

Carbon Footprint Offset Guide for Agriculture

Conservation Practice	Low Range of C sequestered (Metric Tons/acre)	High Range of C sequestered (MT/ac)	Low Range in US tons per acre	High Range in US Tons per acre	Low figure for Pounds of Carbon per acre	High figure for Pounds of Carbon per acre	Pounds of CO ₂ sequestered based on lowest figures
Cropland							
Conservation Tillage	0.09	0.18	0.08	0.16	163.26	326.52	591.00
Improved Crop rotations and cover crops	0.04	0.12	0.04	0.11	72.56	217.68	262.67
Improved fertilizer management	0.02	0.06	0.02	0.05	36.28	108.84	131.33
Use of organic manure and byproducts	0.02	0.05	0.02	0.05	36.28	90.70	131.33
Improved irrigation management	0.04	0.04	0.04	0.04	72.56	72.56	262.67
Reduced fuel use associated with no-till (savings)	4	4	3.63	3.63	7,256.00	7,256.00	26,266.72
Pastureland							
Improved use of fertilizers	0.1	0.2	0.09	0.18	181.40	362.80	656.67
Use of organic manure and byproducts	0.2	0.5	0.18	0.45	362.80	907.00	1,313.34
Planting of improved species	0.1	0.3	0.09	0.27	181.40	544.20	656.67
Grazing Management	0.3	1.3	0.27	1.18	544.20	2,358.20	1,970.00
Land Use Changes							
Conservation Buffers	0.13	0.25	0.12	0.23	235.82	453.50	853.67
Wetland Restoration	0.1	0.1	0.09	0.09	181.40	181.40	656.67
Cropland to grassland	0.25	0.51	0.23	0.46	453.50	925.14	1,641.67
Cropland to forest	0.79	1.72	0.72	1.56	1,433.06	3,120.08	5,187.68
Pastureland to forest	0.73	2.09	0.66	1.90	1,324.22	3,791.26	4,793.68