

Supplemental Table S1: Area classified as mountain agriculture (Mountains – Agricultural), all area classified as mountains (Mountain – All), all area classified as agriculture (Agricultural – All), and all terrestrial area (Terrestrial – All), globally, and by regions (km²). Source: Zomer et al., 2022^[1]; Spawn et al. 2020^[2]; UNEP-WCMC 2000^[3].

Region	Mountain - Agricultural	Mountains - All	Agricultural - All	Terrestrial - All
	km ²			
Antarctica		6,013,163		12,449,637
Asia Pacific	71,989	614,022	790,658	8,523,510
Central America	105,827	265,571	269,235	749,353
Central Asia	194,908	1,248,909	830,949	5,561,279
East Asia	490,326	5,527,671	1,795,893	10,011,604
Eastern and Southern Africa	605,705	2,688,559	1,573,527	10,320,085
Europe	294,482	2,374,046	2,299,766	8,084,476
North Africa	43,300	645,332	155,948	6,796,563
North America	173,494	5,572,617	2,073,033	21,345,806
Russia	105,035	4,683,066	1,669,166	16,845,275
South America	501,408	3,408,530	3,888,792	17,807,657
South Asia	163,323	777,312	1,827,025	3,554,216
SouthEast Asia	293,696	1,560,977	1,648,268	4,477,980
West and Central Africa	147,633	859,593	2,390,980	12,879,306
Western Asia	476,485	2,949,325	955,689	8,033,701
Global	3,667,611	33,175,530	22,168,929	134,990,811
Global (including Antarctica)	3,667,611	39,188,693	22,168,929	147,440,448

1. Zomer RJ, Bossio DA, Trabucco A, van Noordwijk M, Xu J. 2022. Global carbon sequestration potential of agroforestry and increased tree cover on agricultural land. *Circular Agricultural Systems* 2:3
2. Spawn, SA. & Gibbs, HK. 2020. Global Aboveground and Belowground Biomass Carbon Density Maps for the Year 2010. *ORNL DAAC, Oak Ridge, Tennessee, USA*. doi:10.3334/ornlDaac/1763.
3. UNEP-WCMC. (2000). *Mountains of the World*. Cambridge (UK): UNEP-WCMC. <https://doi.org/10.34892/jh4m-0h26>
4. Noon ML, Goldstein A, Ledezma JC, Roehrdanz PR, Cook-Patton SC, et al. 2021. Mapping the irrecoverable carbon in Earth's ecosystems (1.0) [Data set]. *Zenodo* doi:10.5281/zenodo.4091029.