Table S1. Soil properties and the abundance of bacterial and fungal communities under different lengths of monoculture

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Sample** | **Group** | **Location** | **Years of cropping** | **SOC *a***  **g·kg-1** | **Total N *b* g·kg-1** | **Total P *c***  **%** | **Total K *d***  **%** | **Available N *b***  **mg·kg-1** | **pH** | **EC *e***  **µs·cm-1** | **16S gene**  **(×108 copies·g-1)** | **18S gene**  **(×106 copies·g-1）** |
| C7 | CMY1 | N:39.61°E122.21° | 1 | 13.22 | 1.42 | 0.024 | 2.08 | 233.026 | 6.01 | 286 | 2.13 | 11.8 |
| C8 | CMY1 | N:39.53°E121.98° | 1 | 7.84 | 1.35 | 0.069 | 2.87 | 187.209 | 6.45 | 146 | 4.25 | 6.7 |
| C9 | CMY3 | N:39.53°E122.00° | 3 | 19.90 | 2.95 | 0.088 | 2.29 | 549.829 | 5.98 | 646 | 38.27 | 55.1 |
| C10 | CMY3 | N:39.53°E122.00° | 3 | 24.32 | 3.12 | 0.105 | 2.34 | 381.962 | 6.45 | 332 | 21.27 | 61.6 |
| C11 | CMY3 | N:39.53°E122.00° | 3 | 26.22 | 3.61 | 0.119 | 2.44 | 477.024 | 6.43 | 568 | 13.41 | 58.3 |
| C12 | CMY3 | N:39.53°E122.00° | 3 | 27.10 | 3.88 | 0.110 | 2.44 | 580.372 | 5.99 | 645 | 21.45 | 76.1 |
| C13 | CMY7 | N:39.52°E122.00° | 6 | 45.11 | 4.94 | 0.176 | 2.70 | 558.897 | 4.28 | 581 | 7.62 | 27.6 |
| C14 | CMY7 | N:39.61°E122.21° | 7 | 26.65 | 2.82 | 0.055 | 2.42 | 453.490 | 5.26 | 1069 | 14.65 | 90.6 |
| C15 | CMY7 | N:39.61°E122.21° | 7 | 41.91 | 4.05 | 0.087 | 2.34 | 567.044 | 5.35 | 1094 | 8.53 | 13.9 |
| C16 | CMY7 | N:39.61°E122.21° | 7 | 25.82 | 3.02 | 0.077 | 2.45 | 689.855 | 4.29 | 1264 | 17.21 | 56.9 |
| C17 | CMY15 | N:39.52°E122.00° | 15 | 34.84 | 5.02 | 0.130 | 2.68 | 827.557 | 5.32 | 1073 | 10.02 | 36.3 |
| C18 | CMY15 | N:39.53°E122.00° | 13 | 38.64 | 4.83 | 0.123 | 2.46 | 732.189 | 5.35 | 822 | 31.13 | 218.0 |
| C19 | CMY15 | N:39.61°E122.21° | 15 | 35.10 | 3.67 | 0.118 | 2.16 | 744.429 | 4.87 | 1200 | 8.95 | 62.90 |
| C20 | CMY15 | N:39.61°E122.21° | 15 | 39.02 | 4.18 | 0.101 | 2.42 | 669.355 | 6.39 | 1565 | 27.21 | 75.90 |
| C23 | CMY25 | N:39.53°E122.00° | 25 | 54.65 | 6.28 | 0.113 | 2.03 | 820.522 | 5.98 | 1144 | 29.74 | 288.00 |
| C25 | CMY25 | N:39.53°E122.00° | 25 | 67.17 | 7.66 | 0.187 | 2.19 | 1092.661 | 5.78 | 1401 | 51.09 | 152.00 |
| C26 | CMY25 | N:39.53°E122.00° | 29 | 49.39 | 6.59 | 0.138 | 2.17 | 1147.418 | 5.65 | 1363 | 38.47 | 140.00 |
| C27 | CMY25 | N:39.53°E122.00° | 23 | 64.55 | 8.54 | 0.243 | 2.23 | 1295.255 | 5.98 | 1632 | 37.11 | 127.00 |

*a*SOC: soil organic carbon. *b* N: nitrogen. *c* P: phosphorus. *d* K: potassium. *e* EC: electrical conductivity.