

Supplementary data and methods:

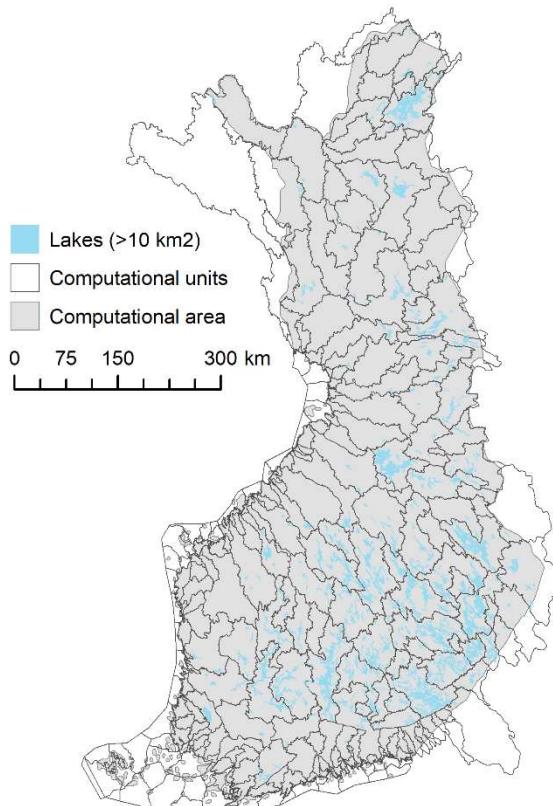
# Improving the agricultural erosion management in Finland through high-resolution data

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## 1. Data and methods



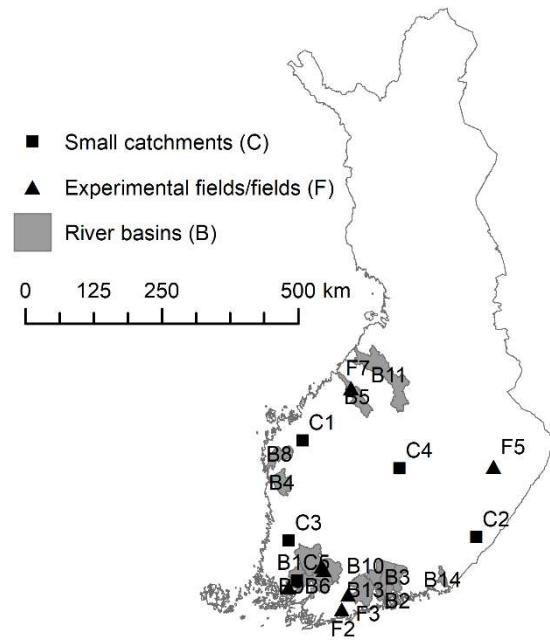
*Figure S1. The area and units for computation of two-meter resolution erosion susceptibility with RUSLE. The units (301 pcs.) are based on boundaries of river basins and sub-basin groups (Finnish Environment Institute, 2010), and in off-shore areas on island groups.*

*Table S1.* The surface soil classes in the Finnish Soil Database (Lilja and Nevalainen, 2006) and respective K factor values (Lilja et al., 2017a, 2017b).

WRB 2014 class	Surface soil characteristics	K-value [t ha h ha <sup>-1</sup> MJ <sup>-1</sup> mm <sup>-1</sup> ]
Nudilithic Leptosols	Exposed bedrock	0.008
Dystric Leptosols	Bedrock with maximum soil cover 1 m (commonly moraine)	0.008
Hyperskeletal Leptosols	Rocks	0.008
Histic Leptosols	Peat (depth < 0.3 m)	0.008
Endogleyic Podzols	Mixed soil (moraine with gravel, sand, or fine sand)	0.025
Histic Podzols	Peat (depth > 0.3 m)	0.008
Arenic Podzols	Coarse textured soil (gravel)	0.020
Histic Podzols (Arenic)	Peat (depth < 0.3 m)	0.008
Stagnic Regosols	Fine textured soil (silt, loam)	0.057
Histic Gleysols (Loamic/Siltic)	Peat (depth < 0.3 m)	0.008
Vertic Luvic Stagnosols	Clay	0.040
Histic Gleysols (Clayic)	Peat (depth < 0.3 m)	0.008
Dystric Histosols	Peat (depth > 0.6 m)	0.008
Sapric Histosols	Peat (depth 0.3-0.6 m)	0.008
Umbric Gleysols	Muddy soil (humus content > 2%)	0.040
Histic Gleysols (Hyperhumic)	Muddy soil (humus content > 2%) or peat (depth < 0.3 m)	0.008

*Table S2.* Total suspended solid (TSS) measurement data from small catchments and river basins (Finnish Environment Institute, 2019) used for testing RUSLE.

Catchment/River basin	Area [km <sup>2</sup> ]	Agricultural land [%]	Data period [years]	Measured average TSS load [kg ha <sup>-1</sup> yr <sup>-1</sup> ]
Small catchments				
Haapajyrä (C1)	6,09	57	28	104
Latosuonoja (C2)	5,32	17	25	52
Löytäneenoja (C3)	6,24	63	26	101
Ruunapuro (C4)	5,39	21	27	104
Savijoki (C5)	15,21	39	28	338
River basins				
Aurajoki (B1)	874	36	27	364
Ilolanjoki (B2)	309	25	20	129
Koskenkylänjoki (B3)	895	30	16	198
Lapväärtinjoki (B4)	1 098	13	28	66
Lestijoki (B5)	1 373	11	23	53
Loimijoki (B6)	3 095	36	9	217
Mustijoki (B7)	783	30	23	225
Närpiönjoki (B8)	992	21	23	61
Paimionjoki (B9)	1 088	42	28	427
Porvoonjoki (B10)	1 273	27	23	220
Pyhäjoki (B11)	3 712	11	29	49
Uskelanjoki (B12)	566	43	20	547
Vantaanjoki (B13)	1 686	23	29	215
Virojoki (B14)	357	13	16	76



*Figure S2. The locations of the experimental fields (F), small catchments (C) and river basins (B) with measured erosion loads ( $\text{kg ha}^{-1} \text{yr}^{-1}$ ) used for calibration and testing of the RUSLE.*

*Table S3. The parameterisation of the field parcel data of 2019 from Finnish Food Authority used in the estimation of actual erosion risk.*

Crop and plant groups	Number of crops and plants	$C_{crop}$	$C_{winter\ cover}$	$C_{tillage}$	Source/description
Spring cereals	12	0.211	0.341	0.768	This study
Winter cereals	6	0.149	-	-	This study, $C_{crop}$ 0.211 and winter-time sprout $C_{cover}$ 0.706
Grass and hey	20	0.211	0.256	-	This study, $C_{crop}$ of cereals used for autumn plough condition
Permanent grass and hey	6	0.054	-	-	This study
Dried pulses (legumes) and protein crops	9	0.320	0.341	0.768	$C_{crop}$ Panagos et al. (2015); $C_{cover}$ , $C_{tillage}$ this study
Rape and turnip rape	2	0.300	0.341	0.768	$C_{crop}$ Panagos et al. (2015); $C_{cover}$ , $C_{tillage}$ this study
Winter rape and turnip rape	2	0.212	-	-	$C_{crop}$ 0.3 from Panagos et al. (2015); winter-time sprout $C_{cover}$ 0.706 this study
Other oilseeds	1	0.280	0.341	0.768	$C_{crop}$ Panagos et al. (2015); $C_{cover}$ , $C_{tillage}$ this study
Root vegetables	15	0.340	0.341	0.768	$C_{crop}$ of potatoes and sugarbeet in Panagos et al. (2015); $C_{cover}$ , $C_{tillage}$ this study
Garden vegetables	32	0.340	0.341	0.768	$C_{crop}$ of potatoes and sugarbeet in Panagos et al. (2015); $C_{cover}$ , $C_{tillage}$ this study
Sunflower	1	0.320	0.341	0.768	$C_{crop}$ Panagos et al. (2015); $C_{cover}$ , $C_{tillage}$ this study
Maize	2	0.380	0.341	0.768	$C_{crop}$ Panagos et al. (2015); $C_{cover}$ , $C_{tillage}$ this study
Soybean	1	0.280	0.341	0.768	$C_{crop}$ Panagos et al. (2015); $C_{cover}$ , $C_{tillage}$ this study
Linseed	3	0.250	0.341	0.768	$C_{crop}$ Panagos et al. (2015); $C_{cover}$ , $C_{tillage}$ this study
Mixed crops (include mainly mixes of cereals, dried pulses, oil seeds and grass and hey types)	12	0.211-0.320	0.256, 0.341	0.768	$C_{crop}$ average of different $C_{crops}$ defined in this study and in Panagos et al. (2015); $C_{cover}$ , $C_{tillage}$ this study
Regenerative crops	3	0.211-0.280	0.341	0.768	$C_{crop}$ average of different $C_{crops}$ defined in this study and from Panagos et al. (2015); $C_{cover}$ , $C_{tillage}$ this study
Fallow, bare soil	1	0.500	0.706	1	$C_{crop}$ Panagos et al. (2015); $C_{cover}$ this study
Fallow, stubble cover	1	0.211	0.341	1	This study, $C_{crop}$ of cereals used
Fallow, with vegetation (grass type)	2	0.211	0.256	1	This study, $C_{crop}$ of cereals used
Berry plants and bushes	15	0.219	0.341	1	$C_{crop}$ Panagos et al. (2015); $C_{cover}$ this study
Fruit and berry trees	6	0.054	1	1	This study, $C_{crop}$ of grass used
Pastures	13	0.112	1	1	This study
Forest	2	0.001	1	1	$C_{crop}$ Panagos et al. (2015)
Herbs and spices	6	0.340	0.341	0.768	$C_{crop}$ of potatoes and sugarbeet in Panagos et al. (2015); $C_{cover}$ , $C_{tillage}$ this study
Other annual crops	14	0.211	0.341	0.768	This study, $C_{crop}$ of cereals used
Other	22	0.054	1	1	This study, $C_{crop}$ of grass used

## 2. Results

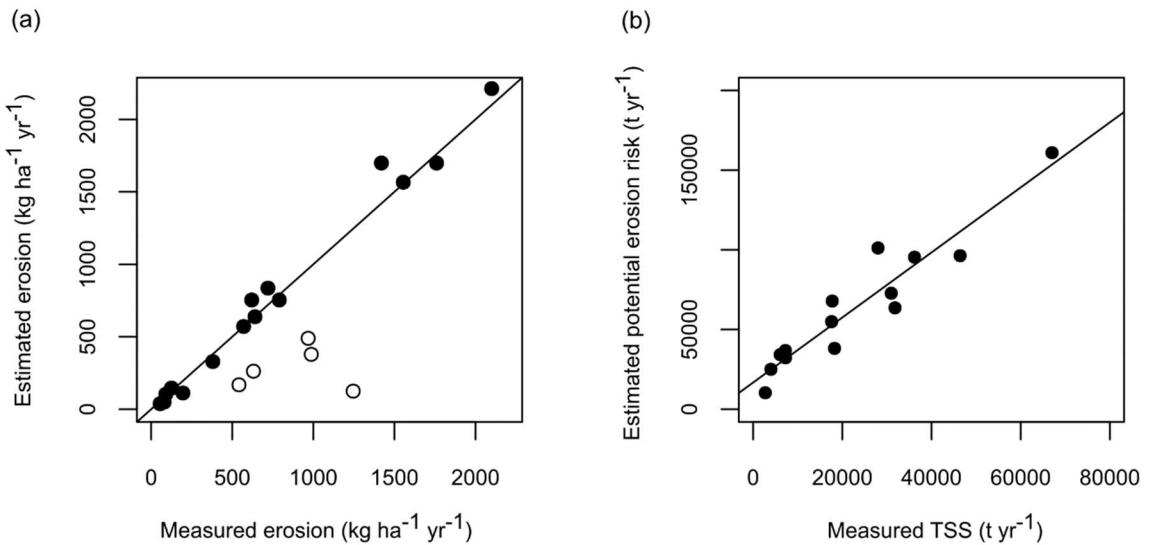


Figure S3. RUSLE performance at a) seven experimental fields and b) 14 river basins. In tile A, the two fields with model underestimations are shown with empty circles (Kotkanaja and Nummela) and a diagonal line is shown. In tile B, linear regression fit is shown.

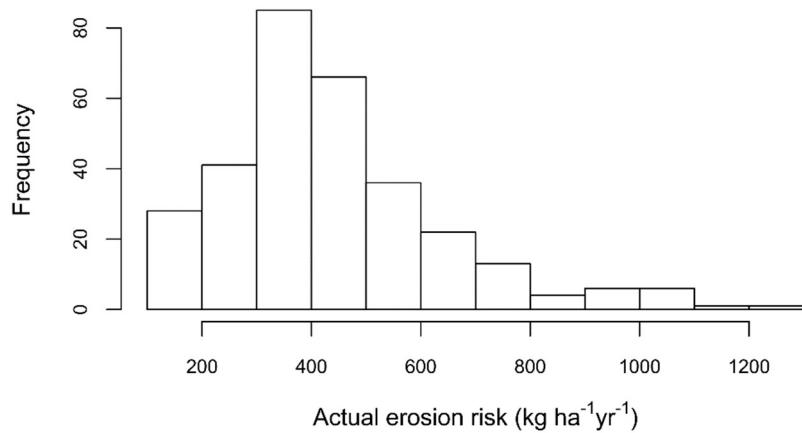


Figure S4. Frequency distribution of actual erosion risk ( $\text{kg ha}^{-1} \text{yr}^{-1}$ ) on municipal level.

Table S4. Estimated actual erosion risk ( $\text{kg ha}^{-1} \text{yr}^{-1}$ ), actual total erosion risk ( $\text{t yr}^{-1}$ ), c) field area to land area (%), and d) Erosion Management Index (EMI) of municipalities. Higher EMI values indicate better erosion management.

Municipality	Field area	Field area to land area	Actual erosion risk	Standard deviation of actual erosion risk	Actual total erosion risk	Max. erosion (fallow land, no sub-surface drainage)	Min. erosion (perennial grass, sub-surface drainage)	EMI
	[ $\text{km}^2$ ]	[%]	[ $\text{kg ha}^{-1} \text{yr}^{-1}$ ]	[ $\text{kg ha}^{-1} \text{yr}^{-1}$ ]	[ $\text{t yr}^{-1}$ ]	[ $\text{kg ha}^{-1} \text{yr}^{-1}$ ]	[ $\text{kg ha}^{-1} \text{yr}^{-1}$ ]	[ $\cdot$ ]
Akka	82.1	28.0	371	422	3048	2159	138	0.89
Alajärvi	137.3	13.6	405	570	5566	2106	135	0.86
Alavieska	57.1	22.7	136	158	775	803	51	0.89
Alavus	160.4	14.8	556	782	8913	2781	178	0.86
Asikkala	83.9	14.9	679	789	5702	3726	238	0.87
Askola	72.6	34.2	639	757	4639	3785	242	0.89
Aura	44.8	47.2	307	382	1376	1737	111	0.88
Brändö	2.1	2.0	489	433	105	1691	108	0.76
Eckerö	4.8	4.5	615	629	297	1520	97	0.64
Enonkoski	14.9	4.9	552	629	820	2618	168	0.84
Enontekiö	2.3	0.0	342	341	79	953	61	0.69
Espoo	19.5	6.2	674	864	1315	3225	206	0.85
Eura	143.9	24.9	328	280	4726	1507	96	0.84
Eurajoki	91.7	17.8	321	275	2947	1504	96	0.84
Evijärvi	57.0	16.1	268	358	1525	1283	82	0.85
Fiström	24.8	20.1	655	606	1626	2324	149	0.77
Forssa	69.6	28.0	214	253	1488	1246	80	0.89
Föglö	12.2	9.0	581	337	707	2056	132	0.77
Geta	6.8	8.0	604	597	409	2033	130	0.76
Haapajarvi	90.6	11.8	197	276	1789	1032	66	0.87
Haapavesi	136.0	13.0	150	185	2040	836	54	0.88
Hailuoto	22.7	11.0	102	103	232	1451	93	0.99
Halsua	32.6	7.9	191	229	624	1071	69	0.88
Hamina	75.6	12.4	557	581	4212	2494	160	0.83
Hammarland	20.6	14.9	526	382	1085	1602	103	0.72
Hankasalmi	65.5	11.5	451	562	2953	2008	129	0.83
Hanko	2.4	2.1	166	206	40	1327	85	0.94
Harjavalta	26.6	21.5	336	280	893	1453	93	0.82
Hartola	46.9	8.7	274	357	1285	1796	115	0.91
Hattula	59.5	16.6	354	386	2102	1892	121	0.87
Hausjärvi	138.5	35.6	396	408	5480	2089	134	0.87
Heinola	24.4	3.6	337	488	824	2108	135	0.90
Heinävesi	15.5	1.5	646	842	999	2397	153	0.78
Helsinki	8.7	4.0	453	378	393	1981	127	0.82
Hirvensalmi	20.7	4.5	545	696	1129	2696	173	0.85
Hollola	158.8	24.4	726	858	11525	4204	269	0.88
Huittinen	189.0	35.5	321	271	6063	1428	91	0.83
Humppila	60.3	40.8	290	295	1751	1591	102	0.87
Hyrynsalmi	13.4	0.9	398	589	533	1224	78	0.72
Hyvinkää	57.3	17.7	353	436	2023	1943	124	0.88
Hämeenkyrö	95.9	20.7	1054	1202	10104	6167	395	0.89
Hämeenlinna	255.0	14.3	474	534	12087	2265	145	0.85
Ii	27.7	1.7	138	114	382	471	30	0.76
Iisalmi	127.2	16.7	458	548	5824	2202	141	0.85
Iitti	131.6	22.3	349	571	4596	2001	128	0.88
Ikaalinen	96.6	12.9	1288	1491	12442	7429	475	0.88
Ilmajoki	182.6	31.7	392	478	7161	1738	111	0.83
Ilomantsi	28.8	1.0	567	769	1631	2690	172	0.84
Imatra	20.0	12.9	572	630	1145	2696	173	0.84
Inari	4.4	0.0	312	240	137	807	52	0.66
Inkoo	70.5	20.1	459	518	3239	2724	174	0.89

Isojoki	60.5	9.4	596	767	3606	2732	175	0.84
Isokyrö	114.7	32.4	345	258	3953	1397	89	0.81
Janakkala	131.9	24.1	444	491	5851	2403	154	0.87
Joensuu	88.1	3.7	329	606	2899	1611	103	0.85
Jokioinen	76.9	42.6	354	457	2722	2092	134	0.89
Jomala	31.7	22.2	594	413	1882	1929	123	0.74
Joroinen	70.4	12.2	330	416	2326	1614	103	0.85
Joutsa	45.5	5.2	390	544	1776	2023	129	0.86
Juuka	48.1	3.2	422	509	2034	2068	132	0.85
Juupajoki	29.7	11.5	1061	1335	3149	6225	398	0.89
Juva	89.1	7.7	552	674	4920	2577	165	0.84
Jyväskylä	73.0	6.2	1127	1221	8235	5384	345	0.85
Jämijärvi	66.0	30.8	838	960	5535	4701	301	0.88
Jämsä	97.3	6.2	1009	1127	9819	5224	334	0.86
Järvenpää	9.2	24.5	377	430	347	1947	125	0.86
Kaarina	37.4	24.8	589	924	2203	2987	191	0.86
Kaavi	22.6	3.4	589	748	1330	2825	181	0.85
Kajaani	47.5	2.6	295	447	1400	1300	83	0.83
Kalajoki	163.6	17.7	158	181	2581	697	45	0.83
Kangasala	95.9	14.6	609	618	5842	3297	211	0.87
Kangasniemi	46.4	4.3	539	757	2503	2467	158	0.84
Kankaanpää	157.6	15.4	564	814	8882	2794	179	0.85
Kannonkoski	19.9	4.5	435	452	864	1924	123	0.83
Kannus	67.8	14.5	197	271	1339	1160	74	0.89
Karjokki	40.2	21.7	716	752	2878	2729	175	0.79
Karkkila	39.4	16.3	570	806	2247	3230	207	0.88
Karstula	56.8	6.4	420	578	2387	2221	142	0.87
Karvia	85.3	17.0	381	497	3250	2092	134	0.87
Kaskinen	0.5	5.0	456	425	24	1784	114	0.60
Kauhajoki	227.6	17.5	447	639	10183	2382	152	0.87
Kauhava	377.4	28.7	385	366	14533	1566	100	0.81
Kauniainen	1.2	21.0	562	731	69	3818	244	0.91
Kaustinen	65.4	18.5	278	349	1819	1288	82	0.84
Keitele	28.3	5.9	328	389	928	1675	107	0.86
Kemi	0.4	0.5	297	322	13	1950	125	0.92
Kemijärvi	18.1	0.5	290	342	526	1189	76	0.81
Keminmaa	16.8	2.7	176	247	295	912	58	0.86
Kemiönsaari	100.5	14.6	421	492	4225	2459	157	0.89
Kempele	21.0	19.0	218	210	457	1066	68	0.85
Kerava	5.0	16.4	444	542	224	2882	184	0.90
Keuruu	45.8	3.6	825	1012	3775	3840	246	0.84
Kihniö	27.9	7.8	440	500	1226	2198	141	0.86
Kinnula	27.2	5.9	423	500	1151	2080	133	0.85
Kirkkonummi	49.8	13.6	484	568	2408	2708	173	0.88
Kitee	104.2	8.3	329	398	3426	1534	98	0.84
Kittilä	17.4	0.2	263	316	457	875	56	0.75
Kiuruvesi	226.6	17.1	299	358	6772	1564	100	0.87
Kivijärvi	12.4	2.6	438	511	542	2078	133	0.84
Kokemäki	109.0	22.7	374	328	4074	1598	102	0.82
Kokkola	193.7	13.4	179	218	3463	983	63	0.87
Kolari	9.2	0.4	346	471	318	948	61	0.68
Konnevesi	27.5	5.4	462	529	1270	2154	138	0.84
Kontiolahti	29.7	3.7	312	453	928	1654	106	0.87
Korsnäs	18.8	7.9	316	256	593	1367	88	0.82
Koski TI	91.2	47.6	276	388	2516	1667	107	0.89
Kotka	25.6	9.4	355	320	910	1594	102	0.83
Kouvolan	466.6	18.2	302	386	14088	1656	106	0.87
Kristiinankaupunki	97.2	14.2	543	495	5282	1968	126	0.77
Kruunupyy	107.9	15.1	235	317	2532	1258	81	0.87
Kuhmo	43.6	0.9	437	469	1906	1384	89	0.73
Kuhmoinen	21.1	3.2	632	724	1333	3745	240	0.89

Kumlinge	4.0	4.0	761	350	305	2211	142	0.71
Kuopio	346.9	10.7	579	682	20093	2811	180	0.85
Kuortane	80.3	17.4	477	639	3830	2648	169	0.88
Kurikka	377.2	21.9	447	532	16856	2070	133	0.84
Kustavi	12.8	7.7	366	347	470	1843	118	0.86
Kuusamo	55.8	1.1	360	496	2008	1086	70	0.72
Kyyjärvi	28.5	6.3	333	371	948	1810	116	0.87
Kärkölä	80.4	31.3	444	514	3568	2424	155	0.87
Kärsämäki	79.4	11.4	194	230	1542	947	61	0.85
Kökar	5.9	9.3	638	499	379	2429	155	0.79
Lahti	74.3	16.2	383	507	2847	2108	135	0.88
Laihia	107.3	21.2	334	244	3589	1372	88	0.81
Laitila	120.4	22.6	471	527	5665	1744	112	0.78
Lapinjärvi	107.4	32.6	303	335	3252	1803	115	0.89
Lapinlahti	149.9	13.7	491	584	7356	2343	150	0.85
Lappajärvi	65.1	15.5	323	392	2103	1701	109	0.87
Lappeenranta	210.7	14.7	515	638	10844	2484	159	0.85
Lapua	212.5	28.8	387	401	8219	1637	105	0.82
Laukaa	82.3	12.7	725	818	5966	3481	223	0.85
Lemi	29.3	13.4	466	563	1363	2174	139	0.84
Lemland	9.6	8.5	575	403	553	1767	113	0.73
Lempäälä	39.9	14.8	496	467	1982	2944	188	0.89
Lepävirta	56.1	4.9	577	775	3234	2258	144	0.80
Lestijärvi	18.8	3.9	232	288	437	1345	86	0.89
Lieksta	74.9	2.2	445	543	3330	2135	137	0.85
Lieto	124.5	41.4	430	672	5353	2494	160	0.88
Liminka	87.6	13.7	202	198	1773	960	61	0.84
Liperi	121.6	16.7	266	318	3237	1410	90	0.87
Lohja	186.5	19.8	907	1079	16909	4995	320	0.88
Loimaa	430.8	50.8	234	252	10091	1270	81	0.87
Loppi	72.1	12.1	507	555	3655	2355	151	0.84
Loviisa	147.9	18.0	344	375	5081	1799	115	0.86
Luhanka	11.3	5.3	773	930	877	3927	251	0.86
Lumijoki	65.6	30.6	147	158	964	636	41	0.82
Lumparland	4.1	11.2	485	489	197	1478	95	0.72
Luoto	9.9	7.0	226	226	225	1440	92	0.90
Luumäki	61.4	8.2	382	473	2346	1973	126	0.86
Maalahti	76.4	14.6	349	282	2668	1354	87	0.79
Maanhamina	5.2	44.4	676	495	354	2162	138	0.75
Marttila	80.6	41.3	283	436	2285	1650	106	0.89
Masku	53.4	30.5	363	359	1935	1884	121	0.86
Merijärvi	32.4	14.1	153	316	497	821	53	0.87
Merikarvia	31.9	7.2	328	362	1048	1579	101	0.85
Miehikkälä	51.4	12.2	449	521	2311	2239	143	0.85
Mikkeli	145.0	5.7	493	639	7155	2302	147	0.84
Muhos	75.1	9.6	210	280	1576	918	59	0.83
Multia	16.8	2.3	1068	1208	1797	3894	249	0.78
Muonio	3.9	0.2	292	275	114	892	57	0.72
Mustasaari	141.9	16.7	356	314	5054	1680	108	0.84
Muurame	8.5	5.9	1054	1501	897	4556	292	0.82
Mynämäki	121.9	23.5	339	305	4128	1453	93	0.82
Myrskylä	56.5	28.2	595	773	3364	3470	222	0.89
Mäntsälä	151.7	26.1	345	407	5230	1978	127	0.88
Mänttä-Vilppula	38.1	7.1	674	818	2567	3184	204	0.84
Mäntyharju	37.8	3.9	398	457	1503	2076	133	0.86
Naantali	13.5	4.3	325	377	438	1821	117	0.87
Nakkila	63.8	34.9	383	289	2442	1556	100	0.81
Nivala	181.6	34.5	160	184	2905	806	52	0.86
Nokia	41.1	14.3	924	1138	3798	5008	320	0.87
Nousiainen	62.5	31.4	389	381	2435	1918	123	0.85
Nurmes	120.8	5.0	626	687	7564	3035	194	0.85

Nurmijärvi	115.6	31.9	427	543	4941	2574	165	0.89
Närsjö	194.8	19.9	350	304	6814	1697	109	0.85
Orimattila	263.8	33.6	420	490	11072	2441	156	0.89
Oripää	48.5	41.2	248	189	1201	1173	75	0.84
Orivesi	90.1	11.3	1088	1226	9808	6165	395	0.88
Oulainen	65.0	11.0	220	235	1431	1004	64	0.83
Oulu	100.7	3.4	163	197	1645	698	45	0.82
Outokumpu	36.9	8.3	296	389	1092	1572	101	0.87
Padasjoki	25.4	4.9	590	808	1498	3199	205	0.87
Paimio	81.2	34.0	649	1206	5269	3737	239	0.88
Paltamo	22.8	2.5	378	452	862	1671	107	0.83
Parainen	81.0	9.2	421	585	3408	2547	163	0.89
Parikkala	104.6	17.7	316	398	3302	1667	107	0.87
Parkano	52.5	6.2	916	1135	4805	4093	262	0.83
Pedersören kunta	145.0	18.3	236	263	3417	1336	85	0.88
Pelkosenniemi	5.8	0.3	311	321	180	1010	65	0.74
Pello	13.0	0.7	417	579	541	1428	91	0.76
Perho	57.8	7.7	267	368	1545	1400	90	0.87
Pertunmaa	23.2	6.2	481	546	1118	2423	155	0.86
Petäjävesi	24.7	5.4	823	981	2035	3746	240	0.84
Pieksämäki	77.2	4.9	482	599	3721	2159	138	0.83
Pielavesi	85.1	7.4	347	378	2953	1666	107	0.85
Pietarsaari	4.5	5.1	148	154	67	879	56	0.89
Pihtipudas	74.0	6.9	371	415	2747	1761	113	0.84
Pirkkala	9.8	12.0	695	971	680	3667	235	0.87
Polvijärvi	86.0	10.7	290	321	2499	1388	89	0.85
Pomarkku	25.3	8.4	446	472	1129	1838	118	0.81
Pori	169.1	14.6	422	500	7131	2019	129	0.85
Pornainen	43.6	29.7	501	710	2183	3049	195	0.89
Porvoo	130.5	19.9	522	619	6807	2905	186	0.88
Posio	35.3	1.2	399	386	1409	1056	68	0.67
Pudasjärvi	42.2	0.7	239	322	1008	759	49	0.73
Pukkila	57.9	39.9	409	538	2368	2501	160	0.89
Punkalaidun	127.4	35.3	320	370	4075	1862	119	0.89
Puolanka	26.7	1.1	501	605	1338	1534	98	0.72
Puumala	20.9	2.6	719	878	1504	2717	174	0.79
Pyhtää	44.3	13.6	287	254	1269	1292	83	0.83
Pyhäjoki	50.9	9.4	139	135	707	681	44	0.85
Pyhäjärvi	72.3	5.5	221	251	1598	1004	64	0.83
Pyhäntä	27.0	3.3	307	386	828	1390	89	0.83
Pyhärinta	21.5	15.0	412	439	885	1630	104	0.80
Pälkäne	69.3	12.4	583	705	4040	2812	180	0.85
Pöytyä	198.8	26.5	312	401	6204	1760	113	0.88
Raahe	97.9	9.6	181	221	1770	784	50	0.82
Raasepori	168.1	14.6	778	927	13070	4191	268	0.87
Raisio	8.2	16.8	459	481	376	2297	147	0.86
Rantasalmi	72.8	13.0	398	510	2897	1962	126	0.85
Ranua	42.2	1.2	160	175	674	623	40	0.80
Rautavaara	73.1	14.7	363	340	2652	1749	112	0.85
Rautalampi	45.5	8.4	253	337	1152	1378	88	0.87
Rautavaara	19.0	1.7	390	405	743	1936	124	0.85
Rautjärvi	22.9	6.5	724	892	1657	3364	215	0.84
Reisjärvi	72.7	15.3	257	334	1867	1630	104	0.90
Riihimäki	27.6	22.8	464	515	1280	2136	137	0.84
Ristijärvi	14.7	1.8	422	487	620	1690	108	0.80
Rovaniemi	50.2	0.7	354	411	1779	1240	79	0.76
Ruokolahti	25.6	2.7	527	652	1349	2283	146	0.82
Ruovesi	59.9	7.7	998	1172	5975	5641	361	0.88
Rusko	42.7	33.6	272	337	1163	1540	99	0.88
Rääkkylä	46.9	11.0	192	276	900	999	64	0.86
Saarijärvi	88.0	7.0	858	1004	7548	4463	286	0.86

Salla	20.0	0.3	309	462	616	1212	78	0.80
Salo	542.5	27.3	610	889	33088	3522	225	0.88
Saltvik	21.9	14.4	649	510	1422	2160	138	0.75
Sastamala	278.7	19.5	644	852	17962	3485	223	0.87
Sauvo	78.9	31.2	431	544	3401	2391	153	0.88
Savitaipale	42.8	7.9	468	571	2004	2041	131	0.82
Savonlinna	107.3	4.8	382	495	4098	1660	106	0.82
Savukoski	9.0	0.1	331	277	297	1255	80	0.79
Seinäjoki	308.4	21.5	375	346	11566	1519	97	0.81
Sievi	102.0	13.0	165	195	1682	981	63	0.89
Siikainen	37.8	8.2	424	468	1602	1974	126	0.84
Siikajoki	198.6	18.8	140	160	2789	644	41	0.84
Siikalatva	189.9	8.7	259	343	4915	1148	73	0.83
Siilinjärvi	71.9	17.9	569	690	4094	2841	182	0.86
Simo	23.3	1.6	177	595	413	725	46	0.81
Sipo	65.3	19.2	671	868	4384	3841	246	0.88
Siuntio	67.1	27.8	623	733	4182	3492	224	0.88
Sodankylä	30.5	0.3	369	368	1125	1072	69	0.70
Soimi	31.0	5.6	419	538	1297	2266	145	0.87
Somero	265.2	39.7	365	643	9685	2314	148	0.90
Sonkajärvi	86.0	5.9	434	515	3736	2094	134	0.85
Sotkamo	78.6	3.0	352	406	2763	1746	112	0.85
Sottunga	1.9	6.9	573	378	111	1840	118	0.73
Sulkava	32.7	5.6	496	572	1621	2441	156	0.85
Sund	17.5	16.2	687	672	1201	2295	147	0.75
Suomussalmi	29.9	0.6	471	478	1410	1573	101	0.75
Suonenjoki	42.2	5.9	487	626	2056	1963	126	0.80
Sysmä	86.4	13.0	339	397	2923	2307	148	0.91
Säkylä	98.0	24.1	394	390	3858	1372	88	0.76
Taipalsaari	24.1	7.0	395	425	952	1619	104	0.81
Taivalkoski	16.8	0.7	493	525	828	1412	90	0.70
Taivassalo	34.4	24.5	301	269	1033	1740	111	0.89
Tammela	84.7	13.2	280	387	2375	1477	95	0.87
Tampere	40.7	7.8	910	1040	3703	5044	323	0.88
Tervo	17.9	5.1	329	422	588	1678	107	0.86
Tervola	53.6	3.4	198	252	1062	1093	70	0.88
Teuva	109.1	19.7	412	480	4496	2029	130	0.85
Tohmajärvi	91.1	10.9	332	459	3023	1669	107	0.86
Toholampi	86.1	14.1	431	721	3706	2951	189	0.91
Toivakka	17.4	4.8	745	1047	1298	2975	190	0.80
Tornio	77.0	6.5	240	288	1850	1194	76	0.85
Turku	48.2	19.6	382	503	1840	2188	140	0.88
Tuusniemi	34.2	6.3	575	619	1965	2532	162	0.83
Tuusula	59.0	26.9	440	582	2594	2349	150	0.87
Tyrnävä	127.2	25.9	205	212	2612	934	60	0.83
Ulvila	62.3	15.6	388	375	2415	1798	115	0.84
Urjala	114.0	24.0	257	285	2926	1440	92	0.88
Utajärvi	46.9	2.8	155	168	728	649	42	0.81
Utsjoki	2.3	0.0	430	527	98	1247	80	0.70
Uurainen	24.9	7.2	672	712	1674	3328	213	0.85
Uusikaarlepyy	137.4	18.7	309	409	4244	1322	85	0.82
Uusikaupunki	78.9	15.7	401	412	3162	1711	110	0.82
Vaala	69.9	5.4	147	211	1032	693	44	0.84
Vaasa	93.1	25.5	428	289	3990	1452	93	0.75
Valkeakoski	63.9	23.5	402	403	2570	2367	151	0.89
Vantaa	33.8	14.2	787	813	2663	3163	202	0.80
Varkaus	12.1	3.1	429	496	519	1946	125	0.83
Vehmaa	56.0	29.6	311	326	1739	1619	104	0.86
Vesanto	35.6	8.4	412	583	1466	1944	124	0.84
Vesilahti	57.2	19.0	590	672	3373	3411	218	0.88
Veteli	70.2	14.0	232	329	1628	1362	87	0.89

Vieremä	117.9	12.7	450	514	5303	2435	156	0.87
Vihti	102.8	19.7	766	918	7873	4101	262	0.87
Viitasaari	61.6	4.9	438	527	2696	2252	144	0.86
Vimpeli	46.9	16.3	288	356	1350	1314	84	0.83
Virolahti	55.7	15.0	375	414	2090	2139	137	0.88
Virrat	85.5	7.4	758	1001	6484	3842	246	0.86
Värdö	3.2	3.1	510	464	161	1479	95	0.69
Vöyri	156.9	20.1	373	313	5859	1611	103	0.82
Ylitornio	37.9	1.9	320	380	1211	1111	71	0.76
Yliveska	74.2	13.0	179	370	1332	908	58	0.86
Ylöjärvi	70.2	6.3	993	1166	6970	5460	349	0.87
Ypääjä	85.8	47.0	247	264	2116	1470	94	0.89
Ähtäri	43.7	5.4	508	597	2220	2442	156	0.85
Äänekoski	51.5	5.8	756	1012	3890	3774	242	0.86

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