0.00		1.02	2.72	0.00	2.72
2019	1.02	0.74	0.07	0.11	0.05	0.05	0.00		1.27	3.31	0.00	3.31
2020	1.11	0.86	0.09	0.14	0.06	0.06	0.00		1.48	3.79	0.00	3.79
2021	1.18	0.97	0.11	0.16	0.07	0.07	0.00		1.67	4.22	0.00	4.22
2022	1.23	1.06	0.12	0.19	0.07	0.08	0.00		1.83	4.58	0.00	4.58
2023	1.27	1.14	0.13	0.21	0.08	0.08	0.00		1.97	4.89	0.00	4.89
2024	1.29	1.21	0.14	0.24	0.09	0.09	0.00		2.09	5.15	0.00	5.15

Lampiran 4 Hasil Perhitungan IPCC Local Parameters (Komposisi 4)

Parameters

Country

INDONESIA

Region

Asia- Southeast

Please enter parameters in the yellow cells. If no national data are available, copy the IPCC default value. Help on parameter selection can be found in the 2006 IPCC guidelines

	IPCC default value		Country-specific parameters	
			Value	Reference and remarks
Starting year		1950	2015	
DOC (Degradable organic carbon) (weight fraction, wet basis)	Waste by composition ▾			
	Range	Default		
Food waste	0.08-0.20	0.15	0.2	
Garden	0.18-0.22	0.2	0.22	
Paper	0.36-0.45	0.4	0.43	
Wood and straw	0.39-0.46	0.43	0.45	
Textiles	0.20-0.40	0.24	0.35	
Disposable nappies	0.18-0.32	0.24	0.25	
Sewage sludge	0.04-0.05	0.05	0.05	
Industrial waste	0-0.54	0.15	0.35	
DOCf (fraction of DOC dissimilated)		0.5	0.5	
Methane generation rate constant (k) (years⁻¹)	Moist and wet tropica ▾			
	Range	Default		
Food waste	0.17-0.7	0.4	0.4	
Garden	0.15-0.2	0.17	0.17	
Paper	0.06-0.085	0.07	0.08	
Wood and straw	0.03-0.05	0.035	0.04	
Textiles	0.06-0.085	0.07	0.08	
Disposable nappies	0.15-0.2	0.17	0.17	
Sewage sludge	0.17-0.7	0.4	0.4	
Industrial waste	0.15-0.2	0.17	0.17	
Delay time (months)		6	6	
Fraction of methane (F) in developed gas		0.5	0.5	
Conversion factor, C to CH₄		1.33	1.33	
Oxidation factor (OX)		0	0	
Parameters for carbon storage				
% paper in industrial waste		0%	10%	
% wood in industrial waste		0%	5%	
For Harwested Wood Products calculations for Bulk waste option only:				

	MSW						Industrial					
	Un-managed, shallow MCF	Un-managed, deep MCF	Managed MCF	Managed, semi-aerobic MCF	Uncate-gorised MCF	Distrib-ution Check	Un-managed, shallow MCF	Un-managed, deep MCF	Managed MCF	Managed, semi-aerobic MCF	Uncate-gorised MCF	Distrib-ution Check
IPCC default	0.4	0.8	1	0.5	0.6		0.4	0.8	1	0.5	0.6	
Country-specific value	0.4	0.9	0.8	0.8	0.6		0.3	0.6	0.8	0.8	0.4	
	Distribution of Waste by Waste Management Type						Distribution of Waste by Waste Management Type					
"Fixed" Country-specific value	10%	70%	5%	0%	15%	Total (100%)	10%	70%	5%	0%	15%	Total (100%)
Year	%	%	%	%	%		%	%	%	%	%	
2015	10%	70%	5%	0%	15%	100%	10%	70%	5%	0%	15%	100%
2016	10%	70%	5%	0%	15%	100%	10%	70%	5%	0%	15%	100%
2017	10%	70%	5%	0%	15%	100%	10%	70%	5%	0%	15%	100%
2018	10%	70%	5%	0%	15%	100%	10%	70%	5%	0%	15%	100%
2019	10%	70%	5%	0%	15%	100%	10%	70%	5%	0%	15%	100%
2020	10%	70%	5%	0%	15%	100%	10%	70%	5%	0%	15%	100%
2021	10%	70%	5%	0%	15%	100%	10%	70%	5%	0%	15%	100%
2022	10%	70%	5%	0%	15%	100%	10%	70%	5%	0%	15%	100%
2023	10%	70%	5%	0%	15%	100%	10%	70%	5%	0%	15%	100%
2024	10%	70%	5%	0%	15%	100%	10%	70%	5%	0%	15%	100%

Composition of waste going to solid waste disposal sites												Waste generation rate						
Year	Population	Waste per capita	Total MSW	% to SWDS	Food	Garden	Paper	Wood	Textile	Nappies	Plastics, other inert	Total	Year	GDP	Waste generation rate	Total industrial waste	% to SWDS	Total to SWDS
	millions	kg/cap/yr	Gg	%	%	%	%	%	%	%	%	(=100%)		\$ millions	Gg/\$m GDP/yr	Gg	%	Gg
2015	0.44	181.98	79.24	99%	5%	31%	37%	8%	1%	2%	16%	100%	2015	0.84	94.00	79.24	50%	39.62
2016	0.44	181.98	79.78	99%	5%	31%	37%	8%	1%	2%	16%	100%	2016	0.89	89.17	79.78	50%	39.89
2017	0.44	181.98	80.31	99%	5%	31%	37%	8%	1%	2%	16%	100%	2017	0.94	85.18	80.31	50%	40.15
2018	0.44	181.98	80.80	99%	5%	31%	37%	8%	1%	2%	16%	100%	2018	1.00	81.06	80.80	50%	40.40
2019	0.45	181.98	81.29	99%	5%	31%	37%	8%	1%	2%	16%	100%	2019	1.05	77.26	81.29	50%	40.65
2020	0.46	182.51	84.25	99%	5%	31%	37%	8%	1%	2%	16%	100%	2020	0.99	85.34	84.25	50%	42.12
2021	0.47	181.18	84.25	99%	5%	31%	37%	8%	1%	2%	16%	100%	2021	0.97	87.06	84.25	50%	42.12
2022	0.47	180.96	84.92	99%	5%	31%	37%	8%	1%	2%	16%	100%	2022	1.00	85.26	84.92	50%	42.46
2023	0.47	180.17	84.92	99%	5%	31%	37%	8%	1%	2%	16%	100%	2023	1.03	82.33	84.92	50%	42.46
2024	0.47	185.10	86.57	99%	5%	31%	37%	8%	1%	2%	16%	100%	2024	1.08	79.98	86.57	50%	43.29

Amounts deposited in SWDS										
Year	Food	Garden	Paper	Wood	Textile	Nappies	Sludge	Deposited MSW	Inert	Industrial
	Gg	Gg	Gg	Gg	Gg	Gg	Gg	Gg	Gg	Gg
2015	3.92	24.33	29.04	6.28	0.78	1.57	0.00	78.50	12.56	39.62
2016	3.95	24.50	29.24	6.32	0.79	1.58	0.00	79.04	12.65	39.89
2017	3.98	24.66	29.44	6.36	0.80	1.59	0.00	79.56	12.73	40.15
2018	4.00	24.82	29.62	6.40	0.80	1.60	0.00	80.05	12.81	40.40
2019	4.03	24.97	29.80	6.44	0.81	1.61	0.00	80.54	12.89	40.65
2020	4.17	25.87	30.88	6.68	0.83	1.67	0.00	83.46	13.35	42.12
2021	4.17	25.87	30.88	6.68	0.83	1.67	0.00	83.46	13.35	42.12
2022	4.21	26.08	31.13	6.73	0.84	1.68	0.00	84.13	13.46	42.46
2023	4.21	26.08	31.13	6.73	0.84	1.68	0.00	84.13	13.46	42.46
2024	4.29	26.59	31.73	6.86	0.86	1.72	0.00	85.77	13.72	43.29

Methane generated												Methane recovery	Methane emission
Year	Food	Garden	Paper	Wood	Textile	Nappies	Sludge	MSW	Industrial	Total	Methane recovery		
	A	B	C	D	E	F	G	H	J	K	L		
	Gg	Gg	Gg	Gg	Gg	Gg	Gg	Gg	Gg	Gg	Gg		
2015	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00		0.00
2016	0.07	0.22	0.26	0.03	0.01	0.02	0.00		0.40	1.00	0.00		1.00
2017	0.12	0.41	0.49	0.06	0.01	0.03	0.00		0.74	1.86	0.00		1.86
2018	0.15	0.57	0.72	0.09	0.02	0.04	0.00		1.02	2.60	0.00		2.60
2019	0.17	0.71	0.92	0.11	0.02	0.05	0.00		1.27	3.26	0.00		3.26
2020	0.18	0.83	1.11	0.14	0.02	0.06	0.00		1.48	3.83	0.00		3.83
2021	0.20	0.94	1.30	0.16	0.03	0.07	0.00		1.67	4.37	0.00		4.37
2022	0.21	1.03	1.47	0.19	0.03	0.08	0.00		1.83	4.83	0.00		4.83
2023	0.21	1.11	1.63	0.21	0.04	0.08	0.00		1.97	5.25	0.00		5.25
2024	0.22	1.17	1.78	0.24	0.04	0.09	0.00		2.09	5.62	0.00		5.62

Lampiran 5 Hasil Perhitungan Proyeksi IPCC Local Parameters

Parameters

Country

INDONESIA

Region

Asia- Southeast

Please enter parameters in the yellow cells. If no national data are available, copy the IPCC default value. Help on parameter selection can be found in the 2006 IPCC guidelines

	IPCC default value		Country-specific parameters	
			Value	Reference and remarks
Starting year		1950	2015	
DOC (Degradable organic carbon) (weight fraction, wet basis)	Waste by composition ▾			
	Range	Default		
Food waste	0.08-0.20	0.15	0.2	
Garden	0.18-0.22	0.2	0.22	
Paper	0.36-0.45	0.4	0.43	
Wood and straw	0.39-0.46	0.43	0.45	
Textiles	0.20-0.40	0.24	0.35	
Disposable nappies	0.18-0.32	0.24	0.25	
Sewage sludge	0.04-0.05	0.05	0.05	
Industrial waste	0-0.54	0.15	0.35	
DOCf (fraction of DOC dissimilated)		0.5	0.5	
Methane generation rate constant (k) (years⁻¹)	Moist and wet tropica ▾			
	Range	Default		
Food waste	0.17-0.7	0.4	0.4	
Garden	0.15-0.2	0.17	0.17	
Paper	0.06-0.085	0.07	0.08	
Wood and straw	0.03-0.05	0.035	0.04	
Textiles	0.06-0.085	0.07	0.08	
Disposable nappies	0.15-0.2	0.17	0.17	
Sewage sludge	0.17-0.7	0.4	0.4	
Industrial waste	0.15-0.2	0.17	0.17	
Delay time (months)		6	6	
Fraction of methane (F) in developed gas		0.5	0.5	
Conversion factor, C to CH₄		1.33	1.33	
Oxidation factor (OX)		0	0	
Parameters for carbon storage				
% paper in industrial waste		0%	10%	
% wood in industrial waste		0%	5%	
For Harwested Wood Products calculations for Bulk waste option only:				

	MSW					Industrial						
	Un-managed, shallow MCF	Un-managed, deep MCF	Managed MCF	Managed, semi-aerobic MCF	Uncate-gorised MCF	Distri-bution Check	Un-managed, shallow MCF	Un-managed, deep MCF	Managed MCF	Managed, semi-aerobic MCF	Uncate-gorised MCF	Distri-bution Check
IPCC default	0.4	0.8	1	0.5	0.6		0.4	0.8	1	0.5	0.6	
Country-specific value	0.4	0.9	0.8	0.8	0.6		0.3	0.6	0.8	0.8	0.4	
	Distribution of Waste by Waste Management Type						Distribution of Waste by Waste Management Type					
"Fixed" Country-specific value	10%	70%	5%	0%	15%	Total (100%)	10%	70%	5%	0%	15%	Total (100%)
Year	%	%	%	%	%	%	%	%	%	%	%	%
2025	10%	70%	5%	0%	15%	100%	10%	70%	5%	0%	15%	100%
2026	10%	70%	5%	0%	15%	100%	10%	70%	5%	0%	15%	100%
2027	10%	70%	5%	0%	15%	100%	10%	70%	5%	0%	15%	100%
2028	10%	70%	5%	0%	15%	100%	10%	70%	5%	0%	15%	100%
2029	10%	70%	5%	0%	15%	100%	10%	70%	5%	0%	15%	100%
2030	10%	70%	5%	0%	15%	100%	10%	70%	5%	0%	15%	100%
2031	10%	70%	5%	0%	15%	100%	10%	70%	5%	0%	15%	100%
2032	10%	70%	5%	0%	15%	100%	10%	70%	5%	0%	15%	100%
2033	10%	70%	5%	0%	15%	100%	10%	70%	5%	0%	15%	100%
2034	10%	70%	5%	0%	15%	100%	10%	70%	5%	0%	15%	100%
2035	10%	70%	5%	0%	15%	100%	10%	70%	5%	0%	15%	100%
2036	10%	70%	5%	0%	15%	100%	10%	70%	5%	0%	15%	100%
2037	10%	70%	5%	0%	15%	100%	10%	70%	5%	0%	15%	100%
2038	10%	70%	5%	0%	15%	100%	10%	70%	5%	0%	15%	100%
2039	10%	70%	5%	0%	15%	100%	10%	70%	5%	0%	15%	100%
2040	10%	70%	5%	0%	15%	100%	10%	70%	5%	0%	15%	100%
2041	10%	70%	5%	0%	15%	100%	10%	70%	5%	0%	15%	100%
2042	10%	70%	5%	0%	15%	100%	10%	70%	5%	0%	15%	100%
2043	10%	70%	5%	0%	15%	100%	10%	70%	5%	0%	15%	100%
2044	10%	70%	5%	0%	15%	100%	10%	70%	5%	0%	15%	100%
2045	10%	70%	5%	0%	15%	100%	10%	70%	5%	0%	15%	100%
2046	10%	70%	5%	0%	15%	100%	10%	70%	5%	0%	15%	100%
2047	10%	70%	5%	0%	15%	100%	10%	70%	5%	0%	15%	100%
2048	10%	70%	5%	0%	15%	100%	10%	70%	5%	0%	15%	100%
2049	10%	70%	5%	0%	15%	100%	10%	70%	5%	0%	15%	100%
2050	10%	70%	5%	0%	15%	100%	10%	70%	5%	0%	15%	100%

181.9841 | 99% | 29% | 32% | 3% | 8% | 2% | 3% | 23% | 100%

Composition of waste going to solid waste disposal sites

Year	Population	Waste per capita	Total MSW	% to SWDS	Food	Garden	Paper	Wood	Textile	Nappies	Plastics, other inert	Total
	millions	kg/cap/yr	Gg	%	%	%	%	%	%	%	%	(=100%)
2025	0.47	148.08	69.67	30%	29%	32%	3%	8%	2%	3%	23%	100%
2026	0.47	118.46	56.07	30%	29%	32%	3%	8%	2%	3%	23%	100%
2027	0.48	94.77	45.13	30%	29%	32%	3%	8%	2%	3%	23%	100%
2028	0.48	75.82	36.32	30%	29%	32%	3%	8%	2%	3%	23%	100%
2029	0.48	60.65	29.23	30%	29%	32%	3%	8%	2%	3%	23%	100%
2030	0.48	48.52	23.52	30%	29%	32%	3%	8%	2%	3%	23%	100%
2031	0.49	38.82	18.93	30%	29%	32%	3%	8%	2%	3%	23%	100%
2032	0.49	31.05	15.24	30%	29%	32%	3%	8%	2%	3%	23%	100%
2033	0.49	24.84	12.26	30%	29%	32%	3%	8%	2%	3%	23%	100%
2034	0.50	19.87	9.87	30%	29%	32%	3%	8%	2%	3%	23%	100%
2035	0.50	15.90	7.94	30%	29%	32%	3%	8%	2%	3%	23%	100%
2036	0.50	12.72	6.39	30%	29%	32%	3%	8%	2%	3%	23%	100%
2037	0.51	10.18	5.14	30%	29%	32%	3%	8%	2%	3%	23%	100%
2038	0.51	8.14	4.14	30%	29%	32%	3%	8%	2%	3%	23%	100%
2039	0.51	6.51	3.33	30%	29%	32%	3%	8%	2%	3%	23%	100%
2040	0.51	5.21	2.68	30%	29%	32%	3%	8%	2%	3%	23%	100%
2041	0.52	4.17	2.16	30%	29%	32%	3%	8%	2%	3%	23%	100%
2042	0.52	3.33	1.74	30%	29%	32%	3%	8%	2%	3%	23%	100%
2043	0.52	2.67	1.40	30%	29%	32%	3%	8%	2%	3%	23%	100%
2044	0.53	2.13	1.12	30%	29%	32%	3%	8%	2%	3%	23%	100%
2045	0.53	1.71	0.91	30%	29%	32%	3%	8%	2%	3%	23%	100%
2046	0.53	1.37	0.73	30%	29%	32%	3%	8%	2%	3%	23%	100%
2047	0.54	1.09	0.59	30%	29%	32%	3%	8%	2%	3%	23%	100%
2048	0.54	0.87	0.47	30%	29%	32%	3%	8%	2%	3%	23%	100%
2049	0.54	0.70	0.38	30%	29%	32%	3%	8%	2%	3%	23%	100%
2050	0.55	0.56	0.31	30%	29%	32%	3%	8%	2%	3%	23%	100%

Year	GDP	Waste generation rate	Total industrial waste	% to SWDS	Total to SWDS
	\$ millions	Gg/\$m GDP/yr	Gg	%	Gg
2025	0.98	84.00	82.27	5%	4.11
2026	0.98	84.00	82.27	5%	4.11
2027	0.98	84.00	82.27	5%	4.11
2028	0.98	84.00	82.27	5%	4.11
2029	0.98	84.00	82.27	5%	4.11
2030	0.98	84.00	82.27	5%	4.11
2031	0.98	84.00	82.27	5%	4.11
2032	0.98	84.00	82.27	5%	4.11
2033	0.98	84.00	82.27	5%	4.11
2034	0.98	84.00	82.27	5%	4.11
2035	0.98	84.00	82.27	5%	4.11
2036	0.98	84.00	82.27	5%	4.11
2037	0.98	84.00	82.27	5%	4.11
2038	0.98	84.00	82.27	5%	4.11
2039	0.98	84.00	82.27	5%	4.11
2040	0.98	84.00	82.27	5%	4.11
2041	0.98	84.00	82.27	5%	4.11
2042	0.98	84.00	82.27	5%	4.11
2043	0.98	84.00	82.27	5%	4.11
2044	0.98	84.00	82.27	5%	4.11
2045	0.98	84.00	82.27	5%	4.11
2046	0.98	84.00	82.27	5%	4.11
2047	0.98	84.00	82.27	5%	4.11
2048	0.98	84.00	82.27	5%	4.11
2049	0.98	84.00	82.27	5%	4.11
2050	0.98	84.00	82.27	5%	4.11

Amounts deposited in SWDS										
Year	Food Gg	Garden Gg	Paper Gg	Wood Gg	Textile Gg	Nappies Gg	Sludge Gg	Deposited MSW Gg	Inert Gg	Industrial Gg
2025	6.10	6.64	0.59	1.67	0.48	0.63	0.00	20.90	4.79	4.11
2026	4.91	5.34	0.48	1.35	0.38	0.50	0.00	16.82	3.86	4.11
2027	3.95	4.30	0.38	1.08	0.31	0.41	0.00	13.54	3.10	4.11
2028	3.18	3.46	0.31	0.87	0.25	0.33	0.00	10.90	2.50	4.11
2029	2.56	2.78	0.25	0.70	0.20	0.26	0.00	8.77	2.01	4.11
2030	2.06	2.24	0.20	0.56	0.16	0.21	0.00	7.06	1.62	4.11
2031	1.66	1.80	0.16	0.45	0.13	0.17	0.00	5.68	1.30	4.11
2032	1.33	1.45	0.13	0.37	0.10	0.14	0.00	4.57	1.05	4.11
2033	1.07	1.17	0.10	0.29	0.08	0.11	0.00	3.68	0.84	4.11
2034	0.86	0.94	0.08	0.24	0.07	0.09	0.00	2.96	0.68	4.11
2035	0.70	0.76	0.07	0.19	0.05	0.07	0.00	2.38	0.55	4.11
2036	0.56	0.61	0.05	0.15	0.04	0.06	0.00	1.92	0.44	4.11
2037	0.45	0.49	0.04	0.12	0.04	0.05	0.00	1.54	0.35	4.11
2038	0.36	0.39	0.04	0.10	0.03	0.04	0.00	1.24	0.28	4.11
2039	0.29	0.32	0.03	0.08	0.02	0.03	0.00	1.00	0.23	4.11
2040	0.23	0.26	0.02	0.06	0.02	0.02	0.00	0.80	0.18	4.11
2041	0.19	0.21	0.02	0.05	0.01	0.02	0.00	0.65	0.15	4.11
2042	0.15	0.17	0.01	0.04	0.01	0.02	0.00	0.52	0.12	4.11
2043	0.12	0.13	0.01	0.03	0.01	0.01	0.00	0.42	0.10	4.11
2044	0.10	0.11	0.01	0.03	0.01	0.01	0.00	0.34	0.08	4.11
2045	0.08	0.09	0.01	0.02	0.01	0.01	0.00	0.27	0.06	4.11
2046	0.06	0.07	0.01	0.02	0.00	0.01	0.00	0.22	0.05	4.11
2047	0.05	0.06	0.00	0.01	0.00	0.01	0.00	0.18	0.04	4.11
2048	0.04	0.04	0.00	0.01	0.00	0.00	0.00	0.14	0.03	4.11
2049	0.03	0.04	0.00	0.01	0.00	0.00	0.00	0.11	0.03	4.11
2050	0.03	0.03	0.00	0.01	0.00	0.00	0.00	0.09	0.02	4.11

Methane generated												Methane emission $M = (K-L) \cdot (1 - OX)$ Gg
Year	Food A Gg	Garden B Gg	Paper C Gg	Wood D Gg	Textile E Gg	Nappies F Gg	Sludge G Gg	MSW H Gg	Industrial J Gg	Total K Gg	Methane recovery L Gg	
2025	1.29	1.26	0.15	0.26	0.10	0.14	0.00		2.20	5.39	0.00	
2026	0.97	1.13	0.14	0.26	0.09	0.12	0.00		1.89	4.60	0.00	4.60
2027	0.74	1.00	0.13	0.25	0.09	0.11	0.00		1.64	3.96	0.00	3.96
2028	0.56	0.88	0.13	0.25	0.08	0.09	0.00		1.42	3.43	0.00	3.43
2029	0.43	0.78	0.12	0.24	0.08	0.08	0.00		1.24	2.98	0.00	2.98
2030	0.34	0.68	0.11	0.24	0.07	0.07	0.00		1.09	2.60	0.00	2.60
2031	0.26	0.59	0.11	0.23	0.07	0.06	0.00		0.96	2.29	0.00	2.29
2032	0.20	0.52	0.10	0.22	0.07	0.06	0.00		0.85	2.02	0.00	2.02
2033	0.16	0.45	0.09	0.22	0.06	0.05	0.00		0.76	1.79	0.00	1.79
2034	0.13	0.39	0.09	0.21	0.06	0.04	0.00		0.68	1.60	0.00	1.60
2035	0.10	0.34	0.08	0.20	0.05	0.04	0.00		0.62	1.43	0.00	1.43
2036	0.08	0.29	0.08	0.20	0.05	0.03	0.00		0.56	1.29	0.00	1.29
2037	0.06	0.25	0.07	0.19	0.05	0.03	0.00		0.52	1.16	0.00	1.16
2038	0.05	0.22	0.07	0.18	0.04	0.02	0.00		0.48	1.06	0.00	1.06
2039	0.04	0.19	0.06	0.17	0.04	0.02	0.00		0.44	0.96	0.00	0.96
2040	0.03	0.16	0.06	0.17	0.04	0.02	0.00		0.41	0.89	0.00	0.89
2041	0.03	0.14	0.05	0.16	0.03	0.01	0.00		0.39	0.82	0.00	0.82
2042	0.02	0.12	0.05	0.16	0.03	0.01	0.00		0.37	0.76	0.00	0.76
2043	0.02	0.10	0.04	0.15	0.03	0.01	0.00		0.35	0.71	0.00	0.71
2044	0.01	0.09	0.04	0.14	0.03	0.01	0.00		0.34	0.66	0.00	0.66
2045	0.01	0.07	0.04	0.14	0.02	0.01	0.00		0.33	0.62	0.00	0.62
2046	0.01	0.06	0.04	0.13	0.02	0.01	0.00		0.32	0.59	0.00	0.59
2047	0.01	0.05	0.03	0.13	0.02	0.01	0.00		0.31	0.56	0.00	0.56
2048	0.01	0.05	0.03	0.12	0.02	0.00	0.00		0.30	0.53	0.00	0.53
2049	0.00	0.04	0.03	0.12	0.02	0.00	0.00		0.30	0.51	0.00	0.51
2050	0.00	0.03	0.03	0.11	0.02	0.00	0.00		0.29	0.49	0.00	0.49