

Z.U.O. "EKO - SOFT"
 93-554 Łódź ul. Rogozińskiego 17/7 tel. 042 648 71 85
 OBLICZANIE STANU ZANIECZYSZCZENIA POWIETRZA ATMOSFERYCZNEGO
 SYSTEM OPA03 PROGRAM OPA03 WERSJA 5.42 DLA PC

według metodyki referencyjnej DZ.U. Nr 16 poz. 87 z 03.02.2010

Właściciel licencji: Zakład Ochrony Środowiska "EKO-BEMAR"
 ul. Piłsudskiego 89 58-150 Strzegom
 Licencja: MZ/Wa/OKR/03/07/19 z dnia 05.06.2003

Obiekt: WEPA PROFESSIONAL PIECHOWICE S.A.

ROCZNY OPAD PYŁU [G/(M2 ROK)]

	-1000	-950	-900	-850	-800
	-750	-700	-650	-600	-550
	-500	-450	-400	-350	-300
	-250	-200	-150	-100	-50
	0	50	100	150	200
	250	300	350	400	450
	500	550	600	650	700
	750	800	850	900	950
	1000				
	-----+-----+-----+-----+-----+				
1000	20.289	20.309	20.316	20.325	20.347
	20.341	20.364	20.388	20.412	20.438
	20.465	20.492	20.519	20.547	20.573
	20.599	20.388	20.404	20.418	20.167
	20.170	20.172	20.173	20.172	20.170
	20.168	20.161	20.154	20.163	20.156
	20.149	20.141	20.133	20.125	20.117
	20.110	20.102	20.096	20.089	20.083
	20.101				
950	20.305	20.327	20.350	20.360	20.372
	20.398	20.392	20.419	20.448	20.478
	20.509	20.541	20.574	20.607	20.640
	20.671	20.555	20.458	20.476	20.194
	20.196	20.199	20.200	20.199	20.197
	20.193	20.184	20.177	20.187	20.178
	20.169	20.159	20.149	20.140	20.130
	20.121	20.113	20.104	20.097	20.118
	20.109				
900	20.323	20.347	20.372	20.400	20.412
	20.427	20.459	20.454	20.487	20.522
	20.559	20.597	20.636	20.676	20.717
	20.756	20.795	20.524	20.548	20.225
	20.228	20.232	20.234	20.233	20.230
	20.225	20.213	20.205	20.215	20.204
	20.192	20.180	20.168	20.157	20.145
	20.134	20.124	20.114	20.138	20.128
	20.175				
850	20.340	20.367	20.395	20.426	20.460
	20.475	20.495	20.534	20.530	20.570
	20.614	20.660	20.708	20.757	20.807
	20.858	20.906	20.605	20.637	20.263
	20.269	20.274	20.276	20.275	20.271
	20.264	20.251	20.240	20.250	20.236
	20.221	20.205	20.190	20.176	20.162
	20.149	20.137	20.164	20.151	20.207
	20.189				
800	20.359	20.387	20.419	20.453	20.491
	20.532	20.552	20.578	20.627	20.624

ROCZNY OPAD PYŁU [G/(M2 ROK)]

	-1000	-950	-900	-850	-800
	-750	-700	-650	-600	-550
	-500	-450	-400	-350	-300
	-250	-200	-150	-100	-50
	0	50	100	150	200
	250	300	350	400	450
	500	550	600	650	700
	750	800	850	900	950
	1000				
	-----+-----+-----+-----+-----+				
	20.676	20.731	20.790	20.851	20.915
	20.979	21.043	20.877	20.749	20.788
	20.320	20.327	20.330	20.328	20.323
	20.310	20.298	20.310	20.292	20.274
	20.254	20.235	20.216	20.198	20.181
	20.165	20.197	20.180	20.246	20.224
	20.204				
750	20.377	20.409	20.444	20.482	20.524
	20.570	20.621	20.647	20.682	20.743
	20.746	20.812	20.885	20.962	21.043
	21.126	21.210	21.292	20.893	20.947
	20.389	20.395	20.400	20.398	20.391
	20.375	20.358	20.368	20.344	20.320
	20.295	20.270	20.246	20.223	20.203
	20.240	20.217	20.296	20.268	20.243
	20.220				
700	20.396	20.431	20.469	20.511	20.558
	20.610	20.667	20.731	20.768	20.815
	20.896	20.905	20.994	21.092	21.196
	21.305	21.417	21.528	21.078	21.153
	20.475	20.485	20.491	20.489	20.479
	20.459	20.435	20.441	20.409	20.376
	20.343	20.311	20.281	20.253	20.296
	20.266	20.362	20.325	20.292	20.263
	20.237				
650	20.415	20.453	20.494	20.541	20.593
	20.651	20.717	20.790	20.872	20.924
	20.990	21.100	21.122	21.245	21.380
	21.525	21.675	21.825	21.315	21.420
	20.588	20.604	20.613	20.611	20.594
	20.570	20.536	20.534	20.491	20.446
	20.402	20.360	20.322	20.372	20.332
	20.448	20.399	20.355	20.317	20.284
	20.254				
600	20.434	20.475	20.520	20.572	20.629
	20.694	20.768	20.852	20.948	21.058
	21.132	21.229	21.383	21.427	21.601
	21.792	21.994	22.200	21.940	21.768
	21.898	20.770	20.779	20.775	20.755
	20.718	20.709	20.653	20.592	20.531
	20.473	20.419	20.478	20.421	20.565
	20.498	20.439	20.388	20.344	20.306
	20.273				
550	20.452	20.496	20.546	20.602	20.666
	20.738	20.822	20.918	21.029	21.158
	21.309	21.422	21.567	21.789	21.866
	22.118	22.390	22.673	22.955	22.229
	22.430	20.995	21.012	21.008	20.980
	20.923	20.887	20.806	20.720	20.637
	20.559	20.629	20.547	20.728	20.633

ROCZNY OPAD PYŁU [G/(M2 ROK)]

	-1000	-950	-900	-850	-800
	-750	-700	-650	-600	-550
	-500	-450	-400	-350	-300
	-250	-200	-150	-100	-50
	0	50	100	150	200
	250	300	350	400	450
	500	550	600	650	700
	750	800	850	900	950
	1000				
	-----+-----+-----+-----+-----+				
500	20.552	20.483	20.423	20.372	20.329
	20.291				
	20.470	20.518	20.571	20.632	20.702
	20.783	20.876	20.985	21.113	21.265
	21.446	21.661	21.834	22.057	22.384
	22.511	22.879	23.277	23.694	22.891
	23.256	21.332	21.371	21.368	21.326
	21.227	21.131	21.007	20.883	20.767
	20.849	20.729	20.959	20.823	20.708
	20.610	20.528	20.459	20.401	20.352
450	20.310				
	20.487	20.538	20.595	20.662	20.738
	20.827	20.931	21.054	21.201	21.378
	21.592	21.853	22.168	22.438	22.780
	23.269	23.488	24.072	24.755	23.994
	24.800	25.598	21.983	21.997	21.913
	21.675	21.483	21.282	21.094	21.185
	21.000	21.296	21.095	20.927	20.787
	20.672	20.576	20.496	20.430	20.375
	20.328				
400	20.502	20.557	20.618	20.689	20.772
	20.869	20.984	21.122	21.289	21.494
	21.745	22.057	22.441	22.912	23.337
	23.879	24.678	25.186	26.433	26.848
	27.824	29.487	23.020	23.064	22.892
	22.334	22.010	21.676	21.744	21.430
	21.808	21.497	21.244	21.038	20.870
	20.734	20.623	20.533	20.458	20.397
	20.346				
	20.412	20.458	20.512	20.574	20.803
350	20.909	21.035	21.188	21.375	21.608
	21.900	22.267	22.729	23.308	24.034
	24.751	25.780	27.549	29.175	32.253
	32.364	34.194	24.280	24.293	24.059
	23.197	22.735	22.779	22.196	22.644
	22.121	21.717	21.401	21.152	20.954
	20.796	20.670	20.568	20.485	20.418
	20.362				
	20.272	20.306	20.344	20.508	20.672
	20.765	20.877	21.014	21.455	21.718
300	22.050	22.475	23.020	23.719	24.631
	25.884	27.466	30.223	34.793	37.445
	35.663	35.243	25.237	25.150	24.828
	23.979	24.381	23.565	24.128	23.178
	22.467	21.947	21.560	21.264	21.035
	20.855	20.714	20.601	20.510	20.810
	20.758				
	20.278	20.313	20.353	20.401	20.458
	20.528	20.613	21.059	21.242	21.472
	21.766	22.666	23.294	24.123	25.250

ROCZNY OPAD PYŁU [G/(M2 ROK)]

	-1000	-950	-900	-850	-800
	-750	-700	-650	-600	-550
	-500	-450	-400	-350	-300
	-250	-200	-150	-100	-50
	0	50	100	150	200
	250	300	350	400	450
	500	550	600	650	700
	750	800	850	900	950
	1000				
	26.925	29.746	34.078	39.964	44.181
	35.434	33.448	32.043	25.804	24.924
	26.082	25.194	26.352	24.997	23.761
	22.829	22.174	21.711	21.368	21.108
	20.908	21.512	21.265	21.069	20.911
	20.783				
200	20.283	20.318	20.360	20.410	20.469
	20.542	20.631	20.743	20.885	21.066
	21.655	22.282	22.840	23.597	24.659
	27.996	31.911	38.627	45.217	47.010
	39.924	32.639	29.902	25.591	27.725
	26.702	28.422	27.214	25.774	24.321
	23.178	22.382	23.725	22.939	22.355
	21.914	21.574	21.311	21.103	20.937
	20.803				
150	20.286	20.322	20.365	20.416	20.477
	20.552	20.645	20.761	20.909	21.101
	21.354	21.691	22.150	22.793	24.610
	26.957	30.116	35.229	41.929	52.502
	53.269	33.465	30.137	33.883	-
	-	-	-	-	-
	26.946	25.179	23.937	23.071	22.442
	21.975	21.619	21.343	21.127	20.955
	20.816				
100	20.288	20.324	20.367	20.419	20.481
	20.558	20.652	20.771	20.923	21.121
	21.382	21.733	22.215	22.898	23.921
	25.599	28.593	33.720	44.673	57.115
	53.949	28.006	-	-	-
	-	-	-	-	-
	28.504	-	24.334	23.157	22.492
	22.007	21.640	21.358	21.138	20.963
	20.823				
50	20.288	20.324	20.368	20.419	20.482
	20.558	20.653	20.772	20.924	21.123
	21.385	21.738	22.223	22.913	23.948
	25.650	28.700	34.041	42.178	54.430
	-	-	-	-	-
	-	-	-	-	-
	27.406	25.404	24.075	23.144	22.486
	22.003	21.638	21.357	21.137	20.962
	20.822				
0	20.286	20.323	20.365	20.417	20.478
	20.554	20.647	20.764	20.913	21.107
	21.362	21.705	22.174	22.834	23.811
	25.380	28.127	30.208	-	-
	-	-	-	-	-
	-	-	39.768	34.929	30.877
	26.808	25.079	23.901	23.056	22.432
	21.967	21.612	21.338	21.123	20.952

ROCZNY OPAD PYŁU [G/(M2 ROK)]

	-1000	-950	-900	-850	-800
	-750	-700	-650	-600	-550
	-500	-450	-400	-350	-300
	-250	-200	-150	-100	-50
	0	50	100	150	200
	250	300	350	400	450
	500	550	600	650	700
	750	800	850	900	950
	1000				
	-----+-----+-----+-----+-----				
	20.815				
-50	20.283	20.319	20.361	20.411	20.471
	20.544	20.635	20.747	20.891	21.075
	21.317	21.638	22.072	22.276	22.773
	23.846	25.597	28.511	-	-
	-	-	-	-	-
	42.300	42.676	38.161	33.801	29.964
	27.157	25.377	24.135	23.241	22.337
	21.900	21.565	21.304	21.098	20.933
	20.800				
-100	20.279	20.314	20.354	20.403	20.461
	20.531	20.617	20.723	20.858	20.904
	20.942	21.170	21.477	21.897	22.485
	23.338	24.633	-	-	-
	-	-	-	-	34.592
	38.159	34.248	35.310	31.696	28.781
	26.638	25.105	23.995	23.023	22.432
	21.983	21.635	21.363	21.063	20.907
	20.780				
-150	20.274	20.307	20.346	20.392	20.447
	20.513	20.434	20.510	20.605	20.725
	20.880	21.081	21.346	21.697	22.171
	22.820	23.730	24.352	25.901	-
	-	-	-	-	27.484
	32.361	31.190	28.666	29.546	27.398
	25.761	24.537	23.616	22.915	22.375
	21.955	21.594	21.297	21.099	20.938
	20.807				
-200	20.267	20.299	20.239	20.272	20.311
	20.357	20.414	20.483	20.569	20.676
	20.812	20.985	21.207	21.493	21.865
	22.346	22.585	23.292	-	-
	-	-	-	26.056	25.282
	27.611	27.382	26.634	25.204	26.135
	24.928	23.974	23.227	22.642	22.180
	21.814	21.522	21.288	21.098	20.943
	20.799				
-250	20.183	20.205	20.231	20.261	20.297
	20.340	20.391	20.454	20.530	20.624
	20.741	20.887	21.070	21.299	21.584
	21.693	22.069	22.206	22.674	23.186
	-	23.247	22.262	24.056	23.638
	25.343	24.559	24.449	24.136	23.364
	24.172	23.445	22.850	22.369	21.981
	21.668	21.413	21.205	21.035	20.895
	20.778				
-300	20.176	20.197	20.221	20.249	20.282
	20.322	20.368	20.424	20.491	20.572
	20.671	20.792	20.941	21.121	21.174
	21.400	21.440	21.701	21.984	21.978

ROCZNY OPAD PYŁU [G/(M2 ROK)]

	-1000	-950	-900	-850	-800
	-750	-700	-650	-600	-550
	-500	-450	-400	-350	-300
	-250	-200	-150	-100	-50
	0	50	100	150	200
	250	300	350	400	450
	500	550	600	650	700
	750	800	850	900	950
	1000				
	-----+-----+-----+-----+-----+				
	21.968	21.477	21.515	22.787	22.555
	22.261	23.362	22.889	22.889	22.773
	22.317	22.962	22.497	22.108	21.787
	21.521	21.302	21.120	20.969	20.843
	20.737				
-350	20.170	20.189	20.211	20.237	20.267
	20.303	20.344	20.393	20.452	20.521
	20.604	20.704	20.823	20.847	20.992
	20.994	21.157	21.333	21.513	21.296
	21.420	21.052	21.070	21.540	21.864
	21.689	22.546	22.249	21.955	21.991
	21.955	21.664	22.175	21.866	21.602
	21.379	21.192	21.035	20.902	20.790
	20.695				
-400	20.162	20.180	20.201	20.225	20.252
	20.283	20.320	20.363	20.414	20.473
	20.542	20.623	20.632	20.729	20.715
	20.821	20.937	21.058	21.177	20.991
	21.068	20.781	20.791	20.780	21.407
	21.296	21.975	21.779	21.578	21.384
	21.430	21.430	21.236	21.644	21.430
	21.245	21.087	20.952	20.836	20.737
	20.652				
-450	20.155	20.172	20.190	20.212	20.236
	20.265	20.297	20.334	20.377	20.427
	20.485	20.486	20.552	20.532	20.604
	20.682	20.766	20.850	20.932	20.773
	20.823	20.596	20.603	20.596	21.088
	21.015	21.559	21.426	21.285	21.146
	21.014	21.061	21.077	20.944	21.272
	21.121	20.987	20.872	20.772	20.685
	20.610				
-500	20.148	20.163	20.180	20.199	20.221
	20.246	20.275	20.307	20.344	20.386
	20.382	20.430	20.408	20.458	20.512
	20.571	20.631	20.691	20.572	20.613
	20.452	20.465	20.470	20.465	20.654
	20.809	20.751	21.156	21.056	20.954
	20.856	20.764	20.809	20.833	20.738
	21.006	20.895	20.797	20.710	20.635
	20.568				
-550	20.140	20.154	20.170	20.187	20.207
	20.229	20.253	20.281	20.313	20.307
	20.342	20.321	20.356	20.396	20.437
	20.481	20.525	20.569	20.465	20.494
	20.362	20.370	20.373	20.370	20.361
	20.654	20.613	20.947	20.876	20.801
	20.727	20.657	20.591	20.632	20.658
	20.588	20.809	20.727	20.653	20.587
	20.528				

ROCZNY OPAD PYŁU [G/(M2 ROK)]

	-1000	-950	-900	-850	-800
	-750	-700	-650	-600	-550
	-500	-450	-400	-350	-300
	-250	-200	-150	-100	-50
	0	50	100	150	200
	250	300	350	400	450
	500	550	600	650	700
	750	800	850	900	950
	1000				
	-----+-----+-----+-----+-----+				
-600	20.133	20.145	20.159	20.175	20.192
	20.212	20.233	20.257	20.251	20.277
	20.257	20.284	20.313	20.343	20.375
	20.408	20.441	20.473	20.382	20.403
	20.293	20.299	20.302	20.299	20.293
	20.536	20.506	20.785	20.733	20.677
	20.621	20.567	20.515	20.466	20.504
	20.529	20.477	20.662	20.599	20.542
	20.490				
-650	20.126	20.137	20.150	20.164	20.179
	20.196	20.215	20.209	20.229	20.210
	20.230	20.252	20.275	20.299	20.324
	20.350	20.374	20.398	20.318	20.334
	20.241	20.246	20.247	20.246	20.241
	20.444	20.423	20.657	20.619	20.577
	20.534	20.492	20.451	20.412	20.375
	20.408	20.433	20.393	20.548	20.499
	20.455				
-700	20.119	20.129	20.140	20.153	20.166
	20.181	20.175	20.191	20.174	20.190
	20.207	20.224	20.243	20.262	20.282
	20.301	20.320	20.255	20.268	20.196
	20.201	20.204	20.206	20.204	20.201
	20.282	20.357	20.338	20.526	20.495
	20.461	20.428	20.396	20.364	20.335
	20.307	20.336	20.358	20.328	20.459
	20.421				
-750	20.112	20.121	20.131	20.142	20.154
	20.149	20.161	20.146	20.159	20.172
	20.185	20.200	20.215	20.231	20.246
	20.262	20.276	20.219	20.228	20.166
	20.170	20.172	20.173	20.172	20.169
	20.165	20.303	20.290	20.451	20.427
	20.401	20.375	20.349	20.323	20.299
	20.276	20.254	20.280	20.300	20.276
	20.389				
-800	20.106	20.114	20.123	20.133	20.127
	20.137	20.124	20.134	20.144	20.155
	20.167	20.179	20.191	20.204	20.216
	20.228	20.240	20.189	20.196	20.141
	20.144	20.146	20.147	20.146	20.144
	20.141	20.261	20.250	20.390	20.371
	20.351	20.330	20.309	20.288	20.268
	20.249	20.230	20.213	20.236	20.255
	20.235				
-850	20.099	20.107	20.115	20.110	20.118
	20.106	20.114	20.123	20.132	20.141
	20.151	20.161	20.171	20.181	20.191
	20.201	20.183	20.164	20.119	20.122
	20.124	20.126	20.126	20.126	20.124

ROCZNY OPAD PYŁU [G/(M2 ROK)]

	-1000	-950	-900	-850	-800
	-750	-700	-650	-600	-550
	-500	-450	-400	-350	-300
	-250	-200	-150	-100	-50
	0	50	100	150	200
	250	300	350	400	450
	500	550	600	650	700
	750	800	850	900	950
	1000				
	-----+-----+-----+-----+-----+				
	20.122	20.225	20.217	20.208	20.324
	20.308	20.291	20.274	20.257	20.240
	20.224	20.209	20.194	20.180	20.201
	20.218				
-900	20.093	20.100	20.095	20.102	20.092
	20.098	20.105	20.112	20.120	20.128
	20.136	20.144	20.153	20.161	20.170
	20.177	20.138	20.144	20.104	20.106
	20.108	20.109	20.109	20.109	20.108
	20.106	20.148	20.190	20.182	20.285
	20.272	20.258	20.244	20.230	20.216
	20.203	20.190	20.177	20.165	20.154
	20.172				
-950	20.088	20.083	20.089	20.080	20.085
	20.091	20.097	20.103	20.110	20.116
	20.123	20.130	20.137	20.144	20.151
	20.157	20.122	20.127	20.091	20.092
	20.094	20.095	20.095	20.095	20.094
	20.092	20.090	20.167	20.161	20.251
	20.241	20.230	20.218	20.207	20.195
	20.184	20.173	20.162	20.152	20.142
	20.133				
-1000	20.073	20.078	20.070	20.074	20.079
	20.084	20.089	20.095	20.100	20.106
	20.112	20.118	20.124	20.130	20.135
	20.140	20.109	20.112	20.080	20.081
	20.083	20.083	20.083	20.083	20.082
	20.081	20.080	20.147	20.142	20.223
	20.215	20.205	20.196	20.186	20.176
	20.167	20.157	20.148	20.139	20.131
	20.123				

"-" oznacza receptor w obszarze wyłączonym z obliczeń

	22.119	24.125	24.125	22.084	22.084
	22.084	22.076	22.076	22.076	22.076
	22.076	22.076	21.933	21.933	21.933
	21.933	21.933	21.933	21.265	21.265
	21.265	21.475	21.475	21.475	21.475
	21.475	21.475	21.787	21.787	21.787
	21.787	21.787	21.787	21.739	21.739
	21.739	21.739	21.739	21.739	21.739
	21.739	21.739	22.065	22.065	22.065
	22.065	22.065	22.065	24.548	24.548
	24.548	24.548	24.548	24.548	24.548
	24.548	24.548	25.686	25.686	25.686
	25.686	25.686	25.686		

"-" oznacza receptor w obszarze wyłączonym z obliczeń

Maksymalny opad pyłu całkowitego wraz z tłem wynosi $57.115 \text{ g/(m}^2 \text{ rok)} < 200.00 \text{ g/(m}^2 \text{ rok)}$
i występuje w receptorze $x = -50$, $y = 100$

Koniec wydruku wyników