SI Table 2:

Percent and total carbon, C:N ratio, and bulk density for each site by depth . Sites with different letters are significantly different within the associated depth and measurement (P<0.05). \*N=9 for 0-20 cm bulk density samples. N=2 for 20-30 cm and 30-60 cm BD samples for all sites.

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| Site | N | % C (SE) | Tons C ha-1 (SE) | C:N (SE) | BD (SE) \* |
| 0-10 cm |  |  |  |  |  |
| M1Y | 33 | 18.2 (0.4)d | 96.1 (2.3)bc | 15.2 (0.1)c | 0.53 (0.02) |
| M6Y | 29 | 23.3 (0.4)bc | 89.4 (1.7)c | 15.4 (0.2)c | 0.38 (0.01) |
| M20Y | 25 | 17.9 (0.5)d | 94.9 (2.4)bc | 15.2 (0.2)c | 0.53 (0.02) |
| M25Y | 33 | 22.4 (0.3)c | 106.9 (1.6)a | 15.6 (0.1)bc | 0.48 (0.02) |
| M45Y | 33 | 23.7 (0.7)bc | 102.7 (2.8)ab | 16.1 (0.2)b | 0.43 (0.02) |
| MP1 | 33 | 27.6 (0.3)a | 96.2 (1.2)bc | 17.6 (0.2)a | 0.35 (0.01) |
| MP2 | 27 | 24.4 (0.4)b | 89.8 (1.3)c | 17.4 (0.2)a | 0.37 (0.01) |
| 10-20 cm |  |  |  |  |  |
| M1Y | 33 | 14.5 (0.6)d | 76.73 (2.9)c | 15.9 (0.2)cd | 0.53 (0.02) |
| M6Y | 31 | 20.4 (0.5)c | 78.5 (1.8)c | 16.2 (0.1)cd | 0.38 (0.01) |
| M20Y | 27 | 14.8 (0.4)d | 78.08 (2.17)c | 15.71 (0.25)c | 0.53 (0.02) |
| M25Y | 32 | 19.9 (0.5)c | 95.0 (2.2)a | 16.2 (0.1)cd | 0.48 (0.02) |
| M45Y | 31 | 21.0 (0.6)bc | 90.74(2.4)ab | 16.5 (0.2)bc | 0.43 (0.02) |
| MP1 | 32 | 27.2 (0.3)a | 94.5 (1.2)a | 17.7 (0.2)a | 0.35 (0.01) |
| MP2 | 33 | 22.6 (0.3)b | 83.0 (1.1)bc | 17.0 (0.1)b | 0.37 (0.01) |
| 20-30 cm |  |  |  |  |  |
| M1Y | 9 | 11.0 (0.6)d | 59.5 (3.4)c | 16.24 (0.3)b | 0.54 (0.01) |
| M6Y | 8 | 18.3 (1.0)bc | 69.3 (4.0)bc | 16.6 (0.2)b | 0.38 (0.00) |
| M25Y | 9 | 18.5 (0.8)bc | 87.6 (3.8) ab | 17.1 (0.2)b | 0.48 (0.00) |
| M45Y | 8 | 17.0 (1.1)c | 85.4 (5.5)abc | 16.9 (0.2)b | 0.50 (0.01) |
| MP1 | 9 | 26.5 (0.6)a | 84.4 (2.0)ab | 18.7 (0.2)a | 0.32 (0.00) |
| MP2 | 9 | 21.5 (0.5)b | 94.45 (2.2)a | 17.3 (0.3)ab | 0.44 (0.01) |
| 30-60 cm |  |  |  |  |  |
| M1Y | 9 | 9.0 (1.1)c | 179.9 (21.1)ab | 16.7 (0.3)b | 0.67 (0.00) |
| M6Y | 9 | 15.8 (0.7)b | 210.2 (9.8)b | 17.1 (0.4)b | 0.44 (0.02) |
| M25Y | 8 | 14.7 (1.1)bc | 216.4 (15.6)ab | 17.4 (0.2)b | 0.50 (0.04) |
| M45Y | 8 | 15.6 (1.4)b | 269.8 (24.1)ab | 17.9 (0.3)ab | 0.58 (0.01) |
| MP1 | 9 | 24.8 (1.0)a | 264.5 (10.9)ab | 19.7 (0.4)a | 0.36 (0.01) |
| MP2 | 8 | 20.1 (0.9)ab | 276.2 (11.9)a | 18.1 (0.5)ab | 0.46 (0.02) |

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| Litter |  |  |  |  |  |
| M1Y | 9 | 36.9 (2.2)b | NA | 26.1 (2.2) ab | NA |
| M6Y | 9 | 37.6 (0.7) b | NA | 32.8 (3.4)a | NA |
| M25Y | 9 | 38.2 (1.2)b | NA | 24.8 (1.2)b | NA |
| M45Y | 8 | 38.8 (0.9)b | NA | 21.1 (0.7)b | NA |
| MP1 | 9 | 45.2 (1.8)ab | NA | 31.0 (1.7)ab | NA |
| MP2 | 9 | 45.6 (0.4)a | NA | 32.6 (2.1)a | NA |