|  | **(1)** | **(2)** | **(3)** | **(4)** | **(5)** | **(6)** |
| --- | --- | --- | --- | --- | --- | --- |
| **Yield Measure** | Mg/ha | Mg/ha | Mg/ha | M Kcals/ha | M Kcals /ha | M Kcals /ha |
| **Scale** | Globe | Tropics | Temperate | Globe | Tropics | Temperate |
| Soil Score | -2.605  (3.583) | -0.142  (1.972) | -1.477  (3.937) | -4.526\* (2.517) | 2.315  (7.071) | -4.862\*\*\* (1.776) |
| Cropped area (1,000,000 ha) | -0.009  (0.006) | 0.030\*\*\* (0.008) | -0.001  (0.008) | 0.036\*\* (0.015) | 0.112\*\*\* (0.034) | 0.069\*\*\* (0.011) |
| Percentage of cropped area in fruit production | 0.037\*  (0.021) | 0.117\*\*\* (0.025) | -0.029  (0.028) | 0.122\*\*\* (0.039) | 0.213\*\* (0.088) | 0.037\*\* (0.017) |
| Percentage of cropped area in grain (less wheat) production | -0.035\*\*\* (0.007) | -0.025\*\*\* (0.007) | -0.050\*\*\* (0.011) | -0.042\*\*\* (0.013) | -0.094\*\*\* (0.023) | 0.002  (0.011) |
| Percentage of cropped area in oil crop production | -0.021\*\*\* (0.007) | -0.001  (0.007) | -0.063\*\*\* (0.012) | -0.0004 (0.014) | -0.009  (0.025) | -0.007  (0.012) |
| Percentage of cropped area in rice crop production | 0.004  (0.009) | 0.017  (0.011) | -0.024  (0.016) | 0.066\*\*\* (0.024) | 0.084  (0.039) | 0.174\*\*\* (0.022) |
| Percentage of cropped area in roots and tubers production | 0.035\*\* (0.014) | 0.059\*\*\* (0.015) | 0.055  (0.036) | -0.054  (0.034) | 0.089\*  (0.048) | -0.121\*\* (0.033) |
| Percentage of cropped area in sugarcane production | 0.535\*\*\* (0.034) | 0.524\*\*\* (0.034) | 0.747\*\*\* (0.046) | 2.217\*\*\*  (0.129) | 2.048\*\*\* (0.129) | 3.206\*\*\* (0.133) |
| Percentage of cropped area in wheat production | -0.030\*\*\* (0.008) | -0.221\*\*\* (0.037) | -0.054\*\*\* (0.013) | 0.051\*\*\* (0.014) | -0.712\*\*\* (0.138) | 0.074\*\*\* (0.011) |
| Growing season daytime temperature (degrees Celsius) | -0.361  (0.237) | -2.413\*\*\* (0.703) | -0.095  (0.273) | 0.467  (0.431) | -4.448\* (2.359) | 0.576\*  (0.310) |
| The square of growing season daytime temperature | 0.004  (0.005) | 0.035\*\*\* (0.012) | 0.002  (0.006) | -0.016\* (0.008) | 0.056  (0.040) | -0.010\*  (0.006) |
| Growing season nighttime temperature (degrees Celsius) | 0.566\*\*\* (0.177) | 1.03\*\*  (0.418) | 0.031  (0.233) | 0.279  (0.398) | 2.354  (1.452) | -0.883\*\*\* (0.265) |
| The square of growing season nighttime temperature | -0.013\*\* (0.006) | -0.020\*  (0.012) | -0.004  (0.009) | 0.001  (0.014) | -0.038  (0.041) | 0.022\*\* (0.009) |
| Growing season precipitation (mm) | 0.001  (0.001) | 0.001  (0.002) | 0.006\*\*\* (0.002) | -0.001  (0.005) | 0.001  (0.006) | 0.008\*  (0.004) |
| The square of growing season precipitation | -1.15x10-6 (1.27x10-6) | -9.1x10-7 (1.39x10-6) | -8.94x10-6\*\* (3.83x10-6) | -7.67x10-7 (4.35x10-6) | -7.00x10-7 (5.06x10-6) | -1.74x10-5\*\* (7.19x10-6) |
| Hectares equipped for irrigation / cropped area | 0.332\*\* (0.166) | 0.943  (0.850) | 1.220\*\*\* (0.374) | 0.844\*\*\* (0.166) | 0.521  (3.14) | 1.41\*  (0.789) |
| Equipment investment  ($ M (2005) / cropped ha) | 10.595  (6.674) | 870.081 (672.122) | -7.621  (7.056) | -34.212\*\* (16.038) | 3515.753 (2452.381) | -42.54\*\*\* (14.815) |
| Land development investment  ($ M (2005) / cropped ha) | -25.804\*\*\* (2.564) | -24.913 (19.505) | -104.215\*\*\* (28.419) | -34.024\*\*\* (5.374) | -47.715 (69.102) | -92.282 (66.691) |
| Year | 0.038\*\*\* (0.003) | -0.001  (0.004) | 0.070\*\*\* (0.004) | 0.064\*\*\* (0.008) | -0.031\*\* (0.015) | 0.107\*\*\* (0.007) |
| Fertilizer (kg / ha) | 0.008\*\*\* (0.001) | 0.017\*\*\* (0.002) | 0.007\*\*\* (0.001) | 0.016\*\*\* (0.002) | 0.062\*\*\* (0.009) | 0.007\*\*\* (0.001) |
| The square of fertilizer | -1.39x10-6\*\*\* (1.84x10-7) | -4.93x10-6\*\*\* (1.67x10-6) | -1.12x10-6\*\*\* (1.74x10-7) | -3.54x10-6\*\*\* (4.74x10-6) | -2.08 x10-5\*\*\* (6.03x10-6) | -1.46 x10-6\*\*\* (1.80x10-7) |
| Constant | -64.962\*\*\* (7.698) | 32.256\*\*\* (11.44) | -128.605\*\*\* (9.254) | -123.322\*\*\* (16.228) | 110.702\*\*\* (38.928) | -206.105\*\*\* (13.691) |
| N | 3611 | 1731 | 1816 | 3611 | 1731 | 1816 |
| F-value |  | 901.38\*\*\* |  |  | 601.84\*\*\* |  |
| Root MSE | 0.994 | 1.051 | 0.837 | 3.051 | 3.864 | 1.307 |