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**Inventúra emisií pre vybrané kraje**

***Metodika k spracovaniu regionálnej inventúry emisií vybraných znečisťujúcich látok po okresoch Slovenska za rok 2019***

***VÝSTUP 14) INVENTÚRA EMISIÍ PRE VYBRANÉ KRAJE***

***D. Monitorovanie vplyvu projektových opatrení***

December 2021

Projekt LIFE IP - Zlepšenie kvality ovzdušia (LIFE18 IPE/SK/000010) podporila   
Európska únia v rámci programu LIFE.

Projekt je spolufinancovaný z prostriedkov štátneho rozpočtu SR prostredníctvom MŽP SR.



|  |  |
| --- | --- |
| Názov dokumentu | Inventúra emisií pre vybrané kraje |
| **Názov projektu** | Zlepšenie implementácie programov na zlepšenie kvality ovzdušia na Slovensku posilnením kapacít a kompetencií regionálnych a miestnych orgánov a podporou opatrení v oblasti kvality ovzdušia  Skrátený názov: LIFE IP – Zlepšenie kvality ovzdušia |
| **Kód projektu** | LIFE18 IPE/SK/000010 |
| **Trvanie projektu** | 1.1.2020 – 31.12.2027 |
| **Aktivita** | D. Monitorovanie vplyvu projektových opatrení |
| **Dátum vydania** | 01.12.2021 |
| **Zodpovedný partner** | SHMÚ |
| **Autori** | **Autori:**  Ing. Jonáček Zuzana  Mgr. Zemko Marcel |

Obsah

[Inventúra emisií pre vybrané kraje 4](#_Toc90366940)

[1. Emisie základných znečisťujúcich látok podľa emisnej inventúry v jednotlivých okresoch SR za rok 2019 4](#_Toc90366941)

[2. Priestorové rozdelenie emisií jednotlivých znečisťujúcich látok po sektoroch za rok 2019 7](#_Toc90366942)

[2.1 Emisie NOx 7](#_Toc90366943)

[2.2 Emisie SOx 9](#_Toc90366944)

[2.3 Emisie NH3 11](#_Toc90366945)

[2.4 Emisie TZL 14](#_Toc90366946)

[2.5 Emisie PM2,5 16](#_Toc90366947)

[2.6 Emisie CO 18](#_Toc90366948)

[Metodika k spracovaniu regionálnej inventúry emisií vybraných znečisťujúcich látok po okresoch Slovenska za rok 2019 21](#_Toc90366949)

[1. PRIESTOROVÉ ROZDELENÉ EMISIÍ PO SEKTOROCH ZA ROK 2019 21](#_Toc90366950)

[1.1 Energetika a priemysel 21](#_Toc90366951)

[1.2 Doprava 21](#_Toc90366952)

[1.3 Domácnosti – lokálne kúreniská 21](#_Toc90366953)

[1.4 Poľnohospodárstvo 21](#_Toc90366954)

[1.5 Odpady 21](#_Toc90366955)

[2. PRIESTOROVÉ ROZDELENIE PO ZNEČISŤUJÚCICH LÁTKACH ZA ROK 2019 22](#_Toc90366956)

[2.1 Emisie NOX 22](#_Toc90366957)

[2.2 Emisie SOX 22](#_Toc90366958)

[2.3 Emisie PM2,5 23](#_Toc90366959)

[2.4 Emisie NH3 23](#_Toc90366960)

[Summary 25](#_Toc90366961)

# Inventúra emisií pre vybrané kraje

SHMÚ, v spolupráci s ŠÚ SR, vypracovalo metodický postup na alokáciu emisií znečisťujúcich látok na kraje SR. Vďaka kvalite dát zo štatistické prieskumu realizovaného v roku 2019 ŠÚ SR so zameraním na domácnosti vykurujúce tuhým palivom a rozsiahlej analýzy dát, bolo možné rozdeliť emisie z domácností až na úroveň okresu. Nasledujúce tabuľky znázorňujú emisie za okresy a kraje SR z roku 2019.

## Emisie základných znečisťujúcich látok podľa emisnej inventúry v jednotlivých okresoch SR za rok 2019

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Kód okresu** | **Názov okresu** | **Emisie za rok** | | | | | |
| **Oxidy dusíka (NOx) (t)** | **Oxid siričitý SO2 (t)** | **Amoniak (NH3)** | **Tuhé látky (PM2.5) (t)** | **Tuhé znečisťujúce látky (TZL) (t)** | **Oxid uhoľnatý (CO) (t)** |
| 101 | Bratislava | 144,082 | 1,212 | 1,872 | 10,259 | 16,091 | 119,367 |
| 102 | Bratislava I | 2310,957 | 3056,428 | 42,842 | 155,775 | 295,239 | 856,81 |
| 103 | Bratislava II | 418,532 | 178,712 | 42,409 | 33,109 | 65,01 | 419,792 |
| 104 | Bratislava III | 439,727 | 5,565 | 245,201 | 80,408 | 137,76 | 367,443 |
| 105 | Bratislava IV | 523,23 | 5,585 | 51,714 | 35,627 | 73,319 | 431,756 |
| 106 | Malacky | 2904,317 | 123,629 | 487,216 | 185,044 | 414,828 | 4033,923 |
| 107 | Pezinok | 653,789 | 32,160 | 378,186 | 86,137 | 183,541 | 1062,709 |
| 108 | Senec | 1096,999 | 14,147 | 339,441 | 105,503 | 215,689 | 1317,209 |
| **Bratislavský kraj**  **SPOLU** | | 8491,634 | 3417,438 | 1588,880 | 691,861 | 1401,477 | 8609,010 |
| 201 | Dunajská Streda | 1495,466 | 31,501 | 1513,484 | 251,472 | 577,773 | 2881,565 |
| 202 | Galanta | 1026,280 | 244,675 | 757,777 | 172,238 | 392,937 | 1852,726 |
| 203 | Hlohovec | 663,811 | 12,744 | 430,574 | 107,695 | 227,053 | 1062,204 |
| 204 | Piešťany | 556,949 | 13,631 | 701,286 | 134,315 | 275,930 | 1487,162 |
| 205 | Senica | 770,713 | 37,910 | 595,823 | 198,519 | 344,253 | 2405,046 |
| 206 | Skalica | 388,474 | 11,411 | 339,022 | 122,655 | 200,057 | 1356,766 |
| 207 | Trnava | 1167,742 | 95,670 | 903,914 | 194,627 | 509,910 | 1804,741 |
| **Trnavský kraj**  **SPOLU** | | 6069,436 | 447,543 | 5241,880 | 1181,522 | 2527,913 | 12850,210 |
| 301 | Bánovce nad Bebravou | 391,030 | 12,876 | 376,633 | 134,782 | 220,412 | 1501,443 |
| 302 | Ilava | 953,273 | 20,921 | 137,787 | 160,541 | 336,831 | 2872,832 |
| 303 | Myjava | 430,961 | 23,095 | 206,360 | 192,577 | 254,502 | 2224,961 |
| 304 | Nové Mesto nad Váhom | 565,293 | 18,615 | 309,517 | 186,836 | 281,216 | 2111,270 |
| 305 | Partizánske | 337,738 | 18,961 | 298,834 | 92,766 | 160,393 | 1100,775 |
| 306 | Považská Bystrica | 428,553 | 30,534 | 65,359 | 320,765 | 379,513 | 3554,859 |
| 307 | Prievidza | 1883,470 | 1214,299 | 542,152 | 493,631 | 1097,060 | 4565,365 |
| 308 | Púchov | 594,724 | 58,463 | 251,180 | 275,147 | 356,646 | 3019,610 |
| 309 | Trenčín | 1601,506 | 89,464 | 560,882 | 212,222 | 433,250 | 6876,638 |
| **Trenčiansky kraj**  **SPOLU** | | 7186,549 | 1487,228 | 2748,705 | 2069,268 | 3519,823 | 27827,753 |
| 401 | Komárno | 941,290 | 20,919 | 1394,408 | 248,120 | 536,109 | 2618,781 |
| 402 | Levice | 1341,550 | 65,560 | 1647,309 | 607,262 | 999,430 | 6247,776 |
| 403 | Nitra | 1200,835 | 68,641 | 1729,438 | 246,413 | 605,517 | 3603,145 |
| 404 | Nové Zámky | 1208,097 | 61,819 | 1932,585 | 371,863 | 714,994 | 3865,261 |
| 405 | Šaľa | 891,938 | 13,812 | 330,724 | 135,131 | 431,130 | 891,684 |
| 406 | Topoľčany | 778,578 | 10,812 | 863,499 | 135,177 | 321,011 | 1300,908 |
| 407 | Zlaté Moravce | 400,141 | 14,037 | 281,403 | 140,605 | 216,548 | 1670,309 |
| **Nitriansky kraj**  **SPOLU** | | 6762,430 | 255,600 | 8179,365 | 1884,570 | 3824,739 | 20197,865 |
| 501 | Bytča | 291,569 | 20,474 | 44,066 | 216,911 | 264,926 | 2330,322 |
| 502 | Čadca | 657,514 | 122,174 | 191,248 | 619,310 | 719,951 | 6857,258 |
| 503 | Dolný Kubín | 964,754 | 685,068 | 221,544 | 223,783 | 342,518 | 2887,490 |
| 504 | Kysucké Nové Mesto | 211,773 | 13,189 | 97,356 | 136,481 | 173,678 | 1430,016 |
| 505 | Liptovský Mikuláš | 1337,130 | 33,630 | 805,959 | 380,980 | 595,333 | 4053,648 |
| 506 | Martin | 915,423 | 381,303 | 276,538 | 268,144 | 393,616 | 2843,762 |
| 507 | Námestovo | 551,914 | 69,137 | 525,539 | 609,180 | 777,572 | 6556,194 |
| 508 | Ružomberok | 1582,852 | 158,007 | 236,412 | 394,841 | 629,543 | 4385,464 |
| 509 | Turčianske Teplice | 415,168 | 37,008 | 310,094 | 126,434 | 198,994 | 1367,251 |
| 510 | Tvrdošín | 375,591 | 12,049 | 214,518 | 108,679 | 180,389 | 1114,969 |
| 511 | Žilina | 1235,595 | 215,218 | 274,621 | 483,092 | 821,312 | 5058,406 |
| **Žilinský kraj**  **SPOLU** | | 8539,283 | 1747,255 | 3197,895 | 3567,833 | 5097,832 | 38884,779 |
| 601 | Banská Bystrica | 744,870 | 202,937 | 188,127 | 291,469 | 380,691 | 3206,447 |
| 602 | Banská Štiavnica | 174,832 | 12,166 | 111,799 | 132,958 | 169,714 | 1478,768 |
| 603 | Brezno | 584,238 | 56,740 | 336,990 | 335,875 | 456,676 | 3742,464 |
| 604 | Detva | 318,884 | 20,007 | 133,299 | 254,279 | 349,083 | 2438,132 |
| 605 | Krupina | 328,398 | 33,870 | 191,214 | 195,197 | 253,012 | 2184,379 |
| 606 | Lučenec | 627,430 | 36,513 | 689,775 | 343,262 | 515,812 | 3717,360 |
| 607 | Poltár | 258,243 | 12,562 | 207,982 | 118,612 | 169,648 | 1332,346 |
| 608 | Revúca | 1262,174 | 150,571 | 289,781 | 262,224 | 376,413 | 3230,510 |
| 609 | Rimavská Sobota | 1013,405 | 60,074 | 900,973 | 596,262 | 832,706 | 6694,142 |
| 610 | Veľký Krtíš | 682,295 | 31,937 | 685,394 | 289,995 | 468,171 | 3156,251 |
| 611 | Zvolen | 810,951 | 168,012 | 345,567 | 208,456 | 346,011 | 2125,492 |
| 612 | Žarnovica | 469,968 | 407,916 | 92,846 | 262,734 | 327,959 | 2705,567 |
| 613 | Žiar nad Hronom | 1066,414 | 2166,658 | 200,099 | 407,575 | 726,825 | 18395,317 |
| **Banskobystrický kraj**  **SPOLU** | | 8342,104 | 3359,962 | 4373,846 | 3698,899 | 5372,721 | 54407,174 |
| 701 | Bardejov | 490,836 | 22,698 | 193,107 | 232,288 | 301,958 | 2541,368 |
| 702 | Humenné | 345,390 | 38,378 | 298,954 | 184,642 | 260,850 | 2050,978 |
| 703 | Kežmarok | 319,516 | 22,152 | 214,761 | 229,613 | 293,366 | 2532,185 |
| 704 | Levoča | 285,581 | 14,131 | 205,209 | 118,805 | 174,276 | 1390,598 |
| 705 | Medzilaborce | 192,925 | 9,107 | 253,787 | 105,421 | 164,032 | 1103,444 |
| 706 | Poprad | 550,146 | 15,755 | 297,328 | 167,257 | 264,988 | 1905,375 |
| 707 | Prešov | 772,069 | 28,646 | 484,651 | 267,125 | 427,674 | 3375,097 |
| 708 | Sabinov | 211,472 | 19,402 | 52,869 | 211,702 | 244,653 | 2358,932 |
| 709 | Snina | 303,639 | 20,232 | 339,252 | 231,542 | 327,951 | 2502,178 |
| 710 | Stará Ľubovňa | 347,026 | 25,347 | 344,863 | 276,633 | 361,730 | 3052,940 |
| 711 | Stropkov | 213,279 | 7,741 | 209,398 | 81,423 | 125,709 | 921,229 |
| 712 | Svidník | 266,589 | 16,284 | 113,196 | 148,086 | 187,616 | 1663,774 |
| 713 | Vranov nad Topľou | 1142,265 | 306,141 | 569,663 | 197,398 | 441,872 | 2616,650 |
| **Prešovský kraj**  **SPOLU** | | 5440,733 | 546,014 | 3577,038 | 2451,935 | 3576,677 | 28014,748 |
| 801 | Gelnica | 221,940 | 19,865 | 163,917 | 210,286 | 265,149 | 2294,644 |
| 802 | Košice | 4910,283 | 3895,734 | 245,154 | 427,261 | 2657,738 | 67339,245 |
| 806 | Košice-okolie | 1876,935 | 109,809 | 557,917 | 457,887 | 824,670 | 5254,381 |
| 807 | Michalovce | 1034,254 | 272,683 | 301,230 | 191,170 | 348,112 | 1613,664 |
| 808 | Rožňava | 515,973 | 47,275 | 260,777 | 469,292 | 577,683 | 5130,283 |
| 809 | Sobrance | 272,568 | 18,252 | 76,369 | 98,477 | 125,967 | 1115,295 |
| 810 | Spišská Nová Ves | 452,103 | 43,758 | 362,950 | 201,988 | 299,980 | 3348,494 |
| 811 | Trebišov | 793,386 | 35,985 | 614,274 | 223,347 | 372,200 | 2468,207 |
| **Košický kraj**  **SPOLU** | | 10077,442 | 4443,361 | 2582,588 | 2279,708 | 5471,499 | 88564,212 |

## Priestorové rozdelenie emisií jednotlivých znečisťujúcich látok po sektoroch za rok 2019

Nasledujúce tabuľky zobrazujú emisie na základe sektoru z ktorého pochádzajú.

### 2.1 Emisie NOx

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Kód okresu** | **Názov okresu** | **NEIS** | **Doprava** | **Domácnosti** | **Poľnohospodárstvo** | **Odpady** | **Spolu** |
| 101 | Bratislava I | 33,703 | 83,917 | 26,462 | 0,000 | 0,000 | 144,082 |
| 102 | Bratislava II | 1994,798 | 287,809 | 25,690 | 2,659 | 0,000 | 2310,957 |
| 103 | Bratislava III | 245,209 | 140,287 | 23,812 | 9,225 | 0,000 | 418,532 |
| 104 | Bratislava IV | 174,646 | 231,046 | 24,495 | 3,385 | 6,155 | 439,727 |
| 105 | Bratislava V | 97,541 | 404,657 | 9,741 | 11,291 | 0,000 | 523,230 |
| 106 | Malacky | 1625,869 | 1109,285 | 57,418 | 111,745 | 0,000 | 2904,317 |
| 107 | Pezinok | 22,485 | 493,709 | 44,620 | 92,976 | 0,000 | 653,789 |
| 108 | Senec | 25,316 | 920,167 | 69,762 | 81,755 | 0,000 | 1096,999 |
| 201 | Dunajská Streda | 113,682 | 911,594 | 94,023 | 376,168 | 0,000 | 1495,466 |
| 202 | Galanta | 209,006 | 557,073 | 73,438 | 186,762 | 0,000 | 1026,280 |
| 203 | Hlohovec | 256,521 | 271,469 | 29,772 | 106,048 | 0,000 | 663,811 |
| 204 | Piešťany | 26,806 | 312,043 | 44,015 | 174,086 | 0,000 | 556,949 |
| 205 | Senica | 44,889 | 536,881 | 43,928 | 145,015 | 0,000 | 770,713 |
| 206 | Skalica | 24,112 | 250,287 | 31,660 | 82,415 | 0,000 | 388,474 |
| 207 | Trnava | 227,052 | 643,158 | 73,520 | 224,012 | 0,000 | 1167,742 |
| 301 | Bánovce nad Bebravou | 16,528 | 259,646 | 23,221 | 91,636 | 0,000 | 391,030 |
| 302 | Ilava | 651,936 | 237,514 | 34,851 | 28,973 | 0,000 | 953,273 |
| 303 | Myjava | 31,002 | 326,805 | 26,574 | 46,579 | 0,000 | 430,961 |
| 304 | Nové Mesto nad Váhom | 33,380 | 415,511 | 43,574 | 72,828 | 0,000 | 565,293 |
| 305 | Partizánske | 64,104 | 173,300 | 27,191 | 73,144 | 0,000 | 337,738 |
| 306 | Považská Bystrica | 65,019 | 304,646 | 51,500 | 7,387 | 0,000 | 428,553 |
| 307 | Prievidza | 1268,596 | 407,530 | 84,319 | 123,013 | 0,011 | 1883,470 |
| 308 | Púchov | 264,255 | 234,556 | 40,601 | 55,313 | 0,000 | 594,724 |
| 309 | Trenčín | 879,291 | 522,337 | 66,660 | 133,218 | 0,000 | 1601,506 |
| 401 | Komárno | 94,529 | 416,777 | 82,820 | 347,164 | 0,000 | 941,290 |
| 402 | Levice | 145,226 | 717,772 | 96,473 | 379,703 | 2,377 | 1341,550 |
| 403 | Nitra | 204,957 | 517,079 | 88,876 | 384,738 | 5,184 | 1200,835 |
| 404 | Nové Zámky | 115,512 | 539,947 | 108,769 | 439,412 | 4,457 | 1208,097 |
| 405 | Šaľa | 641,059 | 136,804 | 34,347 | 79,728 | 0,000 | 891,938 |
| 406 | Topoľčany | 257,732 | 261,988 | 43,796 | 215,063 | 0,000 | 778,578 |
| 407 | Zlaté Moravce | 36,605 | 262,220 | 34,112 | 67,204 | 0,000 | 400,141 |
| 501 | Bytča | 7,768 | 244,857 | 33,750 | 5,193 | 0,000 | 291,569 |
| 502 | Čadca | 44,539 | 494,315 | 87,261 | 31,399 | 0,000 | 657,514 |
| 503 | Dolný Kubín | 531,400 | 361,151 | 22,685 | 49,518 | 0,000 | 964,754 |
| 504 | Kysucké Nové Mesto | 40,123 | 138,593 | 25,204 | 6,269 | 1,584 | 211,773 |
| 505 | Liptovský Mikuláš | 235,276 | 866,475 | 48,676 | 185,827 | 0,876 | 1337,130 |
| 506 | Martin | 285,493 | 520,239 | 50,662 | 58,665 | 0,365 | 915,423 |
| 507 | Námestovo | 21,014 | 348,789 | 65,039 | 117,072 | 0,000 | 551,914 |
| 508 | Ružomberok | 1145,324 | 343,393 | 47,956 | 46,179 | 0,000 | 1582,852 |
| 509 | Turčianske Teplice | 34,454 | 287,928 | 17,663 | 75,122 | 0,000 | 415,168 |
| 510 | Tvrdošín | 30,208 | 274,367 | 19,566 | 51,449 | 0,000 | 375,591 |
| 511 | Žilina | 280,274 | 793,501 | 116,191 | 44,384 | 1,246 | 1235,595 |
| 601 | Banská Bystrica | 351,481 | 299,313 | 55,398 | 38,678 | 0,000 | 744,870 |
| 602 | Banská Štiavnica | 4,793 | 129,098 | 16,365 | 24,578 | 0,000 | 174,832 |
| 603 | Brezno | 210,541 | 248,446 | 49,293 | 75,959 | 0,000 | 584,238 |
| 604 | Detva | 94,141 | 166,639 | 30,662 | 27,441 | 0,000 | 318,884 |
| 605 | Krupina | 26,736 | 235,429 | 23,370 | 42,863 | 0,000 | 328,398 |
| 606 | Lučenec | 40,100 | 364,532 | 57,259 | 165,539 | 0,000 | 627,430 |
| 607 | Poltár | 33,651 | 157,339 | 17,845 | 49,408 | 0,000 | 258,243 |
| 608 | Revúca | 913,945 | 252,951 | 32,138 | 63,141 | 0,000 | 1262,174 |
| 609 | Rimavská Sobota | 188,308 | 537,623 | 75,950 | 211,525 | 0,000 | 1013,405 |
| 610 | Veľký Krtíš | 74,069 | 401,937 | 40,532 | 165,758 | 0,000 | 682,295 |
| 611 | Zvolen | 413,590 | 278,932 | 37,212 | 81,218 | 0,000 | 810,951 |
| 612 | Žarnovica | 225,540 | 197,608 | 30,672 | 16,148 | 0,000 | 469,968 |
| 613 | Žiar nad Hronom | 719,534 | 277,836 | 31,477 | 36,978 | 0,591 | 1066,414 |
| 701 | Bardejov | 106,489 | 307,548 | 34,777 | 42,022 | 0,000 | 490,836 |
| 702 | Humenné | 47,219 | 200,425 | 27,234 | 70,512 | 0,000 | 345,390 |
| 703 | Kežmarok | 36,923 | 193,433 | 41,169 | 47,991 | 0,000 | 319,516 |
| 704 | Levoča | 8,875 | 210,388 | 17,828 | 48,489 | 0,000 | 285,581 |
| 705 | Medzilaborce | 8,536 | 111,662 | 11,153 | 61,575 | 0,000 | 192,925 |
| 706 | Poprad | 91,307 | 349,593 | 38,901 | 70,344 | 0,000 | 550,146 |
| 707 | Prešov | 140,202 | 464,486 | 57,492 | 109,299 | 0,591 | 772,069 |
| 708 | Sabinov | 14,970 | 156,546 | 32,622 | 7,334 | 0,000 | 211,472 |
| 709 | Snina | 33,051 | 163,628 | 27,118 | 79,841 | 0,000 | 303,639 |
| 710 | Stará Ľubovňa | 20,569 | 207,322 | 39,416 | 79,719 | 0,000 | 347,026 |
| 711 | Stropkov | 3,272 | 147,872 | 11,425 | 50,709 | 0,000 | 213,279 |
| 712 | Svidník | 8,354 | 214,654 | 19,267 | 24,315 | 0,000 | 266,589 |
| 713 | Vranov nad Topľou | 712,187 | 261,010 | 32,253 | 136,814 | 0,000 | 1142,265 |
| 801 | Gelnica | 6,916 | 153,033 | 26,186 | 35,804 | 0,000 | 221,940 |
| 802 | Košice I | 8,933 | 54,367 | 12,541 | 0,044 | 3,071 | 78,956 |
| 803 | Košice II | 4238,606 | 76,239 | 8,852 | 16,602 | 0,000 | 4340,299 |
| 804 | Košice III | 0,337 | 31,694 | 2,255 | 0,000 | 0,000 | 34,285 |
| 805 | Košice IV | 393,088 | 53,494 | 10,160 | 0,000 | 0,000 | 456,743 |
| 806 | Košice-okolie | 951,739 | 724,421 | 74,759 | 126,016 | 0,000 | 1876,935 |
| 807 | Michalovce | 461,301 | 466,706 | 34,467 | 71,780 | 0,000 | 1034,254 |
| 808 | Rožňava | 36,452 | 370,618 | 55,819 | 53,085 | 0,000 | 515,973 |
| 809 | Sobrance | 34,052 | 207,692 | 14,463 | 16,360 | 0,000 | 272,568 |
| 810 | Spišská Nová Ves | 79,399 | 252,212 | 34,055 | 86,437 | 0,000 | 452,103 |
| 811 | Trebišov | 66,748 | 530,292 | 47,053 | 149,293 | 0,000 | 793,386 |
| Spolu | | 23353,193 | 27018,438 | 3304,129 | 7207,343 | 26,507 | 60909,610 |

### 2.2 Emisie SOx

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Kód okresu** | **Názov okresu** | **NEIS** | **Doprava** | **Domácnosti** | **Poľnohospodárstvo** | **Odpady** | **Spolu** |
| **101** | Bratislava I | 0,208 | 0,761 | 0,243 | 0.000 | 0,000 | 1,212 |
| **102** | Bratislava II | 3052,448 | 2,611 | 1,370 | 0,000 | 0,000 | 3056,428 |
| **103** | Bratislava III | 176,664 | 1,273 | 0,776 | 0,000 | 0,000 | 178,712 |
| **104** | Bratislava IV | 1,189 | 2,096 | 0,994 | 0,000 | 1,287 | 5,565 |
| **105** | Bratislava V | 1,512 | 3,671 | 0,402 | 0,000 | 0,000 | 5,585 |
| **106** | Malacky | 104,563 | 10,062 | 9,003 | 0,000 | 0,000 | 123,629 |
| **107** | Pezinok | 23,119 | 4,478 | 4,562 | 0,000 | 0,000 | 32,160 |
| **108** | Senec | 1,600 | 8,347 | 4,200 | 0,000 | 0,000 | 14,147 |
| **201** | Dunajská Streda | 8,902 | 6,061 | 16,538 | 0,000 | 0,000 | 31,501 |
| **202** | Galanta | 230,314 | 3,704 | 10,657 | 0,000 | 0,000 | 244,675 |
| **203** | Hlohovec | 5,701 | 1,805 | 5,238 | 0,000 | 0,000 | 12,744 |
| **204** | Piešťany | 1,589 | 2,075 | 9,967 | 0,000 | 0,000 | 13,631 |
| **205** | Senica | 19,614 | 3,569 | 14,727 | 0,000 | 0,000 | 37,910 |
| **206** | Skalica | 0,376 | 1,664 | 9,371 | 0,000 | 0,000 | 11,411 |
| **207** | Trnava | 82,310 | 4,276 | 9,084 | 0,000 | 0,000 | 95,670 |
| **301** | Bánovce nad Bebravou | 0,658 | 1,747 | 10,472 | 0,000 | 0,000 | 12,876 |
| **302** | Ilava | 9,312 | 1,598 | 10,012 | 0,000 | 0,000 | 20,921 |
| **303** | Myjava | 5,412 | 2,198 | 15,485 | 0,000 | 0,000 | 23,095 |
| **304** | Nové Mesto nad Váhom | 1,498 | 2,795 | 14,322 | 0,000 | 0,000 | 18,615 |
| **305** | Partizánske | 11,149 | 1,166 | 6,646 | 0,000 | 0,000 | 18,961 |
| **306** | Považská Bystrica | 1,882 | 2,049 | 26,602 | 0,000 | 0,000 | 30,534 |
| **307** | Prievidza | 1181,692 | 2,741 | 29,864 | 0,000 | 0,001 | 1214,299 |
| **308** | Púchov | 34,089 | 1,578 | 22,796 | 0,000 | 0,000 | 58,463 |
| **309** | Trenčín | 70,858 | 3,514 | 15,092 | 0,000 | 0,000 | 89,464 |
| **401** | Komárno | 0,369 | 2,947 | 17,603 | 0,000 | 0,000 | 20,919 |
| **402** | Levice | 14,708 | 5,075 | 45,280 | 0,000 | 0,497 | 65,560 |
| **403** | Nitra | 51,038 | 3,656 | 12,863 | 0,000 | 1,084 | 68,641 |
| **404** | Nové Zámky | 31,007 | 3,818 | 26,063 | 0,000 | 0,932 | 61,819 |
| **405** | Šaľa | 7,517 | 0,967 | 5,328 | 0,000 | 0,000 | 13,812 |
| **406** | Topoľčany | 0,659 | 1,852 | 8,301 | 0,000 | 0,000 | 10,812 |
| **407** | Zlaté Moravce | 1,638 | 1,854 | 10,545 | 0,000 | 0,000 | 14,037 |
| **501** | Bytča | 1,051 | 1,342 | 18,081 | 0,000 | 0,000 | 20,474 |
| **502** | Čadca | 66,271 | 2,709 | 53,194 | 0,000 | 0,000 | 122,174 |
| **503** | Dolný Kubín | 669,325 | 1,979 | 13,764 | 0,000 | 0,000 | 685,068 |
| **504** | Kysucké Nové Mesto | 1,328 | 0,759 | 10,971 | 0,000 | 0,131 | 13,189 |
| **505** | Liptovský Mikuláš | 2,038 | 4,748 | 26,772 | 0,000 | 0,072 | 33,630 |
| **506** | Martin | 358,290 | 2,851 | 20,135 | 0,000 | 0,027 | 381,303 |
| **507** | Námestovo | 14,983 | 1,911 | 52,243 | 0,000 | 0,000 | 69,137 |
| **508** | Ružomberok | 125,410 | 1,882 | 30,716 | 0,000 | 0,000 | 158,007 |
| **509** | Turčianske Teplice | 25,765 | 1,578 | 9,666 | 0,000 | 0,000 | 37,008 |
| **510** | Tvrdošín | 2,792 | 1,503 | 7,753 | 0,000 | 0,000 | 12,049 |
| **511** | Žilina | 173,816 | 4,348 | 36,793 | 0,000 | 0,260 | 215,218 |
| **601** | Banská Bystrica | 177,879 | 1,770 | 23,288 | 0,000 | 0,000 | 202,937 |
| **602** | Banská Štiavnica | 0,024 | 0,763 | 11,379 | 0,000 | 0,000 | 12,166 |
| **603** | Brezno | 27,953 | 1,469 | 27,318 | 0,000 | 0,000 | 56,740 |
| **604** | Detva | 0,366 | 0,985 | 18,655 | 0,000 | 0,000 | 20,007 |
| **605** | Krupina | 16,161 | 1,392 | 16,317 | 0,000 | 0,000 | 33,870 |
| **606** | Lučenec | 6,087 | 2,155 | 28,271 | 0,000 | 0,000 | 36,513 |
| **607** | Poltár | 2,183 | 0,930 | 9,449 | 0,000 | 0,000 | 12,562 |
| **608** | Revúca | 127,133 | 1,496 | 21,942 | 0,000 | 0,000 | 150,571 |
| **609** | Rimavská Sobota | 6,463 | 3,179 | 50,432 | 0,000 | 0,000 | 60,074 |
| **610** | Veľký Krtíš | 6,560 | 2,376 | 23,001 | 0,000 | 0,000 | 31,937 |
| **611** | Zvolen | 152,025 | 1,649 | 14,338 | 0,000 | 0,000 | 168,012 |
| **612** | Žarnovica | 386,549 | 1,168 | 20,199 | 0,000 | 0,000 | 407,916 |
| **613** | Žiar nad Hronom | 2148,177 | 1,643 | 16,789 | 0,000 | 0,049 | 2166,658 |
| **701** | Bardejov | 2,108 | 1,951 | 18,639 | 0,000 | 0,000 | 22,698 |
| **702** | Humenné | 21,791 | 1,272 | 15,315 | 0,000 | 0,000 | 38,378 |
| **703** | Kežmarok | 1,638 | 1,227 | 19,287 | 0,000 | 0,000 | 22,152 |
| **704** | Levoča | 3,206 | 1,335 | 9,590 | 0,000 | 0,000 | 14,131 |
| **705** | Medzilaborce | 0,067 | 0,708 | 8,332 | 0,000 | 0,000 | 9,107 |
| **706** | Poprad | 1,382 | 2,218 | 12,155 | 0,000 | 0,000 | 15,755 |
| **707** | Prešov | 4,875 | 2,947 | 20,776 | 0,000 | 0,049 | 28,646 |
| **708** | Sabinov | 0,058 | 0,993 | 18,351 | 0,000 | 0,000 | 19,402 |
| **709** | Snina | 0,205 | 1,038 | 18,989 | 0,000 | 0,000 | 20,232 |
| **710** | Stará Ľubovňa | 0,251 | 1,315 | 23,782 | 0,000 | 0,000 | 25,347 |
| **711** | Stropkov | 0,249 | 0,938 | 6,553 | 0,000 | 0,000 | 7,741 |
| **712** | Svidník | 2,738 | 1,362 | 12,184 | 0,000 | 0,000 | 16,284 |
| **713** | Vranov nad Topľou | 289,163 | 1,656 | 15,322 | 0,000 | 0,000 | 306,141 |
| **801** | Gelnica | 1,007 | 0,791 | 18,067 | 0,000 | 0,000 | 19,865 |
| **802** | Košice I | 0,305 | 0,281 | 0,826 | 0,000 | 0,642 | 2,053 |
| **803** | Košice II | 3714,274 | 0,394 | 0,472 | 0,000 | 0,000 | 3715,141 |
| **804** | Košice III | 0,002 | 0,164 | 0,083 | 0,000 | 0,000 | 0,249 |
| **805** | Košice IV | 177,377 | 0,277 | 0,637 | 0,000 | 0,000 | 178,291 |
| **806** | Košice-okolie | 71,085 | 3,746 | 34,979 | 0,000 | 0,000 | 109,809 |
| **807** | Michalovce | 264,043 | 2,413 | 6,226 | 0,000 | 0,000 | 272,683 |
| **808** | Rožňava | 5,150 | 1,916 | 40,208 | 0,000 | 0,000 | 47,275 |
| **809** | Sobrance | 9,356 | 1,074 | 7,822 | 0,000 | 0,000 | 18,252 |
| **810** | Spišská Nová Ves | 26,333 | 1,304 | 16,121 | 0,000 | 0,000 | 43,758 |
| **811** | Trebišov | 16,243 | 2,742 | 16,999 | 0,000 | 0,000 | 35,985 |
| Spolu | | 14245,129 | 176,657 | 1277,586 | 0,000 | 5,029 | 15704,401 |

### 2.3 Emisie NH3

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Kód okresu** | **Názov okresu** | **NEIS** | **Doprava** | **Domácnosti** | **Poľnohospodárstvo** | **Odpady** | **Spolu** |
| **101** | Bratislava I | 0,454 | 1,142 | 0,276 | 0,000 | 0,000 | 1,872 |
| **102** | Bratislava II | 26,863 | 3,916 | 1,600 | 10,464 | 0,000 | 42,842 |
| **103** | Bratislava III | 3,302 | 1,909 | 0,903 | 36,295 | 0,000 | 42,409 |
| **104** | Bratislava IV | 2,352 | 3,144 | 1,158 | 13,320 | 225,227 | 245,201 |
| **105** | Bratislava V | 1,314 | 5,506 | 0,469 | 44,425 | 0,000 | 51,714 |
| **106** | Malacky | 21,895 | 15,094 | 10,556 | 439,672 | 0,000 | 487,216 |
| **107** | Pezinok | 0,303 | 6,718 | 5,343 | 365,822 | 0,000 | 378,186 |
| **108** | Senec | 0,341 | 12,521 | 4,909 | 321,670 | 0,000 | 339,441 |
| **201** | Dunajská Streda | 1,531 | 12,498 | 19,394 | 1480,061 | 0,000 | 1513,484 |
| **202** | Galanta | 2,815 | 7,637 | 12,493 | 734,832 | 0,000 | 757,777 |
| **203** | Hlohovec | 3,454 | 3,722 | 6,143 | 417,255 | 0,000 | 430,574 |
| **204** | Piešťany | 0,361 | 4,278 | 11,693 | 684,954 | 0,000 | 701,286 |
| **205** | Senica | 0,604 | 7,360 | 17,285 | 570,573 | 0,000 | 595,823 |
| **206** | Skalica | 0,325 | 3,431 | 10,997 | 324,269 | 0,000 | 339,022 |
| **207** | Trnava | 3,058 | 8,818 | 10,645 | 881,393 | 0,000 | 903,914 |
| **301** | Bánovce nad Bebravou | 0,223 | 3,568 | 12,293 | 360,549 | 0,000 | 376,633 |
| **302** | Ilava | 8,779 | 3,264 | 11,748 | 113,995 | 0,000 | 137,787 |
| **303** | Myjava | 0,417 | 4,491 | 18,181 | 183,270 | 0,000 | 206,360 |
| **304** | Nové Mesto nad Váhom | 0,450 | 5,710 | 16,809 | 286,548 | 0,000 | 309,517 |
| **305** | Partizánske | 0,863 | 2,382 | 7,798 | 287,792 | 0,000 | 298,834 |
| **306** | Považská Bystrica | 0,876 | 4,187 | 31,232 | 29,064 | 0,000 | 65,359 |
| **307** | Prievidza | 17,084 | 5,601 | 35,052 | 484,006 | 0,411 | 542,152 |
| **308** | Púchov | 3,559 | 3,223 | 26,765 | 217,633 | 0,000 | 251,180 |
| **309** | Trenčín | 11,841 | 7,178 | 17,705 | 524,158 | 0,000 | 560,882 |
| **401** | Komárno | 1,273 | 6,542 | 20,649 | 1365,944 | 0,000 | 1394,408 |
| **402** | Levice | 1,956 | 11,266 | 53,157 | 1493,973 | 86,957 | 1647,309 |
| **403** | Nitra | 2,760 | 8,116 | 15,078 | 1513,783 | 189,700 | 1729,438 |
| **404** | Nové Zámky | 1,556 | 8,475 | 30,577 | 1728,902 | 163,075 | 1932,585 |
| **405** | Šaľa | 8,633 | 2,147 | 6,246 | 313,697 | 0,000 | 330,724 |
| **406** | Topoľčany | 3,471 | 4,112 | 9,735 | 846,181 | 0,000 | 863,499 |
| **407** | Zlaté Moravce | 0,493 | 4,116 | 12,376 | 264,418 | 0,000 | 281,403 |
| **501** | Bytča | 0,105 | 2,302 | 21,228 | 20,431 | 0,000 | 44,066 |
| **502** | Čadca | 0,600 | 4,647 | 62,458 | 123,544 | 0,000 | 191,248 |
| **503** | Dolný Kubín | 7,156 | 3,395 | 16,161 | 194,832 | 0,000 | 221,544 |
| **504** | Kysucké Nové Mesto | 0,540 | 1,303 | 12,879 | 24,668 | 57,966 | 97,356 |
| **505** | Liptovský Mikuláš | 3,168 | 8,145 | 31,432 | 731,150 | 32,063 | 805,959 |
| **506** | Martin | 3,845 | 4,890 | 23,635 | 230,821 | 13,347 | 276,538 |
| **507** | Námestovo | 0,283 | 3,279 | 61,348 | 460,629 | 0,000 | 525,539 |
| **508** | Ružomberok | 15,424 | 3,228 | 36,066 | 181,695 | 0,000 | 236,412 |
| **509** | Turčianske Teplice | 0,464 | 2,707 | 11,348 | 295,575 | 0,000 | 310,094 |
| **510** | Tvrdošín | 0,407 | 2,579 | 9,101 | 202,431 | 0,000 | 214,518 |
| **511** | Žilina | 3,774 | 7,459 | 43,181 | 174,631 | 45,576 | 274,621 |
| **601** | Banská Bystrica | 4,733 | 3,874 | 27,337 | 152,183 | 0,000 | 188,127 |
| **602** | Banská Štiavnica | 0,065 | 1,671 | 13,362 | 96,702 | 0,000 | 111,799 |
| **603** | Brezno | 2,835 | 3,215 | 32,074 | 298,866 | 0,000 | 336,990 |
| **604** | Detva | 1,268 | 2,157 | 21,904 | 107,970 | 0,000 | 133,299 |
| **605** | Krupina | 0,360 | 3,047 | 19,160 | 168,647 | 0,000 | 191,214 |
| **606** | Lučenec | 0,540 | 4,718 | 33,190 | 651,327 | 0,000 | 689,775 |
| **607** | Poltár | 0,453 | 2,036 | 11,093 | 194,400 | 0,000 | 207,982 |
| **608** | Revúca | 12,308 | 3,274 | 25,765 | 248,434 | 0,000 | 289,781 |
| **609** | Rimavská Sobota | 2,536 | 6,958 | 59,217 | 832,261 | 0,000 | 900,973 |
| **610** | Veľký Krtíš | 0,997 | 5,202 | 27,006 | 652,189 | 0,000 | 685,394 |
| **611** | Zvolen | 5,570 | 3,610 | 16,830 | 319,557 | 0,000 | 345,567 |
| **612** | Žarnovica | 3,037 | 2,558 | 23,717 | 63,534 | 0,000 | 92,846 |
| **613** | Žiar nad Hronom | 9,690 | 3,596 | 19,712 | 145,491 | 21,611 | 200,099 |
| **701** | Bardejov | 1,434 | 4,451 | 21,883 | 165,339 | 0,000 | 193,107 |
| **702** | Humenné | 0,636 | 2,901 | 17,981 | 277,437 | 0,000 | 298,954 |
| **703** | Kežmarok | 0,497 | 2,799 | 22,642 | 188,823 | 0,000 | 214,761 |
| **704** | Levoča | 0,120 | 3,045 | 11,259 | 190,786 | 0,000 | 205,209 |
| **705** | Medzilaborce | 0,115 | 1,616 | 9,783 | 242,273 | 0,000 | 253,787 |
| **706** | Poprad | 1,230 | 5,060 | 14,265 | 276,774 | 0,000 | 297,328 |
| **707** | Prešov | 1,888 | 6,722 | 24,386 | 430,044 | 21,611 | 484,651 |
| **708** | Sabinov | 0,202 | 2,266 | 21,546 | 28,857 | 0,000 | 52,869 |
| **709** | Snina | 0,445 | 2,368 | 22,297 | 314,142 | 0,000 | 339,252 |
| **710** | Stará Ľubovňa | 0,277 | 3,000 | 27,923 | 313,662 | 0,000 | 344,863 |
| **711** | Stropkov | 0,044 | 2,140 | 7,694 | 199,520 | 0,000 | 209,398 |
| **712** | Svidník | 0,112 | 3,107 | 14,306 | 95,670 | 0,000 | 113,196 |
| **713** | Vranov nad Topľou | 9,591 | 3,778 | 17,988 | 538,307 | 0,000 | 569,663 |
| **801** | Gelnica | 0,093 | 1,736 | 21,215 | 140,873 | 0,000 | 163,917 |
| **802** | Košice I | 0,120 | 0,617 | 0,965 | 0,173 | 112,356 | 114,231 |
| **803** | Košice II | 57,080 | 0,865 | 0,552 | 65,321 | 0,000 | 123,817 |
| **804** | Košice III | 0,005 | 0,360 | 0,097 | 0,000 | 0,000 | 0,461 |
| **805** | Košice IV | 5,294 | 0,607 | 0,745 | 0,000 | 0,000 | 6,645 |
| **806** | Košice-okolie | 12,817 | 8,218 | 41,064 | 495,819 | 0,000 | 557,917 |
| **807** | Michalovce | 6,212 | 5,294 | 7,301 | 282,423 | 0,000 | 301,230 |
| **808** | Rožňava | 0,491 | 4,204 | 47,214 | 208,868 | 0,000 | 260,777 |
| **809** | Sobrance | 0,459 | 2,356 | 9,184 | 64,371 | 0,000 | 76,369 |
| **810** | Spišská Nová Ves | 1,069 | 2,861 | 18,926 | 340,094 | 0,000 | 362,950 |
| **811** | Trebišov | 0,899 | 6,015 | 19,953 | 587,407 | 0,000 | 614,274 |
| Spolu | | 314,488 | 348,307 | 1499,638 | 28357,865 | 969,900 | 31490,197 |

### 2.4 Emisie TZL

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Kód okresu** | **Názov okresu** | **NEIS** | **Doprava** | **Domácnosti** | **Poľnohospodárstvo** | **Odpady** | **Spolu** |
| **101** | Bratislava I | 3,969 | 8,917 | 3,206 | 0,000 | 0,000 | 16,091 |
| **102** | Bratislava II | 246,278 | 30,581 | 16,628 | 1,753 | 0,000 | 295,239 |
| **103** | Bratislava III | 34,493 | 14,906 | 9,532 | 6,079 | 0,000 | 65,010 |
| **104** | Bratislava IV | 56,537 | 24,549 | 12,132 | 2,231 | 42,311 | 137,760 |
| **105** | Bratislava V | 17,974 | 42,996 | 4,908 | 7,441 | 0,000 | 73,319 |
| **106** | Malacky | 115,313 | 117,865 | 108,007 | 73,642 | 0,000 | 414,828 |
| **107** | Pezinok | 14,897 | 52,458 | 54,913 | 61,273 | 0,000 | 183,541 |
| **108** | Senec | 13,149 | 97,771 | 50,892 | 53,878 | 0,000 | 215,689 |
| **201** | Dunajská Streda | 48,435 | 83,164 | 198,272 | 247,901 | 0,000 | 577,773 |
| **202** | Galanta | 91,120 | 50,822 | 127,915 | 123,080 | 0,000 | 392,937 |
| **203** | Hlohovec | 69,598 | 24,766 | 62,801 | 69,888 | 0,000 | 227,053 |
| **204** | Piešťany | 13,391 | 28,468 | 119,346 | 114,726 | 0,000 | 275,930 |
| **205** | Senica | 23,616 | 48,979 | 176,090 | 95,568 | 0,000 | 344,253 |
| **206** | Skalica | 10,821 | 22,834 | 112,089 | 54,313 | 0,000 | 200,057 |
| **207** | Trnava | 194,442 | 58,675 | 109,165 | 147,628 | 0,000 | 509,910 |
| **301** | Bánovce nad Bebravou | 10,303 | 24,605 | 125,114 | 60,390 | 0,000 | 220,412 |
| **302** | Ilava | 175,465 | 22,508 | 119,765 | 19,094 | 0,000 | 336,831 |
| **303** | Myjava | 7,917 | 30,969 | 184,919 | 30,697 | 0,000 | 254,502 |
| **304** | Nové Mesto nad Váhom | 22,588 | 39,375 | 171,257 | 47,995 | 0,000 | 281,216 |
| **305** | Partizánske | 16,213 | 16,423 | 79,554 | 48,203 | 0,000 | 160,393 |
| **306** | Považská Bystrica | 28,019 | 28,870 | 317,756 | 4,868 | 0,000 | 379,513 |
| **307** | Prievidza | 620,138 | 38,619 | 357,024 | 81,068 | 0,211 | 1097,060 |
| **308** | Púchov | 25,719 | 22,227 | 272,248 | 36,452 | 0,000 | 356,646 |
| **309** | Trenčín | 115,250 | 49,499 | 180,708 | 87,793 | 0,000 | 433,250 |
| **401** | Komárno | 58,168 | 38,319 | 210,834 | 228,787 | 0,000 | 536,109 |
| **402** | Levice | 125,917 | 65,993 | 540,952 | 250,231 | 16,336 | 999,430 |
| **403** | Nitra | 114,397 | 47,541 | 154,391 | 253,550 | 35,637 | 605,517 |
| **404** | Nové Zámky | 33,145 | 49,644 | 311,990 | 289,581 | 30,635 | 714,994 |
| **405** | Šaľa | 302,089 | 12,578 | 63,921 | 52,542 | 0,000 | 431,130 |
| **406** | Topoľčany | 55,722 | 24,088 | 99,471 | 141,730 | 0,000 | 321,011 |
| **407** | Zlaté Moravce | 22,030 | 24,109 | 126,121 | 44,288 | 0,000 | 216,548 |
| **501** | Bytča | 20,690 | 24,857 | 215,956 | 3,422 | 0,000 | 264,926 |
| **502** | Čadca | 13,879 | 50,180 | 635,199 | 20,693 | 0,000 | 719,951 |
| **503** | Dolný Kubín | 108,864 | 36,662 | 164,358 | 32,633 | 0,000 | 342,518 |
| **504** | Kysucké Nové Mesto | 21,707 | 14,069 | 131,091 | 4,132 | 2,678 | 173,678 |
| **505** | Liptovský Mikuláš | 63,687 | 87,960 | 319,741 | 122,463 | 1,481 | 595,333 |
| **506** | Martin | 54,652 | 52,812 | 240,636 | 38,661 | 6,855 | 393,616 |
| **507** | Námestovo | 41,420 | 35,407 | 623,592 | 77,153 | 0,000 | 777,572 |
| **508** | Ružomberok | 197,501 | 34,859 | 366,750 | 30,433 | 0,000 | 629,543 |
| **509** | Turčianske Teplice | 4,816 | 29,229 | 115,442 | 49,507 | 0,000 | 198,994 |
| **510** | Tvrdošín | 25,970 | 27,852 | 92,661 | 33,906 | 0,000 | 180,389 |
| **511** | Žilina | 262,940 | 80,552 | 440,009 | 29,250 | 8,562 | 821,312 |
| **601** | Banská Bystrica | 50,846 | 26,073 | 278,283 | 25,490 | 0,000 | 380,691 |
| **602** | Banská Štiavnica | 6,418 | 11,246 | 135,853 | 16,197 | 0,000 | 169,714 |
| **603** | Brezno | 58,717 | 21,642 | 326,258 | 50,058 | 0,000 | 456,676 |
| **604** | Detva | 93,717 | 14,516 | 222,766 | 18,084 | 0,000 | 349,083 |
| **605** | Krupina | 9,450 | 20,508 | 194,806 | 28,247 | 0,000 | 253,012 |
| **606** | Lučenec | 37,248 | 31,755 | 337,716 | 109,093 | 0,000 | 515,812 |
| **607** | Poltár | 10,525 | 13,706 | 112,856 | 32,561 | 0,000 | 169,648 |
| **608** | Revúca | 50,795 | 22,035 | 261,972 | 41,611 | 0,000 | 376,413 |
| **609** | Rimavská Sobota | 44,335 | 46,833 | 602,140 | 139,399 | 0,000 | 832,706 |
| **610** | Veľký Krtíš | 49,224 | 35,013 | 274,696 | 109,238 | 0,000 | 468,171 |
| **611** | Zvolen | 96,820 | 24,298 | 171,369 | 53,524 | 0,000 | 346,011 |
| **612** | Žarnovica | 58,936 | 17,214 | 241,168 | 10,642 | 0,000 | 327,959 |
| **613** | Žiar nad Hronom | 476,727 | 24,202 | 200,528 | 24,369 | 0,998 | 726,825 |
| **701** | Bardejov | 23,887 | 27,759 | 222,619 | 27,693 | 0,000 | 301,958 |
| **702** | Humenné | 13,391 | 18,090 | 182,900 | 46,469 | 0,000 | 260,850 |
| **703** | Kežmarok | 13,866 | 17,459 | 230,414 | 31,627 | 0,000 | 293,366 |
| **704** | Levoča | 8,797 | 18,989 | 114,535 | 31,955 | 0,000 | 174,276 |
| **705** | Medzilaborce | 13,916 | 10,078 | 99,459 | 40,579 | 0,000 | 164,032 |
| **706** | Poprad | 41,710 | 31,554 | 145,366 | 46,358 | 0,000 | 264,988 |
| **707** | Prešov | 64,354 | 41,924 | 248,368 | 72,030 | 0,998 | 427,674 |
| **708** | Sabinov | 6,533 | 14,130 | 219,158 | 4,833 | 0,000 | 244,653 |
| **709** | Snina | 33,865 | 14,769 | 226,700 | 52,617 | 0,000 | 327,951 |
| **710** | Stará Ľubovňa | 6,497 | 18,712 | 283,984 | 52,537 | 0,000 | 361,730 |
| **711** | Stropkov | 0,682 | 13,347 | 78,262 | 33,418 | 0,000 | 125,709 |
| **712** | Svidník | 6,733 | 19,374 | 145,484 | 16,024 | 0,000 | 187,616 |
| **713** | Vranov nad Topľou | 145,103 | 23,558 | 183,048 | 90,163 | 0,000 | 441,872 |
| **801** | Gelnica | 12,484 | 13,369 | 215,700 | 23,595 | 0,000 | 265,149 |
| **802** | Košice I | 4,615 | 4,750 | 9,989 | 0,029 | 21,107 | 40,489 |
| **803** | Košice II | 2557,385 | 6,660 | 5,734 | 10,941 | 0,000 | 2580,720 |
| **804** | Košice III | 0,040 | 2,769 | 1,014 | 0,000 | 0,000 | 3,823 |
| **805** | Košice IV | 20,320 | 4,673 | 7,713 | 0,000 | 0,000 | 32,706 |
| **806** | Košice-okolie | 260,445 | 63,287 | 417,891 | 83,047 | 0,000 | 824,670 |
| **807** | Michalovce | 185,407 | 40,773 | 74,628 | 47,304 | 0,000 | 348,112 |
| **808** | Rožňava | 30,308 | 32,378 | 480,012 | 34,984 | 0,000 | 577,683 |
| **809** | Sobrance | 3,618 | 18,145 | 93,422 | 10,782 | 0,000 | 125,967 |
| **810** | Spišská Nová Ves | 28,391 | 22,034 | 192,591 | 56,964 | 0,000 | 299,980 |
| **811** | Trebišov | 24,269 | 46,328 | 203,217 | 98,387 | 0,000 | 372,200 |
| Spolu | | 8053,614 | 2551,506 | 15269,978 | 4749,772 | 167,809 | 30792,681 |

### 2.5 Emisie PM2,5

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Kód okresu** | **Názov okresu** | **NEIS** | **Doprava** | **Domácnosti** | **Poľnohospodárstvo** | **Odpady** | **Spolu** |
| **101** | Bratislava I | 2,297 | 4,976 | 2,985 | 0,000 | 0,000 | 10,259 |
| **102** | Bratislava II | 123,267 | 17,067 | 15,349 | 0,092 | 0,000 | 155,775 |
| **103** | Bratislava III | 15,661 | 8,319 | 8,810 | 0,319 | 0,000 | 33,109 |
| **104** | Bratislava IV | 10,626 | 13,701 | 11,205 | 0,117 | 44,759 | 80,408 |
| **105** | Bratislava V | 6,707 | 23,996 | 4,533 | 0,390 | 0,000 | 35,627 |
| **106** | Malacky | 15,840 | 65,781 | 99,562 | 3,861 | 0,000 | 185,044 |
| **107** | Pezinok | 3,009 | 29,277 | 50,638 | 3,212 | 0,000 | 86,137 |
| **108** | Senec | 1,148 | 54,566 | 46,964 | 2,824 | 0,000 | 105,503 |
| **201** | Dunajská Streda | 9,948 | 45,773 | 182,755 | 12,996 | 0,000 | 251,472 |
| **202** | Galanta | 19,894 | 27,972 | 117,920 | 6,452 | 0,000 | 172,238 |
| **203** | Hlohovec | 32,514 | 13,631 | 57,887 | 3,664 | 0,000 | 107,695 |
| **204** | Piešťany | 2,642 | 15,668 | 109,991 | 6,014 | 0,000 | 134,315 |
| **205** | Senica | 4,289 | 26,958 | 162,262 | 5,010 | 0,000 | 198,519 |
| **206** | Skalica | 3,949 | 12,567 | 103,291 | 2,847 | 0,000 | 122,655 |
| **207** | Trnava | 53,946 | 32,294 | 100,648 | 7,739 | 0,000 | 194,627 |
| **301** | Bánovce nad Bebravou | 2,654 | 13,683 | 115,279 | 3,166 | 0,000 | 134,782 |
| **302** | Ilava | 36,657 | 12,517 | 110,366 | 1,001 | 0,000 | 160,541 |
| **303** | Myjava | 3,371 | 17,223 | 170,374 | 1,609 | 0,000 | 192,577 |
| **304** | Nové Mesto nad Váhom | 4,614 | 21,897 | 157,809 | 2,516 | 0,000 | 186,836 |
| **305** | Partizánske | 7,791 | 9,133 | 73,316 | 2,527 | 0,000 | 92,766 |
| **306** | Považská Bystrica | 11,686 | 16,055 | 292,769 | 0,255 | 0,000 | 320,765 |
| **307** | Prievidza | 138,923 | 21,477 | 328,981 | 4,250 | 0,000 | 493,631 |
| **308** | Púchov | 10,040 | 12,361 | 250,835 | 1,911 | 0,000 | 275,147 |
| **309** | Trenčín | 13,550 | 27,527 | 166,543 | 4,602 | 0,000 | 212,222 |
| **401** | Komárno | 20,956 | 20,856 | 194,314 | 11,994 | 0,000 | 248,120 |
| **402** | Levice | 42,521 | 35,918 | 498,424 | 13,118 | 17,281 | 607,262 |
| **403** | Nitra | 27,219 | 25,875 | 142,328 | 13,292 | 37,699 | 246,413 |
| **404** | Nové Zámky | 9,728 | 27,020 | 287,527 | 15,181 | 32,408 | 371,863 |
| **405** | Šaľa | 66,607 | 6,846 | 58,924 | 2,754 | 0,000 | 135,131 |
| **406** | Topoľčany | 22,954 | 13,110 | 91,683 | 7,430 | 0,000 | 135,177 |
| **407** | Zlaté Moravce | 8,942 | 13,122 | 116,220 | 2,322 | 0,000 | 140,605 |
| **501** | Bytča | 3,636 | 14,123 | 198,973 | 0,179 | 0,000 | 216,911 |
| **502** | Čadca | 4,484 | 28,511 | 585,231 | 1,085 | 0,000 | 619,310 |
| **503** | Dolný Kubín | 49,813 | 20,830 | 151,429 | 1,711 | 0,000 | 223,783 |
| **504** | Kysucké Nové Mesto | 6,223 | 7,994 | 120,788 | 0,217 | 1,259 | 136,481 |
| **505** | Liptovský Mikuláš | 29,293 | 49,976 | 294,594 | 6,420 | 0,697 | 380,980 |
| **506** | Martin | 14,384 | 30,006 | 221,728 | 2,027 | 0,000 | 268,144 |
| **507** | Námestovo | 10,506 | 20,117 | 574,512 | 4,045 | 0,000 | 609,180 |
| **508** | Ružomberok | 35,543 | 19,806 | 337,896 | 1,595 | 0,000 | 394,841 |
| **509** | Turčianske Teplice | 0,869 | 16,607 | 106,363 | 2,595 | 0,000 | 126,434 |
| **510** | Tvrdošín | 5,697 | 15,825 | 85,380 | 1,777 | 0,000 | 108,679 |
| **511** | Žilina | 21,272 | 45,767 | 405,463 | 1,533 | 9,057 | 483,092 |
| **601** | Banská Bystrica | 19,230 | 14,491 | 256,412 | 1,336 | 0,000 | 291,469 |
| **602** | Banská Štiavnica | 0,696 | 6,250 | 125,164 | 0,849 | 0,000 | 132,958 |
| **603** | Brezno | 20,624 | 12,028 | 300,598 | 2,624 | 0,000 | 335,875 |
| **604** | Detva | 40,022 | 8,068 | 205,242 | 0,948 | 0,000 | 254,279 |
| **605** | Krupina | 2,840 | 11,398 | 179,477 | 1,481 | 0,000 | 195,197 |
| **606** | Lučenec | 8,732 | 17,649 | 311,162 | 5,719 | 0,000 | 343,262 |
| **607** | Poltár | 5,306 | 7,618 | 103,981 | 1,707 | 0,000 | 118,612 |
| **608** | Revúca | 6,437 | 12,247 | 241,359 | 2,181 | 0,000 | 262,224 |
| **609** | Rimavská Sobota | 8,162 | 26,029 | 554,763 | 7,308 | 0,000 | 596,262 |
| **610** | Veľký Krtíš | 11,719 | 19,460 | 253,090 | 5,727 | 0,000 | 289,995 |
| **611** | Zvolen | 34,242 | 13,504 | 157,905 | 2,806 | 0,000 | 208,456 |
| **612** | Žarnovica | 30,416 | 9,567 | 222,193 | 0,558 | 0,000 | 262,734 |
| **613** | Žiar nad Hronom | 207,618 | 13,451 | 184,758 | 1,278 | 0,469 | 407,575 |
| **701** | Bardejov | 10,458 | 15,267 | 205,112 | 1,452 | 0,000 | 232,288 |
| **702** | Humenné | 3,742 | 9,949 | 168,515 | 2,436 | 0,000 | 184,642 |
| **703** | Kežmarok | 6,053 | 9,602 | 212,300 | 1,658 | 0,000 | 229,613 |
| **704** | Levoča | 1,159 | 10,444 | 105,528 | 1,675 | 0,000 | 118,805 |
| **705** | Medzilaborce | 6,119 | 5,543 | 91,632 | 2,127 | 0,000 | 105,421 |
| **706** | Poprad | 13,519 | 17,354 | 133,954 | 2,430 | 0,000 | 167,257 |
| **707** | Prešov | 10,965 | 23,057 | 228,858 | 3,776 | 0,469 | 267,125 |
| **708** | Sabinov | 1,757 | 7,771 | 201,920 | 0,253 | 0,000 | 211,702 |
| **709** | Snina | 11,799 | 8,123 | 208,861 | 2,758 | 0,000 | 231,542 |
| **710** | Stará Ľubovňa | 1,942 | 10,291 | 261,645 | 2,754 | 0,000 | 276,633 |
| **711** | Stropkov | 0,224 | 7,340 | 72,106 | 1,752 | 0,000 | 81,423 |
| **712** | Svidník | 2,552 | 10,655 | 134,038 | 0,840 | 0,000 | 148,086 |
| **713** | Vranov nad Topľou | 11,058 | 12,957 | 168,657 | 4,727 | 0,000 | 197,398 |
| **801** | Gelnica | 2,887 | 7,435 | 198,728 | 1,237 | 0,000 | 210,286 |
| **802** | Košice I | 1,372 | 2,641 | 9,216 | 0,002 | 22,328 | 35,559 |
| **803** | Košice II | 363,128 | 3,704 | 5,292 | 0,574 | 0,000 | 372,698 |
| **804** | Košice III | 0,023 | 1,540 | 0,937 | 0,000 | 0,000 | 2,500 |
| **805** | Košice IV | 6,789 | 2,599 | 7,117 | 0,000 | 0,000 | 16,505 |
| **806** | Košice-okolie | 33,301 | 35,194 | 385,038 | 4,354 | 0,000 | 457,887 |
| **807** | Michalovce | 97,230 | 22,674 | 68,787 | 2,480 | 0,000 | 191,170 |
| **808** | Rožňava | 7,213 | 18,006 | 442,239 | 1,834 | 0,000 | 469,292 |
| **809** | Sobrance | 1,746 | 10,090 | 86,075 | 0,565 | 0,000 | 98,477 |
| **810** | Spišská Nová Ves | 9,299 | 12,253 | 177,450 | 2,986 | 0,000 | 201,988 |
| **811** | Trebišov | 5,172 | 25,763 | 187,254 | 5,158 | 0,000 | 223,347 |
| Spolu | | 1921,220 | 1418,740 | 14070,212 | 248,999 | 166,426 | 17825,597 |

### 2.6 Emisie CO

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| --- | --- | --- | --- | --- | --- | --- | --- |
| **Kód okresu** | **Názov okresu** | **NEIS** | **Doprava** | **Domácnosti** | **Poľnohospodárstvo** | **Odpady** | **Spolu** |
| **101** | Bratislava I | 13,774 | 70,901 | 34,692 | 0,000 | 0,000 | 119,367 |
| **102** | Bratislava II | 443,887 | 243,167 | 169,757 | 0,000 | 0,000 | 856,810 |
| **103** | Bratislava III | 203,121 | 118,527 | 98,145 | 0,000 | 0,000 | 419,792 |
| **104** | Bratislava IV | 46,522 | 195,208 | 124,378 | 0,000 | 1,336 | 367,443 |
| **105** | Bratislava V | 39,565 | 341,890 | 50,301 | 0,000 | 0,000 | 431,756 |
| **106** | Malacky | 2004,048 | 937,223 | 1092,651 | 0,000 | 0,000 | 4033,923 |
| **107** | Pezinok | 88,646 | 417,129 | 556,935 | 0,000 | 0,000 | 1062,709 |
| **108** | Senec | 21,028 | 777,439 | 518,743 | 0,000 | 0,000 | 1317,209 |
| **201** | Dunajská Streda | 92,663 | 784,131 | 2004,771 | 0,000 | 0,000 | 2881,565 |
| **202** | Galanta | 78,998 | 479,181 | 1294,546 | 0,000 | 0,000 | 1852,726 |
| **203** | Hlohovec | 193,696 | 233,511 | 634,996 | 0,000 | 0,000 | 1062,204 |
| **204** | Piešťany | 13,164 | 268,412 | 1205,587 | 0,000 | 0,000 | 1487,162 |
| **205** | Senica | 166,356 | 461,812 | 1776,877 | 0,000 | 0,000 | 2405,046 |
| **206** | Skalica | 10,080 | 215,291 | 1131,396 | 0,000 | 0,000 | 1356,766 |
| **207** | Trnava | 145,739 | 553,229 | 1105,773 | 0,000 | 0,000 | 1804,741 |
| **301** | Bánovce nad Bebravou | 14,720 | 224,967 | 1261,756 | 0,000 | 0,000 | 1501,443 |
| **302** | Ilava | 1458,074 | 205,791 | 1208,967 | 0,000 | 0,000 | 2872,832 |
| **303** | Myjava | 77,619 | 283,157 | 1864,184 | 0,000 | 0,000 | 2224,961 |
| **304** | Nové Mesto nad Váhom | 23,072 | 360,015 | 1728,183 | 0,000 | 0,000 | 2111,270 |
| **305** | Partizánske | 147,192 | 150,154 | 803,430 | 0,000 | 0,000 | 1100,775 |
| **306** | Považská Bystrica | 87,051 | 263,958 | 3203,850 | 0,000 | 0,000 | 3554,859 |
| **307** | Prievidza | 610,058 | 353,100 | 3602,195 | 0,000 | 0,012 | 4565,365 |
| **308** | Púchov | 71,700 | 203,228 | 2744,681 | 0,000 | 0,000 | 3019,610 |
| **309** | Trenčín | 4598,620 | 452,574 | 1825,444 | 0,000 | 0,000 | 6876,638 |
| **401** | Komárno | 87,408 | 401,150 | 2130,224 | 0,000 | 0,000 | 2618,781 |
| **402** | Levice | 101,322 | 690,858 | 5455,081 | 0,000 | 0,516 | 6247,776 |
| **403** | Nitra | 1541,814 | 497,690 | 1562,516 | 0,000 | 1,125 | 3603,145 |
| **404** | Nové Zámky | 193,570 | 519,701 | 3151,024 | 0,000 | 0,967 | 3865,261 |
| **405** | Šaľa | 113,321 | 131,674 | 646,689 | 0,000 | 0,000 | 891,684 |
| **406** | Topoľčany | 43,275 | 252,164 | 1005,468 | 0,000 | 0,000 | 1300,908 |
| **407** | Zlaté Moravce | 145,031 | 252,388 | 1272,890 | 0,000 | 0,000 | 1670,309 |
| **501** | Bytča | 6,279 | 146,725 | 2177,319 | 0,000 | 0,000 | 2330,322 |
| **502** | Čadca | 157,931 | 296,206 | 6403,121 | 0,000 | 0,000 | 6857,258 |
| **503** | Dolný Kubín | 1014,258 | 216,411 | 1656,822 | 0,000 | 0,000 | 2887,490 |
| **504** | Kysucké Nové Mesto | 24,682 | 83,048 | 1322,123 | 0,000 | 0,163 | 1430,016 |
| **505** | Liptovský Mikuláš | 310,760 | 519,213 | 3223,584 | 0,000 | 0,090 | 4053,648 |
| **506** | Martin | 104,298 | 311,740 | 2427,336 | 0,000 | 0,389 | 2843,762 |
| **507** | Námestovo | 62,957 | 209,003 | 6284,234 | 0,000 | 0,000 | 6556,194 |
| **508** | Ružomberok | 482,895 | 205,770 | 3696,799 | 0,000 | 0,000 | 4385,464 |
| **509** | Turčianske Teplice | 30,840 | 172,534 | 1163,878 | 0,000 | 0,000 | 1367,251 |
| **510** | Tvrdošín | 15,867 | 164,407 | 934,695 | 0,000 | 0,000 | 1114,969 |
| **511** | Žilina | 142,059 | 475,485 | 4440,591 | 0,000 | 0,270 | 5058,406 |
| **601** | Banská Bystrica | 162,139 | 237,514 | 2806,793 | 0,000 | 0,000 | 3206,447 |
| **602** | Banská Štiavnica | 7,067 | 102,443 | 1369,258 | 0,000 | 0,000 | 1478,768 |
| **603** | Brezno | 256,064 | 197,150 | 3289,250 | 0,000 | 0,000 | 3742,464 |
| **604** | Detva | 60,303 | 132,234 | 2245,595 | 0,000 | 0,000 | 2438,132 |
| **605** | Krupina | 34,131 | 186,820 | 1963,428 | 0,000 | 0,000 | 2184,379 |
| **606** | Lučenec | 22,760 | 289,268 | 3405,332 | 0,000 | 0,000 | 3717,360 |
| **607** | Poltár | 69,634 | 124,853 | 1137,858 | 0,000 | 0,000 | 1332,346 |
| **608** | Revúca | 389,333 | 200,724 | 2640,452 | 0,000 | 0,000 | 3230,510 |
| **609** | Rimavská Sobota | 198,278 | 426,621 | 6069,244 | 0,000 | 0,000 | 6694,142 |
| **610** | Veľký Krtíš | 67,981 | 318,950 | 2769,320 | 0,000 | 0,000 | 3156,251 |
| **611** | Zvolen | 175,421 | 221,341 | 1728,730 | 0,000 | 0,000 | 2125,492 |
| **612** | Žarnovica | 117,890 | 156,809 | 2430,869 | 0,000 | 0,000 | 2705,567 |
| **613** | Žiar nad Hronom | 16153,005 | 220,472 | 2021,780 | 0,000 | 0,061 | 18395,317 |
| **701** | Bardejov | 24,501 | 272,373 | 2244,495 | 0,000 | 0,000 | 2541,368 |
| **702** | Humenné | 29,558 | 177,502 | 1843,918 | 0,000 | 0,000 | 2050,978 |
| **703** | Kežmarok | 37,317 | 171,310 | 2323,558 | 0,000 | 0,000 | 2532,185 |
| **704** | Levoča | 49,512 | 186,326 | 1154,760 | 0,000 | 0,000 | 1390,598 |
| **705** | Medzilaborce | 2,188 | 98,891 | 1002,364 | 0,000 | 0,000 | 1103,444 |
| **706** | Poprad | 128,676 | 309,610 | 1467,089 | 0,000 | 0,000 | 1905,375 |
| **707** | Prešov | 457,872 | 411,362 | 2505,803 | 0,000 | 0,061 | 3375,097 |
| **708** | Sabinov | 10,844 | 138,642 | 2209,446 | 0,000 | 0,000 | 2358,932 |
| **709** | Snina | 72,387 | 144,914 | 2284,877 | 0,000 | 0,000 | 2502,178 |
| **710** | Stará Ľubovňa | 6,592 | 183,610 | 2862,738 | 0,000 | 0,000 | 3052,940 |
| **711** | Stropkov | 1,287 | 130,960 | 788,982 | 0,000 | 0,000 | 921,229 |
| **712** | Svidník | 7,188 | 190,104 | 1466,483 | 0,000 | 0,000 | 1663,774 |
| **713** | Vranov nad Topľou | 539,634 | 231,158 | 1845,858 | 0,000 | 0,000 | 2616,650 |
| **801** | Gelnica | 13,023 | 107,572 | 2174,048 | 0,000 | 0,000 | 2294,644 |
| **802** | Košice I | 4,609 | 38,217 | 101,711 | 0,000 | 0,666 | 145,203 |
| **803** | Košice II | 66858,546 | 53,591 | 58,535 | 0,000 | 0,000 | 66970,673 |
| **804** | Košice III | 0,138 | 22,279 | 10,417 | 0,000 | 0,000 | 32,834 |
| **805** | Košice IV | 74,351 | 37,603 | 78,582 | 0,000 | 0,000 | 190,536 |
| **806** | Košice-okolie | 531,034 | 509,222 | 4214,125 | 0,000 | 0,000 | 5254,381 |
| **807** | Michalovce | 531,099 | 328,064 | 754,500 | 0,000 | 0,000 | 1613,664 |
| **808** | Rožňava | 31,926 | 260,521 | 4837,835 | 0,000 | 0,000 | 5130,283 |
| **809** | Sobrance | 27,409 | 145,994 | 941,892 | 0,000 | 0,000 | 1115,295 |
| **810** | Spišská Nová Ves | 1229,099 | 177,289 | 1942,107 | 0,000 | 0,000 | 3348,494 |
| **811** | Trebišov | 45,176 | 372,761 | 2050,270 | 0,000 | 0,000 | 2468,207 |
| Spolu | | 103655,933 | 21655,233 | 154038,931 | 0,000 | 5,655 | 279355,752 |

# Metodika k spracovaniu regionálnej inventúry emisií vybraných znečisťujúcich látok po okresoch Slovenska za rok 2019

Emisie vybraných znečisťujúcich látok (ZL) boli priestorovo rozdelené na základe metodiky používanej pre nahlasovanie emisií v rámci dohovoru CLRTAP a smernice o emisných stropoch, kde sa reportované národné emisie priestorovo rozdeľujú do siete EMEP Grid. Metodika na priestorové rozdelenie je odporúčaná v EMEP/EEA Emission Inventory Guidebook 2016[[1]](#footnote-1).

## PRIESTOROVÉ ROZDELENÉ EMISIÍ PO SEKTOROCH ZA ROK 2019

Priestorové rozdelenie emisií po sektoroch obsahuje informácie o emisiách, ktoré sú alokované do okresov podľa výskytu zdroja znečisťovania ovzdušia. Súbor obsahuje podrobnejšie dáta po sektoroch, ZL a okresoch.

### 1.1 Energetika a priemysel

Emisie ZL v sektoroch energetika a priemysel boli rozdelené na základe dostupných údajov z Národného emisného informačného systému (NEIS), kde sa nachádzajú údaje o veľkých a stredne veľkých zdrojoch znečisťovania ovzdušia. Na základe údajov o príslušnosti k okresom a množstva emisií boli vytvorené sumy za každú ZL.

### 1.2 Doprava

Emisie z cestnej dopravy boli priestorovo rozdelené na základe údajov o dĺžke cestnej siete a intenzite dopravy v jednotlivých okresoch SR. Ako podklad boli použité aj údaje z modelovania kvality ovzdušia s rozdelením emisií na základe intenzít dopravy, pripravené v spolupráci s Centrom dopravního výskumu Brno (CDV). Tieto emisie však neboli totožné s emisiami v národnej emisnej inventúre Slovenska, preto museli byť ešte parametrizované na základe týchto dát.

Emisie z necestnej dopravy tvoria menšiu časť emisií z dopravy a boli rozdelené na základe polohy letísk, prístavov, železničných uzlov, dĺžky pobrežia Dunaja a dĺžky trás neelektrifikovanej železnice.

### 1.3 Domácnosti – lokálne kúreniská

Priestorové rozdelenie emisií zo spaľovania v domácnostiach bolo vypočítané na základe údajoch o bytoch a spotrebe paliva domácností v jednotlivých okresoch. Údaje o tuhých palivách po okresoch boli dostupné v NEIS-e. Na základe historických trendov spotreby zemného plynu v okresoch boli odhadnuté spotreby biomasy (hlavne drevo) vo všetkých okresoch. Následne boli z údajov o palivách odhadnuté emisie v jednotlivých okresoch.

### 1.4 Poľnohospodárstvo

Údaje o emisiách z poľnohospodárstva boli rozdelené podľa podrobných informácií o chove hospodárskych zvierat a použití hnojív v rozdelení na okresy Slovenska.

### 1.5 Odpady

Emisie zo skládkovania odpadov boli rozdelené na základe štatistickej ročenky Odpady v Slovenskej republike. V uvedenej ročenke sú údaje o odpadoch rozdelené podľa kraju, v ktorom odpad vznikol a jednotlivých kategórií odpadov podľa katalógu odpadov[[2]](#footnote-2). Pre získanie údajov rozdelených na okresy bol použitý informačný systém RISO[[3]](#footnote-3). Z IS RISO bol použitý podiel odpadov v jednotlivých okresoch kraja.

Emisie z kompostovania boli rozdelené do okresov na základe hustoty obyvateľstva.

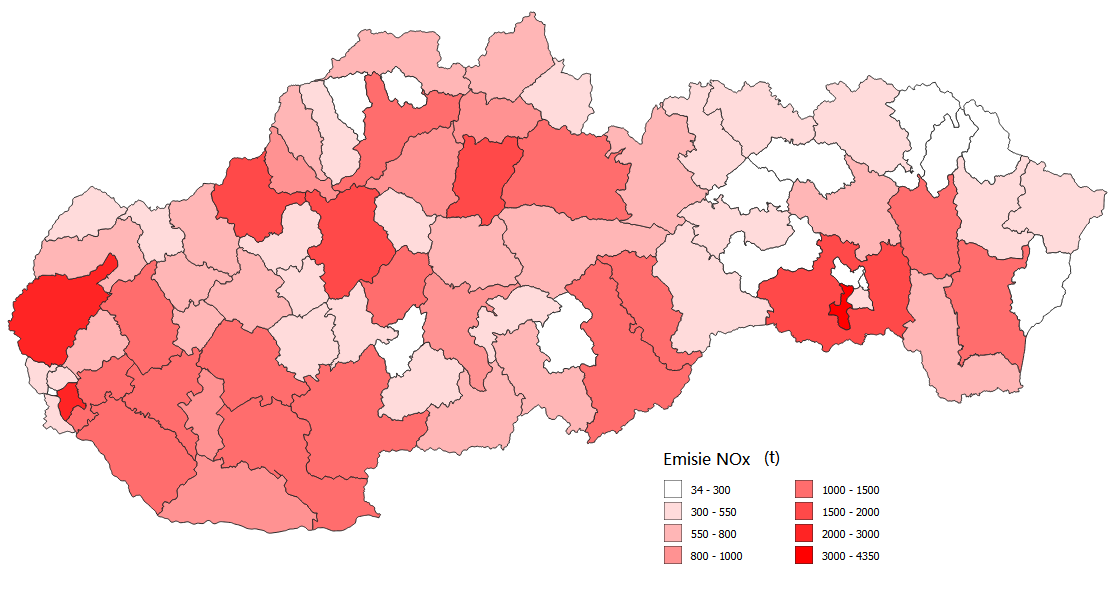
Emisie zo spaľovania odpadov, bioplynových staníc a spracovania odpadových vôd boli rozdelené do okresov na základe údajov o ich polohe z databázy NEIS.

## PRIESTOROVÉ ROZDELENIE PO ZNEČISŤUJÚCICH LÁTKACH ZA ROK 2019

### 2.1 Emisie NOX

Okresy s najvyššími emisiami NOX majú na svojom území zvýšenú intenzitu priemyselnej výroby a veľkú intenzitu dopravy. Najvyššie emisie má okres Košice II, v ktorom sa nachádza areál železiarní U.S. Steel, a. s. a pridružených výrob. Vysoké hodnoty emisií NOX sú aj v okresoch Bratislava II a Malacky, kde svoju rolu zohrali tiež veľké priemyselné podniky, rafinéria a cementáreň a príspevok intenzívnej dopravy.

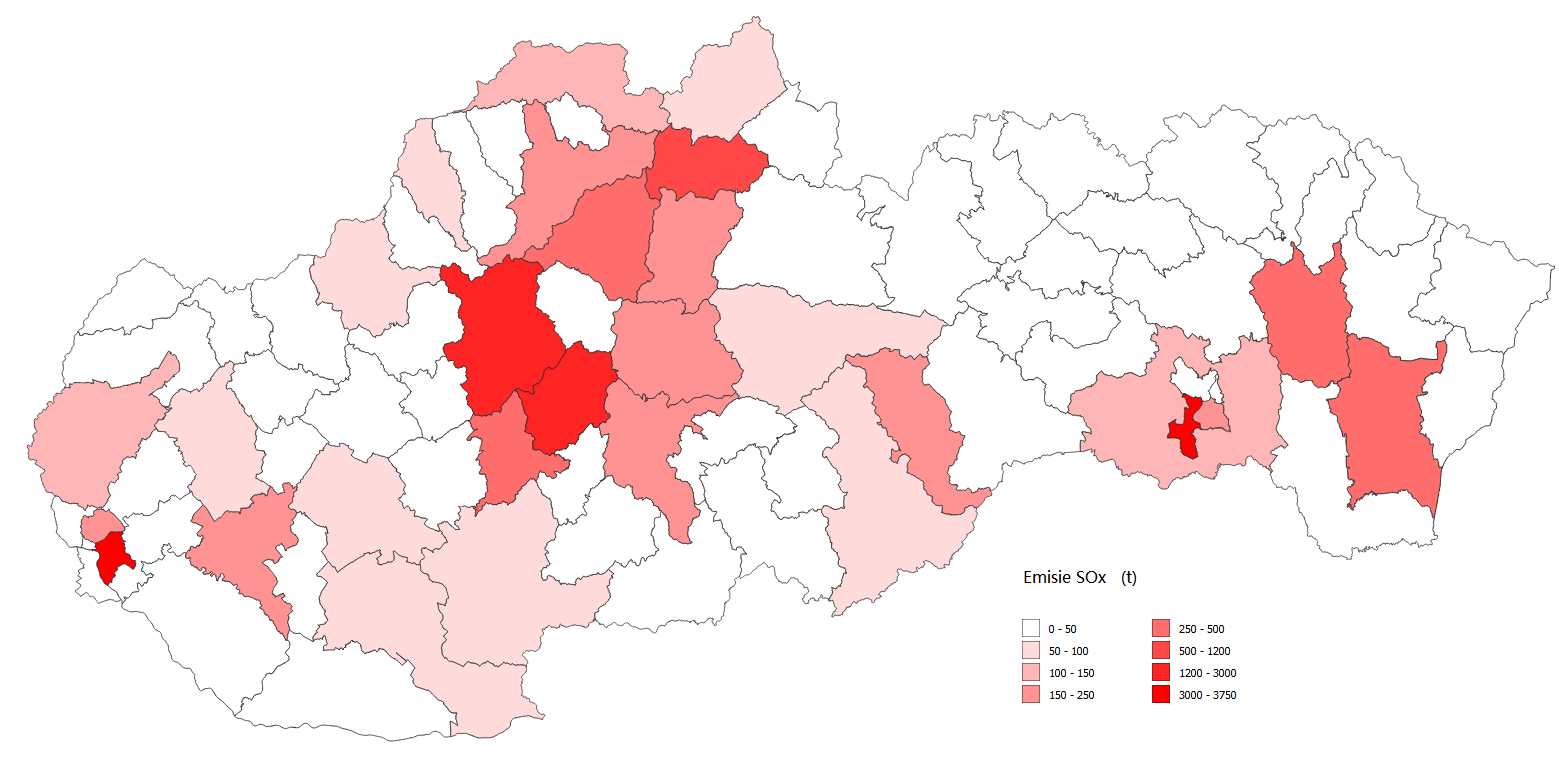
**Obr. 1:** Priestorové rozdelenie emisií NOX podľa okresov SR.



### 2.2 Emisie SOX

Priestorové rozloženie emisií oxidov síry je relatívne nerovnomerné. Najväčší podiel emisií patrí energetike, priemyslu a domácnostiam. Emisie z domácností sú rozložené relatívne rovnomerne na všetky okresy SR. Veľké priestorové rozdiely, ktoré sú evidentné z Obr. 2, pochádzajú z veľkých priemyselných a energetický podnikov. Najvyššie emisie majú opäť okresy Bratislava II a Košice II. Výrazne vysoké emisie oxidov síry majú aj okresy Žiar nad Hronom a Prievidza.

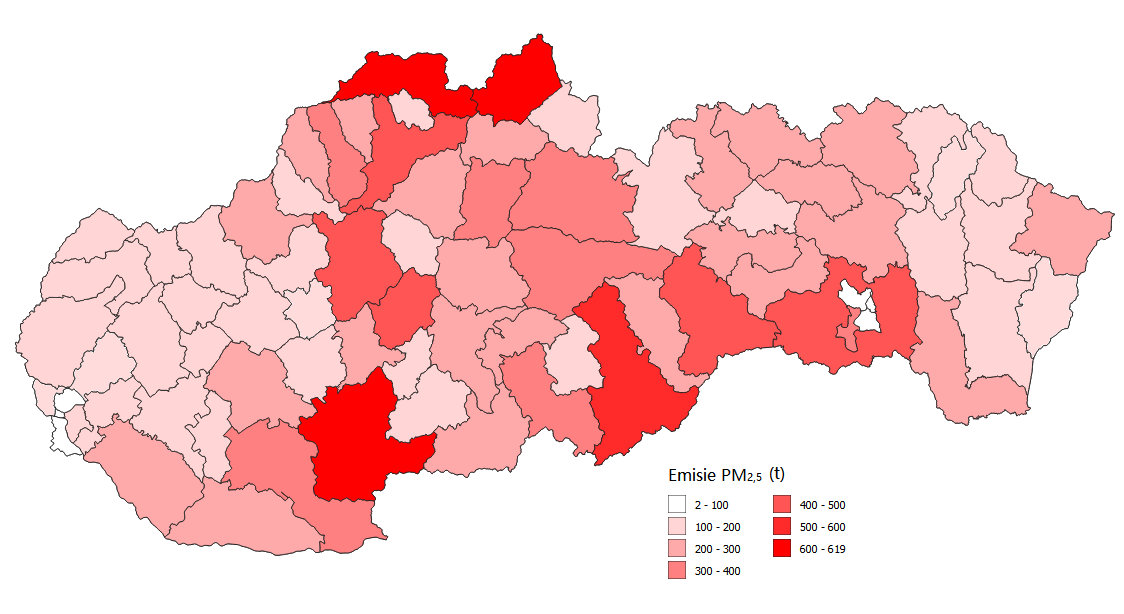
**Obr. 2:** Priestorové rozdelenie emisií SOX podľa okresov SR.



### 2.3 Emisie PM2,5

Na Obr. 3, sú znázornené emisie PM2,5 po okresoch. V podstate rovnaké rozloženie platí aj pre emisie ostatných tuhých častíc. Najväčší vplyv na hodnoty emisií má sektor domácností (viac ako 80 %). Emisie sú ovplyvnené najmä množstvom a druhom tuhého paliva spáleného po okresoch SR.

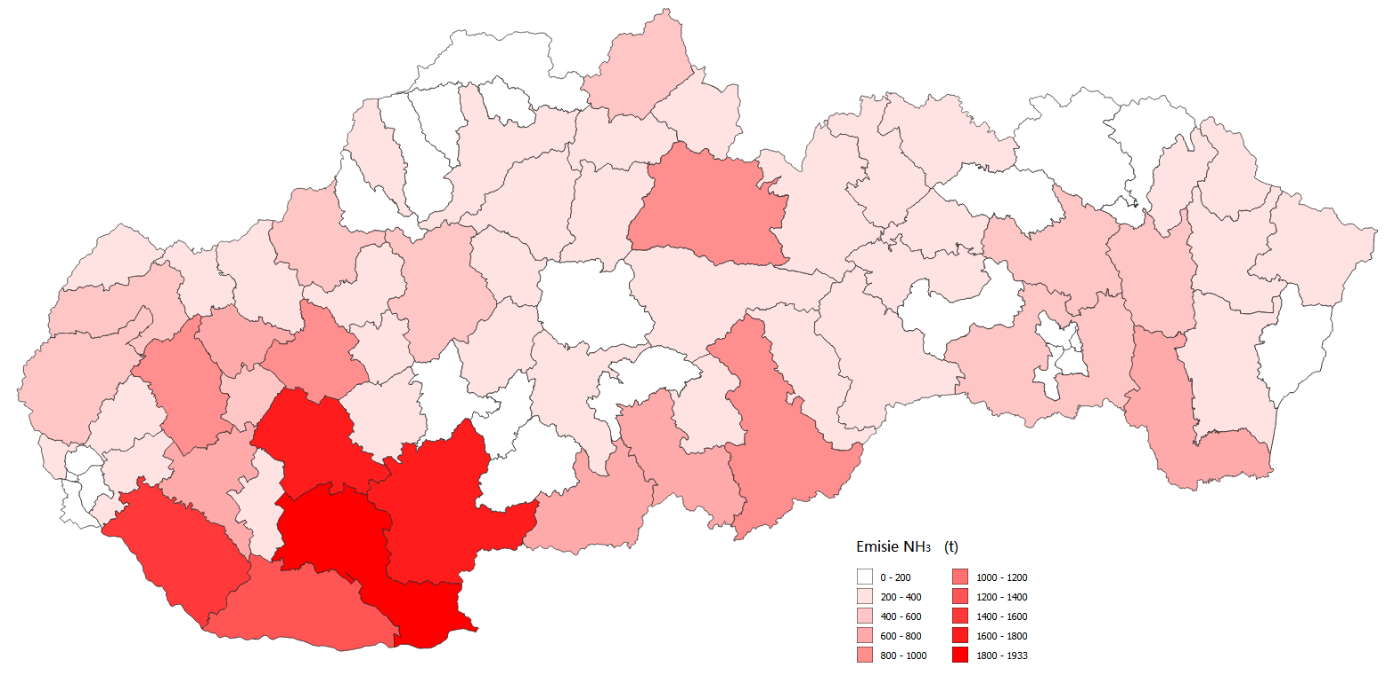
**Obr. 3:** Priestorové rozdelenie emisií PM2,5 podľa okresov SR.



### 2.4 Emisie NH3

Emisie amoniaku sú v najväčšej miere ovplyvnené aktivitami v poľnohospodárstve. Na Obr. 4 je vidieť, že najintenzívnejšie využívanie pôdy pre poľnohospodárske účely prebieha na juhozápade krajiny a kopíruje Podunajskú nížinu.

**Obr. 4** Priestorové rozdelenie emisií NH3 podľa okresov SR.



# Summary

This report describes the methodology and results of the regional disaggregation of data of reported emissions of 5 air pollutants NOx, SOx, NH3, PM2,5, TSP and CO in the Slovak Republic in the year 2019. Emissions from large and medium sources were disaggregated using NEIS database which contains information about air pollutants from every operator of such source in Slovakia.

Transport emissions regional disaggregation was based on data on the length of the road network and traffic intensity in individual districts of the Slovak Republic. Data from air quality modelling with emission distribution based on traffic intensities, prepared in cooperation with the Brno Transport Research Center (CDV), were also used as a basis.

Households emissions were calculated on the basis of data on dwellings and fuel consumption of households in individual districts. District solid fuel data were available in the NEIS. Based on historical trends in natural gas consumption in the districts, biomass consumption (mainly wood) was estimated in all districts.

Agricultural emissions were divided according to detailed information on livestock breeding and fertilizer use divided into districts of Slovakia.

Emissions from the disposal of waste on land were regionally allocated on the basis of the data of RISO database (database collects data on waste production and treatment). Other activities were allocated using official statistics and information about the location from the NEIS database.

Date were disaggregated to the level of distcrits because information collected on households heating from the statistical survey from 2019 was of high quality.

1. <https://www.eea.europa.eu/themes/air/air-pollution-sources-1/emep-eea-air-pollutant-emission-inventory-guidebook/emep> [↑](#footnote-ref-1)
2. <https://www.isoh.gov.sk/uvod/registre/ciselnik_katalog_odpadu.html> [↑](#footnote-ref-2)
3. <http://cms.enviroportal.sk/odpady/verejne-informacie.php> [↑](#footnote-ref-3)