Supplementary Table S2 for Guevara et al., 2019. Soil Organic Carbon across Mexico and the

conterminous United States. Submitted to GBC.

Supplementary Table S2 Estimated Soil Organic Carbon (SOC) stocks in petagrams (Pg) for the different land cover classes reported by the North American Land Change Monitoring System. This table shows the different SOC stocks estimated for the different data/periods across the combined area of CONUS and Mexico, the SOC stock across land cover classes of CONUS and land cover classes of Mexico.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **SOC (Pg) CONUS and Mexico** | | **Period** | | |
| **Class** | **Land Cover** | **1991-2001** | **2001-2010** | **1991-2010** |
| 1 | Temperate or sub-polar needleleaf forest | 4.78 | 5.91 | 5.17 |
| 3 | Tropical or sub-tropical broadleaf evergreen forest | 0.99 | 0.89 | 0.86 |
| 4 | Tropical or sub-tropical broadleaf deciduous forest | 0.57 | 0.48 | 0.46 |
| 5 | Temperate or sub-polar broadleaf deciduous forest | 4.42 | 6.19 | 4.94 |
| 6 | Mixed Forest | 1.32 | 1.33 | 1.33 |
| 7 | Tropical or sub-tropical shrubland | 2.41 | 2.35 | 2.43 |
| 8 | Temperate or sub-polar shrubland | 8.92 | 12.4 | 10.61 |
| 9 | Tropical or sub-tropical grassland | 0.11 | 0.12 | 0.12 |
| 10 | Temperate or sub-polar grassland | 6.57 | 9.24 | 7.39 |
| 14 | Wetland | 0.84 | 1.29 | 1.22 |
| 15 | Cropland | 9.68 | 13.82 | 11.2 |
| 16 | Barren Lands | 0.23 | 0.37 | 0.3 |
| 17 | Urban and Built-up | 0.8 | 0.98 | 0.96 |
| 18 | Water | 0.22 | 0.31 | 0.25 |
| 19 | Snow and Ice | 0.07 | 0.06 | 0.06 |
|  | **Total** | **41.94** | **55.76** | **47.32** |
| **SOC (Pg), CONUS** | | **Period** | | |
| **Class** | **Land Cover** | **1991-2001** | **2001-2010** | **1991-2010** |
| 1 | Temperate or sub-polar needleleaf forest | 4.41 | 5.65 | 4.84 |
| 3 | Tropical or sub-tropical broadleaf evergreen forest | 0.02 | 0.03 | 0.02 |
| 4 | Tropical or sub-tropical broadleaf deciduous forest | 0 | 0 | 0 |
| 5 | Temperate or sub-polar broadleaf deciduous forest | 4.21 | 6 | 4.75 |
| 6 | Mixed Forest | 0.51 | 0.68 | 0.62 |
| 7 | Tropical or sub-tropical shrubland | 0.94 | 1.12 | 1.13 |
| 8 | Temperate or sub-polar shrubland | 8.35 | 11.92 | 10.06 |
| 9 | Tropical or sub-tropical grassland | 0.07 | 0.08 | 0.09 |
| 10 | Temperate or sub-polar grassland | 6.06 | 8.87 | 6.94 |
| 14 | Wetland | 0.76 | 1.17 | 1.11 |
| 15 | Cropland | 7.71 | 12.13 | 9.48 |
| 16 | Barren Lands | 0.2 | 0.35 | 0.27 |
| 17 | Urban and Built-up | 0.77 | 0.95 | 0.93 |
| 18 | Water | 0.19 | 0.27 | 0.21 |
| 19 | Snow and Ice | 0.07 | 0.06 | 0.06 |
|  | **Total** | **34.27** | **49.28** | **40.51** |
| **SOC (Pg), Mexico** | | **Period** | | |
| **Class** | **Land Cover** | **1991-2001** | **2001-2010** | **1991-2010** |
| 1 | Temperate or sub-polar needleleaf forest | 0.37 | 0.26 | 0.33 |
| 3 | Tropical or sub-tropical broadleaf evergreen forest | 0.98 | 0.87 | 0.84 |
| 4 | Tropical or sub-tropical broadleaf deciduous forest | 0.57 | 0.48 | 0.46 |
| 5 | Temperate or sub-polar broadleaf deciduous forest | 0.21 | 0.19 | 0.2 |
| 6 | Mixed Forest | 0.81 | 0.65 | 0.71 |
| 7 | Tropical or sub-tropical shrubland | 1.46 | 1.24 | 1.31 |
| 8 | Temperate or sub-polar shrubland | 0.57 | 0.49 | 0.55 |
| 9 | Tropical or sub-tropical grassland | 0.04 | 0.04 | 0.04 |
| 10 | Temperate or sub-polar grassland | 0.51 | 0.38 | 0.46 |
| 14 | Wetland | 0.08 | 0.11 | 0.11 |
| 15 | Cropland | 1.97 | 1.69 | 1.72 |
| 16 | Barren Lands | 0.02 | 0.03 | 0.03 |
| 17 | Urban and Built-up | 0.04 | 0.04 | 0.04 |
| 18 | Water | 0.04 | 0.04 | 0.04 |
| 19 | Snow and Ice | 0 | 0 | 0 |
|  | **Total** | **7.67** | **6.49** | **6.82** |

Note: A variation < 2% of estimated SOC stocks was detected when re-projecting the coordinate system of the SOC maps to the land cover classes map for estimating stocks within the multiple land cover classes and rounding two decimal places.