

## Project Update: September 2022

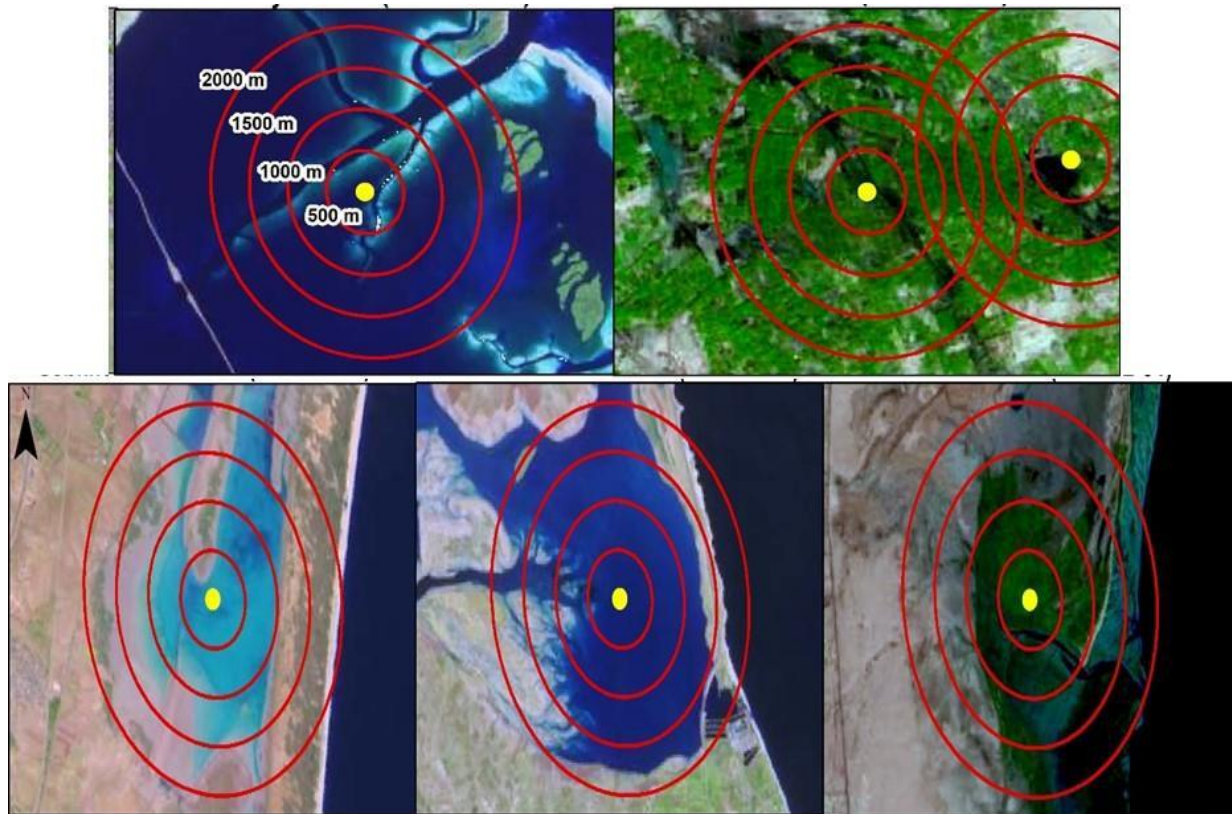
### Landscape-scale variables

For each wetland we characterised a large number of environmental variables describing wetland features and landscape composition (Table 1). We used Sentinel-2A images to determining wetland size, cropland area, cropland percent, forests area (m<sup>2</sup>), forests percent, roads area (m<sup>2</sup>), roads percent, shrubs herbaceous area (m<sup>2</sup>), shrubs herbaceous percent, urban area (m<sup>2</sup>) and urban percent.

**Table 1:** Descriptive of wetland features

<b>Wetlands features</b>	Wetland area (km <sup>2</sup> )
	distance to the nearest coastline (km)
<b>Landscape composition</b>	Cropland area (m <sup>2</sup> )
	Cropland percent
	Forests area (m <sup>2</sup> )
	Forests percent
	Road area (m <sup>2</sup> )
	Road percent
	Shrubs Herbaceous area (m <sup>2</sup> )
	Shrubs Herbaceous percent
	Urban area (m <sup>2</sup> )
	Urban percent
	sum NDVI (Normalized difference vegetation index)
	mean NDVI
	median NDVI
	standard deviation of NDVI
	minimum NDVI
	maximum NDVI
	Shannon Diversity Index
Shannon Equitability Evenness	
Simspon Diversity Index	

For each wetland, we calculated wetland cover (i.e., cropland area, cropland percent, forests area (m<sup>2</sup>), forests percent, roads area (m<sup>2</sup>), roads percent, shrubs herbaceous (m<sup>2</sup>), shrubs herbaceous percent, urban area (m<sup>2</sup>) and urban percent), around the center of each wetland within twelve radii, namely, 500, 1000, 1500, 2000, 2500, 3000, 3500, 4000, 4500, 5000, 5500 and 6000 m. We also used aerial images to determine for each wetland the distance to the nearest coastline. We also calculated the sum of NDVI (normalized difference vegetation index), mean NDVI, median NDVI, standard deviation of NDVI, minimum NDVI and maximum NDVI for each site (Table 1). Finally, to quantitatively characterise landscape composition, we calculated for each wetland landscape composition metrics such as the Shannon diversity index, the Simpson diversity index and the Shannon Evenness Index (Equitability) (Table 1).



**Figure 1:** Method used to determine the landscape parameters (case of radius of 500, 1000, 1500 and 2000 m).

**Table 2:** Descriptive data of wetlands features, and landscape composition recorded in the 43 selected wetlands.

ID	A	B	C	D	E	F	G	H	I	J	K	L	M	N	P	Q	R	S	T
1	0.550	1.607	0.202	6.402	-0.782	0.025	548033.480	1.425	9779.866	0.033	0.221	0.999	1.781	-0.108	0.531	-11018.521	618228.826	12841.462	2462923.495
2	0.622	84.094	0.284	0.126	0.038	0.619	4840141.082	12.582	238058.700	0.000	0.347	0.999	0.961	0.397	0.181	40512.379	32351082.892	0.000	48596.673
3	1.713	7.142	0.793	1.787	-0.522	13.474	8602573.762	22.362	5183345.950	1.221	0.744	0.999	1.522	0.443	0.231	43281.670	2747581.380	469733.628	687618.312
4	1.335	4.963	0.708	0.000	-0.819	4.797	491196.277	1.277	1845493.970	0.585	0.829	0.998	1.816	0.080	0.366	7795.162	1909356.377	225083.391	0.000
5	1.684	12.616	0.775	4.385	-0.735	27.592	12928215.289	33.606	10614756.686	4.733	0.810	0.999	1.734	0.212	0.373	21655.107	4853200.061	1820974.775	1686884.096
6	0.938	73.600	0.435	1.120	-0.119	11.655	3730261.094	9.697	4483547.960	1.438	0.482	0.999	1.118	0.473	0.217	48281.303	28313898.248	553306.120	431047.126
7	1.613	28.756	0.747	15.509	-0.702	8.683	2651158.491	6.892	3340241.286	0.457	0.701	0.998	1.700	0.500	0.253	31936.743	11062561.914	175983.143	5966399.581
8	1.124	35.463	0.512	0.761	-0.079	6.885	1423438.424	3.700	2648758.492	0.144	0.578	0.968	1.047	0.388	0.210	20867.188	13642590.695	55413.802	292761.358
9	0.880	77.064	0.388	2.966	-0.572	3.920	2249008.030	5.846	1507895.361	0.229	0.401	0.927	1.499	0.380	0.213	38822.429	29646336.199	87941.072	1140938.317
10	0.596	85.735	0.263	0.826	-0.585	5.189	3037817.501	7.897	1996110.120	0.153	0.306	0.937	1.522	0.309	0.182	28854.287	32982065.985	58901.580	317626.075
11	0.279	94.858	0.102	0.177	-0.289	1.585	861610.618	2.240	609772.926	0.138	0.134	0.909	1.198	0.289	0.160	18057.251	36491922.865	52940.121	68210.618
12	0.560	87.859	0.220	1.516	-0.059	3.549	1387609.085	3.607	1365417.541	0.073	0.269	0.925	0.984	0.575	0.200	42380.857	33799163.891	28008.828	583231.461
13	1.787	20.604	0.783	51.943	-0.230	2.252	9176139.757	23.853	866340.279	0.114	0.719	0.997	1.227	0.499	0.213	50941.740	7926472.347	43902.850	19982640.879
14	1.394	40.494	0.708	2.862	-0.617	4.160	19325960.935	50.236	1600167.614	0.243	0.670	0.874	1.491	0.321	0.135	32724.369	15577886.530	93500.526	1101153.150
15	0.971	69.458	0.482	1.042	-0.155	3.991	9646205.006	25.075	1535510.612	0.289	0.467	0.999	1.154	0.300	0.108	30574.859	26720384.037	111236.658	400798.569
16	1.237	42.090	0.653	8.448	0.030	2.719	17932425.142	46.614	1046178.491	0.126	0.636	0.996	0.966	0.419	0.150	42709.268	16192175.773	48500.533	3250116.195
17	1.251	61.261	0.581	14.228	-0.024	0.917	5448934.278	14.164	352958.736	0.162	0.569	0.921	0.945	0.452	0.192	46167.165	23567114.303	62356.755	5473526.826
18	1.634	20.903	0.768	3.281	-0.648	2.007	8692568.764	22.596	772092.700	0.168	0.840	0.885	1.533	0.233	0.183	16923.205	8041447.497	64788.154	1262143.299
19	1.743	6.948	0.797	4.422	-0.561	3.041	10615871.356	27.595	1169686.708	0.033	0.793	0.999	1.560	0.321	0.206	22033.426	2672726.699	12855.330	1701235.428
20	1.688	2.685	0.790	0.875	-0.997	19.337	7305942.836	18.991	7438819.855	0.142	0.768	0.996	1.993	0.181	0.411	12459.741	1033066.070	54450.911	336438.016
21	0.755	3.668	0.326	0.372	-0.961	0.000	3788066.886	9.847	0.000	0.000	0.388	0.941	1.902	-0.199	0.428	-20282.219	1411104.276	0.000	142989.049
22	1.013	1.157	0.596	0.026	-0.213	0.000	23727996.682	61.679	0.000	0.000	0.629	0.828	1.041	0.215	0.119	21970.829	445006.741	0.000	9863.769
23	1.619	26.659	0.770	14.033	0.048	2.075	18915675.007	49.170	798229.742	0.099	0.778	0.997	0.949	0.328	0.127	33429.390	10255640.131	37914.108	5398541.716
24	1.454	33.560	0.732	24.839	0.028	4.386	13601769.870	35.357	1687182.408	0.235	0.747	0.999	0.971	0.393	0.166	40072.940	12910664.559	90280.264	9555644.742
25	0.043	0.537	0.013	0.000	-0.687	0.000	49521.480	0.129	0.000	0.000	0.039	0.820	1.507	-0.282	0.248	-28800.358	206395.845	0.000	0.000
26	1.445	4.146	0.702	0.078	-0.589	4.376	9061772.089	23.555	1683280.664	0.000	0.658	0.773	1.362	0.165	0.118	12926.275	1594833.168	0.000	30001.943
27	1.495	4.403	0.731	0.208	-0.566	14.754	4778049.041	12.420	5675850.116	0.077	0.719	0.747	1.314	-0.113	0.272	-11504.734	1693782.405	29579.468	80057.573
28	1.348	0.103	0.662	0.502	-0.229	0.000	1730941.542	4.499	0.000	0.000	0.648	0.612	0.840	0.133	0.096	2527.411	39489.440	0.000	193306.653
29	0.000	0.000	0.000	0.000	0.040	0.000	0.000	0.000	0.000	0.000	0.000	0.511	0.470	0.097	0.018	9929.420	0.000	0.000	0.000
30	0.837	0.148	0.375	3.100	0.033	0.023	2460622.894	6.396	8774.706	0.073	0.402	0.816	0.783	0.123	0.052	7425.359	56940.429	27995.170	1192628.946
31	1.430	2.707	0.657	2.817	0.024	0.124	4169571.757	10.839	47760.637	0.000	0.621	0.827	0.803	0.146	0.077	8351.964	1041223.549	0.000	1083598.223

32	1.109	3.134	0.602	0.026	-0.524	21.347	6643006.825	17.268	8212104.391	0.363	0.570	0.998	1.522	0.222	0.107	11100.140	1205487.783	139608.625	10099.471
33	1.251	0.027	0.643	0.020	-0.994	0.000	124686.731	0.324	0.000	0.000	0.601	0.961	1.955	0.008	0.501	96.990	10198.105	0.000	7752.623
34	1.251	2.966	0.665	0.000	-0.996	12.027	12199342.667	31.711	4626917.867	0.184	0.698	0.825	1.821	0.185	0.143	13632.305	1140890.114	70868.889	0.000
35	0.786	1.276	0.381	0.343	-0.251	2.237	4231262.115	10.999	860591.468	0.137	0.358	0.912	1.163	0.154	0.080	10239.347	490850.273	52807.700	131785.030
36	0.429	0.000	0.260	0.000	0.034	0.000	0.000	0.000	0.000	0.000	0.619	0.979	0.945	0.166	0.085	1327.287	0.000	0.000	0.000
37	1.947	26.725	0.828	34.410	0.016	8.102	3061864.396	7.959	3116899.444	0.169	0.812	0.921	0.904	0.196	0.182	13353.445	10281159.535	65001.811	13237621.955
38	1.863	30.270	0.813	38.048	-0.298	0.820	4204955.611	10.930	315448.489	0.231	0.777	0.883	1.181	0.268	0.222	16495.555	11645027.507	89009.577	14636911.683
39	0.986	9.996	0.427	6.359	-0.638	1.589	2969808.105	7.720	611473.262	0.219	0.411	0.935	1.574	0.125	0.124	12744.357	3845567.358	84135.310	2446439.421
40	0.077	0.502	0.021	0.306	-0.517	0.048	105005.082	0.273	18423.005	0.057	0.035	0.938	1.456	0.085	0.109	7617.304	193254.909	21968.286	117768.553
41	1.767	19.338	0.770	26.182	-0.980	3.524	4368050.049	11.354	1355729.800	0.000	0.767	0.926	1.906	0.240	0.219	21003.177	7439263.185	0.000	10072140.237
42	0.601	4.290	0.232	4.240	-0.529	1.790	1091629.697	2.838	688507.981	0.121	0.261	0.883	1.412	0.097	0.159	6150.101	1650288.926	46699.755	1631272.535
43	1.187	34.622	0.565	7.429	-0.979	5.691	2261379.504	5.878	2189295.145	0.147	0.662	0.926	1.905	0.141	0.472	14349.652	13319120.464	56409.059	2857944.182
44	0.000	0.000	0.000	0.000	-0.654	0.000	0.000	0.000	0.000	0.000	0.000	-0.002	0.652	-0.550	0.045	-4316.227	0.000	0.000	0.000
45	0.644	89.392	0.353	0.000	-0.092	0.000	48209.184	6.140	0.000	0.000	0.586	0.819	0.911	0.344	0.094	2700.564	701897.969	0.000	0.000
46	0.000	0.000	0.000	0.000	-0.086	0.000	0.000	0.000	0.000	0.000	0.000	0.685	0.771	0.103	0.062	807.968	0.000	0.000	0.000
47	0.000	0.000	0.000	0.000	-0.706	0.000	0.000	0.000	0.000	0.000	0.000	0.846	1.552	-0.401	0.174	-3142.702	0.000	0.000	0.000
48	0.989	4.968	0.566	0.000	-0.705	0.000	392662.521	50.009	0.000	0.000	0.713	-0.564	0.141	-0.647	0.022	-5076.994	39006.527	0.000	0.000
49	0.548	20.159	0.362	0.000	-0.978	0.000	0.000	0.000	0.000	0.000	0.791	0.883	1.861	-0.453	0.418	-3557.697	158290.224	0.000	0.000
50	1.067	0.968	0.645	4.363	-0.786	0.000	0.000	0.000	0.000	0.000	0.971	0.778	1.563	-0.111	0.290	-870.011	7600.780	0.000	34260.953
51	1.644	8.273	0.773	0.000	-0.056	2.803	135084.120	17.204	22008.761	0.298	0.845	0.770	0.826	0.383	0.176	2468.828	64956.797	2342.469	0.000
52	0.632	1.740	0.273	0.511	-0.889	0.000	59327.728	7.556	0.000	0.000	0.353	0.696	1.585	-0.655	0.336	-5139.381	13659.465	0.000	4013.088
53	0.672	82.433	0.310	0.000	-0.761	0.000	75366.238	9.598	0.000	0.000	0.418	0.889	1.650	0.207	0.327	1621.451	647258.772	0.000	0.000
54	1.125	50.118	0.592	0.403	-0.562	0.350	81037.995	10.321	2748.267	0.000	0.628	0.893	1.455	0.100	0.451	784.080	393524.080	0.000	3160.648
55	1.260	16.544	0.604	1.240	-0.793	1.401	79977.827	10.186	11002.312	0.000	0.647	0.837	1.630	-0.612	0.323	-4804.486	129903.055	0.000	9738.766
56	1.410	2.491	0.728	27.704	-0.960	0.000	234175.547	29.824	0.000	0.000	0.787	0.850	1.810	-0.054	0.617	-424.016	19562.109	0.000	217527.652
57	1.034	0.290	0.525	0.000	-0.702	0.000	118445.115	15.085	0.000	0.000	0.642	0.723	1.425	-0.449	0.338	-3527.999	2274.558	0.000	0.000
58	1.407	24.080	0.712	0.000	-0.740	0.000	438865.787	55.893	0.000	0.000	0.785	0.788	1.528	0.072	0.298	568.642	189072.403	0.000	0.000
59	1.494	27.016	0.750	11.927	-0.630	0.001	430318.795	54.804	10.569	0.000	0.834	0.949	1.579	0.302	0.390	2373.892	212130.556	0.000	93648.642
60	1.314	16.833	0.635	0.000	-0.096	0.000	109356.350	13.927	0.000	0.000	0.675	0.823	0.919	0.219	0.119	1722.647	132167.644	0.000	0.000
61	0.254	0.000	0.114	0.000	-0.283	0.000	23936.764	3.049	0.000	0.000	0.231	0.380	0.663	-0.100	0.111	-784.743	0.000	0.000	0.000
62	0.573	0.000	0.385	0.000	-0.813	0.000	0.000	0.000	0.000	0.000	0.827	0.176	0.989	-0.673	0.103	-5282.613	0.000	0.000	0.000
63	0.098	0.000	0.039	0.000	-0.748	0.000	0.000	0.000	0.000	0.000	0.141	0.210	0.958	-0.351	0.166	-2751.841	0.000	0.000	0.000
64	0.134	0.000	0.058	0.000	-0.525	0.000	0.000	0.000	0.000	0.000	0.193	-0.402	0.123	-0.457	0.017	-3587.610	0.000	0.000	0.000
65	0.679	0.000	0.486	0.000	0.138	0.000	785191.192	100.000	0.000	0.000	0.979	0.220	0.082	0.176	0.012	1382.340	0.000	0.000	0.000

66	1.296	47.485	0.649	1.261	-0.139	0.000	107738.678	13.721	0.000	0.000	0.666	0.886	1.025	0.322	0.208	2523.826	372846.708	0.000	9898.809
67	1.357	50.360	0.705	24.546	-0.132	0.244	185703.135	23.651	1916.899	0.876	0.758	0.997	1.129	0.486	0.191	3816.697	395419.326	6878.617	192729.119
68	0.000	0.000	0.000	0.000	-0.415	0.000	0.000	0.000	0.000	0.000	0.000	-0.289	0.126	-0.357	0.017	-2803.781	0.000	0.000	0.000
69	0.562	0.000	0.375	0.000	-0.998	0.000	705.380	0.090	0.000	0.000	0.811	0.466	1.464	-0.700	0.482	-1344.736	0.000	0.000	0.000
70	0.000	0.000	0.000	0.000	-0.442	0.000	0.000	0.000	0.000	0.000	0.000	0.131	0.573	-0.232	0.137	-1826.596	0.000	0.000	0.000
71	0.373	0.000	0.216	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.538	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
72	0.000	0.000	0.000	0.000	-0.250	0.000	0.000	0.000	0.000	0.000	0.000	-0.121	0.129	-0.176	0.018	-1379.022	0.000	0.000	0.000
73	0.835	1.069	0.491	27.904	-0.264	0.000	4431.596	0.564	0.000	0.000	0.519	0.753	1.017	0.554	0.144	3795.501	8393.842	0.000	219096.966
74	1.274	0.000	0.623	0.013	0.063	0.000	110819.025	14.114	0.000	0.000	0.711	0.574	0.511	0.180	0.113	56.116	0.000	0.000	101.686
75	1.330	0.000	0.722	0.000	0.002	0.473	11643.055	1.483	3716.491	0.000	0.959	0.520	0.518	0.197	0.097	31.774	0.000	0.000	0.000
76	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
77	0.415	0.000	0.211	0.000	-0.998	0.000	38299.304	4.878	0.000	0.000	0.378	0.794	1.791	-0.203	0.527	-1353.813	0.000	0.000	0.000
78	1.143	1.632	0.591	0.000	0.000	0.625	103834.818	13.224	4909.633	0.000	0.638	0.708	0.708	0.208	0.119	639.952	12814.721	0.000	0.000
79	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
80	1.232	55.677	0.582	9.089	-0.994	0.000	204939.245	26.101	0.000	0.000	0.593	0.840	1.834	0.210	0.373	1648.533	437171.834	0.000	71365.277
81	1.489	47.976	0.709	48.046	0.047	0.000	30313.408	3.861	0.000	0.000	0.765	0.790	0.743	0.330	0.150	2589.147	376705.207	0.000	377252.630
82	1.323	43.956	0.691	2.826	-0.461	0.000	191479.737	24.386	0.000	0.000	0.680	0.988	1.449	0.215	0.157	1689.237	345135.128	0.000	22193.252
83	0.000	0.000	0.000	0.000	0.032	0.000	0.000	0.000	0.000	0.000	0.000	0.156	0.124	0.066	0.009	520.585	0.000	0.000	0.000
84	1.443	15.858	0.709	20.803	-0.996	0.000	119180.460	15.179	0.000	0.000	0.742	0.840	1.837	0.140	0.413	1096.625	124512.621	0.000	163343.395
85	0.000	0.000	0.000	0.000	-0.450	0.000	0.000	0.000	0.000	0.000	0.000	0.170	0.620	0.010	0.138	75.451	0.000	0.000	0.000
86	1.343	10.527	0.690	16.251	-0.994	3.737	34265.599	4.364	29342.733	0.732	0.749	0.890	1.884	0.354	0.338	2782.943	82657.446	5745.997	127602.698
87	0.000	0.000	0.000	0.000	-0.693	0.000	0.000	0.000	0.000	0.000	0.000	-0.048	0.644	-0.497	0.082	-19467.712	0.000	0.000	0.000
88	0.830	67.387	0.474	0.000	-0.293	0.000	2045004.517	28.956	0.000	0.000	0.599	0.958	1.252	0.278	0.171	10908.365	4759185.279	0.000	0.000
89	0.426	0.720	0.218	0.000	-0.089	0.000	57822.310	0.819	0.000	0.000	0.307	0.714	0.803	0.162	0.112	6339.176	50822.396	0.000	0.000
90	0.000	0.000	0.000	0.000	-0.780	0.000	0.000	0.000	0.000	0.275	0.000	0.882	1.662	-0.295	0.247	-11559.239	0.000	19456.248	0.000
91	1.068	1.519	0.602	0.000	-0.735	0.000	3680717.709	52.117	0.000	0.000	0.664	0.566	1.301	-0.603	0.110	-23611.978	107274.085	0.000	0.000
92	0.730	76.280	0.370	0.000	-0.088	2.848	265089.107	3.754	201128.148	0.230	0.408	0.915	1.003	0.457	0.190	17927.117	5387229.136	16220.266	0.000
93	1.472	22.784	0.730	22.193	-0.676	2.058	243855.598	3.453	145327.031	0.000	0.708	0.910	1.587	0.426	0.296	16692.105	1609136.609	0.000	1567346.386
94	1.400	28.983	0.657	0.297	-0.427	3.527	586654.939	8.307	249100.040	0.323	0.720	0.903	1.330	0.394	0.190	8803.262	2046902.892	22817.527	20968.701
95	1.303	53.276	0.632	7.583	-0.719	1.657	621778.726	8.804	117052.550	0.000	0.669	0.992	1.711	0.313	0.320	12257.455	3762599.931	0.000	535571.663
96	0.469	89.739	0.194	0.000	-0.031	4.127	296861.558	4.203	291451.045	0.334	0.262	0.876	0.907	0.257	0.167	10067.729	6337769.684	23619.991	0.000
97	0.705	82.826	0.298	0.966	-0.122	3.005	494004.411	6.995	212213.143	0.282	0.339	0.950	1.072	0.332	0.181	13021.033	5849551.250	19926.159	68210.618
98	1.131	66.019	0.515	1.379	-0.776	4.751	632372.097	8.954	335543.237	0.000	0.544	0.932	1.708	0.583	0.256	22863.262	4662549.278	0.000	97419.897
99	1.770	7.843	0.768	54.313	-0.676	0.454	2122322.280	30.051	32047.609	0.000	0.738	0.996	1.672	0.578	0.208	22630.857	553883.102	0.000	3835802.880

100	1.329	51.870	0.650	2.688	0.050	1.110	2403759.603	34.036	78366.438	0.357	0.683	0.852	0.802	0.307	0.105	12027.284	3663262.605	25214.148	189818.153
101	1.079	61.260	0.545	0.338	-0.074	3.928	2277460.796	32.248	277408.462	0.128	0.519	0.970	1.044	0.291	0.110	11418.975	4326480.453	9051.571	23837.715
102	1.273	47.497	0.662	4.151	-0.558	2.775	3169737.173	44.882	195959.806	0.151	0.710	0.918	1.476	0.356	0.141	13954.907	3354466.231	10682.490	293194.718
103	1.473	38.733	0.709	10.099	-0.584	2.734	880301.633	12.465	193088.371	0.363	0.708	0.880	1.464	0.256	0.346	10037.526	2735491.184	25634.805	713243.299
104	0.728	0.304	0.345	1.354	-0.203	0.000	1171862.032	16.593	0.000	0.000	0.406	0.635	0.838	0.148	0.137	5813.212	21489.013	0.000	95660.644
105	0.685	0.000	0.438	0.000	-0.910	0.000	119905.418	1.698	0.000	0.000	0.623	0.719	1.629	-0.420	0.331	-16458.769	0.000	0.000	0.000
106	1.106	0.875	0.559	0.140	-0.863	5.251	869292.664	12.309	370834.345	0.266	0.568	0.892	1.756	-0.040	0.355	-1552.990	61773.622	18787.695	9876.606
107	0.451	0.492	0.231	0.000	-0.559	0.000	91801.423	1.300	0.000	0.000	0.325	-0.347	0.211	-0.440	0.036	-17237.861	34752.511	0.000	0.000
108	1.044	0.000	0.623	0.140	0.097	0.000	5222256.241	78.192	0.000	0.000	0.753	0.339	0.242	0.171	0.038	6708.723	0.000	0.000	9863.769
109	1.757	25.983	0.812	20.967	-0.747	0.000	2133877.146	30.214	0.000	0.000	0.845	0.999	1.746	0.439	0.293	17202.848	1835039.557	0.000	1480798.029
110	1.378	40.611	0.714	18.885	0.045	3.315	2616532.898	37.049	234119.132	0.562	0.769	1.000	0.954	0.421	0.199	16496.807	2868161.215	39698.902	1333750.305
111	0.033	0.196	0.010	0.000	-0.529	0.000	0.000	0.000	0.000	0.000	0.047	-0.201	0.327	-0.346	0.058	-13575.439	13849.492	0.000	0.000
112	1.282	0.849	0.676	0.000	-0.998	0.710	928713.309	13.150	50110.530	0.000	0.716	0.998	1.996	0.088	0.345	2116.169	59993.869	0.000	0.000
113	1.357	0.000	0.700	0.000	-0.518	1.262	459914.827	6.512	89108.916	0.000	0.757	0.493	1.011	-0.135	0.222	-5293.290	0.000	0.000	0.000
114	1.062	0.142	0.514	1.363	0.000	0.000	415681.054	5.886	0.000	0.000	0.593	0.000	0.000	0.000	0.000	0.000	10042.517	0.000	96268.080
115	0.000	0.000	0.000	0.000	-0.180	0.000	0.000	0.000	0.000	0.000	0.000	0.143	0.322	-0.017	0.098	-663.810	0.000	0.000	0.000
116	1.441	0.713	0.716	13.999	-0.285	0.000	829821.712	11.750	0.000	0.000	0.741	0.911	1.196	0.236	0.197	6515.292	50323.215	0.000	988693.192
117	1.762	2.792	0.784	4.097	0.056	0.000	842215.757	11.925	0.000	0.000	0.802	0.675	0.618	0.175	0.087	2225.410	197156.119	0.000	289361.398
118	0.828	0.315	0.399	0.000	-0.322	20.912	269179.097	3.811	1476895.449	0.357	0.462	0.718	1.041	0.222	0.118	2949.771	22281.469	25224.348	0.000
119	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
120	1.092	2.197	0.588	0.000	-0.998	5.030	1419953.319	20.106	355252.302	0.002	0.610	0.838	1.835	0.145	0.225	3895.672	155129.924	132.536	0.000
121	1.014	3.159	0.531	0.000	-0.660	3.017	1289007.588	18.252	213082.885	0.275	0.488	0.752	1.412	0.155	0.080	4003.235	223072.796	19456.423	0.000
122	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
123	1.782	36.355	0.790	38.771	-0.042	0.718	835001.604	11.823	50733.128	0.310	0.743	0.884	0.926	0.373	0.222	14616.757	2567516.381	21914.987	2738157.574
124	1.747	31.374	0.786	60.858	-0.124	0.287	447439.349	6.335	20295.667	0.515	0.759	0.864	0.988	0.406	0.211	14767.451	2215796.865	36393.983	4298065.826
125	1.361	17.386	0.619	13.315	0.002	0.620	916626.596	12.979	43798.406	0.310	0.591	0.977	0.975	0.198	0.214	7742.998	1227842.675	21870.571	940388.712
126	0.000	0.000	0.000	0.000	0.031	0.000	0.000	0.000	0.000	0.000	0.000	0.246	0.215	0.065	0.012	2551.470	0.000	0.000	0.000
127	1.528	15.524	0.701	22.167	-0.642	0.212	789253.688	11.175	14997.242	0.000	0.663	0.894	1.536	0.270	0.250	10563.366	1096381.643	0.000	1565527.657
128	0.060	0.430	0.019	0.000	-0.234	0.000	40293.940	0.571	0.000	0.000	0.054	0.637	0.871	0.093	0.065	3657.364	30401.952	0.000	0.000
129	1.368	30.304	0.662	6.456	-0.992	9.469	314851.547	4.458	668731.744	0.338	0.763	0.915	1.907	0.076	0.445	2964.385	2140180.946	23876.728	455952.860
130	0.000	0.000	0.000	0.000	-0.728	0.000	0.000	0.000	0.000	0.000	0.000	0.048	0.775	-0.490	0.112	-26915.141	0.000	0.000	0.000
131	0.726	75.881	0.383	0.000	-0.107	0.193	2546743.560	20.280	24245.191	0.000	0.451	0.998	1.105	0.396	0.173	21744.247	9529209.586	0.000	0.000
132	0.881	2.541	0.461	0.000	-0.114	0.000	1356479.035	10.802	0.000	0.000	0.547	0.959	1.073	0.216	0.141	11882.299	319048.008	0.000	0.000
133	0.393	0.000	0.231	0.000	-0.801	0.017	66946.812	0.533	2189.867	0.217	0.567	0.993	1.794	-0.130	0.327	-7075.775	0.000	27208.263	0.000

134	1.248	2.484	0.622	0.936	-0.728	0.375	6816813.952	54.282	47101.119	0.086	0.600	0.906	1.634	-0.482	0.347	-26484.029	311931.305	10850.172	117484.325
135	0.789	78.787	0.367	0.078	-0.067	5.268	783567.489	6.240	661615.783	0.481	0.405	0.927	0.994	0.505	0.207	27748.236	9894178.849	60426.293	9747.725
136	1.576	26.671	0.752	21.294	-0.720	3.069	782537.916	6.231	385430.071	0.078	0.758	0.923	1.643	0.468	0.237	22168.821	3349415.848	9786.804	2674082.294
137	1.274	33.054	0.585	0.432	-0.244	4.206	711947.490	5.669	528228.166	0.248	0.655	0.918	1.162	0.412	0.213	12431.241	4151009.749	31169.402	54212.208
138	1.110	65.517	0.528	5.610	-0.688	1.767	845893.466	6.736	221870.905	0.045	0.570	0.993	1.681	0.380	0.278	20889.949	8227693.892	5593.016	704501.934
139	0.464	89.768	0.192	0.332	-0.028	4.332	562978.219	4.483	543964.873	0.267	0.238	0.976	1.003	0.271	0.182	14899.135	11273166.083	33496.726	41636.552
140	0.505	88.838	0.203	0.543	-0.021	2.216	616672.004	4.911	278329.600	0.226	0.243	0.912	0.933	0.290	0.166	15925.604	11156430.527	28387.057	68210.618
141	0.868	77.635	0.376	0.987	-0.150	4.926	731433.703	5.824	618606.962	0.000	0.418	0.933	1.083	0.595	0.201	32722.055	9749515.181	0.000	123991.982
142	1.802	10.988	0.773	59.626	0.028	0.807	3070593.887	24.451	101281.889	0.000	0.725	0.998	0.970	0.584	0.210	32061.169	1379887.904	0.000	7487955.438
143	1.303	52.829	0.641	2.763	0.027	2.271	4564397.893	36.346	285134.534	0.398	0.670	0.999	0.971	0.332	0.105	18219.823	6634369.466	49924.640	346968.527
144	1.046	63.162	0.533	0.470	-0.006	4.943	3789245.231	30.174	620719.860	0.281	0.503	0.915	0.921	0.293	0.102	16081.065	7931909.069	35272.915	58976.608
145	1.292	43.399	0.672	4.826	0.023	4.210	5924166.781	47.174	528661.755	0.162	0.721	0.999	0.975	0.357	0.137	19609.607	5450083.574	20377.206	606109.274
146	1.405	47.835	0.674	12.736	-0.579	1.718	1591660.839	12.674	215700.744	0.289	0.676	0.892	1.471	0.359	0.334	19720.406	6007218.011	36236.378	1599391.825
147	1.205	2.854	0.568	3.949	-0.543	0.000	2710871.485	21.587	0.000	0.070	0.672	0.859	1.401	0.198	0.148	10791.704	358398.432	8769.752	495969.598
148	1.073	1.096	0.599	0.000	-0.915	0.013	1401851.527	11.163	1683.488	0.000	0.552	0.987	1.902	-0.116	0.418	-5489.667	137617.094	0.000	0.000
149	1.411	1.606	0.698	0.079	-0.995	14.170	2011912.329	16.021	1779424.044	0.224	0.678	0.995	1.990	-0.006	0.499	-303.233	201656.853	28136.900	9876.606
150	0.394	0.487	0.184	0.000	-0.757	0.000	207817.211	1.655	0.000	0.000	0.284	-0.225	0.532	-0.434	0.054	-23829.545	61157.092	0.000	0.000
151	1.046	0.000	0.631	0.079	0.096	0.000	8168061.712	65.042	0.000	0.000	0.754	0.409	0.312	0.179	0.049	9854.728	0.000	0.000	9863.769
152	1.745	22.178	0.808	20.909	-0.729	0.732	5224815.914	41.605	91965.206	0.000	0.839	0.999	1.728	0.382	0.270	21005.425	2785096.287	0.000	2625720.101
153	1.396	42.329	0.710	19.960	0.094	3.062	4229201.708	33.677	384470.279	0.430	0.779	0.966	0.872	0.435	0.193	23859.362	5315750.930	53940.793	2506565.656
154	0.041	0.719	0.014	0.000	-0.575	0.000	0.000	0.000	0.000	0.000	0.059	-0.213	0.362	-0.356	0.076	-19571.187	90338.300	0.000	0.000
155	1.238	0.845	0.636	0.000	-0.942	1.560	1625833.485	12.946	195954.715	0.000	0.596	0.998	1.940	0.093	0.294	3368.395	106076.141	0.000	0.000
156	1.469	1.167	0.721	0.019	-0.540	7.069	1538129.932	12.248	887708.103	0.000	0.707	0.686	1.226	-0.141	0.288	-7765.043	146515.802	0.000	2346.237
157	1.113	0.080	0.524	1.035	0.000	0.000	642728.209	5.118	0.000	0.000	0.572	0.000	0.000	0.000	0.000	0.000	10042.517	0.000	129967.156
158	0.000	0.000	0.000	0.000	-0.159	0.000	0.000	0.000	0.000	0.000	0.000	0.148	0.307	0.046	0.066	2531.044	0.000	0.000	0.000
159	1.178	0.401	0.575	9.022	-0.158	0.000	991271.862	7.893	0.000	0.000	0.605	0.868	1.027	0.145	0.112	5189.560	50323.215	0.000	1133042.844
160	1.701	3.753	0.775	4.413	0.047	0.000	1592347.263	12.680	0.000	0.000	0.774	0.791	0.744	0.171	0.101	4277.051	471265.206	0.000	554186.634
161	0.934	0.548	0.490	0.019	-0.214	22.001	1148856.537	9.148	2762903.916	0.303	0.480	0.798	1.012	0.230	0.108	5131.976	68792.000	38063.140	2414.240
162	0.287	0.000	0.153	0.000	-0.700	0.000	0.000	0.000	0.000	0.000	0.414	-0.510	0.190	-0.630	0.063	-3.781	0.000	0.000	0.000
163	1.157	2.774	0.626	0.000	-0.996	6.344	2899348.015	23.087	796725.552	0.047	0.646	0.772	1.768	0.143	0.227	5618.693	348382.097	5854.325	0.000
164	0.842	1.776	0.428	0.000	-0.531	2.402	1665516.081	13.262	301613.868	0.222	0.405	0.801	1.332	0.143	0.080	5221.682	223072.796	27824.093	0.000
165	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
166	1.856	31.758	0.809	40.041	-0.002	2.691	1169398.415	9.312	337937.081	0.244	0.774	0.877	0.879	0.284	0.202	12880.805	3988207.200	30638.607	5028356.585
167	1.807	30.308	0.798	57.067	0.018	0.438	998088.933	7.948	55008.002	0.394	0.785	0.862	0.844	0.354	0.226	14277.048	3806048.538	49471.048	7166491.981

168	1.289	13.735	0.576	11.772	-0.623	2.347	1359525.191	10.826	294720.087	0.335	0.560	0.947	1.570	0.188	0.224	10337.370	1724837.031	42029.926	1478398.599
169	0.000	0.000	0.000	0.000	-0.055	0.000	0.000	0.000	0.000	0.000	0.000	0.172	0.227	0.066	0.013	3631.070	0.000	0.000	0.000
170	1.736	17.996	0.775	32.010	-0.438	0.565	1331230.987	10.601	70949.010	0.000	0.754	0.873	1.311	0.362	0.247	19899.012	2259982.539	0.000	4019903.618
171	0.090	0.451	0.028	0.138	-0.293	0.081	110361.859	0.879	10133.794	0.114	0.050	0.876	1.170	0.088	0.076	4822.507	56586.966	14293.839	17392.643
172	1.303	32.494	0.621	6.703	-0.976	8.942	584683.926	4.656	1123000.644	0.255	0.727	0.933	1.909	0.136	0.489	7475.069	4080644.997	32070.557	841715.059
173	0.056	0.000	0.016	0.384	-0.796	0.000	55702.337	0.284	0.000	0.000	0.041	0.996	1.793	-0.441	0.232	-31139.541	0.000	0.000	75419.166
174	0.657	81.305	0.321	0.126	0.100	0.404	3000945.739	15.292	79186.504	0.000	0.367	0.999	0.899	0.412	0.147	29086.218	15955819.540	0.000	24796.605
175	1.276	3.913	0.630	0.472	-0.190	1.018	3970745.209	20.233	199696.930	0.108	0.614	0.999	1.189	0.298	0.203	21050.626	767901.114	21103.095	92626.452
176	0.860	0.000	0.514	0.000	-0.815	1.317	77973.486	0.397	258541.937	0.199	0.783	0.967	1.782	-0.048	0.315	-3300.599	0.000	39029.976	0.000
177	1.559	6.503	0.706	4.692	-0.695	4.680	9561225.765	48.720	918416.439	0.822	0.750	0.967	1.662	-0.077	0.519	-5456.065	1276268.909	161225.631	920808.461
178	0.866	76.468	0.397	0.353	-0.789	8.594	1541464.569	7.855	1686613.392	0.887	0.445	0.993	1.782	0.464	0.253	32731.629	15006596.902	174019.933	69364.175
179	1.628	28.242	0.759	18.514	-0.552	5.204	1407798.489	7.174	1021191.252	0.243	0.741	0.946	1.498	0.494	0.224	24861.263	5542316.417	47763.032	3633354.294
180	1.188	34.927	0.538	0.697	-0.215	4.565	911260.958	4.643	895955.546	0.200	0.611	1.000	1.215	0.421	0.207	15977.888	6854372.008	39269.996	136784.212
181	1.027	70.845	0.476	4.608	-0.594	2.213	1185095.337	6.039	434328.736	0.087	0.494	0.923	1.517	0.380	0.241	26842.538	13903065.328	17129.909	904326.062
182	0.507	88.379	0.222	0.248	-0.015	6.006	916837.551	4.672	1178672.678	0.215	0.261	0.946	0.962	0.271	0.186	19154.798	17344087.151	42168.712	48700.755
183	0.389	92.156	0.149	0.348	-0.001	1.837	672266.931	3.426	360468.944	0.187	0.187	0.899	0.900	0.265	0.145	18708.317	18085248.582	36643.870	68210.618
184	0.713	83.148	0.297	0.844	-0.293	4.290	965017.945	4.917	841953.126	0.000	0.343	0.950	1.242	0.610	0.198	39144.125	16317517.317	0.000	165611.636
185	1.825	15.012	0.783	59.019	0.026	1.053	4371400.518	22.275	206700.373	0.000	0.735	0.998	0.973	0.558	0.212	39430.944	2945965.535	0.000	11582205.512
186	1.309	49.899	0.657	2.034	0.043	3.096	8056297.165	41.052	607568.046	0.343	0.673	0.998	0.955	0.320	0.108	22601.704	9792521.706	67245.917	399100.728
187	1.023	65.299	0.521	0.375	-0.360	5.139	5560661.277	28.335	1008535.892	0.341	0.492	0.996	1.357	0.287	0.114	20282.185	12814729.076	66935.188	73650.101
188	1.306	40.955	0.678	7.254	-0.051	3.950	9339553.749	47.591	775232.448	0.152	0.729	0.995	1.047	0.404	0.161	28555.726	8037236.539	29889.600	1423550.968
189	1.346	53.733	0.639	12.784	-0.559	1.099	2732535.831	13.924	215700.744	0.231	0.613	0.941	1.500	0.427	0.279	30191.295	10544925.968	45311.761	2508756.781
190	1.434	9.582	0.678	3.696	-0.760	0.250	4624434.491	23.564	49077.948	0.130	0.737	0.907	1.667	0.219	0.162	13039.297	1880454.956	25518.278	725330.799
191	1.419	6.285	0.718	0.157	-0.744	0.839	3881656.377	19.779	164697.317	0.000	0.646	0.997	1.741	0.228	0.314	12001.100	1233385.306	0.000	30725.909
192	1.577	1.882	0.755	0.762	-0.997	18.841	2981695.316	15.194	3697389.772	0.187	0.718	0.999	1.996	-0.006	0.548	-347.214	369267.192	36783.697	149490.225
193	0.414	0.784	0.183	0.000	-0.847	0.000	586007.000	2.986	0.000	0.000	0.257	0.816	1.663	-0.386	0.184	-27255.614	153944.253	0.000	0.000
194	1.050	0.589	0.620	0.050	0.092	0.000	11769850.336	59.975	0.000	0.000	0.653	0.457	0.365	0.206	0.072	14543.535	115668.845	0.000	9863.769
195	1.694	23.778	0.793	18.040	-0.688	1.674	9042122.804	46.075	328561.204	0.082	0.815	0.999	1.686	0.366	0.170	25829.252	4666305.681	16079.527	3540268.322
196	1.437	39.016	0.723	22.810	0.048	3.378	6345070.608	32.332	662880.943	0.337	0.739	1.000	0.952	0.425	0.188	30043.364	7656689.860	66079.133	4476446.847
197	0.053	0.959	0.018	0.000	-0.653	0.000	0.000	0.000	0.000	0.000	0.076	-0.112	0.540	-0.365	0.109	-25772.552	188103.493	0.000	0.000
198	1.296	0.932	0.660	0.000	-0.895	2.218	3513908.422	17.906	435213.952	0.000	0.623	0.790	1.685	0.105	0.198	5040.355	182852.520	0.000	0.000
199	1.462	2.755	0.723	0.102	-0.538	10.513	2696039.231	13.738	2063072.998	0.000	0.703	0.641	1.179	-0.143	0.297	-10104.378	540656.695	0.000	20016.011
200	1.126	0.153	0.528	0.768	-0.116	0.000	706475.229	3.600	0.000	0.000	0.579	0.336	0.452	0.084	0.044	58.748	30121.011	0.000	150642.541
201	0.000	0.000	0.000	0.000	-0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.152	0.162	0.091	0.021	6420.053	0.000	0.000	0.000



202	1.010	0.256	0.475	6.001	-0.164	0.000	1254967.047	6.395	0.000	0.000	0.519	0.736	0.900	0.124	0.059	5499.004	50323.215	0.000	1177627.336
203	1.638	4.123	0.750	3.728	-0.971	0.000	2430770.812	12.386	0.000	0.000	0.746	0.757	1.729	0.161	0.088	5770.028	809057.326	0.000	731673.008
204	1.015	1.287	0.551	0.051	-0.242	21.474	2593361.799	13.215	4214253.310	0.288	0.522	0.914	1.156	0.216	0.111	6841.143	252527.786	56605.293	10099.471
205	0.690	0.000	0.497	0.000	-0.988	0.000	0.000	0.000	0.000	0.000	0.996	0.686	1.674	-0.374	0.540	-532.050	0.000	0.000	0.000
206	1.255	3.396	0.672	0.000	-0.997	10.503	4975842.025	25.355	2061173.921	0.175	0.700	0.850	1.847	0.174	0.211	8790.780	666395.475	34405.901	0.000
207	0.812	1.467	0.401	0.048	-0.295	2.318	2347276.733	11.961	454913.485	0.184	0.370	0.713	1.008	0.144	0.076	6780.915	287854.865	36190.555	9363.957
208	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
209	1.922	30.320	0.822	40.475	-0.023	5.104	1481636.465	7.550	1001559.654	0.199	0.802	0.917	0.939	0.297	0.223	15541.050	5950192.107	39099.825	7943155.286
210	1.854	31.045	0.808	49.396	-0.265	0.621	1843665.789	9.395	121781.182	0.316	0.773	0.857	1.122	0.279	0.218	13140.165	6092471.697	62092.846	9693737.271
211	1.191	12.435	0.525	9.680	-0.676	2.998	1685823.017	8.590	588397.416	0.292	0.517	0.999	1.675	0.156	0.197	10999.867	2440395.765	57330.692	1899593.208
212	0.000	0.000	0.000	0.000	0.005	0.000	0.000	0.000	0.000	0.000	0.000	0.179	0.174	0.065	0.012	4580.360	0.000	0.000	0.000
213	1.809	18.708	0.788	31.541	-0.186	1.557	2219110.905	11.308	305502.014	0.000	0.786	0.997	1.183	0.317	0.246	22417.270	3671389.109	0.000	6189841.523
214	0.258	1.708	0.093	0.910	-0.357	0.135	470234.513	2.396	26571.029	0.125	0.133	0.906	1.263	0.102	0.123	7238.440	335228.478	24445.412	178496.977
215	1.252	33.820	0.594	6.496	-0.979	8.155	977960.525	4.983	1600311.361	0.205	0.699	0.948	1.927	0.134	0.494	9453.662	6637142.776	40255.481	1274784.617
216	0.221	0.011	0.076	2.667	-0.812	0.000	182283.691	0.645	0.000	0.005	0.106	0.999	1.811	-0.313	0.407	-27001.278	2987.659	1517.187	753796.610
217	0.633	83.016	0.297	0.172	-0.165	0.516	3899434.528	13.798	145858.395	0.000	0.353	0.999	1.165	0.388	0.150	33449.683	23461734.304	0.000	48596.673
218	1.582	4.657	0.746	1.323	-0.243	7.264	6813152.414	24.107	2053061.415	0.654	0.761	0.999	1.242	0.368	0.228	31772.153	1316050.081	184955.499	373839.710
219	1.317	1.937	0.716	0.000	-0.776	3.041	187496.666	0.663	859528.391	0.351	0.818	0.998	1.774	0.019	0.357	1528.414	547333.210	99173.506	0.000
220	1.725	11.286	0.774	5.670	-0.708	13.149	11570758.939	40.941	3716272.745	2.340	0.829	0.999	1.707	0.157	0.457	13507.629	3189544.726	661195.071	1602504.831
221	0.920	74.858	0.425	0.661	-0.818	10.596	2413031.122	8.538	2994684.658	1.219	0.473	0.999	1.817	0.471	0.266	40700.941	21156142.572	344547.328	186753.635
222	1.596	30.044	0.743	16.254	-0.684	7.662	1760545.481	6.229	2165364.725	0.281	0.726	0.948	1.632	0.484	0.226	27391.990	8490858.572	79556.092	4593766.593
223	1.177	35.066	0.534	0.640	-0.274	5.708	1225890.799	4.338	1613110.755	0.168	0.605	0.918	1.192	0.420	0.213	19241.453	9910271.009	47351.000	180862.105
224	0.989	73.007	0.448	3.717	-0.574	3.772	1924395.311	6.809	1066040.328	0.202	0.476	0.927	1.501	0.384	0.233	33199.927	20633004.229	57204.798	1050435.782
225	0.553	86.856	0.249	0.215	-0.619	6.456	1693302.614	5.991	1824489.872	0.179	0.284	0.932	1.551	0.296	0.190	25596.645	24547044.782	50630.565	60640.447
226	0.321	93.793	0.119	0.241	-0.308	1.889	713627.840	2.525	533823.634	0.159	0.155	0.914	1.222	0.272	0.156	19734.156	26507712.856	44857.522	68210.618
227	0.606	86.240	0.244	1.131	-0.041	3.786	1164688.074	4.121	1069966.779	0.000	0.292	0.937	0.978	0.590	0.199	39749.528	24372908.408	0.000	319716.278
228	1.813	17.294	0.785	55.770	-0.643	1.970	6537239.517	23.131	556800.157	0.094	0.729	0.996	1.639	0.515	0.216	44505.173	4887645.255	26425.534	15761766.338
229	1.336	46.193	0.679	1.760	-0.528	3.796	12801163.219	45.295	1072850.290	0.285	0.686	0.988	1.516	0.314	0.121	27152.270	13055110.946	80596.016	497393.868
230	1.001	66.969	0.505	0.677	-0.147	4.452	7718631.435	27.311	1258087.119	0.320	0.481	0.858	1.005	0.290	0.107	24994.773	18926792.767	90554.327	191244.717
231	1.279	40.783	0.667	8.766	-0.609	3.262	13287381.028	47.015	921880.744	0.141	0.657	0.998	1.607	0.419	0.152	36153.459	11526140.509	39796.174	2477350.698
232	1.317	58.169	0.612	12.986	-0.429	1.179	4191443.236	14.831	333276.801	0.191	0.599	0.974	1.404	0.464	0.191	40016.088	16439569.413	53930.167	3670102.826
233	1.592	16.475	0.747	3.742	-0.663	0.957	6599220.768	23.350	270425.305	0.130	0.818	0.900	1.562	0.243	0.188	15889.870	4656077.995	36753.237	1057578.901
234	1.631	7.160	0.771	2.761	-0.613	1.123	7371082.949	26.081	317246.349	0.000	0.742	0.998	1.611	0.350	0.210	21168.012	2023503.588	0.000	780407.854
235	1.636	2.259	0.778	0.919	-0.998	19.609	4600773.136	16.279	5541742.462	0.162	0.745	0.998	1.996	0.044	0.497	2652.254	638307.913	45768.327	259746.158

236	0.568	2.266	0.240	0.167	-0.880	0.000	1637094.179	5.793	0.000	0.000	0.292	0.874	1.753	-0.311	0.312	-26855.712	640284.684	0.000	47197.983
237	1.016	0.962	0.600	0.035	-0.037	0.000	17058086.115	60.357	0.000	0.000	0.631	0.502	0.539	0.216	0.086	18640.987	271829.117	0.000	9863.769
238	1.658	26.716	0.782	15.247	0.040	2.058	13233791.032	46.826	581498.359	0.100	0.798	0.998	0.958	0.341	0.151	29411.361	7550382.679	28224.168	4309162.102
239	1.441	35.905	0.728	24.588	0.034	3.825	9484288.510	33.559	1080976.390	0.277	0.741	1.000	0.966	0.411	0.185	35528.180	10147306.484	78167.868	6949059.676
240	0.039	0.666	0.013	0.000	-0.694	0.000	0.000	0.000	0.000	0.000	0.056	0.761	1.455	-0.347	0.161	-30002.113	188103.493	0.000	0.000
241	1.395	2.706	0.693	0.000	-0.967	3.564	5906364.973	20.899	1007355.500	0.000	0.671	0.899	1.865	0.159	0.120	9734.586	764631.651	0.000	0.000
242	1.504	4.059	0.733	0.185	-0.533	12.310	3792996.760	13.421	3479020.162	0.000	0.723	0.635	1.169	-0.118	0.282	-10212.212	1147038.111	0.000	52245.897
243	1.280	0.107	0.618	0.533	-0.164	0.000	1073325.807	3.798	0.000	0.000	0.615	0.453	0.616	0.109	0.066	1023.130	30121.011	0.000	150642.541
244	0.000	0.000	0.000	0.000	0.040	0.000	0.000	0.000	0.000	0.000	0.000	0.233	0.193	0.094	0.017	8139.655	0.000	0.000	0.000
245	0.885	0.178	0.403	4.167	0.054	0.000	1756279.958	6.214	0.000	0.000	0.455	0.690	0.636	0.120	0.045	6378.112	50323.215	0.000	1177627.336
246	1.528	3.417	0.705	3.508	-0.840	0.036	3238712.151	11.460	10130.019	0.000	0.664	0.699	1.539	0.150	0.075	7068.382	965614.148	0.000	991364.769
247	1.052	1.600	0.572	0.036	-0.069	21.939	4444495.304	15.726	6200306.601	0.375	0.540	0.894	0.963	0.215	0.113	8716.226	452077.651	106016.807	10099.471
248	0.805	0.000	0.447	0.000	-0.987	0.000	10602.727	0.038	0.000	0.000	0.450	0.668	1.655	0.100	0.515	381.760	0.000	0.000	0.000
249	1.258	3.151	0.676	0.000	-0.997	12.716	7923470.268	28.036	3593661.628	0.177	0.702	0.894	1.892	0.186	0.172	11470.826	890446.937	50154.544	0.000
250	0.839	1.484	0.413	0.323	-0.048	2.615	3396049.378	12.016	739048.971	0.158	0.382	0.760	0.809	0.156	0.083	8912.612	419284.820	44553.390	91239.569
251	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
252	1.942	29.597	0.825	39.475	-0.042	5.796	2151477.409	7.613	1638099.407	0.179	0.810	0.983	1.025	0.322	0.240	19350.198	8364702.810	50460.629	11156372.423
253	1.858	31.640	0.810	41.640	-0.815	0.514	2928923.659	10.364	145371.024	0.263	0.775	0.886	1.701	0.247	0.210	13407.687	8942063.866	74412.281	11768248.542
254	1.097	11.605	0.480	8.426	-0.466	2.155	2204520.813	7.800	609077.342	0.250	0.457	0.999	1.465	0.154	0.179	13249.064	3279845.095	70697.528	2381384.792
255	0.003	0.030	0.001	0.000	0.001	0.000	1073.318	0.004	0.000	0.043	0.005	0.867	0.866	0.069	0.036	5986.547	8426.577	12033.961	0.000
256	1.821	18.718	0.789	30.406	-0.313	3.635	2887544.818	10.217	1027444.157	0.000	0.791	0.999	1.312	0.287	0.247	24732.334	5290060.467	0.000	8593245.000
257	0.464	2.902	0.174	2.884	-0.542	1.265	783351.596	2.772	357405.913	0.125	0.223	0.912	1.454	0.108	0.164	8408.231	820262.913	35322.093	815019.968
258	1.222	34.302	0.580	6.940	-0.986	6.863	1540936.858	5.452	1939556.993	0.171	0.682	0.930	1.917	0.124	0.470	10727.697	9694314.876	48354.504	1961416.974
259	0.853	4.399	0.343	9.924	-0.788	0.039	1364066.157	2.715	19397.474	0.043	0.343	0.999	1.787	0.028	0.541	3278.951	2210653.864	21671.478	4986511.898
260	0.593	85.247	0.265	0.217	-0.050	0.946	5808290.334	11.559	475146.060	0.000	0.331	0.999	1.049	0.374	0.174	44053.866	42835847.237	0.000	108945.217
261	1.776	8.798	0.811	2.205	-0.502	17.436	10284989.642	20.468	8761334.380	1.634	0.771	0.999	1.501	0.402	0.240	39910.098	4421112.663	820836.743	1107859.575
262	1.371	5.567	0.697	0.048	-0.788	9.512	1310629.704	2.608	4779681.362	1.208	0.624	0.999	1.787	0.146	0.335	16750.763	2797181.663	606843.903	24229.429
263	1.592	13.726	0.745	3.513	-0.717	37.589	14263069.898	28.385	18888177.022	6.249	0.766	0.999	1.716	0.260	0.315	30577.694	6897279.326	3140163.447	1765097.798
264	0.902	74.321	0.421	0.912	-0.245	12.480	4620735.626	9.196	6271098.562	1.525	0.434	0.942	1.187	0.441	0.219	51928.907	37345493.388	766468.619	458179.281
265	1.629	27.166	0.755	14.351	-0.685	10.955	3672463.294	7.309	5504527.553	0.729	0.708	0.999	1.684	0.477	0.264	34347.583	13650549.245	366368.243	7211217.020
266	1.046	36.795	0.478	0.620	-0.067	7.190	1553891.164	3.092	3612868.549	0.126	0.537	0.948	1.014	0.404	0.224	24925.885	18489135.996	63460.545	311444.703
267	0.796	80.188	0.343	2.395	-0.609	4.036	2492474.775	4.960	2027845.420	0.241	0.362	0.939	1.547	0.368	0.216	43374.603	40293308.618	120862.440	1203564.417
268	0.622	85.108	0.270	1.522	-0.640	4.617	4242654.738	8.443	2320074.732	0.134	0.319	0.921	1.562	0.301	0.190	28913.405	42765669.610	67375.019	764616.348
269	0.283	94.579	0.105	0.136	-0.351	2.130	1122171.430	2.233	1070538.940	0.121	0.136	0.966	1.317	0.300	0.160	17708.764	47524753.787	60964.487	68210.618

270	0.554	88.077	0.219	2.090	-0.616	3.629	1782862.307	3.548	1823523.910	0.101	0.267	0.937	1.553	0.576	0.212	46437.056	44257522.762	50618.514	1050276.503
271	1.763	23.761	0.783	47.129	-0.833	2.166	12991047.818	25.853	1088492.132	0.119	0.687	0.997	1.830	0.469	0.205	55272.212	11939469.705	60016.103	23681768.213
272	1.420	38.936	0.717	5.400	-0.399	3.806	25182985.557	50.117	1912714.397	0.211	0.683	0.999	1.398	0.360	0.152	42391.107	19565062.457	106098.892	2713446.987
273	1.021	67.979	0.506	1.836	-0.025	4.278	12851290.274	25.575	2149556.312	0.256	0.491	0.976	1.001	0.323	0.125	38081.200	34158542.513	128573.745	922377.927
274	1.210	43.288	0.645	8.575	0.011	2.205	23031481.887	45.835	1108025.650	0.114	0.622	0.941	0.931	0.396	0.139	46657.611	21751502.631	57500.222	4308754.207
275	1.223	62.003	0.576	16.142	-0.030	0.723	6991348.081	13.913	363135.071	0.161	0.557	0.986	1.016	0.461	0.188	54310.253	31155792.220	81065.379	8111127.780
276	1.629	23.896	0.771	3.005	-0.623	1.837	11887497.918	23.657	922824.745	0.224	0.837	0.812	1.435	0.258	0.166	20824.180	12007561.744	112806.827	1509889.942
277	1.776	7.450	0.802	4.440	-0.612	3.995	14812358.462	29.478	2007400.490	0.061	0.808	0.999	1.611	0.315	0.230	24290.492	3743362.352	30696.953	2231212.344
278	1.738	3.375	0.798	0.938	-0.998	18.958	10387595.881	20.672	9526207.204	0.133	0.791	0.999	1.997	0.258	0.285	20094.100	1696008.666	66729.938	471369.701
279	1.051	6.564	0.469	1.956	-0.817	0.086	7342606.366	14.612	43141.754	0.000	0.506	0.994	1.811	0.023	0.454	2741.715	3298350.350	0.000	982953.760
280	1.057	3.091	0.606	0.020	-0.233	0.000	30067423.233	59.837	0.000	0.000	0.657	1.000	1.233	0.238	0.169	27975.926	1553435.524	0.000	9863.769
281	1.604	25.321	0.766	13.608	0.012	2.001	25687677.688	51.121	1005361.449	0.097	0.771	0.954	0.941	0.310	0.127	36477.564	12723627.673	48904.123	6837975.030
282	1.445	35.317	0.726	22.674	-0.283	3.994	18114500.575	36.050	2006955.863	0.204	0.695	1.000	1.283	0.422	0.183	49648.575	17746352.831	102430.763	11393340.083
283	0.038	0.453	0.011	0.000	-0.710	0.000	59426.305	0.118	0.000	0.000	0.034	0.941	1.651	-0.252	0.263	-29681.371	227711.003	0.000	0.000
284	1.443	3.924	0.697	0.060	-0.338	5.151	12474072.447	24.825	2588413.583	0.000	0.657	0.997	1.335	0.181	0.090	16472.169	1971955.910	0.000	30001.943
285	1.483	5.957	0.729	0.159	-0.536	15.660	6107224.552	12.154	7868813.778	0.096	0.713	0.749	1.285	-0.095	0.285	-11185.824	2993090.238	48322.470	80057.573
286	1.373	0.160	0.686	0.578	-0.268	0.000	2493059.679	4.961	0.000	0.000	0.660	0.632	0.900	0.142	0.128	5535.892	80320.049	0.000	290281.126
287	0.007	0.000	0.002	0.000	0.054	0.000	22898.773	0.046	0.000	0.000	0.006	0.611	0.557	0.109	0.029	12792.269	0.000	0.000	0.000
288	0.856	0.180	0.380	3.135	-0.457	0.175	3317020.350	6.601	88126.012	0.092	0.412	0.928	1.386	0.166	0.135	11296.442	90577.372	46186.753	1575277.617
289	1.403	2.552	0.640	2.524	0.011	0.243	5703708.880	11.351	122093.428	0.000	0.609	0.798	0.787	0.154	0.072	10035.651	1282590.732	0.000	1268473.707
290	1.136	3.968	0.616	0.020	-0.631	20.192	9762039.017	19.427	10146222.730	0.345	0.546	0.997	1.628	0.230	0.106	13752.429	1993868.496	173432.108	10113.318
291	1.523	0.040	0.750	0.020	-0.997	0.000	575814.350	1.146	0.000	0.010	0.733	0.981	1.978	0.148	0.304	3745.695	20241.937	4938.768	10121.313
292	1.241	3.000	0.654	0.000	-0.997	11.694	17262370.051	34.354	5875906.316	0.175	0.692	0.867	1.864	0.190	0.176	16224.973	1507635.628	87946.280	0.000
293	0.783	1.470	0.378	0.282	-0.015	2.199	5350059.214	10.647	1104775.997	0.121	0.356	0.817	0.832	0.154	0.081	11645.127	738712.595	61001.292	141920.653
294	0.294	0.000	0.133	0.000	0.061	0.000	11255.387	0.022	0.000	0.000	0.212	0.993	0.931	0.183	0.072	3878.157	0.000	0.000	0.000
295	1.944	24.347	0.828	31.773	-0.475	9.670	4172101.029	8.303	4859005.906	0.197	0.811	0.927	1.402	0.204	0.193	15541.987	12234054.409	98937.894	15965790.499
296	1.862	29.468	0.811	34.789	-0.998	1.592	5503092.745	10.952	800020.092	0.207	0.777	0.896	1.894	0.247	0.235	16995.409	14807301.361	103787.958	17481297.517
297	0.901	8.963	0.388	4.909	-0.742	1.333	3808851.713	7.580	669960.733	0.197	0.376	0.914	1.656	0.115	0.120	13491.679	4503772.674	98819.706	2466747.045
298	0.170	0.946	0.053	0.987	-0.484	0.218	366989.275	0.730	109353.028	0.061	0.077	0.969	1.453	0.119	0.161	11248.524	475144.512	30662.473	495803.868
299	1.700	19.677	0.747	22.775	-0.546	2.925	5965746.620	11.872	1469687.130	0.055	0.738	0.964	1.510	0.236	0.216	21905.402	9887441.019	27580.447	11443939.283
300	0.654	4.737	0.257	4.766	-0.988	1.697	1657595.547	3.299	852689.755	0.114	0.284	0.837	1.825	0.088	0.123	5250.785	2380496.584	57341.502	2394796.839
301	1.151	35.235	0.548	7.235	-0.979	5.814	2663892.271	5.301	2921686.687	0.128	0.592	0.948	1.927	0.132	0.473	15583.119	17705260.250	64431.025	3635341.066
302	1.124	7.936	0.470	9.580	-0.756	0.046	3715003.596	5.841	29095.460	0.087	0.452	0.999	1.755	0.050	0.462	6661.486	5046916.075	55519.006	6092752.754
303	0.576	86.294	0.253	0.324	-0.305	1.017	6842347.255	10.759	646985.105	0.000	0.322	0.999	1.304	0.390	0.189	52039.572	54881684.693	0.000	206215.741

304	1.794	9.900	0.815	2.337	-0.277	21.108	11972630.939	18.825	13424090.223	1.911	0.779	0.999	1.276	0.375	0.231	39556.491	6296577.090	1215289.082	1486365.466
305	1.284	6.196	0.645	0.046	-0.693	15.110	2397254.450	3.769	9610008.813	1.886	0.585	0.998	1.691	0.228	0.302	30039.821	3940590.915	1199702.494	29234.112
306	1.509	16.133	0.715	2.825	-0.645	43.700	15180128.450	23.869	27792712.538	6.909	0.726	0.999	1.644	0.336	0.251	44766.328	10260244.550	4394039.865	1796346.345
307	0.877	75.102	0.413	0.758	-0.585	12.695	5709402.105	8.977	8074068.995	1.529	0.422	0.999	1.585	0.496	0.211	66124.343	47763663.403	972608.503	481794.094
308	1.636	26.426	0.756	13.440	-0.704	11.642	5093831.040	8.009	7404327.768	0.847	0.711	0.996	1.700	0.495	0.260	39819.510	16806623.839	538882.586	8547370.999
309	0.977	38.052	0.445	0.597	-0.150	7.079	1700366.075	2.674	4501863.275	0.113	0.502	0.927	1.077	0.387	0.204	26935.282	24200391.821	71572.424	379501.818
310	0.749	81.809	0.319	2.024	-0.470	4.636	2953221.905	4.644	2948590.721	0.257	0.341	0.937	1.407	0.379	0.217	50628.759	52029712.350	163556.430	1287426.429
311	0.628	85.118	0.271	2.049	-0.057	4.144	5370269.085	8.444	2635347.325	0.138	0.323	0.992	1.050	0.300	0.184	30754.888	54134072.516	87782.910	1303126.098
312	0.363	92.735	0.137	0.214	-0.069	2.875	1591029.429	2.502	1828475.482	0.108	0.174	0.910	0.979	0.329	0.184	18894.701	58978118.867	68968.614	135979.245
313	0.595	86.868	0.238	1.935	-0.582	4.205	2715805.797	4.270	2674058.121	0.106	0.286	0.933	1.514	0.517	0.273	45115.673	55246898.957	67662.677	1230693.985
314	1.745	26.261	0.781	42.264	-0.415	2.382	17783465.471	27.962	1514609.480	0.157	0.680	0.998	1.412	0.467	0.202	62360.651	16701634.774	100027.046	26879210.754
315	1.405	40.590	0.711	6.009	-0.101	3.524	30827218.381	48.472	2241291.808	0.186	0.676	0.999	1.100	0.365	0.139	48686.426	25814503.089	118471.591	3821331.248
316	1.093	65.215	0.543	3.110	0.003	4.086	17379133.491	27.326	2598522.232	0.222	0.526	0.998	0.995	0.327	0.130	42300.070	41476146.098	141481.344	1977764.947
317	1.219	42.465	0.647	8.703	-0.401	1.930	29760208.475	46.794	1227171.586	0.106	0.586	0.996	1.398	0.410	0.148	54686.236	27007265.219	67674.382	5535276.999
318	1.186	62.451	0.564	17.833	-0.226	0.756	8430894.651	13.256	480895.211	0.149	0.540	0.967	1.193	0.464	0.181	61869.998	39718042.602	94792.650	11341370.202
319	1.609	26.759	0.763	2.796	-0.568	1.685	14857226.453	23.361	1071363.332	0.220	0.827	0.847	1.414	0.279	0.152	24703.920	17018338.760	140179.850	1778020.923
320	1.826	8.705	0.815	4.786	-0.612	5.491	18076487.595	28.423	3492181.441	0.066	0.831	1.000	1.612	0.325	0.252	27897.280	5536436.879	42019.212	3044112.997
321	1.751	3.542	0.798	0.907	-0.995	18.992	13914821.478	21.879	12078370.111	0.165	0.797	0.997	1.992	0.252	0.280	21242.546	2252856.156	105057.067	576845.844
322	1.307	11.480	0.595	3.928	-0.984	0.616	11488543.673	18.064	391504.787	0.000	0.595	0.999	1.983	0.218	0.432	29043.063	7301009.523	0.000	2497952.836
323	1.130	6.554	0.630	0.016	-0.158	0.000	35968215.220	56.555	0.000	0.000	0.631	1.000	1.158	0.260	0.158	34743.465	4168178.099	0.000	9863.769
324	1.597	24.163	0.765	14.037	0.002	1.970	33090721.285	52.031	1252792.524	0.091	0.768	0.999	0.997	0.315	0.126	42031.919	15367528.019	58031.871	8927512.741
325	1.439	36.934	0.720	20.591	-0.208	3.680	23210316.728	36.495	2340539.710	0.180	0.692	0.999	1.208	0.417	0.191	55658.514	23489312.629	114508.272	13095825.285
326	0.031	0.358	0.009	0.000	-0.661	0.000	59426.305	0.093	0.000	0.000	0.028	0.427	1.088	-0.232	0.243	-30962.056	227711.003	0.000	0.000
327	1.491	3.411	0.708	0.048	-0.440	6.431	15313891.857	24.079	4089869.306	0.000	0.679	0.916	1.356	0.203	0.123	17423.945	2169527.659	0.000	30351.270
328	1.485	6.353	0.726	0.176	-0.570	16.240	7960680.152	12.517	10328709.133	0.102	0.676	0.998	1.569	-0.097	0.281	-12991.057	4040341.947	64817.793	111652.895
329	1.319	0.174	0.670	0.593	-0.327	0.000	2924230.375	4.598	0.000	0.000	0.634	0.645	0.972	0.122	0.144	6046.530	110437.088	0.000	377320.102
330	0.016	0.018	0.004	0.000	0.061	0.000	110444.790	0.174	0.000	0.000	0.012	0.866	0.805	0.116	0.043	15519.084	11224.906	0.000	0.000
331	0.935	0.442	0.408	3.176	-0.402	0.542	4374390.914	6.878	344919.540	0.097	0.425	0.999	1.400	0.160	0.123	12422.537	281360.384	62000.074	2019660.198
332	1.390	3.189	0.631	2.472	-0.102	0.343	7247378.858	11.395	218422.352	0.000	0.604	0.788	0.889	0.154	0.071	11409.775	2028225.149	0.000	1572374.526
333	1.195	4.389	0.630	0.160	-0.595	19.360	13426384.281	21.111	12312688.358	0.321	0.575	0.998	1.593	0.253	0.135	18579.026	2791659.340	204307.389	101940.507
334	1.389	0.032	0.669	0.032	-0.997	0.080	971303.800	1.527	50626.840	0.054	0.632	0.927	1.925	0.108	0.243	4083.202	20241.937	34177.422	20241.364
335	1.246	3.596	0.649	0.000	-0.997	11.289	23191823.880	36.466	7179841.478	0.167	0.695	0.901	1.898	0.198	0.177	19365.041	2286938.146	106506.236	0.000
336	0.795	1.763	0.381	0.277	-0.013	2.055	6724890.511	10.574	1306962.461	0.109	0.362	0.914	0.926	0.158	0.078	13367.730	1121171.980	69149.945	176167.694
337	0.480	0.000	0.218	0.000	-0.305	0.000	405044.295	0.637	0.000	0.017	0.298	0.978	1.284	0.207	0.078	6441.602	0.000	10871.949	0.000

338	1.940	22.973	0.827	31.716	-0.422	9.403	5405867.492	8.500	5980435.533	0.196	0.809	0.999	1.421	0.264	0.245	22334.104	14610199.782	124819.968	20170796.645
339	1.844	27.764	0.806	32.833	-0.999	1.888	6681815.242	10.506	1200940.364	0.184	0.769	0.972	1.971	0.270	0.281	20599.709	17657457.819	117046.599	20881181.831
340	0.855	8.411	0.367	4.168	-0.996	1.138	4711210.180	7.408	723946.382	0.179	0.356	0.978	1.974	0.123	0.149	16360.747	5349114.511	113554.062	2650614.726
341	0.285	1.463	0.096	1.450	-0.034	0.790	936931.014	1.473	502644.863	0.061	0.124	0.999	1.033	0.125	0.154	12022.287	930648.746	39101.904	922073.930
342	1.636	18.684	0.719	20.634	-0.199	2.949	7071718.960	11.119	1875404.050	0.079	0.710	0.960	1.159	0.232	0.228	21030.662	11882551.732	50446.224	13123140.481
343	0.697	5.177	0.276	5.340	-0.242	1.448	2281313.221	3.587	920840.949	0.104	0.303	0.790	1.031	0.065	0.075	4041.427	3292520.933	66230.084	3396401.806
344	1.108	35.949	0.525	6.823	-0.980	5.734	3067586.775	4.823	3646816.018	0.114	0.533	0.948	1.927	0.113	0.469	15020.425	22863368.688	72541.883	4339240.437
345	1.267	13.134	0.550	8.707	-0.730	0.051	6006760.311	7.650	40221.396	0.134	0.510	0.997	1.727	0.082	0.432	12280.200	10312545.368	105517.251	6836992.522
346	0.542	87.039	0.235	0.458	-0.624	1.161	7836217.423	9.980	911741.763	0.029	0.302	0.999	1.623	0.391	0.198	58351.356	68342460.178	22551.769	359478.410
347	1.793	10.142	0.811	3.014	-0.513	25.009	13953922.476	17.771	19636482.370	2.429	0.779	0.999	1.512	0.369	0.240	41817.151	7963695.918	1907587.539	2366848.532
348	1.278	7.336	0.623	0.195	-0.770	19.258	3758603.358	4.787	15120818.100	2.536	0.582	1.000	1.770	0.290	0.275	40659.657	5760080.314	1991202.644	152826.836
349	1.442	17.204	0.687	2.368	-0.538	47.975	16497598.075	21.011	37669501.745	7.153	0.656	0.999	1.537	0.337	0.231	50185.518	13508194.195	5616619.889	1859573.841
350	0.842	75.856	0.399	0.830	-0.226	13.403	6211902.358	7.911	10523952.246	1.525	0.405	0.993	1.220	0.489	0.212	72879.773	59561827.251	1197805.824	651713.442
351	1.613	27.286	0.745	12.514	-0.776	10.504	7110992.092	9.056	8247584.648	0.761	0.701	1.000	1.775	0.514	0.266	45597.255	21425019.453	597411.075	9825609.778
352	0.920	38.998	0.417	0.644	-0.290	6.937	1894793.823	2.413	5446889.879	0.111	0.473	0.926	1.216	0.417	0.198	32390.394	30620565.132	86941.397	505610.652
353	0.694	83.517	0.291	1.840	-0.251	4.781	3268757.728	4.163	3754174.080	0.258	0.316	0.927	1.178	0.388	0.202	57874.044	65576434.112	202716.349	1444700.332
354	0.664	83.966	0.292	2.369	-0.419	3.938	7470881.137	9.515	3092333.138	0.139	0.341	0.899	1.317	0.343	0.199	37585.798	65928978.896	109518.771	1859932.893
355	0.465	90.002	0.183	0.840	-0.057	4.433	1951333.192	2.485	3480920.870	0.131	0.224	0.921	0.978	0.340	0.202	19197.647	70669159.345	102543.628	659207.322
356	0.646	83.901	0.262	1.992	-0.559	5.166	3412770.512	4.346	4056622.305	0.108	0.294	0.935	1.494	0.480	0.240	38942.824	65878061.349	84577.673	1563937.034
357	1.702	28.703	0.772	38.826	-0.285	2.456	22716628.537	28.931	1928524.659	0.186	0.664	0.995	1.280	0.452	0.199	67379.635	22537479.974	146192.167	30485618.170
358	1.381	43.122	0.699	6.365	-0.455	2.935	36453789.692	46.427	2304349.202	0.167	0.600	0.999	1.454	0.388	0.144	51841.348	33859288.508	130764.766	4997561.545
359	1.162	61.438	0.581	4.138	-0.239	4.086	23625942.315	30.089	3208499.219	0.196	0.529	0.981	1.221	0.331	0.134	41879.288	48240632.810	154182.874	3249057.407
360	1.253	40.245	0.658	10.180	-0.449	1.784	37457226.304	47.705	1400503.702	0.097	0.570	0.999	1.448	0.432	0.176	64465.653	31599728.111	76001.503	7992931.168
361	1.147	63.621	0.548	17.505	-0.012	0.649	10682562.207	13.605	509765.536	0.139	0.498	0.993	1.005	0.437	0.173	65210.253	49954703.063	109393.678	13744638.983
362	1.597	28.701	0.754	2.936	-0.530	1.565	17796677.169	22.665	1228945.050	0.203	0.821	0.903	1.433	0.301	0.153	29105.767	22535714.618	159745.788	2305164.682
363	1.856	10.363	0.825	4.692	-0.415	7.387	20905425.318	26.625	5800072.866	0.107	0.845	1.000	1.414	0.362	0.250	34152.336	8137173.120	83666.629	3683799.665
364	1.768	3.545	0.798	1.187	-0.997	18.595	17794485.610	22.663	14600508.122	0.167	0.805	0.995	1.993	0.253	0.282	21265.343	2783125.102	131290.212	931740.907
365	1.473	16.728	0.677	3.916	-0.991	2.548	16277768.560	20.731	2000851.285	0.024	0.670	0.998	1.989	0.279	0.386	41699.979	13134892.447	18655.229	3074765.911
366	1.178	10.423	0.647	0.027	-0.400	0.000	43480825.325	55.376	0.000	0.000	0.657	1.000	1.399	0.292	0.168	43499.336	8184209.055	0.000	21088.058
367	1.591	24.348	0.765	14.169	0.036	2.070	41158097.833	52.418	1625014.745	0.086	0.765	0.999	0.964	0.327	0.131	48810.821	19117687.392	67623.656	11125631.598
368	1.443	37.431	0.717	17.957	-0.016	3.786	29749291.801	37.888	2972643.303	0.161	0.694	0.999	1.015	0.371	0.176	55348.939	29390723.983	126682.482	14099638.914
369	0.034	0.353	0.010	0.000	-0.598	0.000	108953.917	0.139	0.000	0.000	0.031	0.746	1.343	-0.183	0.228	-27233.987	277238.735	0.000	0.000
370	1.514	3.215	0.717	0.076	-0.620	6.693	18709636.481	23.828	5255675.867	0.000	0.689	0.946	1.566	0.213	0.117	14899.161	2524165.018	0.000	60006.359
371	1.509	6.855	0.730	0.568	-0.546	15.759	10068154.468	12.823	12373714.032	0.101	0.687	0.780	1.326	-0.109	0.279	-16259.405	5382291.048	79677.023	446183.226

372	1.277	0.166	0.649	0.562	-0.532	0.007	3582079.032	4.562	5737.869	0.000	0.581	0.631	1.162	0.108	0.148	6052.687	130453.215	0.000	440983.431
373	0.014	0.026	0.003	0.000	0.055	0.000	110444.790	0.141	0.000	0.000	0.010	0.788	0.734	0.113	0.035	16901.372	20078.023	0.000	0.000
374	0.955	0.503	0.417	3.262	-0.328	0.770	5577560.999	7.103	604839.874	0.098	0.415	0.999	1.327	0.155	0.112	13369.847	394642.627	76942.364	2561393.589
375	1.367	3.803	0.616	2.142	-0.070	0.348	8760411.154	11.157	273499.743	0.000	0.594	0.769	0.839	0.155	0.071	13298.657	2985773.970	0.000	1682082.999
376	1.288	4.502	0.647	0.193	-0.988	18.422	18190414.267	23.167	14464987.812	0.299	0.586	0.997	1.986	0.255	0.146	22196.346	3535043.515	234757.122	151501.278
377	1.274	0.046	0.603	0.026	-0.996	0.130	1925593.366	2.452	101687.364	0.086	0.580	0.997	1.993	0.155	0.184	8096.853	35871.261	67608.528	20241.364
378	1.241	3.801	0.642	0.013	-0.997	11.135	29872167.486	38.044	8742991.232	0.174	0.638	0.850	1.847	0.187	0.163	20940.196	2984280.744	136295.887	10111.325
379	0.803	1.791	0.385	0.402	0.005	1.987	8437836.049	10.746	1559883.018	0.098	0.366	0.922	0.917	0.160	0.078	15076.466	1406296.346	77274.773	315517.673
380	0.561	0.040	0.262	0.000	-0.232	0.016	930146.220	1.185	12828.962	0.027	0.288	0.991	1.223	0.203	0.080	7664.623	31668.345	21209.638	0.000
381	1.926	21.590	0.823	31.389	-0.995	9.458	6570778.874	8.368	7426537.290	0.197	0.803	0.998	1.993	0.241	0.238	22356.339	16951885.767	154647.001	24645986.093
382	1.840	25.607	0.801	30.467	-0.986	2.783	8413059.126	10.715	2185009.252	0.166	0.767	0.955	1.942	0.249	0.234	20825.402	20106470.722	130123.360	23922083.242
383	0.802	8.004	0.344	3.542	-0.372	0.944	5778577.363	7.359	741061.686	0.165	0.334	0.919	1.291	0.132	0.138	19607.894	6284806.793	129709.980	2781329.205
384	0.368	1.845	0.129	2.251	-0.355	0.928	1445278.497	1.841	728306.740	0.061	0.160	0.982	1.337	0.120	0.158	11839.984	1448314.179	47898.367	1767174.135
385	1.575	17.408	0.693	19.280	-0.199	2.796	8128491.477	10.352	2195118.327	0.080	0.684	0.928	1.127	0.204	0.217	19222.146	13668591.995	62915.513	15138285.020
386	0.702	5.403	0.279	5.162	-0.109	1.392	2961148.090	3.771	1093076.758	0.095	0.305	0.359	0.467	0.056	0.014	3629.092	4242561.491	74577.749	4053233.554
387	1.088	36.456	0.516	6.298	-0.976	5.855	3583031.886	4.563	4597276.090	0.107	0.523	0.947	1.924	0.123	0.471	17318.646	28625229.039	83874.396	4944749.774
388	0.000	0.000	0.000	0.000	-0.646	0.000	0.000	0.000	0.000	0.000	0.000	-0.243	0.404	-0.511	0.053	-12034.793	0.000	0.000	0.000
389	0.837	66.505	0.498	0.000	-0.288	0.000	925790.303	29.473	0.000	0.000	0.604	0.644	0.932	0.213	0.172	5019.831	2089040.707	0.000	0.000
390	0.096	0.000	0.038	0.000	-0.085	0.000	0.000	0.000	0.000	0.000	0.138	0.656	0.740	0.125	0.060	2933.596	0.000	0.000	0.000
391	0.000	0.000	0.000	0.000	-0.797	0.000	0.000	0.000	0.000	0.000	0.000	0.950	1.747	-0.285	0.245	-6709.052	0.000	0.000	0.000
392	1.074	2.783	0.604	0.000	-0.715	0.000	1583376.407	50.407	0.000	0.000	0.775	0.352	1.068	-0.623	0.060	-14669.039	87407.723	0.000	0.000
393	0.809	57.787	0.497	0.000	-0.930	0.621	97505.530	3.104	19500.288	0.000	0.502	0.895	1.825	0.213	0.441	5021.458	1815177.239	0.000	0.000
394	1.254	8.174	0.671	14.231	-0.633	0.364	89584.087	2.852	11419.528	0.000	0.700	0.881	1.514	0.281	0.374	6623.206	256745.634	0.000	447030.214
395	1.554	24.016	0.736	0.622	-0.221	2.049	334150.630	10.638	64366.209	0.445	0.799	0.831	1.052	0.356	0.172	5159.092	754394.990	13978.172	19542.243
396	1.477	24.917	0.711	13.049	-0.832	1.253	403357.815	12.841	39353.172	0.000	0.759	0.915	1.747	0.102	0.549	2405.940	782686.296	0.000	409893.307
397	0.602	85.834	0.256	0.000	-0.772	2.632	225971.446	7.194	82662.012	0.310	0.336	0.901	1.673	0.267	0.274	6283.281	2696185.377	9722.407	0.000
398	1.000	72.379	0.451	2.077	-0.585	2.046	314271.249	10.005	64262.263	0.346	0.481	0.867	1.452	0.300	0.281	7062.379	2273546.790	10870.617	65241.949
399	1.417	42.320	0.690	0.621	-0.836	3.027	478589.612	15.236	95068.357	0.000	0.681	0.966	1.802	0.215	0.576	5066.185	1329337.088	0.000	19505.252
400	1.630	3.849	0.744	44.945	-0.923	0.000	1097070.530	34.925	0.000	0.000	0.742	0.954	1.877	0.436	0.400	10260.203	120904.254	0.000	1411796.357
401	1.453	40.902	0.704	3.398	-0.642	0.964	992153.618	31.585	30265.927	0.000	0.746	0.899	1.541	0.307	0.195	7223.302	1284790.375	0.000	106733.675
402	1.096	61.064	0.545	0.000	-0.327	2.608	983863.580	31.321	81935.470	0.000	0.563	0.798	1.125	0.252	0.083	5936.961	1918124.934	0.000	0.000
403	1.305	49.370	0.670	4.236	0.059	2.289	1336363.334	42.543	71894.380	0.000	0.728	0.890	0.831	0.384	0.147	9039.113	1550784.794	0.000	133051.867
404	1.335	29.786	0.669	6.734	-0.574	0.014	314260.640	10.005	434.306	0.342	0.686	0.745	1.319	0.189	0.300	4452.339	935633.816	10757.091	211522.184
405	0.330	0.000	0.133	0.938	-0.308	0.000	141270.975	4.497	0.000	0.000	0.205	0.637	0.945	0.013	0.136	302.496	0.000	0.000	29448.875

406	0.563	0.000	0.376	0.000	-0.841	0.000	0.000	0.000	0.000	0.000	0.812	0.375	1.216	-0.571	0.195	-13460.600	0.000	0.000	0.000
407	0.581	1.389	0.279	0.000	-0.997	1.173	80178.547	2.553	36840.818	0.183	0.361	0.692	1.689	-0.272	0.305	-6406.592	43635.580	5756.404	0.000
408	0.403	0.000	0.239	0.000	-0.540	0.000	0.000	0.000	0.000	0.000	0.581	-0.359	0.180	-0.447	0.025	-10530.577	0.000	0.000	0.000
409	0.926	0.000	0.547	0.314	0.099	0.000	2886282.570	91.885	0.000	0.000	0.668	0.304	0.205	0.176	0.025	4147.652	0.000	0.000	9863.769
410	1.540	40.782	0.737	6.548	-0.558	0.000	499069.352	15.888	0.000	0.000	0.791	0.955	1.514	0.325	0.333	7640.445	1281020.948	0.000	205675.423
411	1.301	40.640	0.685	14.143	0.069	2.062	1345673.755	42.840	64773.411	0.505	0.726	0.987	0.918	0.488	0.194	11497.637	1276588.166	15861.313	444264.754
412	0.000	0.000	0.000	0.000	-0.476	0.000	0.000	0.000	0.000	0.000	0.000	-0.233	0.243	-0.357	0.029	-8409.672	0.000	0.000	0.000
413	1.227	1.284	0.685	0.000	-0.998	0.318	448357.514	14.274	9998.762	0.000	0.762	0.997	1.995	-0.044	0.442	-608.711	40323.510	0.000	0.000
414	0.802	0.000	0.460	0.000	-0.446	0.000	0.000	0.000	0.000	0.000	0.730	0.322	0.769	-0.198	0.147	-4666.640	0.000	0.000	0.000
415	0.597	0.000	0.273	0.009	0.000	0.000	63544.493	2.023	0.000	0.000	0.371	0.000	0.000	0.000	0.000	0.000	0.000	0.000	294.108
416	0.000	0.000	0.000	0.000	-0.230	0.000	0.000	0.000	0.000	0.000	0.000	0.103	0.332	-0.129	0.045	-3049.890	0.000	0.000	0.000
417	1.441	1.380	0.716	22.906	-0.332	0.000	349843.539	11.137	0.000	0.000	0.804	0.769	1.101	0.441	0.185	6269.541	43343.395	0.000	719508.579
418	1.704	0.530	0.769	3.195	0.023	0.000	343864.998	10.947	0.000	0.000	0.819	0.594	0.571	0.154	0.057	857.916	16638.791	0.000	100352.390
419	0.784	0.000	0.389	0.000	-0.013	14.833	64829.657	2.064	465935.907	0.379	0.565	0.700	0.713	0.183	0.106	965.371	0.000	11897.673	0.000
420	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
421	0.848	0.455	0.498	0.000	-0.997	0.290	650191.405	20.699	9099.050	0.000	0.473	0.681	1.679	0.086	0.283	1399.831	14286.285	0.000	0.000
422	1.196	6.088	0.628	0.000	-0.996	3.202	647195.522	20.604	100585.893	0.323	0.615	0.739	1.736	0.181	0.137	2790.892	191246.723	10145.616	0.000
423	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
424	1.666	45.867	0.741	26.403	-0.633	0.129	552855.705	17.600	4041.932	0.407	0.724	0.845	1.478	0.337	0.211	7933.756	1440749.597	12796.440	829353.405
425	1.740	32.585	0.786	59.434	0.017	0.552	162344.368	5.168	17330.268	0.703	0.792	0.871	0.854	0.355	0.198	8357.967	1023552.339	22090.650	1866923.908
426	1.548	24.629	0.714	15.984	0.037	0.000	497892.212	15.850	0.000	0.367	0.704	0.921	0.884	0.264	0.244	6208.742	773628.585	11530.722	502074.402
427	0.000	0.000	0.000	0.000	0.033	0.000	0.000	0.000	0.000	0.000	0.000	0.303	0.270	0.066	0.016	1562.158	0.000	0.000	0.000
428	1.233	12.477	0.569	12.019	-0.983	0.000	346320.069	11.025	0.000	0.000	0.593	0.846	1.830	0.166	0.283	3914.835	391928.583	0.000	377547.542
429	0.020	0.323	0.006	0.000	-0.496	0.000	4627.782	0.147	0.000	0.000	0.029	0.714	1.210	0.041	0.121	973.955	10134.137	0.000	0.000
430	1.331	28.975	0.664	9.655	-0.987	2.746	114051.535	3.631	86258.370	0.490	0.743	0.919	1.906	0.121	0.512	2856.013	910144.909	15379.500	303274.739
431	5046916.075	7.936	6092752.754	9.580	55519.006	0.087	3715003.596	5.841	29095.460	0.046	1.124	0.452	0.470	-0.756	0.999	1.755	0.050	0.462	6661.486
432	54881684.693	86.294	206215.741	0.324	0.000	0.000	6842347.255	10.759	646985.105	1.017	0.576	0.322	0.253	-0.305	0.999	1.304	0.390	0.189	52039.572
433	6296577.090	9.900	1486365.466	2.337	1215289.082	1.911	11972630.939	18.825	13424090.223	21.108	1.794	0.779	0.815	-0.277	0.999	1.276	0.375	0.231	39556.491
434	3940590.915	6.196	29234.112	0.046	1199702.494	1.886	2397254.450	3.769	9610008.813	15.110	1.284	0.585	0.645	-0.693	0.998	1.691	0.228	0.302	30039.821
435	10260244.550	16.133	1796346.345	2.825	4394039.865	6.909	15180128.450	23.869	27792712.538	43.700	1.509	0.726	0.715	-0.645	0.999	1.644	0.336	0.251	44766.328
436	47763663.403	75.102	481794.094	0.758	972608.503	1.529	5709402.105	8.977	8074068.995	12.695	0.877	0.422	0.413	-0.585	0.999	1.585	0.496	0.211	66124.343
437	16806623.839	26.426	8547370.999	13.440	538882.586	0.847	5093831.040	8.009	7404327.768	11.642	1.636	0.711	0.756	-0.704	0.996	1.700	0.495	0.260	39819.510
438	24200391.821	38.052	379501.818	0.597	71572.424	0.113	1700366.075	2.674	4501863.275	7.079	0.977	0.502	0.445	-0.150	0.927	1.077	0.387	0.204	26935.282
439	52029712.350	81.809	1287426.429	2.024	163556.430	0.257	2953221.905	4.644	2948590.721	4.636	0.749	0.341	0.319	-0.470	0.937	1.407	0.379	0.217	50628.759

440	54134072.516	85.118	1303126.098	2.049	87782.910	0.138	5370269.085	8.444	2635347.325	4.144	0.628	0.323	0.271	-0.057	0.992	1.050	0.300	0.184	30754.888
441	58978118.867	92.735	135979.245	0.214	68968.614	0.108	1591029.429	2.502	1828475.482	2.875	0.363	0.174	0.137	-0.069	0.910	0.979	0.329	0.184	18894.701
442	55246898.957	86.868	1230693.985	1.935	67662.677	0.106	2715805.797	4.270	2674058.121	4.205	0.595	0.286	0.238	-0.582	0.933	1.514	0.517	0.273	45115.673
443	16701634.774	26.261	26879210.754	42.264	100027.046	0.157	17783465.471	27.962	1514609.480	2.382	1.745	0.680	0.781	-0.415	0.998	1.412	0.467	0.202	62360.651
444	25814503.089	40.590	3821331.248	6.009	118471.591	0.186	30827218.381	48.472	2241291.808	3.524	1.405	0.676	0.711	-0.101	0.999	1.100	0.365	0.139	48686.426
445	41476146.098	65.215	1977764.947	3.110	141481.344	0.222	17379133.491	27.326	2598522.232	4.086	1.093	0.526	0.543	0.003	0.998	0.995	0.327	0.130	42300.070
446	27007265.219	42.465	5535276.999	8.703	67674.382	0.106	29760208.475	46.794	1227171.586	1.930	1.219	0.586	0.647	-0.401	0.996	1.398	0.410	0.148	54686.236
447	39718042.602	62.451	11341370.202	17.833	94792.650	0.149	8430894.651	13.256	480895.211	0.756	1.186	0.540	0.564	-0.226	0.967	1.193	0.464	0.181	61869.998
448	17018338.760	26.759	1778020.923	2.796	140179.850	0.220	14857226.453	23.361	1071363.332	1.685	1.609	0.827	0.763	-0.568	0.847	1.414	0.279	0.152	24703.920
449	5536436.879	8.705	3044112.997	4.786	42019.212	0.066	18076487.595	28.423	3492181.441	5.491	1.826	0.831	0.815	-0.612	1.000	1.612	0.325	0.252	27897.280
450	2252856.156	3.542	576845.844	0.907	105057.067	0.165	13914821.478	21.879	12078370.111	18.992	1.751	0.797	0.798	-0.995	0.997	1.992	0.252	0.280	21242.546
451	7301009.523	11.480	2497952.836	3.928	0.000	0.000	11488543.673	18.064	391504.787	0.616	1.307	0.595	0.595	-0.984	0.999	1.983	0.218	0.432	29043.063
452	4168178.099	6.554	9863.769	0.016	0.000	0.000	35968215.220	56.555	0.000	0.000	1.130	0.631	0.630	-0.158	1.000	1.158	0.260	0.158	34743.465
453	15367528.019	24.163	8927512.741	14.037	58031.871	0.091	33090721.285	52.031	1252792.524	1.970	1.597	0.768	0.765	0.002	0.999	0.997	0.315	0.126	42031.919
454	23489312.629	36.934	13095825.285	20.591	114508.272	0.180	23210316.728	36.495	2340539.710	3.680	1.439	0.692	0.720	-0.208	0.999	1.208	0.417	0.191	55658.514
455	227711.003	0.358	0.000	0.000	0.000	0.000	59426.305	0.093	0.000	0.000	0.031	0.028	0.009	-0.661	0.427	1.088	-0.232	0.243	-30962.056
456	2169527.659	3.411	30351.270	0.048	0.000	0.000	15313891.857	24.079	4089869.306	6.431	1.491	0.679	0.708	-0.440	0.916	1.356	0.203	0.123	17423.945
457	4040341.947	6.353	111652.895	0.176	64817.793	0.102	7960680.152	12.517	10328709.133	16.240	1.485	0.676	0.726	-0.570	0.998	1.569	-0.097	0.281	-12991.057
458	110437.088	0.174	377320.102	0.593	0.000	0.000	2924230.375	4.598	0.000	0.000	1.319	0.634	0.670	-0.327	0.645	0.972	0.122	0.144	6046.530
459	11224.906	0.018	0.000	0.000	0.000	0.000	110444.790	0.174	0.000	0.000	0.016	0.012	0.004	0.061	0.866	0.805	0.116	0.043	15519.084
460	281360.384	0.442	2019660.198	3.176	62000.074	0.097	4374390.914	6.878	344919.540	0.542	0.935	0.425	0.408	-0.402	0.999	1.400	0.160	0.123	12422.537
461	2028225.149	3.189	1572374.526	2.472	0.000	0.000	7247378.858	11.395	218422.352	0.343	1.390	0.604	0.631	-0.102	0.788	0.889	0.154	0.071	11409.775
462	2791659.340	4.389	101940.507	0.160	204307.389	0.321	13426384.281	21.111	12312688.358	19.360	1.195	0.575	0.630	-0.595	0.998	1.593	0.253	0.135	18579.026
463	20241.937	0.032	20241.364	0.032	34177.422	0.054	971303.800	1.527	50626.840	0.080	1.389	0.632	0.669	-0.997	0.927	1.925	0.108	0.243	4083.202
464	2286938.146	3.596	0.000	0.000	106506.236	0.167	23191823.880	36.466	7179841.478	11.289	1.246	0.695	0.649	-0.997	0.901	1.898	0.198	0.177	19365.041
465	1121171.980	1.763	176167.694	0.277	69149.945	0.109	6724890.511	10.574	1306962.461	2.055	0.795	0.362	0.381	-0.013	0.914	0.926	0.158	0.078	13367.730
466	0.000	0.000	0.000	0.000	10871.949	0.017	405044.295	0.637	0.000	0.000	0.480	0.298	0.218	-0.305	0.978	1.284	0.207	0.078	6441.602
467	14610199.782	22.973	20170796.645	31.716	124819.968	0.196	5405867.492	8.500	5980435.533	9.403	1.940	0.809	0.827	-0.422	0.999	1.421	0.264	0.245	22334.104
468	17657457.819	27.764	20881181.831	32.833	117046.599	0.184	6681815.242	10.506	1200940.364	1.888	1.844	0.769	0.806	-0.999	0.972	1.971	0.270	0.281	20599.709
469	5349114.511	8.411	2650614.726	4.168	113554.062	0.179	4711210.180	7.408	723946.382	1.138	0.855	0.356	0.367	-0.996	0.978	1.974	0.123	0.149	16360.747
470	930648.746	1.463	922073.930	1.450	39101.904	0.061	936931.014	1.473	502644.863	0.790	0.285	0.124	0.096	-0.034	0.999	1.033	0.125	0.154	12022.287
471	11882551.732	18.684	13123140.481	20.634	50446.224	0.079	7071718.960	11.119	1875404.050	2.949	1.636	0.710	0.719	-0.199	0.960	1.159	0.232	0.228	21030.662
472	3292520.933	5.177	3396401.806	5.340	66230.084	0.104	2281313.221	3.587	920840.949	1.448	0.697	0.303	0.276	-0.242	0.790	1.031	0.065	0.075	4041.427
473	22863368.688	35.949	4339240.437	6.823	72541.883	0.114	3067586.775	4.823	3646816.018	5.734	1.108	0.533	0.525	-0.980	0.948	1.927	0.113	0.469	15020.425



474	10312545.368	13.134	6836992.522	8.707	105517.251	0.134	6006760.311	7.650	40221.396	0.051	1.267	0.510	0.550	-0.730	0.997	1.727	0.082	0.432	12280.200
475	68342460.178	87.039	359478.410	0.458	22551.769	0.029	7836217.423	9.980	911741.763	1.161	0.542	0.302	0.235	-0.624	0.999	1.623	0.391	0.198	58351.356
476	7963695.918	10.142	2366848.532	3.014	1907587.539	2.429	13953922.476	17.771	19636482.370	25.009	1.793	0.779	0.811	-0.513	0.999	1.512	0.369	0.240	41817.151
477	5760080.314	7.336	152826.836	0.195	1991202.644	2.536	3758603.358	4.787	15120818.100	19.258	1.278	0.582	0.623	-0.770	1.000	1.770	0.290	0.275	40659.657
478	13508194.195	17.204	1859573.841	2.368	5616619.889	7.153	16497598.075	21.011	37669501.745	47.975	1.442	0.656	0.687	-0.538	0.999	1.537	0.337	0.231	50185.518
479	59561827.251	75.856	651713.442	0.830	1197805.824	1.525	6211902.358	7.911	10523952.246	13.403	0.842	0.405	0.399	-0.226	0.993	1.220	0.489	0.212	72879.773
480	21425019.453	27.286	9825609.778	12.514	597411.075	0.761	7110992.092	9.056	8247584.648	10.504	1.613	0.701	0.745	-0.776	1.000	1.775	0.514	0.266	45597.255
481	30620565.132	38.998	505610.652	0.644	86941.397	0.111	1894793.823	2.413	5446889.879	6.937	0.920	0.473	0.417	-0.290	0.926	1.216	0.417	0.198	32390.394
482	65576434.112	83.517	1444700.332	1.840	202716.349	0.258	3268757.728	4.163	3754174.080	4.781	0.694	0.316	0.291	-0.251	0.927	1.178	0.388	0.202	57874.044
483	65928978.896	83.966	1859932.893	2.369	109518.771	0.139	7470881.137	9.515	3092333.138	3.938	0.664	0.341	0.292	-0.419	0.899	1.317	0.343	0.199	37585.798
484	70669159.345	90.002	659207.322	0.840	102543.628	0.131	1951333.192	2.485	3480920.870	4.433	0.465	0.224	0.183	-0.057	0.921	0.978	0.340	0.202	19197.647
485	65878061.349	83.901	1563937.034	1.992	84577.673	0.108	3412770.512	4.346	4056622.305	5.166	0.646	0.294	0.262	-0.559	0.935	1.494	0.480	0.240	38942.824
486	22537479.974	28.703	30485618.170	38.826	146192.167	0.186	22716628.537	28.931	1928524.659	2.456	1.702	0.664	0.772	-0.285	0.995	1.280	0.452	0.199	67379.635
487	33859288.508	43.122	4997561.545	6.365	130764.766	0.167	36453789.692	46.427	2304349.202	2.935	1.381	0.600	0.699	-0.455	0.999	1.454	0.388	0.144	51841.348
488	48240632.810	61.438	3249057.407	4.138	154182.874	0.196	23625942.315	30.089	3208499.219	4.086	1.162	0.529	0.581	-0.239	0.981	1.221	0.331	0.134	41879.288
489	31599728.111	40.245	7992931.168	10.180	76001.503	0.097	37457226.304	47.705	1400503.702	1.784	1.253	0.570	0.658	-0.449	0.999	1.448	0.432	0.176	64465.653
490	49954703.063	63.621	13744638.983	17.505	109393.678	0.139	10682562.207	13.605	509765.536	0.649	1.147	0.498	0.548	-0.012	0.993	1.005	0.437	0.173	65210.253
491	22535714.618	28.701	2305164.682	2.936	159745.788	0.203	17796677.169	22.665	1228945.050	1.565	1.597	0.821	0.754	-0.530	0.903	1.433	0.301	0.153	29105.767
492	8137173.120	10.363	3683799.665	4.692	83666.629	0.107	20905425.318	26.625	5800072.866	7.387	1.856	0.845	0.825	-0.415	1.000	1.414	0.362	0.250	34152.336
493	2783125.102	3.545	931740.907	1.187	131290.212	0.167	17794485.610	22.663	14600508.122	18.595	1.768	0.805	0.798	-0.997	0.995	1.993	0.253	0.282	21265.343
494	13134892.447	16.728	3074765.911	3.916	18655.229	0.024	16277768.560	20.731	2000851.285	2.548	1.473	0.670	0.677	-0.991	0.998	1.989	0.279	0.386	41699.979
495	8184209.055	10.423	21088.058	0.027	0.000	0.000	43480825.325	55.376	0.000	0.000	1.178	0.657	0.647	-0.400	1.000	1.399	0.292	0.168	43499.336
496	19117687.392	24.348	11125631.598	14.169	67623.656	0.086	41158097.833	52.418	1625014.745	2.070	1.591	0.765	0.765	0.036	0.999	0.964	0.327	0.131	48810.821
497	29390723.983	37.431	14099638.914	17.957	126682.482	0.161	29749291.801	37.888	2972643.303	3.786	1.443	0.694	0.717	-0.016	0.999	1.015	0.371	0.176	55348.939
498	277238.735	0.353	0.000	0.000	0.000	0.000	108953.917	0.139	0.000	0.000	0.034	0.031	0.010	-0.598	0.746	1.343	-0.183	0.228	-27233.987
499	2524165.018	3.215	60006.359	0.076	0.000	0.000	18709636.481	23.828	5255675.867	6.693	1.514	0.689	0.717	-0.620	0.946	1.566	0.213	0.117	14899.161
500	5382291.048	6.855	446183.226	0.568	79677.023	0.101	10068154.468	12.823	12373714.032	15.759	1.509	0.687	0.730	-0.546	0.780	1.326	-0.109	0.279	-16259.405
501	130453.215	0.166	440983.431	0.562	0.000	0.000	3582079.032	4.562	5737.869	0.007	1.277	0.581	0.649	-0.532	0.631	1.162	0.108	0.148	6052.687
502	20078.023	0.026	0.000	0.000	0.000	0.000	110444.790	0.141	0.000	0.000	0.014	0.010	0.003	0.055	0.788	0.734	0.113	0.035	16901.372
503	394642.627	0.503	2561393.589	3.262	76942.364	0.098	5577560.999	7.103	604839.874	0.770	0.955	0.415	0.417	-0.328	0.999	1.327	0.155	0.112	13369.847
504	2985773.970	3.803	1682082.999	2.142	0.000	0.000	8760411.154	11.157	273499.743	0.348	1.367	0.594	0.616	-0.070	0.769	0.839	0.155	0.071	13298.657
505	3535043.515	4.502	151501.278	0.193	234757.122	0.299	18190414.267	23.167	14464987.812	18.422	1.288	0.586	0.647	-0.988	0.997	1.986	0.255	0.146	22196.346
506	35871.261	0.046	20241.364	0.026	67608.528	0.086	1925593.366	2.452	101687.364	0.130	1.274	0.580	0.603	-0.996	0.997	1.993	0.155	0.184	8096.853
507	2984280.744	3.801	10111.325	0.013	136295.887	0.174	29872167.486	38.044	8742991.232	11.135	1.241	0.638	0.642	-0.997	0.850	1.847	0.187	0.163	20940.196

508	1406296.346	1.791	315517.673	0.402	77274.773	0.098	8437836.049	10.746	1559883.018	1.987	0.803	0.366	0.385	0.005	0.922	0.917	0.160	0.078	15076.466
509	31668.345	0.040	0.000	0.000	21209.638	0.027	930146.220	1.185	12828.962	0.016	0.561	0.288	0.262	- 0.232	0.991	1.223	0.203	0.080	7664.623
510	16951885.767	21.590	24645986.093	31.389	154647.001	0.197	6570778.874	8.368	7426537.290	9.458	1.926	0.803	0.823	- 0.995	0.998	1.993	0.241	0.238	22356.339
511	20106470.722	25.607	23922083.242	30.467	130123.360	0.166	8413059.126	10.715	2185009.252	2.783	1.840	0.767	0.801	- 0.986	0.955	1.942	0.249	0.234	20825.402
512	6284806.793	8.004	2781329.205	3.542	129709.980	0.165	5778577.363	7.359	741061.686	0.944	0.802	0.334	0.344	- 0.372	0.919	1.291	0.132	0.138	19607.894
513	1448314.179	1.845	1767174.135	2.251	47898.367	0.061	1445278.497	1.841	728306.740	0.928	0.368	0.160	0.129	- 0.355	0.982	1.337	0.120	0.158	11839.984
514	13668591.995	17.408	15138285.020	19.280	62915.513	0.080	8128491.477	10.352	2195118.327	2.796	1.575	0.684	0.693	- 0.199	0.928	1.127	0.204	0.217	19222.146
515	4242561.491	5.403	4053233.554	5.162	74577.749	0.095	2961148.090	3.771	1093076.758	1.392	0.702	0.305	0.279	- 0.109	0.359	0.467	0.056	0.014	3629.092
516	28625229.039	36.456	4944749.774	6.298	83874.396	0.107	3583031.886	4.563	4597276.090	5.855	1.088	0.523	0.516	- 0.976	0.947	1.924	0.123	0.471	17318.646