Model Comparison

|  |  |  |  |
| --- | --- | --- | --- |
|  | (1) | (2) | (3) |
| Dep. Variable | Log\_PM25 | Log\_PM25 | Log\_PM25 |
| Estimator | IV-2SLS | IV-2SLS | IV-2SLS |
| No. Observations | 1276 | 1276 | 1276 |
| Cov. Est. | robust | robust | robust |
| R-squared | -10.925 | -9.7329 | -25.047 |
| Adj. R-squared | -12.118 | -10.817 | -27.778 |
| F-statistic | 1.233e+04 | 1.256e+04 | 7194.2 |
| P-value (F-stat) | 0.0000 | 0.0000 | 0.0000 |
| ======================= | ============ | ============ | ============= |
| const | 6.8313\* | -6.8363 | -30.776 |
|  | (3.7547) | (12.826) | (52.677) |
| Id.1 | 1.0323 | 2.2361 | 5.3872 |
|  | (1.4136) | (2.3175) | (8.6655) |
| Id.2 | -0.0194 | 0.6339 | 2.1677 |
|  | (0.2443) | (0.8383) | (3.6546) |
| Id.3 | 0.7643 | 1.8443 | 4.5169 |
|  | (0.8166) | (1.7078) | (6.8785) |
| Id.4 | -0.2127\*\* | 0.3550 | 1.6253 |
|  | (0.0872) | (0.6218) | (2.8437) |
| Id.5 | -1.2266 | -0.3431 | 0.9808 |
|  | (0.7926) | (0.8143) | (2.3676) |
| Id.6 | 2.7070 | 7.4880 | 16.467 |
|  | (2.1360) | (6.4455) | (23.824) |
| Id.7 | 2.1262 | 2.0839 | 3.4702 |
|  | (2.2099) | (2.0699) | (5.4271) |
| Id.8 | 1.9656 | 2.1677 | 2.6908 |
|  | (1.8201) | (1.8555) | (3.7054) |
| Id.9 | 2.2420 | 2.4432 | 2.6752 |
|  | (2.1485) | (2.1649) | (3.6537) |
| Id.10 | 2.1480 | 2.1439 | 1.5541 |
|  | (2.1517) | (2.0372) | (2.1530) |
| Id.11 | 0.2991 | -0.2424 | -1.0669 |
|  | (0.4164) | (0.4928) | (1.6534) |
| Id.12 | 0.6189 | 0.8106 | 1.5715 |
|  | (0.6921) | (0.7890) | (2.3948) |
| Id.13 | 0.2586 | -0.3050 | -1.1247 |
|  | (0.3513) | (0.5152) | (1.7637) |
| Id.14 | 0.8614 | 0.1253 | -0.6629 |
|  | (1.1238) | (0.8968) | (1.1958) |
| Id.15 | 0.2535 | 1.3161 | 3.7889 |
|  | (0.5270) | (1.4676) | (6.1461) |
| Id.16 | 0.6762 | 0.9219 | 1.7283 |
|  | (0.7684) | (0.9019) | (2.6947) |
| Id.17 | -0.8898\*\*\* | -0.7531\*\*\* | -0.5482\* |
|  | (0.3308) | (0.2626) | (0.2850) |
| Id.18 | -1.7349 | -1.3488 | -1.2222 |
|  | (1.2138) | (0.9787) | (1.3282) |
| Id.19 | 0.0970 | 0.6457 | 2.2756 |
|  | (0.6941) | (1.0978) | (4.3273) |
| Id.20 | 0.4201 | 0.4820 | 1.3929 |
|  | (0.9065) | (0.8982) | (2.8731) |
| Id.21 | -0.2084\*\* | -1.1427 | -2.6682 |
|  | (0.1012) | (0.9576) | (3.6872) |
| Id.22 | -0.9551 | -1.2146 | -1.8729 |
|  | (0.5954) | (0.7543) | (2.2917) |
| Id.23 | 0.7888 | 0.4801 | 0.3773 |
|  | (1.0619) | (0.8665) | (1.0964) |
| Id.24 | -3.6898 | -2.8396 | -3.2994 |
|  | (3.4936) | (2.9219) | (5.1435) |
| Id.25 | 0.8377 | 0.9443 | 1.5219 |
|  | (0.8677) | (0.8914) | (2.3105) |
| Id.26 | -0.1348 | -0.1793\* | -0.1895 |
|  | (0.1266) | (0.1057) | (0.1636) |
| Id.27 | -2.5523 | -2.1988 | -2.9152 |
|  | (2.1533) | (1.8691) | (3.9494) |
| Id.28 | -0.0978 | 0.6342 | 2.4062 |
|  | (0.3036) | (0.9667) | (4.2432) |
| Id.29 | 0.8347 | 0.9468 | 1.7504 |
|  | (0.9296) | (0.9537) | (2.7833) |
| Id.30 | 1.2650 | 0.9673 | 1.0713 |
|  | (1.2182) | (1.0113) | (1.6451) |
| Id.31 | 1.3741 | 1.1921 | 1.0774 |
|  | (1.1062) | (0.9525) | (1.2330) |
| Id.32 | 0.2913 | 1.8386 | 5.4030 |
|  | (0.8302) | (2.1862) | (8.9404) |
| Id.33 | -2.2884 | -1.5795 | -1.3596 |
|  | (2.4935) | (2.0865) | (2.9324) |
| Id.34 | -3.2627 | -2.1145 | -1.8677 |
|  | (3.2906) | (2.6607) | (3.7467) |
| Id.35 | -8.5351 | -7.3809 | -10.259 |
|  | (8.2038) | (7.1591) | (15.654) |
| Id.36 | 1.5151 | 5.4318 | 13.927 |
|  | (1.3433) | (4.9603) | (20.802) |
| Id.37 | -3.9136 | -1.7482 | 0.0864 |
|  | (3.7229) | (2.9254) | (3.3207) |
| Id.38 | -3.4367 | -2.0892 | -1.5596 |
|  | (3.4251) | (2.7404) | (3.5153) |
| Id.39 | -7.2188 | -6.6054 | -9.7037 |
|  | (6.9725) | (6.2694) | (14.700) |
| Id.40 | -1.7159 | 0.7227 | 4.4073 |
|  | (1.8699) | (2.0716) | (7.0274) |
| Id.41 | -2.0005 | -1.3410 | -1.1511 |
|  | (2.1079) | (1.7350) | (2.4100) |
| Id.42 | -7.6017 | -4.8835 | -4.5115 |
|  | (7.4995) | (5.9756) | (8.5563) |
| Id.43 | -7.8593 | -3.3660 | 0.2067 |
|  | (7.8189) | (5.8849) | (5.9860) |
| Id.44 | -2.7063 | -2.7293 | -3.9642 |
|  | (2.5384) | (2.4188) | (5.7733) |
| Id.45 | -3.1475 | -3.4343 | -5.3394 |
|  | (2.8294) | (2.8541) | (7.6108) |
| Id.46 | -0.6162 | 0.5758 | 2.5708 |
|  | (1.1560) | (1.1830) | (3.8865) |
| Id.47 | -7.0687 | -5.8858 | -7.6100 |
|  | (6.8425) | (5.8754) | (11.731) |
| Id.49 | 0.2273 | 0.8675 | 2.6064 |
|  | (0.2674) | (0.8451) | (4.0486) |
| Id.50 | -0.0868 | 0.3237 | 1.3413 |
|  | (0.1725) | (0.5247) | (2.4865) |
| Id.51 | 0.3113 | 1.0081 | 2.6424 |
|  | (0.3813) | (0.9818) | (4.1678) |
| Id.52 | -0.1656 | 0.4574 | 2.0184 |
|  | (0.3677) | (0.5687) | (2.7745) |
| Id.53 | 0.8662 | 1.3705 | 2.8601 |
|  | (0.7886) | (1.1387) | (4.2865) |
| Id.54 | 0.5729 | 1.3175 | 3.1147 |
|  | (0.3840) | (1.0363) | (4.4249) |
| Id.55 | -0.5383 | 0.1113 | 1.0998 |
|  | (0.5944) | (0.5968) | (1.8663) |
| Id.56 | 0.3727\* | 0.9600 | 2.4399 |
|  | (0.2096) | (0.7440) | (3.3890) |
| Id.57 | -0.3463 | 0.2158 | 1.5553 |
|  | (0.3266) | (0.5004) | (2.4540) |
| Id.58 | 0.0675 | 0.8898 | 2.5036 |
|  | (0.1127) | (0.9050) | (3.8791) |
| Id.60 | 2.2318 | 5.8803 | 13.967 |
|  | (1.7267) | (4.9864) | (20.481) |
| Id.61 | 0.4477\*\* | 1.0787 | 2.5591 |
|  | (0.1997) | (0.7771) | (3.4586) |
| Id.62 | 0.1094 | 0.7286 | 1.8595 |
|  | (0.1848) | (0.5917) | (2.4451) |
| Id.63 | 0.6375 | 1.1857 | 2.6781 |
|  | (0.4679) | (0.9076) | (3.8253) |
| Id.64 | 0.1120 | 0.8670 | 2.3731 |
|  | (0.0819) | (0.7863) | (3.4085) |
| Id.65 | 1.8330 | 4.5365 | 11.127 |
|  | (1.8484) | (4.1244) | (16.856) |
| Id.67 | 0.7250\*\*\* | 2.9417 | 7.1981 |
|  | (0.1788) | (2.4462) | (10.092) |
| Id.71 | 0.7266 | 2.0013 | 4.8114 |
|  | (0.6932) | (1.8078) | (7.2168) |
| Id.72 | 0.1192 | 1.8420 | 4.7966 |
|  | (0.3723) | (1.6580) | (6.6239) |
| Id.74 | 0.2936 | 1.4865 | 3.8887 |
|  | (0.2547) | (1.4128) | (5.8536) |
| Id.75 | 1.7511 | 2.2211 | 3.8265 |
|  | (1.2894) | (1.5602) | (5.1115) |
| Id.76 | 1.0840\*\* | 1.9217 | 3.7805 |
|  | (0.5259) | (1.2403) | (4.9030) |
| Id.77 | 1.3838 | 2.7309 | 6.0191 |
|  | (1.3117) | (2.3680) | (8.9699) |
| Id.78 | -0.0870 | 1.1370 | 3.4553 |
|  | (0.1109) | (1.2569) | (5.2884) |
| Id.80 | 0.5134\*\*\* | 1.5516 | 3.3995 |
|  | (0.0808) | (1.0841) | (4.3461) |
| Id.83 | 0.6568 | 1.9664 | 4.8498 |
|  | (0.5762) | (1.7568) | (7.2205) |
| Id.84 | 0.7736\*\* | 1.6749 | 3.4963 |
|  | (0.3022) | (1.1404) | (4.5926) |
| Id.85 | 0.1514 | 1.6334 | 4.2122 |
|  | (0.2713) | (1.4479) | (5.8639) |
| Id.87 | 1.0827\*\* | 2.2823 | 4.8386 |
|  | (0.5507) | (1.6258) | (6.5039) |
| Id.88 | -0.2927 | 0.6707 | 1.9922 |
|  | (0.7210) | (0.8504) | (2.6225) |
| Id.91 | -0.1703 | 1.6408 | 4.8184 |
|  | (0.3389) | (1.7644) | (7.1643) |
| Id.92 | 0.7472\* | 2.5205 | 6.0893 |
|  | (0.4503) | (2.1511) | (8.7627) |
| Id.95 | 0.8938\*\* | 1.8555 | 3.8226 |
|  | (0.3915) | (1.2661) | (4.9989) |
| Id.96 | 0.8877 | 1.7953 | 4.0391 |
|  | (0.7235) | (1.4634) | (5.8320) |
| Id.97 | 0.1874 | 1.0442 | 2.4289 |
|  | (0.3012) | (0.7891) | (3.0732) |
| Id.98 | -0.2897 | 1.1041 | 3.7672 |
|  | (0.2544) | (1.3636) | (5.8534) |
| Id.101 | 0.8451 | 3.4431 | 8.7525 |
|  | (0.6193) | (3.1269) | (12.934) |
| Id.102 | 0.8993 | 2.8996 | 7.1209 |
|  | (0.7131) | (2.5668) | (10.498) |
| Id.103 | 0.2724 | 2.1058 | 5.8005 |
|  | (0.1695) | (2.0337) | (8.6774) |
| Id.104 | 0.3879 | 1.8145 | 4.8513 |
|  | (0.4490) | (1.7879) | (7.4447) |
| Id.105 | 0.4133 | 1.9368 | 5.1007 |
|  | (0.2706) | (1.7708) | (7.5088) |
| Id.106 | 0.3127 | 1.5554 | 3.7057 |
|  | (0.2485) | (1.2070) | (4.8877) |
| Id.107 | 0.4494\*\*\* | 1.2762 | 2.7921 |
|  | (0.0872) | (0.9104) | (3.6632) |
| Id.109 | 0.0485 | 1.4686 | 3.8026 |
|  | (0.4170) | (1.3272) | (5.1592) |
| Id.110 | 0.5113\*\*\* | 1.4191 | 3.1168 |
|  | (0.1177) | (1.0197) | (4.1214) |
| Id.111 | 1.3897 | 3.0450 | 6.6878 |
|  | (0.8923) | (2.3422) | (9.3393) |
| Id.112 | 0.2394 | 1.4830 | 3.6120 |
|  | (0.2622) | (1.2027) | (4.8190) |
| Id.113 | 1.3162 | 3.8418 | 9.6035 |
|  | (1.3601) | (3.5734) | (14.605) |
| Id.114 | 0.2161\*\*\* | 1.5345 | 3.9794 |
|  | (0.0731) | (1.4047) | (5.7557) |
| Id.115 | 0.1940 | 1.3745 | 3.6891 |
|  | (0.1310) | (1.3158) | (5.5115) |
| Id.116 | -0.0865 | 1.4970 | 4.4963 |
|  | (0.0960) | (1.6471) | (6.9136) |
| Id.118 | 0.7683 | 2.2387 | 5.4613 |
|  | (0.7134) | (2.0215) | (8.1896) |
| Id.120 | 0.0248 | 1.1792 | 3.1752 |
|  | (0.2162) | (1.1291) | (4.5355) |
| Id.122 | 1.1559 | 3.6256 | 8.9783 |
|  | (0.9886) | (3.2456) | (13.364) |
| Id.123 | 0.6946 | 3.1714 | 8.1685 |
|  | (0.4940) | (2.9183) | (12.110) |
| Id.124 | 0.0942 | 2.9797 | 8.3153 |
|  | (0.2196) | (2.9557) | (12.271) |
| Id.125 | 0.7589\*\*\* | 2.2726 | 5.2432 |
|  | (0.2673) | (1.7590) | (7.2067) |
| Id.126 | -0.0766 | 1.5942 | 4.7941 |
|  | (0.1118) | (1.7308) | (7.3272) |
| Id.128 | 0.2611 | 2.5672 | 6.6992 |
|  | (0.2913) | (2.3075) | (9.4227) |
| Id.129 | 1.2985 | 2.3596 | 5.1693 |
|  | (1.1780) | (1.9853) | (7.6186) |
| Id.130 | 0.3384\* | 1.5374 | 3.6103 |
|  | (0.1918) | (1.1874) | (4.7506) |
| Id.132 | 0.9440 | 1.6983 | 3.7143 |
|  | (0.8933) | (1.4581) | (5.5169) |
| Id.134 | 0.5536\*\*\* | 1.2667 | 2.6166 |
|  | (0.1239) | (0.8188) | (3.3185) |
| Id.135 | 0.2301 | 1.5605 | 4.2143 |
|  | (0.1511) | (1.4897) | (6.2688) |
| Id.136 | -0.0160 | 1.6203 | 4.7696 |
|  | (0.0706) | (1.7361) | (7.3276) |
| Id.139 | 0.2357 | 1.4126 | 3.4108 |
|  | (0.2555) | (1.1362) | (4.5135) |
| Id.140 | 0.1001 | 1.2304 | 3.0886 |
|  | (0.3393) | (1.0556) | (4.1251) |
| Id.141 | 0.1822 | 1.5539 | 4.4197 |
|  | (0.2823) | (1.6185) | (6.8594) |
| Log\_Buses | -0.5917 | -0.5607 | -0.8821 |
|  | (0.5699) | (0.5222) | (1.3321) |
| Log\_green\_area |  | 0.5439 | 1.5872 |
|  |  | (0.5773) | (2.4223) |
| Average\_wind\_speed |  |  | -0.0522 |
|  |  |  | (0.1502) |
| Average\_precipitation |  |  | -0.0009 |
|  |  |  | (0.0015) |
| Maximum\_temperature |  |  | 0.0118 |
|  |  |  | (0.0539) |
| Motorcycles |  |  | 1.367e-07 |
|  |  |  | (2.313e-07) |
| ========================= | ================= | ================= | ================= |
| Instruments | Log\_urban\_areas | Log\_urban\_areas | Log\_urban\_areas |

Std. Errors reported in parentheses