Natural Resources Conservation Service
Application Ranking Summary
FY17 Air Quality for Ag Irrigation Engines

National Priorities Addressed

Issue Questions	Point(s)
~~If the application is for development of a Conservation Activity Plan (CAP), the agency will assign significant ranking priority and conservation benefit by answering "Yes" to the following question. Answering "Yes" to question 1a will result in the application being awarded the maximum amount of points that can be earned for the national priority category.~~	
~~1. a. Is the program application to support the development of a Conservation Activity Plan (CAP)? If answer is "Yes", do not answer any other national level questions. If answer is "No", proceed with evaluation to address the remaining questions in this section.~~	~~250~~
~~Water Quality Degradation – Will the proposed project improve water quality by: (select all that apply)~~	
~~2. a. Implementing the practices in a Comprehensive Nutrient Management Plan (CNMP)?~~	~~15~~
~~2. b. Implementing the practices in a Nutrient Management Plan (NMP)?~~	~~10~~
~~2. c. Reducing impacts from sediment, nutrients, salinity, or pesticides on land adjoining a designated "impaired water body" (TMDL, 303d listed waterbody, or other State designation)?~~	~~10~~
~~2. d. Reducing the impacts from sediment, nutrients, salinity, or pesticides in a "non-impaired water body"?~~	~~10~~
~~2. e. Implementing practices that improve water quality through animal mortality and carcass management?~~	~~10~~
~~Water Conservation – Will the proposed project conserve water by: (select all that apply)~~	
~~3. a. Implementing irrigation practices that reduce aquifer overdraft.~~	~~15~~
~~3. b. Implementing irrigation practices that reduce on-farm water use?~~	~~10~~
~~3. c.Implementing practices in an area where the applicant participates in a geographically established or watershed-wide project?~~	~~10~~
~~3. d. Implementing practices that reduce on-farm water use as a result of changing to crops with lower water consumptive use, the rotation of crops, or the modification of cultural operations?~~	~~10~~
Air Quality - Will the proposed project improve air quality by: (select all that apply)	
4. a. Meeting on-farm regulatory requirements relating to air quality or proactively avoid the need for regulatory measures?	10
4. b. Implementing practices that reduce on-farm emissions of particulate matter (PM2.5, PM10)?	10
4. c.Implementing practices that reduce on-farm generated greenhouse gases such as carbon dioxide (CO_2), methane (CH_4), and nitrous oxide (N_2O)?	10
~~4. d. Implementing practices that increase on-farm carbon sequestration?~~	~~10~~
~~Soil Health: Will the proposed project improve soil health by: (select all that apply)~~	
~~5. a. Reduce erosion to tolerable limits (Soil "T")?~~	~~10~~
~~5. b.Increasing organic matter and carbon content, and improving soil tilth and structure?~~	~~10~~
~~Wildlife Habitat – Will the proposed project improve wildlife habitat by: (select all that apply)~~	
~~6. a. Implementing practices benefitting threatened and endangered, at-risk, candidate, or species of concern.~~	~~10~~
~~6. b. Implementing practices that retain wildlife and plant habitat on land exiting the Conservation Reserve Program (CRP) or other set-aside program?~~	~~10~~
~~6. c. Implementing practices benefitting honey bee populations or other pollinators?~~	~~10~~
~~6. d. Implementing land-based practices that improve habitat for aquatic wildlife?~~	~~10~~
~~Plant and Animal Communities: Will the proposed project improve plant and animal communities by: (select all that apply)~~	

~~7. a. Implementing practices that result in the management control of noxious or invasive plant species on non-cropland?~~	~~10~~
~~7. b. Implementing practice in an Integrated Pest Management Plan (IPM)?~~	~~10~~
~~Energy Conservation - Will the proposed project reduce energy use by: (select all that apply)~~	
~~8. a. Reducing on-farm energy consumption?~~	~~10~~
~~8. b. Implementing practice(s) identified in an approved AgEMP or energy audit, which meet ASABE S612 criteria?~~	~~10~~
Business Lines – Will the practices to be scheduled in the "EQIP Plan of Operations" result in:	
9. a. Enhancement of existing conservation practice(s) or conservation systems already in place at the time the application is received?	10
State Issues Addressed	
Issue Questions	Point(s)
State Category One – AIR QUALITY IMPACTS: Emissions of Ozone Precursors Select the most appropriate response below regarding the area attainment designation for the 2008 8-hour Ozone NAAQS at the planned land unit location according to Figure 1 in the FY17 Program Description, the EPA 8-hour Ozone Area Designation Map as of August 4, 2016. (Select "Yes" to Only One Answer, if applicable)	
1. a. "Nonattainment/Extreme"	80
1. b. "Nonattainment/Severe-15"	70
1. c. "Nonattainment/Serious"	60
1. d. "Nonattainment/Moderate" or "Nonattainment/Marginal"	50
1. e. "Unclassifiable/Attainment"	40
State Category Two – AIR QUALITY IMPACTS: Emissions of Particulate Matter (PM) and PM Precursors Select the most appropriate response below regarding the area attainment designation for the 2006 and/or 1997 24-hour PM2.5 NAAQS at the planned land unit location according to Figure 2 in the FY17 Program Description, the EPA 24-hour PM2.5 Area Designation Map as of February 16, 2016. (Select "Yes" to Only One Answer, if applicable)	
2. a. "Nonattainment/Serious" (2006 & 1997 NAAQS)	80
2. b. "Nonattainment/Serious" (2006 NAAQS) and "Nonattainment/Moderate" (1997 NAAQS)	70
2. c. "Nonattainment/Moderate" (2006 NAAQS) and "Unclassifiable/Attainment" (1997 NAAQS)	60
2. d. "Unclassifiable/Attainment" (2006 NAAQS) and "Nonattainment/Moderate" (1997 NAAQS)	50
2. e. "Attainment/Maintenace Area" (2006 NAAQS) and "Unclassifiable/Attainment" (1997 NAAQS)	40
2. f. "Unclassifiable/Attainment" (2006 and 1997 NAAQS)	30
State Category Three - AIR QUALITY IMPACTS: Emissions of Particulate Matter (PM) and PM Precursors Select the most appropriate response below regarding the area attainment designation for the 1987 24-hour PM10 National Ambient Air Quality Standard at the planned land unit location according to Figure 3 of the FY17 Program Description, the EPA 24-hour PM10 Area Designation Map as of December 8, 2015. (Select "Yes" to One Answer Only)	
3. a. "Nonattainment" or "Attainment (Maintenance Area)"	80
3. b. "Unclassifiable/Attainment"	40
State Category Four – AIR QUALITY IMPACTS: Emissions of Particulate Matter (PM) and PM Precursors Select the most appropriate response below regarding the area attainment designation for the 2012 and/or 1997 Annual PM2.5 NAAQS at the planned land unit location according to Figure 4 of the FY17 Program Description, the EPA Annual PM2.5 Area Designation Map as of April 7, 2015. (Select "Yes" to Only One Answer, if applicable)	
3. a. "Nonattainment/Moderate" (2012 NAAQS) and "Nonattainment" (1997 NAAQS)	80

3. b. "Nonattainment/Moderate" (2012 NAAQS)	60
3. c. "Unclassifiable/Attainment"	40
State Category Five - AIR QUALITY IMPACTS: Emissions of Ozone Precursors, and Emissions of Particulate Matter (PM) and PM precursors The conservation treatement will improve emissions from an in-use irrigation pumping plant by repowering: (Select "Yes" to Only One Answer, if applicable)	
5. a. An in-use stationary Tier 1 or Tier 2 diesel engine with a new stationary electric motor.	80
5. b. An in-use stationary Tier 3 diesel engine with a new stationary electric motor	70
5. c. An in-use stationary spark-ignition engine with a new stationary electric motor.	60
5. d. An in-use stationary Tier 1 or Tier 2 emissions-certified nonroad diesel engine with a new stationary Tier 4 emissions-certified nonroad diesel engine.	50
5. e. An in-use portable Tier 1 or Tier 2 emissions-certified nonroad diesel engine with a new portable Tier 4 emissions-certified nonroad diesel engine.	40
Local Issues Addressed	
Issue Questions	Point(s)
Local Category One – AIR QUALITY IMPACTS: Emissions of Greenhouse Gases Conservation treatment in the EQIP schedule of operations will result in: (A "yes" answer is also a "yes" answer for National Priority Question 4. c., and a "no" answer is also a "no" anser for National Priority Question 4. c.) (Select "Yes" to Only One Answer, if applicable)	
1. a. A repower to a new electric motor will eliminate greenhouse gas emissions at the source.	50
1. b. A repower to a new Tier 4 emissions-certified diesel engine that will be fueled exclusively on B20 or higher biodiesel blend or B100 biodiesel over the practice lifespan.	20
Local Category Two - AIR QUALITY IMPACTS: Emissions of Particulate Matter (PM) and PM Precursors Emissions improvements are estimated by using the California Emissions Calculation Worksheet. Conservation treatment in the EQIP schedule of operations will result in the following reductions of particles with an aerodynamic diameter of 10 microns or smaller (PM10): (Select "Yes" to Only One Answer, if applicable)	
2. a. 100 percent reduction of PM10 emissions.	30
2. b. 90 to 99 percent reduction of PM10 emissions.	25
2. c. 80 to 89 percent reduction of PM10 emissions.	20
2. d. 70 to 79 percent reduction of PM10 emissions.	15
Local Category Three - AIR QUALITY IMPACTS: Emissions of Particulate Matter (PM) and PM Precursors Emissions improvement are estimated by using the California Emissions Calculation Worksheet. Conservation treatment in the EQIP schedule of operations will reduce PM10 emissions by: (Select "Yes" to Only One Answer, if applicable)	
3. a. 0.100 tons per year or more.	30
3. b. 0.050 to 0.099 tons per year.	25
Local Category Four - AIR QUALITY IMPACTS: Emissions of Ozone Precursors Emissions improvements are estimated by using the California Emissions Calculation Worksheet. Conservation treatment in the EQIP schedule of operations will result in the following reductions in Reactive Organic Gases (ROG): (Select "Yes" to Only One Answer, if applicable)	
4. a. 100 percent reduction of ROG emissions.	30
4. b. 90 to 99 percent reduction of ROG emissions.	28
4. c. 75 to 89 percent reduction of ROG emissions.	20
4. d. 50 to 74 percent reduction of ROG emissions.	15

Local Category Five - AIR QUALITY IMPACTS: Emissions of Ozone Precursors Emissions improvements are estimated by using the California Emissions Calculation Worksheet. Conservation treatment in the EQIP schedule of operation swill reduce ROG emissions by: (Select "Yes" to Only One Answer, if applicable)	
5. a. 0.40 tons per year or more.	30
5. b. 0.20 to 0.39 tons per year.	25
5. c. 0.10 to 0.19 tons per year.	20
Local Category Six - AIR QUALITY IMPACTS: Emissions of Ozone Precursors Emissions improvements are estimated by using the California Emissions Calculation Worksheet. Conservation treatment in the EQIP schedule of operations will result in the following reductions in Oxides of Nitrogen (NOx): (Select "Yes" to Only One Answer, if applicable)	
6. a. 100 percent reduction of NOx emissions.	40
6. b. 90 to 99 percent reduction of NOx emissions.	35
6. c. 80 to 89 percent reduction of NOx emissions.	30
6. d. 70 to 79 percent reduction of NOx emissions.	25
6. e. 50 to 69 percent reduction of NOx emissions.	20
Local Category Seven - AIR QUALITY IMPACTS: Emissions of Ozone Precursors Emissions improvements are estimated by using the California Emissions Calculation Worksheet. T Conservation treatment in the EQIP schedule of operations reduce NOx emissions by: (Select "Yes" to Only One Answer, if applicable)	
7. a. 3.00 tons per year or more.	40
7. b. 2.00 to 2.99 tons per year	35
7. c. 1.00 to 1.99 tons per year.	30