**SUPPLEMENTARY MATERIAL**

**The full title:** Combining Multiple UAV-Based Indicators for Wheat Yield Estimation, a Case Study from Germany

**Journal name:** European Journal of Remote Sensing

Table S1. Linear regression

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| NDRE index | |
| |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | yield | Coef. | | St.Err. | t-value | | p-value | [95% Conf | | Interval] | Sig | | ndre\_20 | 20.597 | | 0.614 | 33.57 | | 0.000 | 19.392 | | 21.802 | \*\*\* | | Constant | -4.017 | | 0.291 | -13.81 | | 0.000 | -4.588 | | -3.446 | \*\*\* | |  | | | | | | | | | | | | Mean dependent var | | 5.712 | | | SD dependent var | | | 1.101 | | | R-squared | | 0.608 | | | Number of obs | | | 729.000 | | | Adj R-squared | | 0.607 | | | Root MSE | | | 0.68 | | | F-test | | 1126.809 | | | Prob > F | | | 0.000 | | | Akaike crit. (AIC) | | 1529.667 | | | Bayesian crit. (BIC) | | | 1538.851 | | |  | | | | | | | | | | | | *\*\*\* p<0.01, \*\* p<0.05, \* p<0.1* | | | | | | | | | | | |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | yield | Coef. | | St.Err. | t-value | | p-value | [95% Conf | | Interval] | Sig | | ndre\_16 | 21.740 | | 0.821 | 26.49 | | 0.000 | 20.129 | | 23.351 | \*\*\* | | Constant | -4.740 | | 0.396 | -11.98 | | 0.000 | -5.516 | | -3.963 | \*\*\* | |  | | | | | | | | | | | | Mean dependent var | | 5.712 | | | SD dependent var | | | 1.101 | | | R-squared | | 0.491 | | | Number of obs | | | 729.000 | | | Adj R-squared | | 0.490 | | | Root MSE | | | 0.78 | | | F-test | | 701.791 | | | Prob > F | | | 0.000 | | | Akaike crit. (AIC) | | 1719.509 | | | Bayesian crit. (BIC) | | | 1728.692 | | |  | | | | | | | | | | | | *\*\*\* p<0.01, \*\* p<0.05, \* p<0.1* | | | | | | | | | | |
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| |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | yield | Coef. | | St.Err. | t-value | | p-value | [95% Conf | | Interval] | Sig | | evi2\_20 | 7.048 | | 0.264 | 26.71 | | 0.000 | 6.530 | | 7.566 | \*\*\* | | Constant | -7.462 | | 0.494 | -15.10 | | 0.000 | -8.432 | | -6.492 | \*\*\* | |  | | | | | | | | | | | | Mean dependent var | | 5.712 | | | SD dependent var | | | 1.101 | | | R-squared | | 0.495 | | | Number of obs | | | 729.000 | | | Adj R-squared | | 0.494 | | | Root MSE | | | 0.78 | | | F-test | | 713.260 | | | Prob > F | | | 0.000 | | | Akaike crit. (AIC) | | 1713.681 | | | Bayesian crit. (BIC) | | | 1722.864 | | |  | | | | | | | | | | | | *\*\*\* p<0.01, \*\* p<0.05, \* p<0.1* | | | | | | | | | | | |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | yield | Coef. | | St.Err. | t-value | | p-value | [95% Conf | | Interval] | Sig | | evi2\_16 | 8.856 | | 0.362 | 24.45 | | 0.000 | 8.145 | | 9.568 | \*\*\* | | Constant | -11.262 | | 0.695 | -16.20 | | 0.000 | -12.626 | | -9.898 | \*\*\* | |  | | | | | | | | | | | | Mean dependent var | | 5.712 | | | SD dependent var | | | 1.101 | | | R-squared | | 0.451 | | | Number of obs | | | 729.000 | | | Adj R-squared | | 0.450 | | | Root MSE | | | 0.81 | | | F-test | | 597.590 | | | Prob > F | | | 0.000 | | | Akaike crit. (AIC) | | 1774.713 | | | Bayesian crit. (BIC) | | | 1783.896 | | |  | | | | | | | | | | | | *\*\*\* p<0.01, \*\* p<0.05, \* p<0.1* | | | | | | | | | | |
| GCVI | |
| |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | yield | Coef. | | St.Err. | t-value | | p-value | [95% Conf | | Interval] | Sig | | gcvi\_20 | 23.905 | | 0.762 | 31.36 | | 0.000 | 22.408 | | 25.401 | \*\*\* | | Constant | -11.284 | | 0.543 | -20.80 | | 0.000 | -12.350 | | -10.219 | \*\*\* | |  | | | | | | | | | | | | Mean dependent var | | 5.712 | | | SD dependent var | | | 1.101 | | | R-squared | | 0.575 | | | Number of obs | | | 729.000 | | | Adj R-squared | | 0.574 | | | Root MSE | | | 0.71 | | | F-test | | 983.547 | | | Prob > F | | | 0.000 | | | Akaike crit. (AIC) | | 1588.300 | | | Bayesian crit. (BIC) | | | 1597.483 | | |  | | | | | | | | | | | | *\*\*\* p<0.01, \*\* p<0.05, \* p<0.1* | | | | | | | | | | | |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | yield | Coef. | | St.Err. | t-value | | p-value | [95% Conf | | Interval] | Sig | | gcvi\_16 | 27.462 | | 1.003 | 27.38 | | 0.000 | 25.493 | | 29.431 | \*\*\* | | Constant | -14.288 | | 0.731 | -19.55 | | 0.000 | -15.723 | | -12.853 | \*\*\* | |  | | | | | | | | | | | | Mean dependent var | | 5.712 | | | SD dependent var | | | 1.101 | | | R-squared | | 0.508 | | | Number of obs | | | 729.000 | | | Adj R-squared | | 0.507 | | | Root MSE | | | 0.77 | | | F-test | | 749.763 | | | Prob > F | | | 0.000 | | | Akaike crit. (AIC) | | 1695.434 | | | Bayesian crit. (BIC) | | | 1704.618 | | |  | | | | | | | | | | | | *\*\*\* p<0.01, \*\* p<0.05, \* p<0.1* | | | | | | | | | | |
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| |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | yield | Coef. | | St.Err. | t-value | | p-value | [95% Conf | | Interval] | Sig | | cired\_20 | 2.852 | | 0.091 | 31.50 | | 0.000 | 2.674 | | 3.030 | \*\*\* | | Constant | 0.417 | | 0.170 | 2.45 | | 0.014 | 0.083 | | 0.751 | \*\* | |  | | | | | | | | | | | | Mean dependent var | | 5.712 | | | SD dependent var | | | 1.101 | | | R-squared | | 0.577 | | | Number of obs | | | 729.000 | | | Adj R- squared | | 0.576 | | | Root MSE | | | 0.71 | | | F-test | | 992.587 | | | Prob > F | | | 0.000 | | | Akaike crit. (AIC) | | 1584.458 | | | Bayesian crit. (BIC) | | | 1593.641 | | |  | | | | | | | | | | | | *\*\*\* p<0.01, \*\* p<0.05, \* p<0.1* | | | | | | | | | | | |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | yield | Coef. | | St.Err. | t-value | | p-value | [95% Conf | | Interval] | Sig | | cired\_16 | 2.848 | | 0.116 | 24.59 | | 0.000 | 2.621 | | 3.076 | \*\*\* | | Constant | 0.305 | | 0.222 | 1.38 | | 0.169 | -0.130 | | 0.741 |  | |  | | | | | | | | | | | | Mean dependent var | | 5.712 | | | SD dependent var | | | 1.101 | | | R-squared | | 0.454 | | | Number of obs | | | 729.000 | | | Adj R-squared | | 0.453 | | | Root MSE | | | 0.81 | | | F-test | | 604.690 | | | Prob > F | | | 0.000 | | | Akaike crit. (AIC) | | 1770.816 | | | Bayesian crit. (BIC) | | | 1779.999 | | |  | | | | | | | | | | | | *\*\*\* p<0.01, \*\* p<0.05, \* p<0.1* | | | | | | | | | | |
| SCCCI | |
| |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | yield | Coef. | | St.Err. | t-value | | p-value | [95% Conf | | Interval] | Sig | | sccci\_20 | 32.984 | | 1.156 | 28.52 | | 0.000 | 30.714 | | 35.254 | \*\*\* | | Constant | -14.297 | | 0.702 | -20.37 | | 0.000 | -15.675 | | -12.919 | \*\*\* | |  | | | | | | | | | | | | Mean dependent var | | 5.712 | | | SD dependent var | | | 1.101 | | | R-squared | | 0.528 | | | Number of obs | | | 729.000 | | | Adj R-squared | | 0.527 | | | Root MSE | | | 0.75 | | | F-test | | 813.671 | | | Prob > F | | | 0.000 | | | Akaike crit. (AIC) | | 1664.550 | | | Bayesian crit. (BIC) | | | 1673.733 | | |  | | | | | | | | | | | | *\*\*\* p<0.01, \*\* p<0.05, \* p<0.1* | | | | | | | | | | | |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | yield | Coef. | | St.Err. | t-value | | p-value | [95% Conf | | Interval] | Sig | | sccci\_16 | 35.000 | | 1.420 | 24.65 | | 0.000 | 32.212 | | 37.787 | \*\*\* | | Constant | -15.323 | | 0.854 | -17.95 | | 0.000 | -16.999 | | -13.646 | \*\*\* | |  | | | | | | | | | | | | Mean dependent var | | 5.712 | | | SD dependent var | | | 1.101 | | | R-squared | | 0.455 | | | Number of obs | | | 729.000 | | | Adj R-squared | | 0.454 | | | Root MSE | | | 0.81 | | | F-test | | 607.738 | | | Prob > F | | | 0.000 | | | Akaike crit. (AIC) | | 1769.149 | | | Bayesian crit. (BIC) | | | 1778.332 | | |  | | | | | | | | | | | | *\*\*\* p<0.01, \*\* p<0.05, \* p<0.1* | | | | | | | | | | |
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| |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | yield | Coef. | | St.Err. | t-value | | p-value | [95% Conf | | Interval] | Sig | | ndvi\_20 | 16.914 | | 0.633 | 26.71 | | 0.000 | 15.670 | | 18.157 | \*\*\* | | Constant | -7.462 | | 0.494 | -15.10 | | 0.000 | -8.432 | | -6.491 | \*\*\* | |  | | | | | | | | | | | | Mean dependent var | | 5.712 | | | SD dependent var | | | 1.101 | | | R-squared | | 0.495 | | | Number of obs | | | 729.000 | | | Adj R-squared | | 0.494 | | | Root MSE | | | 0.78 | | | F-test | | 713.185 | | | Prob > F | | | 0.000 | | | Akaike crit. (AIC) | | 1713.718 | | | Bayesian crit. (BIC) | | | 1722.902 | | |  | | | | | | | | | | | | *\*\*\* p<0.01, \*\* p<0.05, \* p<0.1* | | | | | | | | | | | |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | yield | Coef. | | St.Err. | t-value | | p-value | [95% Conf | | Interval] | Sig | | ndvi\_16 | 21.254 | | 0.869 | 24.45 | | 0.000 | 19.547 | | 22.961 | \*\*\* | | Constant | -11.263 | | 0.695 | -16.20 | | 0.000 | -12.627 | | -9.898 | \*\*\* | |  | | | | | | | | | | | | Mean dependent var | | 5.712 | | | SD dependent var | | | 1.101 | | | R-squared | | 0.451 | | | Number of obs | | | 729.000 | | | Adj R-squared | | 0.450 | | | Root MSE | | | 0.81 | | | F-test | | 597.539 | | | Prob > F | | | 0.000 | | | Akaike crit. (AIC) | | 1774.741 | | | Bayesian crit. (BIC) | | | 1783.924 | | |  | | | | | | | | | | | | *\*\*\* p<0.01, \*\* p<0.05, \* p<0.1* | | | | | | | | | | |
| Solar Radiation | |
| |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | yield\_1 | Coef. | | St.Err. | t-value | | p-value | [95% Conf | | Interval] | | Sig | | sol\_me\_1606 | 8.231 | | 1.129 | 7.29 | | 0 | 6.013 | | 10.448 | | \*\*\* | | Constant | -38.838 | | 6.113 | -6.35 | | 0 | -50.838 | | -26.837 | | \*\*\* | |  | | | | | | | | | | | | | Mean dependent var | | 5.712 | | | SD dependent var | | | 1.101 | | | R-squared | | 0.068 | | | Number of obs | | | 729.000 | | | Adj R-squared | | 0.066 | | | Root MSE | | | 1.06 | | | F-test | | 53.119 | | | Prob > F | | | 0.000 | | | Akaike crit. (AIC) | | 2160.654 | | | Bayesian crit. (BIC) | | | 2169.837 | | | *\*\*\* p<.01, \*\* p<.05, \* p<.1* | | | | | | | | | | | | | |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | yield\_1 | Coef. | | St.Err. | t-value | | p-value | [95% Conf | | Interval] | | Sig | | sol\_me\_2005 | -18.013 | | 1.553 | -11.6 | | 0 | -21.061 | | -14.964 | | \*\*\* | | Constant | 95.195 | | 7.715 | 12.34 | | 0 | 80.049 | | 110.341 | | \*\*\* | |  | | | | | | | | | | | | | Mean dependent var | | 5.712 | | | SD dependent var | | | 1.101 | | | R-squared | | 0.156 | | | Number of obs | | | 729.000 | | | Adj R-squared | | 0.155 | | | Root MSE | | | 1.01 | | | F-test | | 134.534 | | | Prob > F | | | 0.000 | | | Akaike crit. (AIC) | | 2088.288 | | | Bayesian crit. (BIC) | | | 2097.471 | | | *\*\*\* p<.01, \*\* p<.05, \* p<.1* | | | | | | | | | | | | |
| Crop surface model | |
| |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | yield\_1 | Coef. | | St.Err. | t-value | | p-value | [95% Conf | | Interval] | | Sig | | csm\_20 | 2.595 | | .287 | 9.04 | | 0 | 2.032 | | 3.159 | | \*\*\* | | Constant | -.461 | | .684 | -0.67 | | .501 | -1.803 | | .882 | |  | |  | | | | | | | | | | | | | Mean dependent var | | 5.712 | | | SD dependent var | | | 1.101 | | | R-squared | | 0.101 | | | Number of obs | | | 729.000 | | | Adj R-squared | | 0.09 | | | Root MSE | | | 1.04 | | | F-test | | 81.729 | | | Prob > F | | | 0.000 | | | Akaike crit. (AIC) | | 2134.398 | | | Bayesian crit. (BIC) | | | 2143.581 | | | *\*\*\* p<.01, \*\* p<.05, \* p<.1* | | | | | | | | | | | | | |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | yield\_1 | Coef. | | St.Err. | t-value | | p-value | [95% Conf | | Interval] | | Sig | | csm\_16 | 2.027 | | .102 | 19.81 | | 0 | 1.826 | | 2.228 | | \*\*\* | | Constant | -1.611 | | .371 | -4.34 | | 0 | -2.34 | | -.883 | | \*\*\* | |  | | | | | | | | | | | | | Mean dependent var | | 5.712 | | | SD dependent var | | | 1.101 | | | R-squared | | 0.351 | | | Number of obs | | | 729.000 | | | Adj R-squared | | 0.349 | | | Root MSE | | | 0.88 | | | F-test | | 392.532 | | | Prob > F | | | 0.000 | | | Akaike crit. (AIC) | | 1897.325 | | | Bayesian crit. (BIC) | | | 1906.508 | | | *\*\*\* p<.01, \*\* p<.05, \* p<.1* | | | | | | | | | | | | |

Table S2. Multiple linear regression

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| **NDRE index** | |
| |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | yield\_1 | Coef. | | St.Err. | t-value | | p-value | [95% Conf | | Interval] | | Sig | | ndre\_16 | 17.69 | | .72 | 24.59 | | 0 | 16.277 | | 19.103 | | \*\*\* | | csm\_16 | 1.244 | | .08 | 15.48 | | 0 | 1.086 | | 1.402 | | \*\*\* | | sol\_me\_1606 | 1.301 | | .706 | 1.84 | | .066 | -.084 | | 2.686 | | \* | | Constant | -14.31 | | 3.727 | -3.84 | | 0 | -21.627 | | -6.993 | | \*\*\* | |  | | | | | | | | | | | | | Mean dependent var | | 5.736 | | | SD dependent var | | | 1.069 | | | R-squared | | 0.653 | | | Number of obs | | | 1722.000 | | | Adj R-squared | | 0.65 | | | Root MSE | | | 0.63 | | | F-test | | 451.260 | | | Prob > F | | | 0.000 | | | Akaike crit. (AIC) | | 1386.847 | | | Bayesian crit. (BIC) | | | 1405.175 | | | *\*\*\* p<.01, \*\* p<.05, \* p<.1* | | | | | | | | | | | | | |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | yield\_1 | Coef. | | St.Err. | t-value | | p-value | [95% Conf | | Interval] | | Sig | | ndre\_20 | 18.977 | | .68 | 27.93 | | 0 | 17.643 | | 20.311 | | \*\*\* | | csm\_20 | 2.109 | | .18 | 11.69 | | 0 | 1.755 | | 2.464 | | \*\*\* | | sol\_me\_2005 | -2.414 | | 1.215 | -1.99 | | .047 | -4.8 | | -.028 | | \*\* | | Constant | 3.744 | | 6.075 | 0.62 | | .538 | -8.182 | | 15.67 | |  | |  | | | | | | | | | | | | | Mean dependent var | | 5.736 | | | SD dependent var | | | 1.069 | | | R-squared | | 0.693 | | | Number of obs | | | 1722.000 | | | Adj R-squared | | 0.69 | | | Root MSE | | | 0.59 | | | F-test | | 540.949 | | | Prob > F | | | 0.000 | | | Akaike crit. (AIC) | | 1298.688 | | | Bayesian crit. (BIC) | | | 1317.016 | | | *\*\*\* p<.01, \*\* p<.05, \* p<.1* | | | | | | | | | | | | |
| |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | yield\_1 | Coef. | | St.Err. | t-value | | p-value | [95% Conf | | Interval] | | Sig | | ndre\_20 | 17.914 | | .538 | 33.32 | | 0 | 16.858 | | 18.969 | | \*\*\* | | csm\_16 | 1.242 | | .068 | 18.39 | | 0 | 1.109 | | 1.374 | | \*\*\* | | sol\_me\_1606 | -1.994 | | .618 | -3.22 | | .001 | -3.208 | | -.78 | | \*\*\* | | Constant | 6.389 | | 3.269 | 1.95 | | .051 | -.028 | | 12.806 | | \* | |  | | | | | | | | | | | | | Mean dependent var | | 5.736 | | | SD dependent var | | | 1.069 | | | R-squared | | 0.75 | | | Number of obs | | | 1722.000 | | | Adj R-squared | | 0.74 | | | Root MSE | | | 0.53 | | | F-test | | 715.492 | | | Prob > F | | | 0.000 | | | Akaike crit. (AIC) | | 1152.935 | | | Bayesian crit. (BIC) | | | 1171.264 | | | *\*\*\* p<.01, \*\* p<.05, \* p<.1* | | | | | | | | | | | | | |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | yield\_1 | Coef. | | St.Err. | t-value | | p-value | [95% Conf | | Interval] | | Sig | | ndre\_20 | 17.764 | | .627 | 28.33 | | 0 | 16.533 | | 18.995 | | \*\*\* | | csm\_16 | 1.181 | | .068 | 17.41 | | 0 | 1.047 | | 1.314 | | \*\*\* | | sol\_me\_2005 | 1.605 | | 1.018 | 1.58 | | .115 | -.394 | | 3.603 | |  | | Constant | -14.899 | | 5.205 | -2.86 | | .004 | -25.117 | | -4.68 | | \*\*\* | |  | | | | | | | | | | | | | Mean dependent var | | 5.736 | | | SD dependent var | | | 1.069 | | | R-squared | | 0.743 | | | Number of obs | | | 1722.000 | | | Adj R-squared | | 0.74 | | | Root MSE | | | 0.54 | | | F-test | | 693.111 | | | Prob > F | | | 0.000 | | | Akaike crit. (AIC) | | 1170.061 | | | Bayesian crit. (BIC) | | | 1188.389 | | | *\*\*\* p<.01, \*\* p<.05, \* p<.1* | | | | | | | | | | | | |
| **EVI2 index** | |
| |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | yield\_1 | Coef. | | St.Err. | t-value | | p-value | [95% Conf | | Interval] | | Sig | | evi2\_16 | 7.074 | | .335 | 21.09 | | 0 | 6.416 | | 7.733 | | \*\*\* | | csm\_16 | 1.252 | | .086 | 14.50 | | 0 | 1.083 | | 1.422 | | \*\*\* | | sol\_me\_1606 | .428 | | .761 | 0.56 | | .574 | -1.067 | | 1.922 | |  | | Constant | -14.664 | | 3.975 | -3.69 | | 0 | -22.469 | | -6.86 | | \*\*\* | |  | | | | | | | | | | | | | Mean dependent var | | 5.736 | | | SD dependent var | | | 1.069 | | | R-squared | | 0.606 | | | Number of obs | | | 1722.000 | | | Adj R-squared | | 0.60 | | | Root MSE | | | 0.67 | | | F-test | | 367.894 | | | Prob > F | | | 0.000 | | | Akaike crit. (AIC) | | 1479.730 | | | Bayesian crit. (BIC) | | | 1498.058 | | | *\*\*\* p<.01, \*\* p<.05, \* p<.1* | | | | | | | | | | | | |  | | | | | | | | | | | | | |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | yield\_1 | Coef. | | St.Err. | t-value | | p-value | [95% Conf | | Interval] | | Sig | | evi2\_20 | 6.421 | | .247 | 26.04 | | 0 | 5.937 | | 6.905 | | \*\*\* | | csm\_16 | 1.353 | | .077 | 17.62 | | 0 | 1.202 | | 1.504 | | \*\*\* | | sol\_me\_1606 | -4.762 | | .753 | -6.32 | | 0 | -6.242 | | -3.283 | | \*\*\* | | Constant | 14.617 | | 3.867 | 3.78 | | 0 | 7.025 | | 22.208 | | \*\*\* | |  | | | | | | | | | | | | | Mean dependent var | | 5.736 | | | SD dependent var | | | 1.069 | | | R-squared | | 0.672 | | | Number of obs | | | 1722.000 | | | Adj R-squared | | 0.67 | | | Root MSE | | | 0.61 | | | F-test | | 489.670 | | | Prob > F | | | 0.000 | | | Akaike crit. (AIC) | | 1347.768 | | | Bayesian crit. (BIC) | | | 1366.096 | | | *\*\*\* p<.01, \*\* p<.05, \* p<.1* | | | | | | | | | | | | |
| |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | yield\_1 | Coef. | | St.Err. | t-value | | p-value | [95% Conf | | Interval] | | Sig | | evi2\_16 | 6.977 | | .359 | 19.41 | | 0 | 6.271 | | 7.683 | | \*\*\* | | csm\_20 | 2.461 | | .21 | 11.70 | | 0 | 2.048 | | 2.874 | | \*\*\* | | sol\_me\_2005 | -11.79 | | 1.267 | -9.31 | | 0 | -14.277 | | -9.302 | | \*\*\* | | Constant | 45.077 | | 6.465 | 6.97 | | 0 | 32.385 | | 57.769 | | \*\*\* | |  | | | | | | | | | | | | | Mean dependent var | | 5.736 | | | SD dependent var | | | 1.069 | | | R-squared | | 0.580 | | | Number of obs | | | 1722.000 | | | Adj R-squared | | 0.57 | | | Root MSE | | | 0.69 | | | F-test | | 330.901 | | | Prob > F | | | 0.000 | | | Akaike crit. (AIC) | | 1525.113 | | | Bayesian crit. (BIC) | | | 1543.441 | | | *\*\*\* p<.01, \*\* p<.05, \* p<.1* | | | | | | | | | | | | |  | | | | | | | | | | | | | |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | yield\_1 | Coef. | | St.Err. | t-value | | p-value | [95% Conf | | Interval] | | Sig | | evi2\_20 | 5.289 | | .254 | 20.81 | | 0 | 4.79 | | 5.788 | | \*\*\* | | csm\_16 | 1.308 | | .078 | 16.87 | | 0 | 1.156 | | 1.46 | | \*\*\* | | sol\_me\_1606 | -4.329 | | 1.086 | -3.99 | | 0 | -6.461 | | -2.197 | | \*\*\* | | Constant | 12.624 | | 5.613 | 2.25 | | .025 | 1.605 | | 23.643 | | \*\* | |  | | | | | | | | | | | | | Mean dependent var | | 5.736 | | | SD dependent var | | | 1.069 | | | R-squared | | 0.661 | | | Number of obs | | | 1722.000 | | | Adj R-squared | | 0.65 | | | Root MSE | | | 0.62 | | | F-test | | 466.527 | | | Prob > F | | | 0.000 | | | Akaike crit. (AIC) | | 1371.059 | | | Bayesian crit. (BIC) | | | 1389.387 | | | *\*\*\* p<.01, \*\* p<.05, \* p<.1* | | | | | | | | | | | | |
| **GCVI index** | |
| |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | yield\_1 | Coef. | | St.Err. | t-value | | p-value | [95% Conf | | Interval] | | Sig | | gcvi\_16 | 22.519 | | .918 | 24.53 | | 0 | 20.716 | | 24.321 | | \*\*\* | | csm\_16 | 1.213 | | .081 | 15.01 | | 0 | 1.055 | | 1.372 | | \*\*\* | | sol\_me\_1606 | -.104 | | .716 | -0.15 | | .885 | -1.51 | | 1.303 | |  | | Constant | -14.49 | | 3.73 | -3.88 | | 0 | -21.814 | | -7.166 | | \*\*\* | |  | | | | | | | | | | | | | Mean dependent var | | 5.736 | | | SD dependent var | | | 1.069 | | | R-squared | | 0.653 | | | Number of obs | | | 1722.000 | | | Adj R-squared | | 0.65 | | | Root MSE | | | 0.63 | | | F-test | | 449.810 | | | Prob > F | | | 0.000 | | | Akaike crit. (AIC) | | 1388.364 | | | Bayesian crit. (BIC) | | | 1406.692 | | | *\*\*\* p<.01, \*\* p<.05, \* p<.1* | | | | | | | | | | | | | |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | yield\_1 | Coef. | | St.Err. | t-value | | p-value | [95% Conf | | Interval] | | Sig | | gcvi\_20 | 21.135 | | .698 | 30.27 | | 0 | 19.765 | | 22.506 | | \*\*\* | | csm\_16 | 1.226 | | .072 | 17.08 | | 0 | 1.085 | | 1.367 | | \*\*\* | | sol\_me\_1606 | -3.535 | | .672 | -5.26 | | 0 | -4.855 | | -2.215 | | \*\*\* | | Constant | 5.408 | | 3.455 | 1.57 | | .118 | -1.375 | | 12.191 | |  | |  | | | | | | | | | | | | | Mean dependent var | | 5.736 | | | SD dependent var | | | 1.069 | | | R-squared | | 0.720 | | | Number of obs | | | 1722.000 | | | Adj R-squared | | 0.71 | | | Root MSE | | | 0.56 | | | F-test | | 614.178 | | | Prob > F | | | 0.000 | | | Akaike crit. (AIC) | | 1233.922 | | | Bayesian crit. (BIC) | | | 1252.250 | | | *\*\*\* p<.01, \*\* p<.05, \* p<.1* | | | | | | | | | | | | |
| |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | yield\_1 | Coef. | | St.Err. | t-value | | p-value | [95% Conf | | Interval] | | Sig | | gcvi\_16 | 22.362 | | 1.004 | 22.28 | | 0 | 20.391 | | 24.333 | | \*\*\* | | csm\_20 | 2.338 | | .2 | 11.70 | | 0 | 1.946 | | 2.731 | | \*\*\* | | sol\_me\_2005 | -10.195 | | 1.215 | -8.39 | | 0 | -12.58 | | -7.81 | | \*\*\* | | Constant | 34.532 | | 6.248 | 5.53 | | 0 | 22.266 | | 46.798 | | \*\*\* | |  | | | | | | | | | | | | | Mean dependent var | | 5.736 | | | SD dependent var | | | 1.069 | | | R-squared | | 0.622 | | | Number of obs | | | 1722.000 | | | Adj R-squared | | 0.62 | | | Root MSE | | | 0.65 | | | F-test | | 393.235 | | | Prob > F | | | 0.000 | | | Akaike crit. (AIC) | | 1450.212 | | | Bayesian crit. (BIC) | | | 1468.540 | | | *\*\*\* p<.01, \*\* p<.05, \* p<.1* | | | | | | | | | | | | | |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | yield\_1 | Coef. | | St.Err. | t-value | | p-value | [95% Conf | | Interval] | | Sig | | gcvi\_20 | 19.165 | | .765 | 25.06 | | 0 | 17.664 | | 20.667 | | \*\*\* | | csm\_20 | 1.185 | | .073 | 16.33 | | 0 | 1.042 | | 1.327 | | \*\*\* | | sol\_me\_2005 | -1.814 | | 1.03 | -1.76 | | .079 | -3.836 | | .208 | | \* | | Constant | -3.164 | | 5.382 | -0.59 | | .557 | -13.731 | | 7.403 | |  | |  | | | | | | | | | | | | | Mean dependent var | | 5.736 | | | SD dependent var | | | 1.069 | | | R-squared | | 0.710 | | | Number of obs | | | 1722.000 | | | Adj R-squared | | 0.70 | | | Root MSE | | | 0.57 | | | F-test | | 586.075 | | | Prob > F | | | 0.000 | | | Akaike crit. (AIC) | | 1258.095 | | | Bayesian crit. (BIC) | | | 1276.423 | | | *\*\*\* p<.01, \*\* p<.05, \* p<.1* | | | | | | | | | | | | |
| **CIred** **index** | |
| |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | yield\_1 | Coef. | | St.Err. | t-value | | p-value | [95% Conf | | Interval] | | Sig | | cired\_16 | 2.306 | | .101 | 22.91 | | 0 | 2.109 | | 2.504 | | \*\*\* | | csm\_16 | 1.275 | | .083 | 15.41 | | 0 | 1.113 | | 1.438 | | \*\*\* | | sol\_me\_1606 | 1.972 | | .725 | 2.72 | | .007 | .549 | | 3.395 | | \*\*\* | | Constant | -13.928 | | 3.847 | -3.62 | | 0 | -21.48 | | -6.376 | | \*\*\* | |  | | | | | | | | | | | | | Mean dependent var | | 5.736 | | | SD dependent var | | | 1.069 | | | R-squared | | 0.631 | | | Number of obs | | | 1722.000 | | | Adj R-squared | | 0.62 | | | Root MSE | | | 0.65 | | | F-test | | 409.718 | | | Prob > F | | | 0.000 | | | Akaike crit. (AIC) | | 1431.639 | | | Bayesian crit. (BIC) | | | 1449.967 | | | *\*\*\* p<.01, \*\* p<.05, \* p<.1* | | | | | | | | | | | | | |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | yield\_1 | Coef. | | St.Err. | t-value | | p-value | [95% Conf | | Interval] | | Sig | | cired\_20 | 2.388 | | .078 | 30.59 | | 0 | 2.234 | | 2.541 | | \*\*\* | | csm\_16 | 1.27 | | .071 | 17.91 | | 0 | 1.131 | | 1.409 | | \*\*\* | | sol\_me\_1606 | -.781 | | .642 | -1.22 | | .224 | -2.041 | | .479 | |  | | Constant | .933 | | 3.4 | 0.27 | | .784 | -5.742 | | 7.609 | |  | |  | | | | | | | | | | | | | Mean dependent var | | 5.736 | | | SD dependent var | | | 1.069 | | | R-squared | | 0.723 | | | Number of obs | | | 1722.000 | | | Adj R-squared | | 0.72 | | | Root MSE | | | 0.56 | | | F-test | | 624.193 | | | Prob > F | | | 0.000 | | | Akaike crit. (AIC) | | 1225.500 | | | Bayesian crit. (BIC) | | | 1243.828 | | | *\*\*\* p<.01, \*\* p<.05, \* p<.1* | | | | | | | | | | | | |
| |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | yield\_1 | Coef. | | St.Err. | t-value | | p-value | [95% Conf | | Interval] | | Sig | | cired\_16 | 2.253 | | .119 | 18.87 | | 0 | 2.019 | | 2.488 | | \*\*\* | | csm\_20 | 2.379 | | .214 | 11.11 | | 0 | 1.959 | | 2.8 | | \*\*\* | | sol\_me\_2005 | -10.829 | | 1.31 | -8.27 | | 0 | -13.401 | | -8.258 | | \*\*\* | | Constant | 49.596 | | 6.433 | 7.71 | | 0 | 36.965 | | 62.226 | | \*\*\* | |  | | | | | | | | | | | | | Mean dependent var | | 5.736 | | | SD dependent var | | | 1.069 | | | R-squared | | 0.572 | | | Number of obs | | | 1722.000 | | | Adj R-squared | | 0.57 | | | Root MSE | | | 0.70 | | | F-test | | 320.243 | | | Prob > F | | | 0.000 | | | Akaike crit. (AIC) | | 1538.735 | | | Bayesian crit. (BIC) | | | 1557.063 | | | *\*\*\* p<.01, \*\* p<.05, \* p<.1* | | | | | | | | | | | | | |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | yield\_1 | Coef. | | St.Err. | t-value | | p-value | [95% Conf | | Interval] | | Sig | | cired\_20 | 2.562 | | .096 | 26.62 | | 0 | 2.373 | | 2.751 | | \*\*\* | | csm\_20 | 1.226 | | .07 | 17.59 | | 0 | 1.089 | | 1.363 | | \*\*\* | | sol\_me\_2005 | 3.644 | | 1.107 | 3.29 | | .001 | 1.47 | | 5.817 | | \*\*\* | | Constant | -21.558 | | 5.585 | -3.86 | | 0 | -32.523 | | -10.593 | | \*\*\* | |  | | | | | | | | | | | | | Mean dependent var | | 5.736 | | | SD dependent var | | | 1.069 | | | R-squared | | 0.726 | | | Number of obs | | | 1722.000 | | | Adj R-squared | | 0.72 | | | Root MSE | | | 0.56 | | | F-test | | 635.419 | | | Prob > F | | | 0.000 | | | Akaike crit. (AIC) | | 1216.174 | | | Bayesian crit. (BIC) | | | 1234.502 | | | *\*\*\* p<.01, \*\* p<.05, \* p<.1* | | | | | | | | | | | | |
| **SCCCI index** | |
| |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | yield\_1 | Coef. | | St.Err. | t-value | | p-value | [95% Conf | | Interval] | | Sig | | sccci\_16 | 28.574 | | 1.155 | 24.74 | | 0 | 26.306 | | 30.842 | | \*\*\* | | csm\_16 | 1.354 | | .079 | 17.18 | | 0 | 1.2 | | 1.509 | | \*\*\* | | sol\_me\_1606 | 2.676 | | .698 | 3.83 | | 0 | 1.306 | | 4.047 | | \*\*\* | | Constant | -30.821 | | 3.729 | -8.27 | | 0 | -38.141 | | -23.501 | | \*\*\* | |  | | | | | | | | | | | | | Mean dependent var | | 5.736 | | | SD dependent var | | | 1.069 | | | R-squared | | 0.655 | | | Number of obs | | | 1722.000 | | | Adj R-squared | | 0.65 | | | Root MSE | | | 0.62 | | | F-test | | 455.137 | | | Prob > F | | | 0.000 | | | Akaike crit. (AIC) | | 1382.805 | | | Bayesian crit. (BIC) | | | 1401.133 | | | *\*\*\* p<.01, \*\* p<.05, \* p<.1* | | | | | | | | | | | | | |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | yield\_1 | Coef. | | St.Err. | t-value | | p-value | [95% Conf | | Interval] | | Sig | | sccci\_20 | 27.501 | | .906 | 30.37 | | 0 | 25.723 | | 29.279 | | \*\*\* | | csm\_16 | 1.254 | | .071 | 17.57 | | 0 | 1.114 | | 1.395 | | \*\*\* | | sol\_me\_1606 | 4.576 | | .628 | 7.28 | | 0 | 3.343 | | 5.81 | | \*\*\* | | Constant | -40.258 | | 3.398 | -11.8 | | 0 | -46.93 | | -33.586 | | \*\*\* | |  | | | | | | | | | | | | | Mean dependent var | | 5.736 | | | SD dependent var | | | 1.069 | | | R-squared | | 0.721 | | | Number of obs | | | 1722.000 | | | Adj R-squared | | 0.71 | | | Root MSE | | | 0.56 | | | F-test | | 617.161 | | | Prob > F | | | 0.000 | | | Akaike crit. (AIC) | | 1231.403 | | | Bayesian crit. (BIC) | | | 1249.731 | | | *\*\*\* p<.01, \*\* p<.05, \* p<.1* | | | | | | | | | | | | |
| |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | yield\_1 | Coef. | | St.Err. | t-value | | p-value | [95% Conf | | Interval] | | Sig | | sccci\_16 | 26.847 | | 1.4 | 19.18 | | 0 | 24.099 | | 29.595 | | \*\*\* | | csm\_20 | 2.412 | | .212 | 11.37 | | 0 | 1.995 | | 2.828 | | \*\*\* | | sol\_me\_2005 | -12.418 | | 1.259 | -9.86 | | 0 | -14.89 | | -9.946 | | \*\*\* | | Constant | 45.551 | | 6.492 | 7.02 | | 0 | 32.806 | | 58.297 | | \*\*\* | |  | | | | | | | | | | | | | Mean dependent var | | 5.736 | | | SD dependent var | | | 1.069 | | | R-squared | | 0.577 | | | Number of obs | | | 1722.000 | | | Adj R-squared | | 0.57 | | | Root MSE | | | 0.69 | | | F-test | | 326.363 | | | Prob > F | | | 0.000 | | | Akaike crit. (AIC) | | 1530.881 | | | Bayesian crit. (BIC) | | | 1549.210 | | | *\*\*\* p<.01, \*\* p<.05, \* p<.1* | | | | | | | | | | | | | |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | yield\_1 | Coef. | | St.Err. | t-value | | p-value | [95% Conf | | Interval] | | Sig | | sccci\_20 | 27.069 | | 1.121 | 24.14 | | 0 | 24.867 | | 29.27 | | \*\*\* | | csm\_20 | 1.398 | | .071 | 19.62 | | 0 | 1.258 | | 1.537 | | \*\*\* | | sol\_me\_2005 | -.214 | | 1.088 | -0.20 | | .844 | -2.35 | | 1.922 | |  | | Constant | -14.678 | | 5.792 | -2.53 | | .011 | -26.05 | | -3.306 | | \*\* | |  | | | | | | | | | | | | | Mean dependent var | | 5.736 | | | SD dependent var | | | 1.069 | | | R-squared | | 0.700 | | | Number of obs | | | 1722.000 | | | Adj R-squared | | 0.69 | | | Root MSE | | | 0.58 | | | F-test | | 558.264 | | | Prob > F | | | 0.000 | | | Akaike crit. (AIC) | | 1282.841 | | | Bayesian crit. (BIC) | | | 1301.169 | | | *\*\*\* p<.01, \*\* p<.05, \* p<.1* | | | | | | | | | | | | |
| **NDVI index** | |
| |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | yield\_1 | Coef. | | St.Err. | t-value | | p-value | [95% Conf | | Interval] | | Sig | | ndvi\_16 | 16.977 | | .805 | 21.09 | | 0 | 15.397 | | 18.558 | | \*\*\* | | csm\_16 | 1.252 | | .086 | 14.50 | | 0 | 1.083 | | 1.422 | | \*\*\* | | sol\_me\_1606 | .427 | | .761 | 0.56 | | .575 | -1.067 | | 1.922 | |  | | Constant | -14.664 | | 3.975 | -3.69 | | 0 | -22.469 | | -6.86 | | \*\*\* | |  | | | | | | | | | | | | | Mean dependent var | | 5.736 | | | SD dependent var | | | 1.069 | | | R-squared | | 0.606 | | | Number of obs | | | 1722.000 | | | Adj R-squared | | 0.60 | | | Root MSE | | | 0.67 | | | F-test | | 367.884 | | | Prob > F | | | 0.000 | | | Akaike crit. (AIC) | | 1479.743 | | | Bayesian crit. (BIC) | | | 1498.071 | | | *\*\*\* p<.01, \*\* p<.05, \* p<.1* | | | | | | | | | | | | | |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | yield\_1 | Coef. | | St.Err. | t-value | | p-value | [95% Conf | | Interval] | | Sig | | ndvi\_20 | 15.41 | | .592 | 26.04 | | 0 | 14.248 | | 16.571 | | \*\*\* | | csm\_16 | 1.353 | | .077 | 17.62 | | 0 | 1.203 | | 1.504 | | \*\*\* | | sol\_me\_1606 | -4.762 | | .754 | -6.32 | | 0 | -6.241 | | -3.283 | | \*\*\* | | Constant | 14.615 | | 3.867 | 3.78 | | 0 | 7.024 | | 22.207 | | \*\*\* | |  | | | | | | | | | | | | | Mean dependent var | | 5.736 | | | SD dependent var | | | 1.069 | | | R-squared | | 0.672 | | | Number of obs | | | 1722.000 | | | Adj R-squared | | 0.67 | | | Root MSE | | | 0.61 | | | F-test | | 489.646 | | | Prob > F | | | 0.000 | | | Akaike crit. (AIC) | | 1347.791 | | | Bayesian crit. (BIC) | | | 1366.119 | | | *\*\*\* p<.01, \*\* p<.05, \* p<.1* | | | | | | | | | | | | |
| |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | yield\_1 | Coef. | | St.Err. | t-value | | p-value | [95% Conf | | Interval] | | Sig | | ndvi\_16 | 16.744 | | .863 | 19.41 | | 0 | 15.05 | | 18.438 | | \*\*\* | | csm\_20 | 2.462 | | .21 | 11.70 | | 0 | 2.049 | | 2.875 | | \*\*\* | | sol\_me\_2005 | -11.79 | | 1.267 | -9.31 | | 0 | -14.278 | | -9.302 | | \*\*\* | | Constant | 45.077 | | 6.465 | 6.97 | | 0 | 32.385 | | 57.769 | | \*\*\* | |  | | | | | | | | | | | | | Mean dependent var | | 5.736 | | | SD dependent var | | | 1.069 | | | R-squared | | 0.580 | | | Number of obs | | | 1722.000 | | | Adj R-squared | | 0.57 | | | Root MSE | | | 0.69 | | | F-test | | 330.890 | | | Prob > F | | | 0.000 | | | Akaike crit. (AIC) | | 1525.127 | | | Bayesian crit. (BIC) | | | 1543.455 | | | *\*\*\* p<.01, \*\* p<.05, \* p<.1* | | | | | | | | | | | | | |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | yield\_1 | Coef. | | St.Err. | t-value | | p-value | [95% Conf | | Interval] | | Sig | | ndvi\_20 | 12.693 | | .61 | 20.81 | | 0 | 11.495 | | 13.89 | | \*\*\* | | csm\_16 | 1.308 | | .078 | 16.87 | | 0 | 1.156 | | 1.46 | | \*\*\* | | sol\_me\_2005 | -4.329 | | 1.086 | -3.99 | | 0 | -6.462 | | -2.197 | | \*\*\* | | Constant | 12.625 | | 5.613 | 2.25 | | .025 | 1.606 | | 23.644 | | \*\* | |  | | | | | | | | | | | | | Mean dependent var | | 5.736 | | | SD dependent var | | | 1.069 | | | R-squared | | 0.661 | | | Number of obs | | | 1722.000 | | | Adj R-squared | | 0.65 | | | Root MSE | | | 0.62 | | | F-test | | 466.510 | | | Prob > F | | | 0.000 | | | Akaike crit. (AIC) | | 1371.077 | | | Bayesian crit. (BIC) | | | 1389.405 | | | *\*\*\* p<.01, \*\* p<.05, \* p<.1* | | | | | | | | | | | | |

Table S3. Quantiale regression 0.25, 0.50 and 0.75

|  |  |
| --- | --- |
| **NDRE index** | |
| |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | yield | Coef. | | St.Err. | t-value | | p-value | [95% Conf | | Interval] | | Sig | | ndre\_20 | 18.754 | | .782 | 23.99 | | 0 | 17.22 | | 20.289 | | \*\*\* | | csm\_16 | 1.131 | | .086 | 13.21 | | 0 | .963 | | 1.3 | | \*\*\* | | sol\_me\_1606 | -1.009 | | .602 | -1.68 | | .094 | -2.19 | | .173 | | \* | | Constant | -2.023 | | 3.079 | -0.66 | | .511 | -8.068 | | 4.022 | |  | | ndre\_20 | 17.515 | | .4 | 43.82 | | 0 | 16.73 | | 18.3 | | \*\*\* | | csm\_16 | 1.075 | | .099 | 10.89 | | 0 | .881 | | 1.269 | | \*\*\* | | sol\_me\_1606 | -2.822 | | .784 | -3.60 | | 0 | -4.361 | | -1.283 | | \*\*\* | | Constant | 8.93 | | 4.346 | 2.05 | | .04 | .398 | | 17.463 | | \*\* | | ndre\_20 | 16.393 | | .512 | 32.02 | | 0 | 15.388 | | 17.398 | | \*\*\* | | csm\_16 | 1.056 | | .065 | 16.18 | | 0 | .928 | | 1.184 | | \*\*\* | | sol\_me\_1606 | -2.638 | | .636 | -4.14 | | 0 | -3.887 | | -1.388 | | \*\*\* | | Constant | 8.804 | | 3.461 | 2.54 | | .011 | 2.009 | | 15.599 | | \*\* | |  | | | | | | | | | | | | | Mean dependent var | | 5.736 | | | SD dependent var | | | 1.069 | | | Pseudo r-squared 0.25 | | 0.578 | | | Number of obs | | | 1722.000 | | | Pseudo r-squared 0.50 | | 0.544 | | | Number of obs | | | 1722.000 | | | Pseudo r-squared 0.75 | | 0.556 | | | Number of obs | | | 1722.000 | | | *\*\*\* p<.01, \*\* p<.05, \* p<.1* | | | | | | | | | | | | | |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | yield | Coef. | | St.Err. | t-value | | p-value | [95% Conf | | Interval] | | Sig | | ndre\_16 | 20.59 | | 1.348 | 15.28 | | 0 | 17.944 | | 23.236 | | \*\*\* | | csm\_16 | 1.199 | | .184 | 6.53 | | 0 | .839 | | 1.56 | | \*\*\* | | sol\_me\_1606 | 2.121 | | .882 | 2.41 | | .016 | .39 | | 3.852 | | \*\* | | Constant | -20.227 | | 5.165 | -3.92 | | 0 | -30.367 | | -10.086 | | \*\*\* | | ndre\_16 | 17.877 | | .623 | 28.68 | | 0 | 16.653 | | 19.1 | | \*\*\* | | csm\_16 | 1.049 | | .119 | 8.82 | | 0 | .816 | | 1.283 | | \*\*\* | | sol\_me\_1606 | 1.368 | | .626 | 2.19 | | .029 | .139 | | 2.597 | | \*\* | | Constant | -13.934 | | 3.233 | -4.31 | | 0 | -20.281 | | -7.586 | | \*\*\* | | ndre\_16 | 16.778 | | .913 | 18.38 | | 0 | 14.986 | | 18.57 | | \*\*\* | | csm\_16 | 1 | | .092 | 10.89 | | 0 | .82 | | 1.18 | | \*\*\* | | sol\_me\_1606 | 1.048 | | .573 | 1.83 | | .068 | -.077 | | 2.173 | | \* | | Constant | -11.231 | | 2.931 | -3.83 | | 0 | -16.984 | | -5.477 | | \*\*\* | |  | | | | | | | | | | | | | Mean dependent var | | 5.736 | | | SD dependent var | | | 1.069 | | | Pseudo r-squared 0.25 | | 0.382 | | | Number of obs | | | 1722.000 | | | Pseudo r-squared 0.50 | | 0.390 | | | Number of obs | | | 1722.000 | | | Pseudo r-squared 0.75 | | 0.413 | | | Number of obs | | | 1722.000 | | | *\*\*\* p<.01, \*\* p<.05, \* p<.1* | | | | | | | | | | | | |
| |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | yield | Coef. | | St.Err. | t-value | | p-value | [95% Conf | | Interval] | | Sig | | ndre\_20 | 20.269 | | .883 | 22.96 | | 0 | 18.536 | | 22.002 | | \*\*\* | | csm\_20 | 2.075 | | .289 | 7.17 | | 0 | 1.507 | | 2.643 | | \*\*\* | | sol\_me\_2005 | -1.59 | | 1.984 | -0.80 | | .423 | -5.486 | | 2.306 | |  | | Constant | -1.178 | | 9.966 | -0.12 | | .906 | -20.743 | | 18.387 | |  | | ndre\_20 | 17.524 | | .706 | 24.81 | | 0 | 16.137 | | 18.911 | | \*\*\* | | csm\_20 | 1.906 | | .185 | 10.30 | | 0 | 1.543 | | 2.269 | | \*\*\* | | sol\_me\_2005 | -4.325 | | 1.096 | -3.94 | | 0 | -6.478 | | -2.173 | | \*\*\* | | Constant | 14.483 | | 5.441 | 2.66 | | .008 | 3.8 | | 25.166 | | \*\*\* | | ndre\_20 | 14.808 | | .912 | 16.24 | | 0 | 13.017 | | 16.598 | | \*\*\* | | csm\_20 | 1.74 | | .341 | 5.10 | | 0 | 1.069 | | 2.41 | | \*\*\* | | sol\_me\_2005 | -6.078 | | 1.645 | -3.69 | | 0 | -9.308 | | -2.848 | | \*\*\* | | Constant | 25.177 | | 7.897 | 3.19 | | .001 | 9.674 | | 40.68 | | \*\*\* | |  | | | | | | | | | | | | | Mean dependent var | | 5.736 | | | SD dependent var | | | 1.069 | | | Pseudo r-squared 0.25 | | 0.437 | | | Number of obs | | | 1722.000 | | | Pseudo r-squared 0.50 | | 0.400 | | | Number of obs | | | 1722.000 | | | Pseudo r-squared 0.75 | | 0.392 | | | Number of obs | | | 1722.000 | | | *\*\*\* p<.01, \*\* p<.05, \* p<.1* | | | | | | | | | | | | | |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | yield | Coef. | | St.Err. | t-value | | p-value | [95% Conf | | Interval] | | Sig | | ndre\_20 | 18.677 | | 1.012 | 18.46 | | 0 | 16.69 | | 20.663 | | \*\*\* | | csm\_16 | 1.08 | | .109 | 9.91 | | 0 | .866 | | 1.293 | | \*\*\* | | sol\_me\_2005 | 1.475 | | 2.32 | 0.64 | | .525 | -3.08 | | 6.03 | |  | | Constant | -14.573 | | 11.827 | -1.23 | | .218 | -37.793 | | 8.647 | |  | | ndre\_20 | 17.011 | | 1.242 | 13.70 | | 0 | 14.572 | | 19.45 | | \*\*\* | | csm\_16 | 1.025 | | .111 | 9.25 | | 0 | .807 | | 1.242 | | \*\*\* | | sol\_me\_2005 | -.099 | | 1.897 | -0.05 | | .958 | -3.822 | | 3.625 | |  | | Constant | -5.431 | | 9.826 | -0.55 | | .581 | -24.721 | | 13.86 | |  | | ndre\_20 | 15.118 | | 1.097 | 13.78 | | 0 | 12.964 | | 17.273 | | \*\*\* | | csm\_16 | 1.039 | | .065 | 16.07 | | 0 | .912 | | 1.166 | | \*\*\* | | sol\_me\_2005 | -1.552 | | 1.467 | -1.06 | | .29 | -4.431 | | 1.327 | |  | | Constant | 2.904 | | 7.556 | 0.38 | | .701 | -11.93 | | 17.737 | |  | |  | | | | | | | | | | | | | Mean dependent var | | 5.736 | | | SD dependent var | | | 1.069 | | | Pseudo r-squared 0.25 | | 0.324 | | | Number of obs | | | 1722.000 | | | Pseudo r-squared 0.50 | | 0.336 | | | Number of obs | | | 1722.000 | | | Pseudo r-squared 0.75 | | 0.364 | | | Number of obs | | | 1722.000 | | | *\*\*\* p<.01, \*\* p<.05, \* p<.1* | | | | | | | | | | | | |
| **EVI2 index** | |
| |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | yield | Coef. | | St.Err. | t-value | | p-value | [95% Conf | | Interval] | | Sig | | evi2\_16 | 8.672 | | .56 | 15.49 | | 0 | 7.573 | | 9.771 | | \*\*\* | | csm\_16 | 1.225 | | .192 | 6.38 | | 0 | .848 | | 1.601 | | \*\*\* | | sol\_me\_1606 | .572 | | 1.267 | 0.45 | | .652 | -1.916 | | 3.06 | |  | | Constant | -18.719 | | 7.527 | -2.49 | | .013 | -33.497 | | -3.941 | | \*\* | | evi2\_16 | 7.273 | | .316 | 23.05 | | 0 | 6.654 | | 7.893 | | \*\*\* | | csm\_16 | .998 | | .12 | 8.29 | | 0 | .761 | | 1.234 | | \*\*\* | | sol\_me\_1606 | .185 | | .632 | 0.29 | | .77 | -1.056 | | 1.426 | |  | | Constant | -12.686 | | 3.383 | -3.75 | | 0 | -19.328 | | -6.044 | | \*\*\* | | evi2\_16 | 7.078 | | .485 | 14.61 | | 0 | 6.127 | | 8.03 | | \*\*\* | | csm\_16 | .868 | | .136 | 6.37 | | 0 | .6 | | 1.136 | | \*\*\* | | sol\_me\_1606 | -.173 | | .608 | -0.28 | | .776 | -1.366 | | 1.02 | |  | | Constant | -9.596 | | 3.065 | -3.13 | | .002 | -15.613 | | -3.58 | | \*\*\* | |  | | | | | | | | | | | | | Mean dependent var | | 5.736 | | | SD dependent var | | | 1.069 | | | Pseudo r-squared 0.25 | | 0.347 | | | Number of obs | | | 1722.000 | | | Pseudo r-squared 0.50 | | 0.346 | | | Number of obs | | | 1722.000 | | | Pseudo r-squared 0.75 | | 0.369 | | | Number of obs | | | 1722.000 | | | *\*\*\* p<.01, \*\* p<.05, \* p<.1* | | | | | | | | | | | | | |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | yield | Coef. | | St.Err. | t-value | | p-value | [95% Conf | | Interval] | | Sig | | evi2\_20 | 7.381 | | .355 | 20.82 | | 0 | 6.685 | | 8.077 | | \*\*\* | | csm\_16 | 1.283 | | .162 | 7.90 | | 0 | .964 | | 1.601 | | \*\*\* | | sol\_me\_1606 | -4.171 | | 1.225 | -3.40 | | .001 | -6.577 | | -1.765 | | \*\*\* | | Constant | 9.564 | | 6.556 | 1.46 | | .145 | -3.308 | | 22.436 | |  | | evi2\_20 | 6.317 | | .371 | 17.01 | | 0 | 5.587 | | 7.046 | | \*\*\* | | csm\_16 | 1.237 | | .124 | 9.98 | | 0 | .994 | | 1.48 | | \*\*\* | | sol\_me\_1606 | -5.235 | | .619 | -8.46 | | 0 | -6.449 | | -4.02 | | \*\*\* | | Constant | 17.882 | | 3.126 | 5.72 | | 0 | 11.745 | | 24.018 | | \*\*\* | | evi2\_20 | 5.957 | | .359 | 16.61 | | 0 | 5.253 | | 6.661 | | \*\*\* | | csm\_16 | 1.172 | | .105 | 11.16 | | 0 | .966 | | 1.378 | | \*\*\* | | sol\_me\_1606 | -5.832 | | .684 | -8.53 | | 0 | -7.174 | | -4.489 | | \*\*\* | | Constant | 22.331 | | 3.723 | 6.00 | | 0 | 15.022 | | 29.639 | | \*\*\* | |  | | | | | | | | | | | | | Mean dependent var | | 5.736 | | | SD dependent var | | | 1.069 | | | Pseudo r-squared 0.25 | | 0.406 | | | Number of obs | | | 1722.000 | | | Pseudo r-squared 0.50 | | 0.352 | | | Number of obs | | | 1722.000 | | | Pseudo r-squared 0.75 | | 0.354 | | | Number of obs | | | 1722.000 | | | *\*\*\* p<.01, \*\* p<.05, \* p<.1* | | | | | | | | | | | | |
| |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | yield | Coef. | | St.Err. | t-value | | p-value | [95% Conf | | Interval] | | Sig | | evi2\_16 | 7.939 | | .577 | 13.76 | | 0 | 6.806 | | 9.072 | | \*\*\* | | csm\_20 | 2.328 | | .394 | 5.91 | | 0 | 1.554 | | 3.102 | | \*\*\* | | sol\_me\_2005 | -9.845 | | 2.556 | -3.85 | | 0 | -14.862 | | -4.827 | | \*\*\* | | Constant | 33.587 | | 12.539 | 2.68 | | .008 | 8.969 | | 58.205 | | \*\*\* | | evi2\_16 | 7.426 | | .675 | 11.00 | | 0 | 6.1 | | 8.752 | | \*\*\* | | csm\_20 | 1.939 | | .27 | 7.18 | | 0 | 1.409 | | 2.469 | | \*\*\* | | sol\_me\_2005 | -8.326 | | 1.514 | -5.50 | | 0 | -11.299 | | -5.354 | | \*\*\* | | Constant | 28.402 | | 8.193 | 3.47 | | .001 | 12.317 | | 44.487 | | \*\*\* | | evi2\_16 | 7.173 | | .479 | 14.97 | | 0 | 6.232 | | 8.114 | | \*\*\* | | csm\_20 | 1.48 | | .194 | 7.64 | | 0 | 1.1 | | 1.861 | | \*\*\* | | sol\_me\_2005 | -7.297 | | 1.335 | -5.47 | | 0 | -9.918 | | -4.676 | | \*\*\* | | Constant | 25.162 | | 7.223 | 3.48 | | .001 | 10.981 | | 39.343 | | \*\*\* | |  | | | | | | | | | | | | | Mean dependent var | | 5.736 | | | SD dependent var | | | 1.069 | | | Pseudo r-squared 0.25 | | 0.406 | | | Number of obs | | | 1722.000 | | | Pseudo r-squared 0.50 | | 0.352 | | | Number of obs | | | 1722.000 | | | Pseudo r-squared 0.75 | | 0.354 | | | Number of obs | | | 1722.000 | | | *\*\*\* p<.01, \*\* p<.05, \* p<.1* | | | | | | | | | | | | | |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | yield | Coef. | | St.Err. | t-value | | p-value | [95% Conf | | Interval] | | Sig | | evi2\_20 | 6.662 | | .47 | 14.17 | | 0 | 5.739 | | 7.584 | | \*\*\* | | csm\_16 | 1.254 | | .169 | 7.41 | | 0 | .922 | | 1.586 | | \*\*\* | | sol\_me\_2005 | -3.47 | | 2.389 | -1.45 | | .147 | -8.161 | | 1.221 | |  | | Constant | 5.666 | | 12.024 | 0.47 | | .638 | -17.941 | | 29.273 | |  | | evi2\_20 | 4.839 | | .492 | 9.84 | | 0 | 3.873 | | 5.805 | | \*\*\* | | csm\_16 | 1.202 | | .158 | 7.61 | | 0 | .892 | | 1.512 | | \*\*\* | | sol\_me\_2005 | -6.118 | | 1.252 | -4.89 | | 0 | -8.576 | | -3.66 | | \*\*\* | | Constant | 22.828 | | 6.719 | 3.40 | | .001 | 9.637 | | 36.02 | | \*\*\* | | evi2\_20 | 4.085 | | .503 | 8.13 | | 0 | 3.098 | | 5.071 | | \*\*\* | | csm\_16 | 1.234 | | .135 | 9.16 | | 0 | .969 | | 1.498 | | \*\*\* | | sol\_me\_2005 | -6.643 | | 1.258 | -5.28 | | 0 | -9.112 | | -4.173 | | \*\*\* | | Constant | 27.045 | | 6.963 | 3.88 | | 0 | 13.374 | | 40.716 | | \*\*\* | |  | | | | | | | | | | | | | Mean dependent var | | 5.736 | | | SD dependent var | | | 1.069 | | | Pseudo r-squared 0.25 | | 0.406 | | | Number of obs | | | 1722.000 | | | Pseudo r-squared 0.50 | | 0.352 | | | Number of obs | | | 1722.000 | | | Pseudo r-squared 0.75 | | 0.354 | | | Number of obs | | | 1722.000 | | | *\*\*\* p<.01, \*\* p<.05, \* p<.1* | | | | | | | | | | | | |
| **GCVI index** | |
| |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | yield | Coef. | | St.Err. | t-value | | p-value | [95% Conf | | Interval] | | Sig | | gcvi\_16 | 26.422 | | 1.715 | 15.41 | | 0 | 23.055 | | 29.79 | | \*\*\* | | csm\_16 | 1.198 | | .183 | 6.56 | | 0 | .84 | | 1.557 | | \*\*\* | | sol\_me\_1606 | -.422 | | 1.193 | -0.35 | | .723 | -2.765 | | 1.92 | |  | | Constant | -15.828 | | 6.396 | -2.47 | | .014 | -28.385 | | -3.271 | | \*\* | | gcvi\_16 | 22.276 | | 1.186 | 18.78 | | 0 | 19.948 | | 24.605 | | \*\*\* | | csm\_16 | 1.021 | | .11 | 9.31 | | 0 | .805 | | 1.236 | | \*\*\* | | sol\_me\_1606 | -.065 | | .438 | -0.15 | | .882 | -.925 | | .795 | |  | | Constant | -13.705 | | 2.093 | -6.55 | | 0 | -17.815 | | -9.596 | | \*\*\* | | gcvi\_16 | 21.765 | | .815 | 26.72 | | 0 | 20.166 | | 23.365 | | \*\*\* | | csm\_16 | .828 | | .097 | 8.56 | | 0 | .638 | | 1.018 | | \*\*\* | | sol\_me\_1606 | -.169 | | .524 | -0.32 | | .748 | -1.197 | | .86 | |  | | Constant | -11.798 | | 2.738 | -4.31 | | 0 | -17.174 | | -6.423 | | \*\*\* | |  | | | | | | | | | | | | | Mean dependent var | | 5.736 | | | SD dependent var | | | 1.069 | | | Pseudo r-squared 0.25 | | 0.406 | | | Number of obs | | | 1722.000 | | | Pseudo r-squared 0.50 | | 0.352 | | | Number of obs | | | 1722.000 | | | Pseudo r-squared 0.75 | | 0.354 | | | Number of obs | | | 1722.000 | | | *\*\*\* p<.01, \*\* p<.05, \* p<.1* | | | | | | | | | | | | | |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | yield | Coef. | | St.Err. | t-value | | p-value | [95% Conf | | Interval] | | Sig | | gcvi\_20 | 23.312 | | 1.207 | 19.31 | | 0 | 20.942 | | 25.683 | | \*\*\* | | csm\_16 | 1.119 | | .116 | 9.63 | | 0 | .891 | | 1.347 | | \*\*\* | | sol\_me\_1606 | -1.909 | | .965 | -1.98 | | .048 | -3.804 | | -.015 | | \*\* | | Constant | -4.829 | | 5.097 | -0.95 | | .344 | -14.836 | | 5.177 | |  | | gcvi\_20 | 20.573 | | 1.244 | 16.53 | | 0 | 18.13 | | 23.016 | | \*\*\* | | csm\_16 | 1.043 | | .145 | 7.17 | | 0 | .757 | | 1.328 | | \*\*\* | | sol\_me\_1606 | -4.199 | | .846 | -4.96 | | 0 | -5.86 | | -2.539 | | \*\*\* | | Constant | 10.17 | | 4.129 | 2.46 | | .014 | 2.065 | | 18.276 | | \*\* | | gcvi\_20 | 20.478 | | .651 | 31.43 | | 0 | 19.199 | | 21.757 | | \*\*\* | | csm\_16 | 1.072 | | .071 | 15.12 | | 0 | .933 | | 1.212 | | \*\*\* | | sol\_me\_1606 | -4.46 | | .568 | -7.85 | | 0 | -5.576 | | -3.344 | | \*\*\* | | Constant | 11.797 | | 3.124 | 3.78 | | 0 | 5.664 | | 17.93 | | \*\*\* | |  | | | | | | | | | | | | | Mean dependent var | | 5.736 | | | SD dependent var | | | 1.069 | | | Pseudo r-squared 0.25 | | 0.406 | | | Number of obs | | | 1722.000 | | | Pseudo r-squared 0.50 | | 0.352 | | | Number of obs | | | 1722.000 | | | Pseudo r-squared 0.75 | | 0.354 | | | Number of obs | | | 1722.000 | | | *\*\*\* p<.01, \*\* p<.05, \* p<.1* | | | | | | | | | | | | |
| |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | yield | Coef. | | St.Err. | t-value | | p-value | [95% Conf | | Interval] | | Sig | | gcvi\_16 | 23.746 | | 2.503 | 9.49 | | 0 | 18.833 | | 28.659 | | \*\*\* | | csm\_20 | 2.44 | | .487 | 5.01 | | 0 | 1.484 | | 3.396 | | \*\*\* | | sol\_me\_2005 | -8.124 | | 3.211 | -2.53 | | .012 | -14.429 | | -1.819 | | \*\* | | Constant | 22.719 | | 16.24 | 1.40 | | .162 | -9.164 | | 54.602 | |  | | gcvi\_16 | 21.596 | | 1.511 | 14.29 | | 0 | 18.629 | | 24.563 | | \*\*\* | | csm\_20 | 1.819 | | .206 | 8.83 | | 0 | 1.415 | | 2.224 | | \*\*\* | | sol\_me\_2005 | -8.72 | | 1.909 | -4.57 | | 0 | -12.469 | | -4.971 | | \*\*\* | | Constant | 29.148 | | 10.059 | 2.90 | | .004 | 9.399 | | 48.898 | | \*\*\* | | gcvi\_16 | 21.922 | | 1.066 | 20.57 | | 0 | 19.83 | | 24.014 | | \*\*\* | | csm\_20 | 1.644 | | .217 | 7.59 | | 0 | 1.219 | | 2.07 | | \*\*\* | | sol\_me\_2005 | -6.957 | | 1.174 | -5.93 | | 0 | -9.261 | | -4.653 | | \*\*\* | | Constant | 20.825 | | 6.299 | 3.31 | | .001 | 8.459 | | 33.191 | | \*\*\* | |  | | | | | | | | | | | | | Mean dependent var | | 5.736 | | | SD dependent var | | | 1.069 | | | Pseudo r-squared 0.25 | | 0.406 | | | Number of obs | | | 1722.000 | | | Pseudo r-squared 0.50 | | 0.352 | | | Number of obs | | | 1722.000 | | | Pseudo r-squared 0.75 | | 0.354 | | | Number of obs | | | 1722.000 | | | *\*\*\* p<.01, \*\* p<.05, \* p<.1* | | | | | | | | | | | | | |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | yield | Coef. | | St.Err. | t-value | | p-value | [95% Conf | | Interval] | | Sig | | gcvi\_20 | 21.905 | | 1.296 | 16.91 | | 0 | 19.362 | | 24.449 | | \*\*\* | | csm\_16 | 1.184 | | .115 | 10.32 | | 0 | .958 | | 1.409 | | \*\*\* | | sol\_me\_2005 | -1.265 | | 1.255 | -1.01 | | .314 | -3.728 | | 1.198 | |  | | Constant | -8.119 | | 6.898 | -1.18 | | .24 | -21.663 | | 5.424 | |  | | gcvi\_20 | 17.661 | | 1.03 | 17.15 | | 0 | 15.639 | | 19.682 | | \*\*\* | | csm\_16 | 1.067 | | .098 | 10.84 | | 0 | .874 | | 1.26 | | \*\*\* | | sol\_me\_2005 | -4.051 | | 1.05 | -3.86 | | 0 | -6.112 | | -1.99 | | \*\*\* | | Constant | 9.536 | | 5.461 | 1.75 | | .081 | -1.186 | | 20.257 | | \* | | gcvi\_20 | 17.002 | | 1.298 | 13.09 | | 0 | 14.453 | | 19.551 | | \*\*\* | | csm\_16 | 1.071 | | .058 | 18.39 | | 0 | .957 | | 1.185 | | \*\*\* | | sol\_me\_2005 | -4.228 | | 1.242 | -3.40 | | .001 | -6.667 | | -1.789 | | \*\*\* | | Constant | 11.147 | | 6.876 | 1.62 | | .105 | -2.352 | | 24.646 | |  | |  | | | | | | | | | | | | | Mean dependent var | | 5.736 | | | SD dependent var | | | 1.069 | | | Pseudo r-squared 0.25 | | 0.406 | | | Number of obs | | | 1722.000 | | | Pseudo r-squared 0.50 | | 0.352 | | | Number of obs | | | 1722.000 | | | Pseudo r-squared 0.75 | | 0.354 | | | Number of obs | | | 1722.000 | | | *\*\*\* p<.01, \*\* p<.05, \* p<.1* | | | | | | | | | | | | |
| **CIred index** | |
| |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | yield | Coef. | | St.Err. | t-value | | p-value | [95% Conf | | Interval] | | Sig | | gcvi\_20 | 21.905 | | 1.296 | 16.91 | | 0 | 19.362 | | 24.449 | | \*\*\* | | csm\_16 | 1.184 | | .115 | 10.32 | | 0 | .958 | | 1.409 | | \*\*\* | | sol\_me\_2005 | -1.265 | | 1.255 | -1.01 | | .314 | -3.728 | | 1.198 | |  | | Constant | -8.119 | | 6.898 | -1.18 | | .24 | -21.663 | | 5.424 | |  | | gcvi\_20 | 17.661 | | 1.03 | 17.15 | | 0 | 15.639 | | 19.682 | | \*\*\* | | csm\_16 | 1.067 | | .098 | 10.84 | | 0 | .874 | | 1.26 | | \*\*\* | | sol\_me\_2005 | -4.051 | | 1.05 | -3.86 | | 0 | -6.112 | | -1.99 | | \*\*\* | | Constant | 9.536 | | 5.461 | 1.75 | | .081 | -1.186 | | 20.257 | | \* | | gcvi\_20 | 17.002 | | 1.298 | 13.09 | | 0 | 14.453 | | 19.551 | | \*\*\* | | csm\_16 | 1.071 | | .058 | 18.39 | | 0 | .957 | | 1.185 | | \*\*\* | | sol\_me\_2005 | -4.228 | | 1.242 | -3.40 | | .001 | -6.667 | | -1.789 | | \*\*\* | | Constant | 11.147 | | 6.876 | 1.62 | | .105 | -2.352 | | 24.646 | |  | |  | | | | | | | | | | | | | Mean dependent var | | 5.736 | | | SD dependent var | | | 1.069 | | | Pseudo r-squared 0.25 | | 0.406 | | | Number of obs | | | 1722.000 | | | Pseudo r-squared 0.50 | | 0.352 | | | Number of obs | | | 1722.000 | | | Pseudo r-squared 0.75 | | 0.354 | | | Number of obs | | | 1722.000 | | | *\*\*\* p<.01, \*\* p<.05, \* p<.1* | | | | | | | | | | | | | |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | yield | Coef. | | St.Err. | t-value | | p-value | [95% Conf | | Interval] | | Sig | | cired\_20 | 2.611 | | .123 | 21.27 | | 0 | 2.37 | | 2.852 | | \*\*\* | | csm\_16 | 1.164 | | .109 | 10.71 | | 0 | .95 | | 1.377 | | \*\*\* | | sol\_me\_1606 | -.219 | | .733 | -0.30 | | .766 | -1.658 | | 1.22 | |  | | Constant | -2.387 | | 4.121 | -0.58 | | .563 | -10.478 | | 5.703 | |  | | cired\_20 | 2.284 | | .106 | 21.50 | | 0 | 2.075 | | 2.492 | | \*\*\* | | csm\_16 | 1.072 | | .081 | 13.22 | | 0 | .913 | | 1.231 | | \*\*\* | | sol\_me\_1606 | -1.151 | | .955 | -1.21 | | .229 | -3.025 | | .724 | |  | | Constant | 3.953 | | 5.112 | 0.77 | | .44 | -6.084 | | 13.989 | |  | | cired\_20 | 2.193 | | .104 | 21.04 | | 0 | 1.989 | | 2.398 | | \*\*\* | | csm\_16 | 1.024 | | .051 | 20.06 | | 0 | .924 | | 1.124 | | \*\*\* | | sol\_me\_1606 | -.816 | | .586 | -1.39 | | .164 | -1.967 | | .334 | |  | | Constant | 2.759 | | 3.107 | 0.89 | | .375 | -3.34 | | 8.859 | |  | |  | | | | | | | | | | | | | Mean dependent var | | 5.736 | | | SD dependent var | | | 1.069 | | | Pseudo r-squared 0.25 | | 0.406 | | | Number of obs | | | 1722.000 | | | Pseudo r-squared 0.50 | | 0.352 | | | Number of obs | | | 1722.000 | | | Pseudo r-squared 0.75 | | 0.354 | | | Number of obs | | | 1722.000 | | | *\*\*\* p<.01, \*\* p<.05, \* p<.1* | | | | | | | | | | | | |
| |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | yield | Coef. | | St.Err. | t-value | | p-value | [95% Conf | | Interval] | | Sig | | cired\_16 | 2.558 | | .227 | 11.25 | | 0 | 2.112 | | 3.004 | | \*\*\* | | csm\_20 | 2.428 | | .518 | 4.69 | | 0 | 1.411 | | 3.444 | | \*\*\* | | sol\_me\_2005 | -7.678 | | 2.553 | -3.01 | | .003 | -12.69 | | -2.666 | | \*\*\* | | Constant | 32.973 | | 12.412 | 2.66 | | .008 | 8.604 | | 57.341 | | \*\*\* | | cired\_16 | 2.355 | | .098 | 23.92 | | 0 | 2.162 | | 2.549 | | \*\*\* | | csm\_20 | 1.57 | | .182 | 8.65 | | 0 | 1.214 | | 1.927 | | \*\*\* | | sol\_me\_2005 | -6.828 | | 1.143 | -5.98 | | 0 | -9.071 | | -4.585 | | \*\*\* | | Constant | 31.612 | | 5.617 | 5.63 | | 0 | 20.585 | | 42.64 | | \*\*\* | | cired\_16 | 2.141 | | .13 | 16.53 | | 0 | 1.887 | | 2.395 | | \*\*\* | | csm\_20 | 1.463 | | .191 | 7.64 | | 0 | 1.087 | | 1.838 | | \*\*\* | | sol\_me\_2005 | -6.635 | | .665 | -9.97 | | 0 | -7.941 | | -5.328 | | \*\*\* | | Constant | 31.579 | | 3.259 | 9.69 | | 0 | 25.181 | | 37.977 | | \*\*\* | |  | | | | | | | | | | | | | Mean dependent var | | 5.736 | | | SD dependent var | | | 1.069 | | | Pseudo r-squared 0.25 | | 0.406 | | | Number of obs | | | 1722.000 | | | Pseudo r-squared 0.50 | | 0.352 | | | Number of obs | | | 1722.000 | | | Pseudo r-squared 0.75 | | 0.354 | | | Number of obs | | | 1722.000 | | | *\*\*\* p<.01, \*\* p<.05, \* p<.1* | | | | | | | | | | | | | |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | yield | Coef. | | St.Err. | t-value | | p-value | [95% Conf | | Interval] | | Sig | | cired\_20 | 2.797 | | .12 | 23.36 | | 0 | 2.562 | | 3.032 | | \*\*\* | | csm\_16 | 1.179 | | .112 | 10.51 | | 0 | .959 | | 1.399 | | \*\*\* | | sol\_me\_2005 | 4.612 | | 1.667 | 2.77 | | .006 | 1.339 | | 7.885 | | \*\*\* | | Constant | -26.92 | | 8.455 | -3.18 | | .002 | -43.518 | | -10.321 | | \*\*\* | | cired\_20 | 2.437 | | .122 | 19.91 | | 0 | 2.197 | | 2.677 | | \*\*\* | | csm\_16 | .977 | | .107 | 9.16 | | 0 | .767 | | 1.186 | | \*\*\* | | sol\_me\_2005 | 2.421 | | .997 | 2.43 | | .015 | .463 | | 4.378 | | \*\* | | Constant | -14.262 | | 5.055 | -2.82 | | .005 | -24.186 | | -4.337 | | \*\*\* | | cired\_20 | 2.119 | | .122 | 17.41 | | 0 | 1.88 | | 2.358 | | \*\*\* | | csm\_16 | 1.037 | | .064 | 16.31 | | 0 | .912 | | 1.162 | | \*\*\* | | sol\_me\_2005 | -.39 | | 1.23 | -0.32 | | .751 | -2.805 | | 2.025 | |  | | Constant | .371 | | 6.26 | 0.06 | | .953 | -11.918 | | 12.66 | |  | |  | | | | | | | | | | | | | Mean dependent var | | 5.736 | | | SD dependent var | | | 1.069 | | | Pseudo r-squared 0.25 | | 0.406 | | | Number of obs | | | 1722.000 | | | Pseudo r-squared 0.50 | | 0.352 | | | Number of obs | | | 1722.000 | | | Pseudo r-squared 0.75 | | 0.354 | | | Number of obs | | | 1722.000 | | | *\*\*\* p<.01, \*\* p<.05, \* p<.1* | | | | | | | | | | | | |
| **SCCCI index** | |
| |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | yield | Coef. | | St.Err. | t-value | | p-value | [95% Conf | | Interval] | | Sig | | sccci\_16 | 31.241 | | 1.535 | 20.35 | | 0 | 28.228 | | 34.254 | | \*\*\* | | csm\_16 | 1.196 | | .135 | 8.86 | | 0 | .931 | | 1.461 | | \*\*\* | | sol\_me\_1606 | 3.898 | | .789 | 4.94 | | 0 | 2.348 | | 5.448 | | \*\*\* | | Constant | -38.731 | | 4.451 | -8.70 | | 0 | -47.469 | | -29.993 | | \*\*\* | | sccci\_16 | 30.503 | | 1.663 | 18.34 | | 0 | 27.238 | | 33.768 | | \*\*\* | | csm\_16 | 1.142 | | .099 | 11.57 | | 0 | .948 | | 1.335 | | \*\*\* | | sol\_me\_1606 | 3.442 | | .669 | 5.15 | | 0 | 2.13 | | 4.755 | | \*\*\* | | Constant | -35.248 | | 3.953 | -8.92 | | 0 | -43.01 | | -27.487 | | \*\*\* | | sccci\_16 | 24.302 | | 1.634 | 14.88 | | 0 | 21.095 | | 27.509 | | \*\*\* | | csm\_16 | 1.153 | | .106 | 10.87 | | 0 | .945 | | 1.361 | | \*\*\* | | sol\_me\_1606 | 3.222 | | .75 | 4.30 | | 0 | 1.749 | | 4.695 | | \*\*\* | | Constant | -30.088 | | 4.276 | -7.04 | | 0 | -38.484 | | -21.692 | | \*\*\* | |  | | | | | | | | | | | | | Mean dependent var | | 5.736 | | | SD dependent var | | | 1.069 | | | Pseudo r-squared 0.25 | | 0.406 | | | Number of obs | | | 1722.000 | | | Pseudo r-squared 0.50 | | 0.352 | | | Number of obs | | | 1722.000 | | | Pseudo r-squared 0.75 | | 0.354 | | | Number of obs | | | 1722.000 | | | *\*\*\* p<.01, \*\* p<.05, \* p<.1* | | | | | | | | | | | | | |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | yield | Coef. | | St.Err. | t-value | | p-value | [95% Conf | | Interval] | | Sig | | sccci\_20 | 27.832 | | 1.067 | 26.08 | | 0 | 25.737 | | 29.927 | | \*\*\* | | csm\_16 | 1.121 | | .106 | 10.60 | | 0 | .913 | | 1.328 | | \*\*\* | | sol\_me\_1606 | 5.151 | | .812 | 6.35 | | 0 | 3.558 | | 6.745 | | \*\*\* | | Constant | -43.399 | | 4.435 | -9.78 | | 0 | -52.107 | | -34.691 | | \*\*\* | | sccci\_20 | 26.097 | | .997 | 26.17 | | 0 | 24.14 | | 28.055 | | \*\*\* | | csm\_16 | 1.18 | | .095 | 12.36 | | 0 | .992 | | 1.367 | | \*\*\* | | sol\_me\_1606 | 5.039 | | .549 | 9.19 | | 0 | 3.962 | | 6.116 | | \*\*\* | | Constant | -41.559 | | 2.836 | -14.6 | | 0 | -47.126 | | -35.991 | | \*\*\* | | sccci\_20 | 24.942 | | 1.663 | 15.00 | | 0 | 21.677 | | 28.208 | | \*\*\* | | csm\_16 | 1.069 | | .064 | 16.60 | | 0 | .942 | | 1.195 | | \*\*\* | | sol\_me\_1606 | 4.758 | | .653 | 7.29 | | 0 | 3.477 | | 6.039 | | \*\*\* | | Constant | -38.628 | | 3.992 | -9.68 | | 0 | -46.466 | | -30.791 | | \*\*\* | |  | | | | | | | | | | | | | Mean dependent var | | 5.736 | | | SD dependent var | | | 1.069 | | | Pseudo r-squared 0.25 | | 0.406 | | | Number of obs | | | 1722.000 | | | Pseudo r-squared 0.50 | | 0.352 | | | Number of obs | | | 1722.000 | | | Pseudo r-squared 0.75 | | 0.354 | | | Number of obs | | | 1722.000 | | | *\*\*\* p<.01, \*\* p<.05, \* p<.1* | | | | | | | | | | | | |
| |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | yield | Coef. | | St.Err. | t-value | | p-value | [95% Conf | | Interval] | | Sig | | sccci\_16 | 25.373 | | 2.215 | 11.46 | | 0 | 21.024 | | 29.721 | | \*\*\* | | csm\_20 | 2.724 | | .367 | 7.41 | | 0 | 2.002 | | 3.445 | | \*\*\* | | sol\_me\_2005 | -11.625 | | 2.155 | -5.39 | | 0 | -15.857 | | -7.394 | | \*\*\* | | Constant | 41.441 | | 11.47 | 3.61 | | 0 | 18.921 | | 63.96 | | \*\*\* | | sccci\_16 | 25.166 | | 1.403 | 17.93 | | 0 | 22.411 | | 27.921 | | \*\*\* | | csm\_20 | 1.801 | | .252 | 7.16 | | 0 | 1.307 | | 2.294 | | \*\*\* | | sol\_me\_2005 | -12.213 | | 1.851 | -6.60 | | 0 | -15.847 | | -8.579 | | \*\*\* | | Constant | 47.14 | | 9.209 | 5.12 | | 0 | 29.06 | | 65.22 | | \*\*\* | | sccci\_16 | 25.969 | | 1.745 | 14.88 | | 0 | 22.544 | | 29.395 | | \*\*\* | | csm\_20 | 1.522 | | .195 | 7.81 | | 0 | 1.139 | | 1.904 | | \*\*\* | | sol\_me\_2005 | -10.043 | | 1.127 | -8.91 | | 0 | -12.255 | | -7.83 | | \*\*\* | | Constant | 36.843 | | 5.617 | 6.56 | | 0 | 25.815 | | 47.87 | | \*\*\* | |  | | | | | | | | | | | | | Mean dependent var | | 5.736 | | | SD dependent var | | | 1.069 | | | Pseudo r-squared 0.25 | | 0.406 | | | Number of obs | | | 1722.000 | | | Pseudo r-squared 0.50 | | 0.352 | | | Number of obs | | | 1722.000 | | | Pseudo r-squared 0.75 | | 0.354 | | | Number of obs | | | 1722.000 | | | *\*\*\* p<.01, \*\* p<.05, \* p<.1* | | | | | | | | | | | | | |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | yield | Coef. | | St.Err. | t-value | | p-value | [95% Conf | | Interval] | | Sig | | sccci\_20 | 28.011 | | 1.52 | 18.42 | | 0 | 25.026 | | 30.996 | | \*\*\* | | csm\_16 | 1.329 | | .138 | 9.61 | | 0 | 1.058 | | 1.601 | | \*\*\* | | sol\_me\_2005 | 2.128 | | 1.495 | 1.42 | | .155 | -.807 | | 5.062 | |  | | Constant | -26.982 | | 8.151 | -3.31 | | .001 | -42.984 | | -10.979 | | \*\*\* | | sccci\_20 | 24.981 | | 2.035 | 12.27 | | 0 | 20.985 | | 28.977 | | \*\*\* | | csm\_16 | 1.278 | | .122 | 10.44 | | 0 | 1.038 | | 1.519 | | \*\*\* | | sol\_me\_2005 | -3.333 | | 2.143 | -1.56 | | .12 | -7.54 | | .875 | |  | | Constant | 2.593 | | 11.675 | 0.22 | | .824 | -20.328 | | 25.515 | |  | | sccci\_20 | 20.481 | | 1.093 | 18.75 | | 0 | 18.336 | | 22.626 | | \*\*\* | | csm\_16 | 1.19 | | .103 | 11.57 | | 0 | .988 | | 1.392 | | \*\*\* | | sol\_me\_2005 | -5.858 | | 1.613 | -3.63 | | 0 | -9.024 | | -2.692 | | \*\*\* | | Constant | 18.527 | | 8.178 | 2.27 | | .024 | 2.47 | | 34.583 | | \*\* | |  | | | | | | | | | | | | | Mean dependent var | | 5.736 | | | SD dependent var | | | 1.069 | | | Pseudo r-squared 0.25 | | 0.406 | | | Number of obs | | | 1722.000 | | | Pseudo r-squared 0.50 | | 0.352 | | | Number of obs | | | 1722.000 | | | Pseudo r-squared 0.75 | | 0.354 | | | Number of obs | | | 1722.000 | | | *\*\*\* p<.01, \*\* p<.05, \* p<.1* | | | | | | | | | | | | |
| **NDVI index** | |
| |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | yield | Coef. | | St.Err. | t-value | | p-value | [95% Conf | | Interval] | | Sig | | ndvi\_16 | 20.813 | | 1.561 | 13.33 | | 0 | 17.748 | | 23.877 | | \*\*\* | | csm\_16 | 1.225 | | .146 | 8.40 | | 0 | .938 | | 1.511 | | \*\*\* | | sol\_me\_1606 | .573 | | 1.002 | 0.57 | | .568 | -1.394 | | 2.54 | |  | | Constant | -18.724 | | 5.355 | -3.50 | | .001 | -29.238 | | -8.21 | | \*\*\* | | ndvi\_16 | 17.457 | | .75 | 23.28 | | 0 | 15.984 | | 18.929 | | \*\*\* | | csm\_16 | .998 | | .053 | 18.87 | | 0 | .894 | | 1.101 | | \*\*\* | | sol\_me\_1606 | .186 | | .595 | 0.31 | | .755 | -.983 | | 1.354 | |  | | Constant | -12.69 | | 3.278 | -3.87 | | 0 | -19.124 | | -6.255 | | \*\*\* | | ndvi\_16 | 16.987 | | .931 | 18.25 | | 0 | 15.159 | | 18.815 | | \*\*\* | | csm\_16 | .869 | | .108 | 8.03 | | 0 | .656 | | 1.081 | | \*\*\* | | sol\_me\_1606 | -.174 | | .5 | -0.35 | | .728 | -1.155 | | .807 | |  | | Constant | -9.594 | | 2.911 | -3.30 | | .001 | -15.309 | | -3.879 | | \*\*\* | |  | | | | | | | | | | | | | Mean dependent var | | 5.736 | | | SD dependent var | | | 1.069 | | | Pseudo r-squared 0.25 | | 0.406 | | | Number of obs | | | 1722.000 | | | Pseudo r-squared 0.50 | | 0.352 | | | Number of obs | | | 1722.000 | | | Pseudo r-squared 0.75 | | 0.354 | | | Number of obs | | | 1722.000 | | | *\*\*\* p<.01, \*\* p<.05, \* p<.1* | | | | | | | | | | | | | |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | yield | Coef. | | St.Err. | t-value | | p-value | [95% Conf | | Interval] | | Sig | | ndvi\_20 | 17.714 | | .904 | 19.59 | | 0 | 15.939 | | 19.49 | | \*\*\* | | csm\_16 | 1.283 | | .212 | 6.04 | | 0 | .866 | | 1.7 | | \*\*\* | | sol\_me\_1606 | -4.172 | | 1.305 | -3.20 | | .001 | -6.734 | | -1.61 | | \*\*\* | | Constant | 9.567 | | 7.296 | 1.31 | | .19 | -4.757 | | 23.891 | |  | | ndvi\_20 | 15.159 | | .788 | 19.24 | | 0 | 13.612 | | 16.706 | | \*\*\* | | csm\_16 | 1.237 | | .097 | 12.76 | | 0 | 1.047 | | 1.427 | | \*\*\* | | sol\_me\_1606 | -5.236 | | .863 | -6.07 | | 0 | -6.929 | | -3.542 | | \*\*\* | | Constant | 17.887 | | 4.821 | 3.71 | | 0 | 8.423 | | 27.351 | | \*\*\* | | ndvi\_20 | 14.296 | | .829 | 17.24 | | 0 | 12.669 | | 15.924 | | \*\*\* | | csm\_16 | 1.172 | | .107 | 10.93 | | 0 | .961 | | 1.383 | | \*\*\* | | sol\_me\_1606 | -5.831 | | 1.142 | -5.11 | | 0 | -8.073 | | -3.589 | | \*\*\* | | Constant | 22.329 | | 6.341 | 3.52 | | 0 | 9.88 | | 34.777 | | \*\*\* | |  | | | | | | | | | | | | | Mean dependent var | | 5.736 | | | SD dependent var | | | 1.069 | | | Pseudo r-squared 0.25 | | 0.406 | | | Number of obs | | | 1722.000 | | | Pseudo r-squared 0.50 | | 0.352 | | | Number of obs | | | 1722.000 | | | Pseudo r-squared 0.75 | | 0.354 | | | Number of obs | | | 1722.000 | | | *\*\*\* p<.01, \*\* p<.05, \* p<.1* | | | | | | | | | | | | |
| |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | yield | Coef. | | St.Err. | t-value | | p-value | [95% Conf | | Interval] | | Sig | | ndvi\_16 | 19.052 | | 1.464 | 13.02 | | 0 | 16.178 | | 21.925 | | \*\*\* | | csm\_20 | 2.328 | | .421 | 5.53 | | 0 | 1.502 | | 3.154 | | \*\*\* | | sol\_me\_2005 | -9.846 | | 2.993 | -3.29 | | .001 | -15.723 | | -3.969 | | \*\*\* | | Constant | 33.594 | | 14.786 | 2.27 | | .023 | 4.566 | | 62.622 | | \*\* | | ndvi\_16 | 17.819 | | 1.283 | 13.88 | | 0 | 15.3 | | 20.339 | | \*\*\* | | csm\_20 | 1.939 | | .18 | 10.77 | | 0 | 1.585 | | 2.292 | | \*\*\* | | sol\_me\_2005 | -8.329 | | 1.415 | -5.89 | | 0 | -11.107 | | -5.55 | | \*\*\* | | Constant | 28.415 | | 7.484 | 3.80 | | 0 | 13.722 | | 43.108 | | \*\*\* | | ndvi\_16 | 17.214 | | .963 | 17.88 | | 0 | 15.324 | | 19.104 | | \*\*\* | | csm\_20 | 1.48 | | .166 | 8.89 | | 0 | 1.154 | | 1.807 | | \*\*\* | | sol\_me\_2005 | -7.297 | | 1.322 | -5.52 | | 0 | -9.892 | | -4.701 | | \*\*\* | | Constant | 25.159 | | 7.067 | 3.56 | | 0 | 11.285 | | 39.033 | | \*\*\* | |  | | | | | | | | | | | | | Mean dependent var | | 5.736 | | | SD dependent var | | | 1.069 | | | Pseudo r-squared 0.25 | | 0.406 | | | Number of obs | | | 1722.000 | | | Pseudo r-squared 0.50 | | 0.352 | | | Number of obs | | | 1722.000 | | | Pseudo r-squared 0.75 | | 0.354 | | | Number of obs | | | 1722.000 | | | *\*\*\* p<.01, \*\* p<.05, \* p<.1* | | | | | | | | | | | | | |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | yield | Coef. | | St.Err. | t-value | | p-value | [95% Conf | | Interval] | | Sig | | ndvi\_20 | 15.988 | | .908 | 17.60 | | 0 | 14.204 | | 17.771 | | \*\*\* | | csm\_16 | 1.254 | | .187 | 6.69 | | 0 | .886 | | 1.622 | | \*\*\* | | sol\_me\_2005 | -3.471 | | 2.519 | -1.38 | | .169 | -8.415 | | 1.474 | |  | | Constant | 5.668 | | 12.876 | 0.44 | | .66 | -19.611 | | 30.947 | |  | | ndvi\_20 | 11.613 | | .927 | 12.53 | | 0 | 9.794 | | 13.432 | | \*\*\* | | csm\_16 | 1.202 | | .139 | 8.63 | | 0 | .928 | | 1.475 | | \*\*\* | | sol\_me\_2005 | -6.118 | | 1.298 | -4.71 | | 0 | -8.666 | | -3.57 | | \*\*\* | | Constant | 22.829 | | 6.986 | 3.27 | | .001 | 9.113 | | 36.545 | | \*\*\* | | ndvi\_20 | 9.803 | | 1.04 | 9.43 | | 0 | 7.761 | | 11.844 | | \*\*\* | | csm\_16 | 1.234 | | .093 | 13.32 | | 0 | 1.052 | | 1.415 | | \*\*\* | | sol\_me\_2005 | -6.643 | | 1.183 | -5.61 | | 0 | -8.966 | | -4.32 | | \*\*\* | | Constant | 27.045 | | 6.511 | 4.15 | | 0 | 14.263 | | 39.828 | | \*\*\* | |  | | | | | | | | | | | | | Mean dependent var | | 5.736 | | | SD dependent var | | | 1.069 | | | Pseudo r-squared 0.25 | | 0.406 | | | Number of obs | | | 1722.000 | | | Pseudo r-squared 0.50 | | 0.352 | | | Number of obs | | | 1722.000 | | | Pseudo r-squared 0.75 | | 0.354 | | | Number of obs | | | 1722.000 | | | *\*\*\* p<.01, \*\* p<.05, \* p<.1* | | | | | | | | | | | | |

Figure S1. Quantiale regression graphs

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| **NDRE index** | |
| D:\IAMO_papers\Drone_Paper\Figure_high_quality\graph\ndre16.jpg | D:\IAMO_papers\Drone_Paper\Figure_high_quality\graph\ndre20.jpg |
| D:\IAMO_papers\Drone_Paper\Figure_high_quality\graph\ndre1616.jpg | D:\IAMO_papers\Drone_Paper\Figure_high_quality\graph\ndre1620.jpg |
| **EVI2 index** | |
| D:\IAMO_papers\Drone_Paper\Figure_high_quality\graph\evi1616.jpg | **D:\IAMO_papers\Drone_Paper\Figure_high_quality\graph\evi1620.jpg** |
| D:\IAMO_papers\Drone_Paper\Figure_high_quality\graph\evi2016.jpg | D:\IAMO_papers\Drone_Paper\Figure_high_quality\graph\evi2020.jpg |
| **GCVI index** | |
| D:\IAMO_papers\Drone_Paper\Figure_high_quality\graph\gcvi1616.jpg | D:\IAMO_papers\Drone_Paper\Figure_high_quality\graph\gcvi1620.jpg |
| D:\IAMO_papers\Drone_Paper\Figure_high_quality\graph\gcvi2016.jpg | D:\IAMO_papers\Drone_Paper\Figure_high_quality\graph\gcvi2020.jpg |
| **CIred index** | |
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| D:\IAMO_papers\Drone_Paper\Figure_high_quality\graph\cired2016.jpg | D:\IAMO_papers\Drone_Paper\Figure_high_quality\graph\cired2020.jpg |
| **NDVI index** | |
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| D:\IAMO_papers\Drone_Paper\Figure_high_quality\graph\ndvi2016.jpg | D:\IAMO_papers\Drone_Paper\Figure_high_quality\graph\cired2020.jpg |
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