

# COMET-Planner Carbon Sequestration and Greenhouse Gas Estimation Report

Project Name: FY 2021

State: Maryland

County: Montgomery

Date Created: 02/09/2022 13:14:46

## Approximate Carbon Sequestration and Greenhouse Gas Emission Reductions\* (tonnes CO<sub>2</sub> equivalent per year)

NRCS Conservation Practices	Acres	Carbon Dioxide	Nitrous Oxide	Methane	Total CO <sub>2</sub> -Equivalent
Conservation Cover (CPS 327) - Convert Non-Irrigated Cropland to Permanent Unfertilized Grass Cover	73.6	26	11	0	37
Critical Area Planting (CPS 342) - Restore Highly Disturbed Areas by Planting Permanent Vegetative Cover	7.6	14	0	N.E.**	14
Prescribed Grazing (CPS 528) - Grazing Management to Improve Irrigated Pasture Condition	12.2	0	0	0	0
Riparian Herbaceous Cover (CPS 390) - Convert Non-Irrigated Cropland to Permanent Unfertilized Grass Cover Near Aquatic Habitats	18.8	7	3	0	10
Grassed Waterway (CPS 412) - Convert Strips of Non-Irrigated Cropland to Permanent Unfertilized Grass Cover	1.8	1	0	0	1
Residue and Tillage Management - Reduced Till (CPS 345) - Intensive Till to Reduced Till on Non-Irrigated Cropland	17209	2984	60	0	3044
Cover Crop (CPS 340) - Add Non-Legume Seasonal Cover Crop (with 25% Fertilizer N Reduction) to Non-Irrigated Cropland	20395	4423	-54	0	4369
Residue and Tillage Management - No-Till (CPS 329) - Reduced Till to No Till or Strip Till on Non-Irrigated Cropland	5163	2104	147	0	2251

NRCS Conservation Practices	Acres	Carbon Dioxide	Nitrous Oxide	Methane	Total CO <sub>2</sub> -Equivalent
Mulching (CPS 484) - Add Mulch to Croplands	0.4	0	0	N.E.**	0
Nutrient Management (CPS 590) - Improved N Fertilizer Management on Non-Irrigated Croplands - Reduce Fertilizer Application Rate by 15%	17916	-566	-200	0	-766
<b>Totals:</b>	60797.4	8993	-33	0	8960

\*Negative values indicate a loss of carbon or increased emissions of greenhouse gases

\*\*Values were not estimated due to limited data on reductions of greenhouse gas emissions from this practice

For more information on how these estimates were generated, please visit [www.comet-planner.com](http://www.comet-planner.com).