

Table A. Soil carbon stock for a fixed mass and data involved in this calculation. The lowest soil mass used in the calculation is showed in bold.

Lat.	Long.	Site	Land use	Soil depth (cm)	Density (g/cm <sup>3</sup> )	Cumulative soil mass (Mg ha <sup>-1</sup> )	C- content (g.kg <sup>-1</sup> )	Cumulative SOC stock fixed depth (Mg C ha <sup>-1</sup> )	Cumulative SOC stock fixed mass (Mg C ha <sup>-1</sup> )	Mex (Mg ha <sup>-1</sup> )	Corrected depth (cm)
-19.50	-44.18	Sete	Pasture	0 – 5	1.09	547	43.9				
				Lagoas	5 - 10	1.11	1102	33.2	42.45	40.66	62.17
				10 - 20	1.10	2201	27.2				
				20 - 30	1.03	3227	21.5	94.44	93.63	37.83	29.6
-19.49	-44.18	Sete	CPS	0 – 5	1.15	573	32.5				
				Lagoas	5 - 10	1.19	1169	28.7	35.73	31.99	129.17
				10 - 20	1.14	2305	28.7				
				20 - 30	1.10	3404	21.7	92.14	87.51	214.83	28.0
-19.49	-44.19	Sete	CPS	0 – 5	1.13	566	35.6				
				Lagoas	5 - 10	1.07	1099	33.6	38.03	36.31	59.33
				10 - 20	1.05	2151	34.0				
				20 - 30	1.06	3209	33.0	108.75	108.32	20.00	29.8
-19.49	-44.19	Sete	Forest	0 – 5	0.97	483	33.1				
				Lagoas	5 - 10	1.11	<b>1040</b>	28.9	32.12	32.12	0.00
				10 - 20	1.06	2102	23.9				
				20 - 30	1.09	<b>3189</b>	21.6	80.90	80.90	0.00	30.0

Table 1. Characterization of sampled sites: native vegetation (NV), pastures (P), crop-livestock systems (CL), livestock-forest systems (LF), crop-forest systems (CF) and crop-livestock-forest systems (CLF).

City (Code)- State	Point	Latitude	Longitude	Land use system	Stablished	Biome
Sete Lagoas (SL) – MG	<b>1</b>	19°29'57"	44°11'03"	Pasture	-	Cerrado
	<b>2</b>	19°29'24"	44°10'48"	CL (1 year of pasture followed by 2 years corn)	-	Cerrado
	<b>3</b>	19°29'11"	44°11'19"	CLF (corn, pasture and eucalyptus)	2009	Cerrado
	<b>4</b>	19°29'37"	44°11'09"	Native Vegetation	-	Cerrado
	<b>5</b>	19°29'28"	44°11'08"	CL (1 year of pasture followed by 2 years of soybean)	-	Cerrado
Coronel Xavier (CX) - MG	<b>6</b>	21°01'06"	44°12'53"	Native Vegetation	-	Atlantic Forest
	<b>7</b>	21°01'13"	44°12'56"	Pasture	-	Atlantic Forest
	<b>8</b>	21°01'12"	44°12'53"	CLF (corn, pasture and eucalyptus)	2009	Atlantic Forest
	<b>9</b>	20°59'35"	44°10'18"	Pasture	-	Atlantic Forest
	<b>10</b>	20°59'36"	44°10'18"	Native Vegetation	-	Atlantic Forest
	<b>11</b>	20°59'40"	44°10'20"	CLF (corn, pasture and eucalyptus)	2009	Atlantic Forest
São Carlos (SC)-SP	<b>15</b>	21°58'49"	47°51'10"	Pasture	-	Cerrado
	<b>16</b>	21°58'27"	47°51'10"	LF (pasture and eucalyptus)	2010	Cerrado
	<b>17</b>	21°58'38"	47°51'17"	Native Vegetation	-	Cerrado
	<b>18</b>	21°57'47"	47°51'00"	LF (pasture and eucalyptus)	2007	Cerrado
Cafeara (CS)- PR	<b>19</b>	22°50'38"	51°42'28"	CL (pasture and soybean)	2003	Atlantic Forest
	<b>20</b>	22°50'02"	51°42'52"	Native Vegetation	-	Atlantic Forest
	<b>21</b>	22°52'12"	51°43'37"	Pasture	-	Atlantic Forest
Iporã (IP)-PR	<b>22</b>	24°00'26"	53°45'01"	CL (1 year of pasture and	-	Atlantic Forest

				3 years of soybean)		
	23	24°00'06"	53°45'32"	Pasture	-	Atlantic Forest
	24	24°01'20"	53°45'38"	Native Vegetation	-	Atlantic Forest
Xambrê (XA)- PR	25	23°47'34"	53°36'20"	Pasture	-	Atlantic Forest
	26	23°47'14"	53°36'10"	CL (pasture and soybean)	2000	Atlantic Forest
	27	23°47'23"	53°36'31"	CF (soybean and eucalyptus)	2010	Atlantic Forest
	28	23°48'29"	53°35'25"	Native Vegetation	-	Atlantic Forest
Campo Mourão (CM)- PR	29	24°06'25"	52°21'40"	Pasture	-	Atlantic Forest
	30	24°06'21"	52°21'34"	CL (corn and pasture)	2001	Atlantic Forest
	31	24°06'18"	52°21'34"	Native Vegetation	-	Atlantic Forest
Juranda (JU)- PR	32	24°18'21"	52°42'17"	CL (rotation (soybean or corn) and pasture)	2006	Atlantic Forest
	33	24°18'34"	52°42'16"	Pasture	-	Atlantic Forest
	34	24°18'10"	52°42'18"	Native Vegetation	-	Atlantic Forest
Ponta Grossa (PG)- PR	35	25°06'37"	50°03'04"	CLF (soybean, pasture and eucalyptus)	2006	Atlantic Forest
	36	25°06'32"	50°03'26"	CL (soy in the summer and oats in the winter)	10	Atlantic Forest
	37	25°06'43"	50°03'49"	Native Vegetation	-	Atlantic Forest
	38	25°06'54"	50°03'49"	Pasture	-	Atlantic Forest
Arroio dos Ratos (AR)- RS	39	30°06'14"	51°41'32"	CL (soy in the summer and <i>Lolium multiflorum</i> in the winter)	2002	Pampa
	40	30°06'12"	51°41'33"	CL (corn or soy in the summer and <i>L. multiflorum</i> in the winter)	2002	Pampa
	41	30°06'06"	51°41'58"	Native Vegetation	-	Pampa
	42	30°06'06"	51°41'31"	Pasture	-	Pampa
Tupanciretã	43	28°56'34"	54°21'35"	CL (soy in the summer and <i>L. multiflorum</i> in the	2001	Pampa

(TU)-RS				winter)		
	<b>44</b>	28°56'11"	54°21'25"	CL (soy in the summer and <i>L. multiflorum</i> in the winter)	2001	Pampa
	<b>45</b>	28°56'31"	54°20'02"	Pasture	-	Pampa
	<b>46</b>	28°55'48"	54°20'29"	Native Vegetation	-	Pampa
Nova Esperança do Sul (NS)-RS	<b>47</b>	29°27'12"	54°48'40"	CLF (sorghum, pasture and eucalyptus)	2007	Atlantic Forest
	<b>48</b>	29°27'33"	54°49'17"	Pasture	-	Atlantic Forest
	<b>49</b>	29°27'31"	54°49'18"	Native Vegetation	-	Atlantic Forest
Bagé (BA)-RS	<b>50</b>	31°22'11"	54°00'11"	CL (rice in the summer and <i>L. multiflorum</i> in the winter)	2007	Pampa
	<b>51</b>	31°22'01"	54°00'28"	Native Vegetation (Campos), also used as pasture	-	Pampa
	<b>52</b>	31°28'30"	53°58'15"	CLF (sorghum, pasture and eucalyptus)	2005	Pampa
	<b>53</b>	31°19'17"	54°00'12"	CL (soy in the Summer and <i>L. multiflorum</i> in the winter)	2007	Pampa
Capão do Leão (CL)-RS	<b>54</b>	31°49'57"	52°28'28"	Native Vegetation (Campos), also utilized as pasture	-	Pampa
	<b>55</b>	31°49'19"	52°28'40"	CL (soy in the ummer and <i>L. multiflorum</i> in the winter)	2007	Pampa
	<b>56</b>	31°49'19"	52°28'11"	CL (soy or rice in the summer and <i>L. multiflorum</i> in the winter)	2007	Pampa
Passo Fundo (PF)-RS	<b>57</b>	28°13'32"	52°24'30"	CL (soy or corn in the summer and <i>L. multiflorum</i> or oats in the winter)	1996	Atlantic Forest
	<b>58</b>	28°13'31"	52°24'28"	CL (soy or corn in the summer and <i>L. multiflorum</i> or oats in the	1996	Atlantic Forest

winter)

**59** 28°13'30" 52°24'24" Native Vegetation - Atlantic Forest

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