

Table S4. The average differences for corn in 2000-2020 between estimated and HCSO yield data (t/ha) applying $h=1$ or 2 meteorological corrections. (The best results are in bold.)

| | $h = 1$ | | | | | $h = 2$ | | | | | | | | | |
|-------------|--------------|--------------|-------------|-------------|---------|---------|--------|--------|----------|----------|----------|----------|----------|-------|--|
| | $T_{\min-}$ | $T_{\min+}$ | $T_{\max-}$ | $T_{\max+}$ | $Prec-$ | $Prec+$ | $Rad-$ | $Rad+$ | SWC_1- | SWC_1+ | SWC_2- | SWC_2+ | SWC_3- | | |
| $T_{\min-}$ | 0.348 | | | | | | | | | | | | | | |
| $T_{\min+}$ | 0.407 | 0.298 | | | | | | | | | | | | | |
| $T_{\max-}$ | 0.360 | 0.357 | 0.346 | | | | | | | | | | | | |
| $T_{\max+}$ | 0.373 | 0.297 | 0.398 | 0.309 | | | | | | | | | | | |
| $Prec-$ | 0.390 | 0.351 | 0.346 | 0.322 | 0.352 | | | | | | | | | | |
| $Prec+$ | 0.378 | 0.321 | 0.338 | 0.318 | 0.302 | 0.369 | | | | | | | | | |
| $Rad-$ | 0.394 | 0.323 | 0.380 | 0.403 | 0.343 | 0.349 | 0.327 | | | | | | | | |
| $Rad+$ | 0.363 | 0.356 | 0.324 | 0.363 | 0.335 | 0.389 | 0.354 | 0.364 | | | | | | | |
| SWC_1- | 0.417 | 0.345 | 0.369 | 0.336 | 0.359 | 0.406 | 0.373 | 0.365 | 0.382 | | | | | | |
| SWC_1+ | 0.384 | 0.334 | 0.331 | 0.316 | 0.306 | 0.345 | 0.365 | 0.320 | 0.340 | 0.365 | | | | | |
| SWC_2- | 0.438 | 0.329 | 0.393 | 0.355 | 0.374 | 0.394 | 0.367 | 0.386 | 0.367 | 0.406 | 0.365 | | | | |
| SWC_2+ | 0.401 | 0.345 | 0.342 | 0.340 | 0.320 | 0.364 | 0.368 | 0.348 | 0.374 | 0.391 | 0.405 | 0.391 | | | |
| SWC_3- | 0.450 | 0.347 | 0.407 | 0.359 | 0.374 | 0.391 | 0.377 | 0.394 | 0.363 | 0.416 | 0.383 | 0.438 | 0.401 | | |
| SWC_3+ | 0.426 | 0.349 | 0.362 | 0.341 | 0.336 | 0.377 | 0.369 | 0.354 | 0.383 | 0.407 | 0.393 | 0.416 | 0.410 | 0.426 | |