

Lampiran 1. Pendugaan Distribusi Sedimen Waduk Cirata dengan menggunakan Metode *Empirical Area Reduction*

Tipe Waduk : II

Pendugaan Operasi Waduk : 50 Tahun

Total Sedimen Deposit : $183.150 \times 10^6 \text{ m}^3$

Elev. (m)	Ked. (m)	Ked. Relatif	Luas (m ²)	Kap. Awal (juta m ³)	Ap	Luas Sed. (Ha)	Vol. Sedimen (juta m ³)	Akumulasi Sed. (juta m ³)	Revisi Luas (Ha)	Revisi Kap. Waduk (juta m ³)
220	97	1	61.315	1783.843	0.000	0	3.604	183.975	61.315	1599.867
215	92	0.948	52.523	1499.532	0.691	1.441	8.228	180.371	51.081	1319.16
210	87	0.897	47.733	1248.987	0.887	1.849	9.904	172.143	45.883	1076.844
205	82	0.845	40.665	1028.226	1.013	2.112	11.020	162.238	38.552	865.987
200	77	0.794	35.444	838.102	1.101	2.296	11.810	151.217	33.147	686.884
195	72	0.742	31.148	671.736	1.164	2.427	12.367	139.407	28.720	532.328
190	67	0.691	27.247	525.856	1.208	2.519	12.741	127.039	24.727	398.816
185	62	0.639	23.376	399.421	1.236	2.577	12.961	114.298	20.798	285.122
180	57	0.588	18.357	295.339	1.250	2.606	13.042	101.337	15.750	194.001
175	52	0.536	13.959	214.799	1.251	2.610	12.995	88.294	11.348	126.504
170	47	0.485	10.996	152.558	1.241	2.588	12.825	75.298	8.407	77.259
165	42	0.433	8.315	104.437	1.219	2.541	12.529	62.473	5.773	41.963
160	37	0.381	5.827	69.266	1.184	2.470	12.105	49.943	3.356	19.322
155	32	0.330	4.225	44.244	1.137	2.371	11.540	37.838	1.853	6.405
150	27	0.278	2.876	26.601	1.076	2.244	9.094	26.297	0.631	0.303
146	23	0.237	2.118	17.055	1.016	2.303	2.116	17.203	-0.185	-0.148
145	22	0.227	1.929	14.668	0.999	1.929	7.6775	15.087	0	-0.419
140	17	0.175	1.142	7.076	0.901	1.142	4.3025	7.4095	0	-0.333
135	12	0.124	0.579	2.85	0.775	0.579	2.1325	3.107	0	-0.257
130	7	0.072	0.274	0.762	0.606	0.274	0.8025	0.974	0	-0.212
125	2	0.021	0.047	0.039	0.331	0.047	0.049	0.172	0	-0.133
123	0	0.000	0.002	0	0.000	0.002	0.123	0.123	0	-0.123

Elevasi Nol Baru : 145

Luas : 1.929

Ap : 0.999

K : 2.086

Lampiran 2. Pendugaan Distribusi Sedimen Waduk Cirata dengan menggunakan Metode *Empirical Area Reduction*

Tipe Waduk : II
 Pendugaan Operasi Waduk : 100 Tahun
 Total Sedimen Deposit : $366.3 \times 10^6 \text{ m}^3$

Elev. (m)	Ked. (m)	Ked. Relatif	Luas (m ²)	Kap. Awal (juta m ³)	Ap	Luas Sed. (Ha)	Vol. Sedimen (juta m ³)	Akumulasi Sed. (juta m ³)	Revisi Luas (Ha)	Revisi Kap. Waduk (juta m ³)
220	97	1	61.315	1783.843	0.000	0.000	8.092	368.371	61.315	1415.472
215	92	0.948	52.523	1499.532	0.691	3.237	18.475	360.279	49.286	1139.253
210	87	0.897	47.733	1248.987	0.887	4.153	22.239	341.804	43.580	907.183
205	82	0.845	40.665	1028.226	1.013	4.742	24.745	319.566	35.923	708.660
200	77	0.794	35.444	838.102	1.101	5.156	26.517	294.821	30.288	543.281
195	72	0.742	31.148	671.736	1.164	5.451	27.768	268.304	25.697	403.432
190	67	0.691	27.247	525.856	1.208	5.656	28.608	240.537	21.591	285.319
185	62	0.639	23.376	399.421	1.236	5.787	29.101	211.929	17.589	187.492
180	57	0.588	18.357	295.339	1.250	5.853	29.284	182.828	12.504	112.511
175	52	0.536	13.959	214.799	1.251	5.860	29.179	153.545	8.099	61.254
170	47	0.485	10.996	152.558	1.241	5.811	28.795	124.366	5.185	28.192
165	42	0.433	8.315	104.437	1.219	5.707	28.133	95.570	2.608	8.867
160	37	0.381	5.827	69.266	1.184	5.546	5.046	67.438	0.281	1.828
159	36	0.371	5.507	65.705	1.176	4.545	17.540	62.392	0.962	3.313
155	32	0.330	4.225	44.244	1.137	4.225	17.753	44.852	0.000	-0.608
150	27	0.293	2.876	26.601	1.096	2.876	12.013	27.100	0.000	-0.499
145	22	0.239	1.929	14.668	1.019	1.929	7.678	15.087	0.000	-0.419
140	17	0.185	1.142	7.076	0.921	1.142	4.303	7.410	0.000	-0.334
135	12	0.124	0.579	2.85	0.775	0.579	2.133	3.107	0.000	-0.257
130	7	0.072	0.274	0.762	0.606	0.274	0.803	0.975	0.000	-0.213
125	2	0.021	0.047	0.039	0.331	0.047	0.049	0.172	0.000	-0.133
123	0	0.000	0.002	0	0.000	0.002	0.123	0.123	0.000	-0.123

Elevasi Nol Baru : 159

Luas : 5.507

Ap : 1.176

K : 4.683

Lampiran 3. Pendugaan Distribusi Sedimen Waduk Cirata dengan menggunakan Metode *Empirical Area Reduction*

Tipe Waduk : II
 Pendugaan Operasi Waduk : 150 Tahun
 Total Sedimen Deposit : $549.45 \times 10^6 \text{ m}^3$

Elev. (m)	Ked. (m)	Ked. Relatif	Luas (m ²)	Kap. Awal (juta m ³)	Ap	Luas Sed. (Ha)	Vol. Sedimen (juta m ³)	Akumulasi Sed. (juta m ³)	Revisi Luas (Ha)	Revisi Kap. Waduk (juta m ³)
220	97	1	61.315	1783.843	0.000	0.000	13.269	550.127	61.315	1233.716
215	92	0.948	52.523	1499.532	0.691	5.308	30.295	536.858	47.215	962.674
210	87	0.897	47.733	1248.987	0.887	6.810	36.466	506.563	40.923	742.424
205	82	0.845	40.665	1028.226	1.013	7.776	40.576	470.097	32.889	558.129
200	77	0.794	35.444	838.102	1.101	8.454	43.482	429.521	26.990	408.581
195	72	0.742	31.148	671.736	1.164	8.938	45.533	386.040	22.210	285.696
190	67	0.691	27.247	525.856	1.208	9.275	46.910	340.507	17.972	185.349
185	62	0.639	23.376	399.421	1.236	9.489	47.718	293.596	13.887	105.825
180	57	0.588	18.357	295.339	1.250	9.598	48.019	245.878	8.759	49.461
175	52	0.536	13.959	214.799	1.251	9.610	47.847	197.859	4.349	16.940
170	47	0.485	10.996	152.558	1.241	9.529	26.651	150.012	1.467	2.546
167.1	44.1	0.454	9.441	114.061	1.230	8.851	18.024	123.361	0.590	-9.300
165	42	0.433	8.315	104.437	1.219	8.315	35.355	105.337	0.000	-0.900
160	37	0.381	5.827	69.266	1.184	5.827	25.130	69.982	0.000	-0.716
155	32	0.330	4.225	44.244	1.137	4.225	17.753	44.852	0.000	-0.608
150	27	0.278	2.876	26.601	1.076	2.876	12.013	27.100	0.000	-0.499
145	22	0.227	1.929	14.668	0.999	1.929	7.678	15.087	0.000	-0.419
140	17	0.175	1.142	7.076	0.901	1.142	4.303	7.410	0.000	-0.334
135	12	0.124	0.579	2.85	0.775	0.579	2.133	3.107	0.000	-0.257
130	7	0.072	0.274	0.762	0.606	0.274	0.803	0.975	0.000	-0.213
125	2	0.021	0.047	0.039	0.331	0.047	0.049	0.172	0.000	-0.133
123	0	0.000	0.002	0	0.000	0.002	0.123	0.123	0.000	-0.123

Elevasi Nol Baru : 167.1

Luas : 9.441

Ap : 1.230

K : 7.678

Lampiran 4. Pendugaan Distribusi Sedimen Waduk Cirata dengan menggunakan Metode *Empirical Area Reduction*

Tipe Waduk : II
 Pendugaan Operasi Waduk : 200 Tahun
 Total Sedimen Deposit : $732.6 \times 10^6 \text{ m}^3$

Elev. (m)	Ked. (m)	Ked. Relatif	Luas (m ²)	Kap. Awal (juta m ³)	Ap	Luas Sed. (Ha)	Vol. Sedimen (juta m ³)	Akumulasi Sed. (juta m ³)	Revisi Luas (Ha)	Revisi Kap. Waduk (juta m ³)
220	97	1	61.315	1783.843	0.000	0.000	19.275	732.127	61.315	1051.716
215	92	0.948	52.523	1499.532	0.691	7.710	44.007	712.852	44.813	786.680
210	87	0.897	47.733	1248.987	0.887	9.893	52.972	668.845	37.840	580.142
205	82	0.845	40.665	1028.226	1.013	11.296	58.941	615.873	29.369	412.353
200	77	0.794	35.444	838.102	1.101	12.281	63.162	556.932	23.163	281.170
195	72	0.742	31.148	671.736	1.164	12.984	66.142	493.770	18.164	177.966
190	67	0.691	27.247	525.856	1.208	13.473	68.143	427.629	13.774	98.227
185	62	0.639	23.376	399.421	1.236	13.784	69.317	359.486	9.592	39.935
180	57	0.588	18.357	295.339	1.250	13.942	44.490	290.169	4.415	5.170
177	54	0.556	15.718	247.015	1.252	15.718	29.677	245.679	0.000	1.336
175	52	0.536	13.959	214.799	1.251	13.959	62.388	216.002	0.000	-1.203
170	47	0.485	10.996	152.558	1.241	10.996	48.278	153.615	0.000	-1.057
165	42	0.433	8.315	104.437	1.219	8.315	35.355	105.337	0.000	-0.900
160	37	0.381	5.827	69.266	1.184	5.827	25.130	69.982	0.000	-0.716
155	32	0.330	4.225	44.244	1.137	4.225	17.753	44.852	0.000	-0.608
150	27	0.278	2.876	26.601	1.076	2.876	12.013	27.100	0.000	-0.499
145	22	0.227	1.929	14.668	0.999	1.929	7.678	15.087	0.000	-0.419
140	17	0.175	1.142	7.076	0.901	1.142	4.303	7.410	0.000	-0.334
135	12	0.124	0.579	2.85	0.775	0.579	2.133	3.107	0.000	-0.257
130	7	0.072	0.274	0.762	0.606	0.274	0.803	0.975	0.000	-0.213
125	2	0.021	0.047	0.039	0.331	0.047	0.049	0.172	0.000	-0.133
123	0	0.000	0.002	0	0.000	0.002	0.123	0.123	0.000	-0.123

Elevasi Nol Baru : 177

Luas : 15.718

Ap : 1.252

K : 11.154

Lampiran 5. Pendugaan Distribusi Sedimen Waduk Cirata dengan menggunakan Metode *Empirical Area Reduction*

Tipe Waduk : II
 Pendugaan Operasi Waduk : 250 Tahun
 Total Sedimen Deposit : $915.75 \times 10^6 \text{ m}^3$

Elev. (m)	Ked. (m)	Ked. Relatif	Luas (m ²)	Kap. Awal (juta m ³)	Ap	Luas Sed. (Ha)	Vol. Sedimen (juta m ³)	Akumul asi Sed. (juta m ³)	Revisi Luas (Ha)	Revisi Kap. Waduk (juta m ³)
220	97	1	61.315	1783.843	0.000	0.000	27.023	915.779	61.315	868.064
215	92	0.948	52.523	1499.532	0.691	10.809	61.698	888.755	41.714	610.777
210	87	0.897	47.733	1248.987	0.887	13.870	74.267	827.057	33.863	421.930
205	82	0.845	40.665	1028.226	1.013	15.837	82.636	752.790	24.828	275.436
200	77	0.794	35.444	838.102	1.101	17.218	88.554	670.154	18.226	167.948
195	72	0.742	31.148	671.736	1.164	18.204	92.731	581.601	12.944	90.135
190	67	0.691	27.247	525.856	1.208	18.889	95.537	488.870	8.358	36.986
185	62	0.639	23.376	399.421	1.236	19.326	74.689	393.333	4.050	6.088
181.15	58.15	0.599	19.514	319.34	1.248	19.514	21.852	318.644	0.000	0.696
180	57	0.620	18.357	295.339	1.243	18.357	80.790	296.792	0.000	-1.453
175	52	0.565	13.959	214.799	1.252	13.959	62.388	216.002	0.000	-1.203
170	47	0.511	10.996	152.558	1.248	10.996	48.278	153.615	0.000	-1.057
165	42	0.457	8.315	104.437	1.230	8.315	35.355	105.337	0.000	-0.900
160	37	0.402	5.827	69.266	1.200	5.827	25.130	69.982	0.000	-0.716
155	32	0.348	4.225	44.244	1.155	4.225	17.753	44.852	0.000	-0.608
150	27	0.293	2.876	26.601	1.096	2.876	12.013	27.100	0.000	-0.499
145	22	0.239	1.929	14.668	1.019	1.929	7.678	15.087	0.000	-0.419
140	17	0.185	1.142	7.076	0.921	1.142	4.303	7.410	0.000	-0.334
135	12	0.130	0.579	2.85	0.794	0.579	2.133	3.107	0.000	-0.257
130	7	0.076	0.274	0.762	0.621	0.274	0.803	0.975	0.000	-0.213
125	2	0.022	0.047	0.039	0.340	0.047	0.049	0.172	0.000	-0.133
123	0	0.000	0.002	0	0.000	0.002	0.123	0.123	0.000	-0.123

Elevasi Nol Baru : 181.15

Luas : 19.514

Ap : 1.248

K : 15.638

Lampiran 6. Pendugaan Distribusi Sedimen Waduk Cirata dengan menggunakan Metode *Empirical Area Reduction*

Tipe Waduk : II
 Pendugaan Operasi Waduk : 282 Tahun
 Total Sedimen Deposit : $1032.96 \times 10^6 \text{ m}^3$

Elev. (m)	Ked. (m)	Ked. Relatif	Luas (m ²)	Kap. Awal (juta m ³)	Ap	Luas Sed. (Ha)	Vol. Sedimen (juta m ³)	Akumulasi Sed. (juta m ³)	Revisi Luas (Ha)	Revisi Kap. Waduk (juta m ³)
220	97	1	61.315	1783.843	0.000	0.000	32.687	1033.057	61.315	750.786
215	92	0.948	52.523	1499.532	0.691	13.075	74.628	1000.370	39.448	499.162
210	87	0.897	47.733	1248.987	0.887	16.777	89.830	925.742	30.956	323.245
205	82	0.845	40.665	1028.226	1.013	19.155	99.953	835.912	21.510	192.314
200	77	0.794	35.444	838.102	1.101	20.826	107.111	735.958	14.618	102.144
195	72	0.742	31.148	671.736	1.164	22.019	112.164	628.847	9.129	42.889
190	67	0.691	27.247	525.856	1.208	22.847	115.558	516.683	4.400	9.173
185	62	0.639	23.376	399.421	1.236	23.376	104.333	401.125	0.000	-1.704
180	57	0.588	18.357	295.339	1.250	18.357	80.790	296.792	0.000	-1.453
175	52	0.536	13.959	214.799	1.251	13.959	62.388	216.002	0.000	-1.203
170	47	0.485	10.996	152.558	1.241	10.996	48.278	153.615	0.000	-1.057
165	42	0.433	8.315	104.437	1.219	8.315	35.355	105.337	0.000	-0.900
160	37	0.381	5.827	69.266	1.184	5.827	25.130	69.982	0.000	-0.716
155	32	0.330	4.225	44.244	1.137	4.225	17.753	44.852	0.000	-0.608
150	27	0.278	2.876	26.601	1.076	2.876	12.013	27.100	0.000	-0.499
145	22	0.227	1.929	14.668	0.999	1.929	7.678	15.087	0.000	-0.419
140	17	0.175	1.142	7.076	0.901	1.142	4.303	7.410	0.000	-0.334
135	12	0.124	0.579	2.85	0.775	0.579	2.133	3.107	0.000	-0.257
130	7	0.072	0.274	0.762	0.606	0.274	0.803	0.975	0.000	-0.213
125	2	0.021	0.047	0.039	0.331	0.047	0.049	0.172	0.000	-0.133
123	0	0.000	0.002	0	0.000	0.002	0.123	0.123	0.000	-0.123

Elevasi Nol Baru : 185

Luas : 23.376

Ap : 1.236

K : 18.915

Lampiran 7. Pendugaan Distribusi Sedimen Waduk Cirata dengan menggunakan Metode *Empirical Area Reduction*

Tipe Waduk : II
 Pendugaan Operasi Waduk : 300 Tahun
 Total Sedimen Deposit : $1098.9 \times 10^6 \text{ m}^3$

Elev. (m)	Ked. (m)	Ked. Relatif	Luas (m ²)	Kap. Awal (juta m ³)	Ap	Luas Sed. (Ha)	Vol. Sedimen (juta m ³)	Akumulasi Sed. (juta m ³)	Revisi Luas (Ha)	Revisi Kap. Waduk (juta m ³)
220	97	1	61.315	1783.843	0.000	0.000	36.232	1098.140	61.315	685.703
215	92	0.948	52.523	1499.532	0.691	14.493	82.722	1061.908	38.030	437.624
210	87	0.897	47.733	1248.987	0.887	18.596	99.573	979.186	29.137	269.801
205	82	0.845	40.665	1028.226	1.013	21.233	110.794	879.613	19.432	148.613
200	77	0.794	35.444	838.102	1.101	23.085	118.728	768.819	12.359	69.283
195	72	0.742	31.148	671.736	1.164	24.407	124.330	650.091	6.741	21.645
190	67	0.691	27.247	525.856	1.208	25.325	56.041	525.761	1.922	0.095
187.8	64.8	0.668	25.621	470.225	1.222	25.621	68.596	469.720	0.000	0.505
185	62	0.674	23.376	399.421	1.219	23.376	104.333	401.125	0.000	-1.704
180	57	0.620	18.357	295.339	1.243	18.357	80.790	296.792	0.000	-1.453
175	52	0.565	13.959	214.799	1.252	13.959	62.388	216.002	0.000	-1.203
170	47	0.511	10.996	152.558	1.248	10.996	48.278	153.615	0.000	-1.057
165	42	0.457	8.315	104.437	1.230	8.315	35.355	105.337	0.000	-0.900
160	37	0.402	5.827	69.266	1.200	5.827	25.130	69.982	0.000	-0.716
155	32	0.348	4.225	44.244	1.155	4.225	17.753	44.852	0.000	-0.608
150	27	0.293	2.876	26.601	1.096	2.876	12.013	27.100	0.000	-0.499
145	22	0.239	1.929	14.668	1.019	1.929	7.678	15.087	0.000	-0.419
140	17	0.185	1.142	7.076	0.921	1.142	4.303	7.410	0.000	-0.334
135	12	0.130	0.579	2.85	0.794	0.579	2.133	3.107	0.000	-0.257
130	7	0.076	0.274	0.762	0.621	0.274	0.803	0.975	0.000	-0.213
125	2	0.022	0.047	0.039	0.340	0.047	0.049	0.172	0.000	-0.133

Elevasi Nol Baru : 187.8

Luas : 25.621

Ap : 1.222

K : 20.966

Lampiran 8. Pendugaan Distribusi Sedimen Waduk Cirata dengan menggunakan Metode *Empirical Area Reduction*

Tipe Waduk : II

Pendugaan Operasi Waduk : 350 Tahun

Total Sedimen Deposit : $1282.05 \times 10^6 \text{ m}^3$

Elev. (m)	Ked. (m)	Ked. Relatif	Luas (m ²)	Kap. Awal (juta m ³)	Ap	Luas Sed. (Ha)	Vol. Sedimen (juta m ³)	Akumulasi Sed. (juta m ³)	Revisi Luas (Ha)	Revisi Kap. Waduk (juta m ³)
220	97	1	61.315	1783.843	0.000	0.000	49.758	1286.802	61.315	497.041
215	92	0.948	52.523	1499.532	0.691	19.903	113.605	1237.044	32.620	262.488
210	87	0.897	47.733	1248.987	0.887	25.539	136.746	1123.439	22.194	125.548
205	82	0.845	40.665	1028.226	1.013	29.160	152.156	986.693	11.505	41.533
200	77	0.794	35.444	838.102	1.101	31.703	96.853	834.537	3.741	3.565
197	74	0.762	32.866	738.282	1.141	32.866	64.014	737.684	0.000	0.599
195	72	0.742	31.148	671.736	1.164	31.148	145.988	673.670	0.000	-1.933
190	67	0.728	27.247	525.856	1.178	27.247	126.558	527.682	0.000	-1.826
185	62	0.674	23.376	399.421	1.219	23.376	104.333	401.125	0.000	-1.704
180	57	0.620	18.357	295.339	1.243	18.357	80.790	296.792	0.000	-1.453
175	52	0.565	13.959	214.799	1.252	13.959	62.388	216.002	0.000	-1.203
170	47	0.511	10.996	152.558	1.248	10.996	48.278	153.615	0.000	-1.057
165	42	0.457	8.315	104.437	1.230	8.315	35.355	105.337	0.000	-0.900
160	37	0.402	5.827	69.266	1.200	5.827	25.130	69.982	0.000	-0.716
155	32	0.348	4.225	44.244	1.155	4.225	17.753	44.852	0.000	-0.608
150	27	0.293	2.876	26.601	1.096	2.876	12.013	27.100	0.000	-0.499
145	22	0.239	1.929	14.668	1.019	1.929	7.678	15.087	0.000	-0.419
140	17	0.185	1.142	7.076	0.921	1.142	4.303	7.410	0.000	-0.334
135	12	0.130	0.579	2.85	0.794	0.579	2.133	3.107	0.000	-0.257
130	7	0.076	0.274	0.762	0.621	0.274	0.803	0.975	0.000	-0.213
125	2	0.022	0.047	0.039	0.340	0.047	0.049	0.172	0.000	-0.133

Elevasi Nol Baru : 197

Luas : 32.866

Ap : 1.141

K : 28.794