

| dim | sigma | AIC | AICC | BIC | EBIC | cvlasso | cvridge | cvelastic | rlasso | lassoxdep | sqrt | sqrtxdep | Oracle |
|------------|-------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|-----------|--------------------|--------------------|--------------------|--------------------|---------------|
| \hat{s} | .5 | 35.42 | 24.66 | 21.67 | 20.84 | 25.31 | — | . | 20.29 | 20.35 | 20.24 | 20.27 | — |
| \hat{s} | 1 | 37.59 | 24.67 | 21.54 | 20.71 | 25.79 | — | . | 20.31 | 20.38 | 20.24 | 20.32 | — |
| \hat{s} | 2 | 40.39 | 24.03 | 20.94 | 19.98 | 24.64 | — | . | 19.78 | 19.89 | 19.69 | 19.74 | — |
| \hat{s} | 3 | 34.06 | 22.81 | 19.39 | 18.67 | 23.71 | — | . | 18.18 | 18.38 | 18.01 | 18.12 | — |
| \hat{s} | 5 | 32.37 | 20.78 | 16.69 | 15.34 | 21.74 | — | . | 15.23 | 15.5 | 14.77 | 15.04 | — |
| False pos. | .5 | 15.42 | 4.66 | 1.67 | .84 | 5.31 | — | . | .29 | .35 | .24 | .27 | — |
| False pos. | 1 | 17.59 | 4.67 | 1.54 | .71 | 5.79 | — | . | .31 | .38 | .24 | .32 | — |
| False pos. | 2 | 20.9 | 4.44 | 1.4 | .48 | 4.98 | — | . | .25 | .3 | .2 | .23 | — |
| False pos. | 3 | 15.8 | 4.51 | 1.23 | .69 | 5.26 | — | . | .26 | .38 | .22 | .25 | — |
| False pos. | 5 | 16.87 | 5.32 | 1.52 | .56 | 5.97 | — | . | .25 | .35 | .17 | .23 | — |
| False neg. | .5 | 0 | 0 | 0 | 0 | 0 | — | . | 0 | 0 | 0 | 0 | — |
| False neg. | 1 | 0 | 0 | 0 | 0 | 0 | — | . | 0 | 0 | 0 | 0 | — |
| False neg. | 2 | .51 | .41 | .46 | .5 | .34 | — | . | .47 | .41 | .51 | .49 | — |
| False neg. | 3 | 1.74 | 1.7 | 1.84 | 2.02 | 1.55 | — | . | 2.08 | 2 | 2.21 | 2.13 | — |
| False neg. | 5 | 4.5 | 4.54 | 4.83 | 5.22 | 4.23 | — | . | 5.02 | 4.85 | 5.4 | 5.19 | — |
| Bias | .5 | 2.959 (3.747) | 2.044 (2.253) | 1.953 (2.024) | 1.932 (1.956) | 2.024 (2.273) | 5.448 (—) | . | 1.977 (1.884) | 1.957 (1.896) | 2 (1.877) | 1.971 (1.881) | 1.845 (—) |
| Bias | 1 | 6.17 (8.015) | 4.015 (4.4) | 3.831 (3.921) | 3.801 (3.797) | 4.04 (4.602) | 7.635 (—) | . | 3.944 (3.724) | 3.904 (3.737) | 3.991 (3.711) | 3.932 (3.725) | 3.617 (—) |
| Bias | 2 | 13.99 (18.528) | 8.071 (8.843) | 7.745 (7.931) | 7.692 (7.593) | 8.022 (9.013) | 10.575 (—) | . | 7.903 (7.549) | 7.819 (7.529) | 7.995 (7.556) | 7.879 (7.529) | 7.427 (—) |
| Bias | 3 | 15.74 (20.753) | 10.83 (11.945) | 10.255 (10.573) | 10.257 (10.46) | 10.813 (12.215) | 12.011 (—) | . | 10.358 (10.341) | 10.288 (10.333) | 10.441 (10.415) | 10.338 (10.357) | 10.583 (—) |
| Bias | 5 | 24.851 (34.007) | 15.675 (18.327) | 14.341 (15.491) | 14.259 (15.324) | 15.466 (18.43) | 14.986 (—) | . | 14.092 (15.133) | 14.048 (15.024) | 14.182 (15.307) | 14.093 (15.106) | 17.92 (—) |
| RMSE | .5 | .213 (.251) | .19 (.21) | .192 (.186) | .199 (.176) | .188 (.211) | .271 (—) | . | .258 (.167) | .243 (.169) | .274 (.166) | .254 (.167) | .164 (—) |
| RMSE | 1 | .421 (.51) | .369 (.403) | .377 (.357) | .392 (.337) | .368 (.412) | .467 (—) | . | .508 (.325) | .478 (.327) | .539 (.323) | .5 (.326) | .319 (—) |
| RMSE | 2 | .876 (1.055) | .727 (.803) | .747 (.712) | .788 (.667) | .725 (.808) | .801 (—) | . | 1.007 (.654) | .949 (.653) | 1.071 (.655) | .991 (.653) | .642 (—) |
| RMSE | 3 | 1.198 (1.442) | 1.059 (1.156) | 1.112 (.999) | 1.175 (.971) | 1.066 (1.168) | 1.11 (—) | . | 1.5 (.937) | 1.41 (.94) | 1.594 (.942) | 1.476 (.937) | .951 (—) |
| RMSE | 5 | 1.93 (2.409) | 1.641 (1.92) | 1.671 (1.607) | 1.867 (1.509) | 1.617 (1.944) | 1.675 (—) | . | 2.289 (1.455) | 2.137 (1.459) | 2.454 (1.457) | 2.258 (1.451) | 1.607 (—) |
| RMSPE | .5 | .238 (.29) | .202 (.224) | .206 (.197) | .214 (.185) | .201 (.228) | .322 (—) | . | .274 (.175) | .258 (.177) | .291 (.174) | .27 (.174) | .172 (—) |
| RMSPE | 1 | .475 (.596) | .398 (.441) | .407 (.385) | .423 (.362) | .397 (.45) | .529 (—) | . | .537 (.349) | .505 (.351) | .57 (.347) | .528 (.35) | .341 (—) |
| RMSPE | 2 | 1.009 (1.258) | .797 (.883) | .819 (.771) | .865 (.714) | .797 (.896) | .868 (—) | . | 1.085 (.701) | 1.022 (.7) | 1.153 (.702) | 1.067 (.699) | .689 (—) |
| RMSPE | 3 | 1.305 (1.615) | 1.129 (1.231) | 1.192 (1.055) | 1.267 (1.025) | 1.136 (1.246) | 1.177 (—) | . | 1.583 (.986) | 1.489 (.988) | 1.683 (.992) | 1.558 (.986) | 1.007 (—) |
| RMSPE | 5 | 2.103 (2.676) | 1.75 (2.035) | 1.786 (1.691) | 2.006 (1.579) | 1.72 (2.064) | 1.738 (—) | . | 2.416 (1.526) | 2.255 (1.531) | 2.59 (1.528) | 2.384 (1.52) | 1.71 (—) |