## Effects of NRCS Conservation Practices - National

## **Combustion System Improvement**

Installing, replacing, or retrofitting agricultural combustion systems and/or related components or devices for air quality ar energy efficiency improvement.

<u>Soil Erosion</u> Soil Erosion - Sheet and Rill Erosion	<u>Effect</u> 0	<u>Rationale</u> Not Applicable
Soil Erosion - Wind Erosion	0	Not Applicable
Soil Erosion - Ephemeral Gully Erosion	0	Not Applicable
Soil Erosion - Classic Gully Erosion	0	Not Applicable
Soil Erosion - Streambank, Shoreline, Water Conveyance C	0	Not Applicable
<u>Soil Quality Degradation</u> Organic Matter Depletion	0	Not Applicable
Compaction	0	Not Applicable
Subsidence	0	Not Applicable
Concentration of Salts or Other Chemicals	0	Not Applicable
<u>Excess Water</u> Excess Water - Seeps	0	Not Applicable
Excess Water - Runoff, Flooding, or Ponding	0	Not Applicable
Excess Water - Seasonal High Water Table	0	Not Applicable
Excess Water - Drifted Snow	0	Not Applicable
Insufficient Water Insufficient Water - Inefficient Use of Irrigation Water	0	Not Applicable
Insufficient Water - Inefficient Moisture Management	0	Not Applicable
<u>Water Quality Degradation</u> Pesticides in Surface Water	0	Not Applicable
Pesticides in Groundwater	0	Not Applicable
Nutrients in Surface water	0	Not Applicable
Nutrients in Groundwater	0	Not Applicable
Salts in Surface Water	0	Not Applicable
Salts in Groundwater	0	Not Applicable
Excess Pathogens and Chemicals from Manure, Bio-solic	0	Not Applicable
Excess Pathogens and Chemicals from Manure, Bio-solic	0	Not Applicable

nd		Code: Units: cal Land	372 no	C-Cro	F-Fore	P-Pastu	Pr-Protecte	FS-Farmstea	D-Develope	W-Wat	O-Oth	AL-Aso La
	Турі	cal Land	duse:	р С Г	St R I	PPr	FS	D	w	е, о,	<u>e</u> AL	nd

Lookan Cauling Link and Link a	Excessive Sediment in Surface Water	0	Not Applicable				
Perceleam, Heavy Menia and Other Pollwarns Transport Perceleam, Heavy Menia and Other Pollwarns Transport Emissions of Percloader Matter (Poll and PIP Precursor Emissions of Orentouse Gases (OHQ) of Comparing on the technology used to instandard is to mitigate emissions of oxides of nitrogen (NO <sub>2</sub> ) from agricultural combustion systems. Emissions of Orentouse Gases (OHQ) of Comparing on the technology used to instandard is to mitigate emissions of oxides of nitrogen (NO <sub>2</sub> ) from agricultural combustion systems. Emissions of Orentouse Gases (OHQ) of Comparing on the technology used to instructure and combustion system. Emissions of Orentouse Gases (OHQ) Objectionals Odors Discionals Odors Orentee Filmer Comparing Transport Filmer Compar	Excessive Sediment in Surface Water	0	Not Applicable				
Percolean, Havey Minds and Other Pollutint Transport is a probability of Applicable Percentage CPM and PM Percentage is a primary purpose of this standard is to mitigate emissions of particulate matter from agricultural combustion systems. Emissions of Oxore Precursors is in Comparison of the standard is to mitigate emissions of oxides of hirtogen (NOX) from agricultural combustion systems. Emissions of Oxore Precursors is in Comparison of the standard is to mitigate emissions of oxides of hirtogen (NOX) from agricultural combustion systems. Emissions of Oxore Precursors is in Comparison is in Comparison is in Comparison in Comparison is in Comparison	Elevated Water Temperature	0	Not Applicable				
Consider Junice of Particulate Matter (PM) and PM Precursors       4       A primary purpose of this standard is to mitigate emissions of particulate matter from agricultural combustion systems.         Emissions of Ozone Precursors       4       A primary purpose of this standard is to mitigate emissions of oxides of nitrogen (NOA) from agricultural combustion systems.         Emissions of Ozone Precursors       0       Depending on the technology used to improve the agricultural combustion system, reductions in fossil fuel emissions of CO2 can be accessive.         Objectionable Odors       0       Not Applicable         Charged Plant Contribution       0       Not Applicable         Excessive Plant Contribution       0       Not Applicable         Charged Plant Contribution       0       Not Applicable         Vidifio Haard, Excessive Biomass Accumulation       0       Not Applicable         Tadequate Structure and Composition       0       Not Applicable         Inadequate Habitat - Food       0       Not Applicable         Inadequate Habitat - Food       0       Not Applicable         Inadequate Habitat - Food       0       Not Applicable         Inadequate Habitat - Vater       0       Not Applicable         Inadequate Habitat - Nater       0       Not Applicable         Inadequate Habitat - Habitat Continuity (Spaco)       0       Not Applicable	Petroleum, Heavy Metals and Other Pollutants Transporte	0	Not Applicable				
Enissions of Particulate Matter (PM) and PM Precurson     4     A primary purpose of this standard is to mitigate emissions of particulate matter from agricultural conduction systems.       Enissions of Ozen Precurson     4     A primary purpose of this standard is to mitigate emissions of oxides of nitrogen (NOs) from agricultural conduction system.       Enissions of Ocen Precurson     0     Depending on the technology used to improve the agricultural conductions system, reductions in fessil fuel emissions of CO2 can be agricultural conduction system.       Objectionable Odors     0     Not Applicable       Demander Plant Condition     0     Not Applicable       Videorable Plant Podetiny and Health     0     Not Applicable       Widfro Haard, Excessive Biomass Accumulation     0     Not Applicable       Videorable Health Continuity (Space)     0     Not Applicable       Hadequate Health - Food     0     Not Applicable       Inadequate Healther - Marker     0     Not Applicable       Inadequate Healther - Marker     0     Not Applicable       Inadequate Healther - Marker     0	Petroleum, Heavy Metals and Other Pollutants Transporte	0	Not Applicable				
Enissions of Particulate Matter (PM) and PM Precurson     4     A primary purpose of this standard is to mitigate emissions of particulate matter from agricultural conduction systems.       Enissions of Ozen Precurson     4     A primary purpose of this standard is to mitigate emissions of oxides of nitrogen (NOs) from agricultural conduction system.       Enissions of Ocen Precurson     0     Depending on the technology used to improve the agricultural conductions system, reductions in fessil fuel emissions of CO2 can be agricultural conduction system.       Objectionable Odors     0     Not Applicable       Demander Plant Condition     0     Not Applicable       Videorable Plant Podetiny and Health     0     Not Applicable       Widfro Haard, Excessive Biomass Accumulation     0     Not Applicable       Videorable Health Continuity (Space)     0     Not Applicable       Hadequate Health - Food     0     Not Applicable       Inadequate Healther - Marker     0     Not Applicable       Inadequate Healther - Marker     0     Not Applicable       Inadequate Healther - Marker     0	Air Quality Impacts						
Emissions of Greenhouse Gases (GHGs)       2       Depending on the technology used to improve the agricultural combustion system, reductions in fessil fuel emissions of CO2 can be achieved.         Objectionable Odors       0       Not Applicable         Undestrable Plant Productivity and Health       0       Not Applicable         Excessive Plant Pest Pressure       0       Not Applicable         Wildfire Heard, Excessive Biomass Accumulation       0       Not Applicable         Inadequate Habitat - Food       0       Not Applicable         Inadequate Habitat - Water       0       Not Applicable         Inadequate Feed and Forage       0       Not Applicable         Inadequate Stater       0       Not Applicab	Emissions of Particulate Matter (PM) and PM Precursors	4	A primary purpose of this standard is to mitigate er	missions of particulate matter from a	agricultural combustion systems.		
bipelionble Odors 0 0 Not Applicable Double Odors 0 0 Not Applicable Inadequate Structure and Composition 0 Not Applicable Excessive Plant Ped Pressure 0 Not Applicable Excessive Plant Ped Pressure 0 Not Applicable Wildfre Hazard, Excessive Blomass Accumulation 0 Not Applicable Fish and Wildfre - Inadequate Habitat Inadequate Habitat - Cooler/Shelter 0 Not Applicable Inadequate Feed and Forage 0 Not Applicable Inadequate Feed and Forage 0 Not Applicable Inadequate Shelter 0 Not Applicable Inadequate Matitat - Roter Note Equipment and Facilities 1 Not Applicable Inadequate Shelter 0 Not Applicable Inadequate Shelter 0 Not Applicable Inadequate Individuation Inadequate Individuation Inadequate Individuation Inadequate Individuate Note Note Inadequate Individuation Inadequate Individuation Individuate Individuation Individuation Individuation Individuation Individuation Individuation Individuation Individuation Inditation Inditation Individuation Individu	Emissions of Ozone Precursors	4	A primary purpose of this standard is to mitigate emissions of oxides of nitrogen (NOx) from agricultural combustion systems.				
Branched Plant Condition         0         Not Applicable           Indexirable Plant Productivity and Health         0         Not Applicable           Indexirable Plant Productivity and Composition         0         Not Applicable           Excessive Plant Pest Pressure         0         Not Applicable           Wildfrie Hazard, Excessive Biomass Accumulation         0         Not Applicable           Wildfrie Inadequate Habitat         0         Not Applicable           Fish and Wildfie Inadequate Habitat         0         Not Applicable           Inadequate Habitat - Cover/Shelter         0         Not Applicable           Inadequate Habitat - Habitat Continuity (Space)         0         Not Applicable           Inadequate Floating         0         Not Applicable           Inadequate Floating Individue Floating         0         Not Applicable           Inadequate Shelter         0         Not Applicable           Inadequate Shelter         0         Not Applicable           Equipment and Facilitise         2         Conbustion system	Emissions of Greenhouse Gases (GHGs)	2		agricultural combustion system, red	uctions in fossil fuel emissions of CO2 can be		
Undesize Plant Productivity and Health     0     Not Applicable       Inadequate Structure and Composition     0     Not Applicable       Excessive Plant Pest Pressure     0     Not Applicable       Wildfror Hazard, Excessive Biomass Accumulation     0     Not Applicable       Wildfror Hazard, Excessive Biomass Accumulation     0     Not Applicable       Inadequate Habita - Food     0     Not Applicable       Inadequate Habita - Cover/Shelter     0     Not Applicable       Inadequate Habita - Habita Continuity (Space)     0     Not Applicable       Inadequate Habita - Habita Continuity (Space)     0     Not Applicable       Inadequate Shelter     0     Not Applicable       Inadequate Shelter     0     Not Applicable       Inadequate Mabita - Habita -	Objectionable Odors	0					
Undesize Plant Productivity and Health     0     Not Applicable       Inadequate Structure and Composition     0     Not Applicable       Excessive Plant Pest Pressure     0     Not Applicable       Wildfre Hazard, Excessive Biomass Accumulation     0     Not Applicable       Wildfre Hazard, Excessive Biomass Accumulation     0     Not Applicable       Inadequate Habita - Food     0     Not Applicable       Inadequate Habita - Cover/Shelter     0     Not Applicable       Inadequate Habita - Habita Continuity (Space)     0     Not Applicable       Inadequate Habita - Habita - Habita Continuity (Space)     0     Not Applicable       Inadequate Shelter     0     Not Applicable       Inadequate Shelter     0     Not Applicable       Inadequate Mabita - Habita - Habita - Habita Continuity (Space)     0     Not Applicable       Inadequate Mabita - Habita - Habita - Habita Continuity (Space)     0     Not Applicable       Inadequate Mabita - Habita - Habita - Habita Continuity (Space)     0     Not Applicable       Inadequate Mabita - Habita - Habita - Habita Continuity (Space)     0     Not Applicable       Inadequate Shelter     0     Not Applicable     Not Applicable       Inadequate Mabita - Habita - Habita - Habita Continuity (Space)     0     Not Applicable       Inadequate Mabita - Habita - Habita - Habita - Habita Con	Degraded Plant Condition						
Excessive Plant Pest Presure       0       Not Applicable         Wildfur Hazard, Excessive Biomass Accumulation       0       Not Applicable         Fish and Wildfur I- Inadequate Habitat       0       Not Applicable         Inadequate Habitat - Food       0       Not Applicable         Inadequate Habitat - Cover/Shoter       0       Not Applicable         Inadequate Habitat - Mater       0       Not Applicable         Inadequate Feed and Forage       0       Not Applicable         Inadequate Feed and Forage       0       Not Applicable         Inadequate Mater       0       Not Applicable         Indequate Mater       0       Not Applicable         Inadequate Mater       0       Not Applicable         Inadequate Mater       0       Not Applicable         Inad		0	Not Applicable				
Wildfire Hazard, Excessive Biomass Accumulation       0       Not Applicable         Fish and Wildfire - Inadequate Habitat Inadequate Habitat - Food       0       Not Applicable         Inadequate Habitat - Cover/Shetter       0       Not Applicable         Inadequate Habitat - Cover/Shetter       0       Not Applicable         Inadequate Habitat - Mater       0       Not Applicable         Livestock Production Limitation Inadequate Feed and Forage       0       Not Applicable         Inadequate Feed and Forage       0       Not Applicable         Inadequate Feed and Forage       0       Not Applicable         Inadequate Mater       0       Not Applicable         Indequate Mater       0	Inadequate Structure and Composition	0	Not Applicable				
Fish and Wildlie - Inadequate Habitat - Food       0       Not Applicable         Inadequate Habitat - Cover/Shelter       0       Not Applicable         Inadequate Habitat - Cover/Shelter       0       Not Applicable         Inadequate Habitat - Water       0       Not Applicable         Inadequate Habitat - Habitat Continuity (Space)       0       Not Applicable         Livestock Production Limitation       0       Not Applicable         Inadequate Shelter       0       Not Applicable         Inadequate Water       0       Not Applicable         Inadequate Water       0       Not Applicable         Imadequate Water       0       Not Applicable         Imadequate Shelter       0       Not Applicable         Imadequate Water       0       Not Applicable         Imadequate Mater       0       Not Applicable         Imadequate Mater       0       Not Applicable         Imadequate Water       0       Not Applicable         Imadequate Facilities       0       Not Applicable         Imadequate Facilities       0       Not Applicable         Imadequate Mater       0       Not Applicable         Imadequate Mater       0       Not Applicable         Imadequate Mater <th>Excessive Plant Pest Pressure</th> <th>0</th> <th>Not Applicable</th> <th></th> <th></th>	Excessive Plant Pest Pressure	0	Not Applicable				
Inadequate Habitat - Food       0       Not Applicable         Inadequate Habitat - Cover/Shelter       0       Not Applicable         Inadequate Habitat - Water       0       Not Applicable         Inadequate Habitat - Makitat - Makitat Continuity (Space)       0       Not Applicable         Inadequate Habitat - Habitat Continuity (Space)       0       Not Applicable         Inadequate Makitat - Habitat Continuity (Space)       0       Not Applicable         Inadequate Sheler       0       Not Applicable         Inadequate Sheler       0       Not Applicable         Inadequate Water       0       Not Applicable         Indificient Energy Use       2       Combustion systems can be improved for energy efficiency.         Faming/Ranching Practices and Field Operations       0       Not Applicable         Indiverse to Substaint Improvement       1 Sight Notasening       1 Sight Notasening         A Moderate to Substaint Improvement       2 Sight on Maderate Notasening       2 Sight on Maderate Notasening	Wildfire Hazard, Excessive Biomass Accumulation	0	Not Applicable				
Inadequate Habitat - Cover/Shelter       0       Not Applicable         Inadequate Habitat - Water       0       Not Applicable         Inadequate Habitat - Cover/Shelter       0       Not Applicable         Inadequate Habitat - Habitat Continuity (Space)       0       Not Applicable         Inadequate Feed and Forage       0       Not Applicable         Inadequate Shelter       0       Not Applicable         Inadequate Water       0       Not Applicable         Inadequate Water       0       Not Applicable         Equipment and Facilities       2       Combustion systems can be improved for energy efficiency.         Farming/Ranching Practices and Field Operations       0       Not Applicable <ul> <li>Moderate Improvement</li> <li>3 Substantial Workersening</li> <li>3 Subtrantial Improvement</li> <li>3 Substantial Workersening</li> </ul>	Fish and Wildlife - Inadequate Habitat						
inadequate Habita - Water       0       Not Applicable         inadequate Habita - Habitat Continuity (Space)       0       Not Applicable         Livestock. Production Limitation Inadequate Shelter       0       Not Applicable         Inadequate Shelter       0       Not Applicable         Inadequate Water       0       Not Applicable         Inadequate Water       0       Not Applicable         Equipment and Facilities       2       Combustion systems can be improved for energy efficiency.         Farming/Ranching Practices and Field Operations       0       Not Applicable <ul> <li>Mot Applicable</li> <li>Substantial Improvement</li> <li>Substante Substantial Improvement</li> <li>Substan</li></ul>	Inadequate Habitat - Food	0	Not Applicable				
Inadequate Habitat Continuity (Space)       0       Not Applicable         Livestock Production Limitation       0       Not Applicable         Inadequate Shelter       0       Not Applicable         Inadequate Shelter       0       Not Applicable         Inadequate Shelter       0       Not Applicable         Inadequate Water       0       Not Applicable         Inadequate Facilities       2       Combustion systems can be improved for energy efficiency.         Farming/Ranching Practices and Field Operations       0       Not Applicable          Vot Applicable       1          0       Not Applicable          1       Not Applicable         Inefficient Energy Use       2       Combustion systems can be improved for energy efficiency.         Farming/Ranching Practices and Field Operations       0       Not Applicable          1       Moderate improvement       1          4       Not Applicable       1          1       Sight Not Moderate improvement       1          1       Sight Not Moderate improvement       1          1       Moderate improvement       1          1       1 <td< th=""><th>Inadequate Habitat - Cover/Shelter</th><th>0</th><th>Not Applicable</th><th></th><th></th></td<>	Inadequate Habitat - Cover/Shelter	0	Not Applicable				
Livestock Production Limitation       0       Not Applicable         Inadequate Shelter       0       Not Applicable         Inadequate Water       0       Not Applicable         Inadequate Water       0       Not Applicable         Inadequate Shelter       0       Not Applicable         Inadequate Water       0       Not Applicable         Inadequate Shelter       0       Not Applicable         Equipment and Facilities       2       Combustion systems can be improved for energy efficiency.         Farming/Ranching Practices and Field Operations       0       Not Applicable <ul> <li>Violatable</li> <li>Violatable <li>Violatable</li></li></ul>	Inadequate Habitat - Water	0	Not Applicable				
Inadequate Feed and Forage       0       Not Applicable         Inadequate Shelter       0       Not Applicable         Inadequate Water       0       Not Applicable         Inefficient Energy Use Equipment and Facilities       2       Combustion systems can be improved for energy efficiency.         Farming/Ranching Practices and Field Operations       0       Not Applicable <ul> <li>Not Applicable</li> <li>Substantial Improvement</li> <li>Subderate Worsening</li> <li>Subderate Improvement</li> <li>Substantial Improvement</li> <l< th=""><th>Inadequate Habitat - Habitat Continuity (Space)</th><th>0</th><th>Not Applicable</th><th></th><th></th></l<></ul>	Inadequate Habitat - Habitat Continuity (Space)	0	Not Applicable				
Inadequate Shelter       0       Not Applicable         Inadequate Water       0       Not Applicable         Inefficient Energy Use Equipment and Facilities       2       Combustion systems can be improved for energy efficiency.         Farming/Ranching Practices and Field Operations       0       Not Applicable <ul> <li>Moderate Ingrovement</li> <li>3 Substantial Improvement</li> <li>3 Sight to Moderate Worsening</li> <li>3 Sight to Moderate Worsening</li> <li>4 Moderate to Substantial Worsening</li> </ul>	Livestock Production Limitation						
Inadequate Water 0 Not Applicable Equipment and Facilities 2 Combustion systems can be improved for energy efficiency. Farming/Ranching Practices and Field Operations 0 Not Applicable	Inadequate Feed and Forage	0	Not Applicable				
Inefficient Energy Use       2       Combustion systems can be improved for energy efficiency.         Farming/Ranching Practices and Field Operations       0       Not Applicable	Inadequate Shelter	0	Not Applicable				
Equipment and Facilities       2       Combustion systems can be improved for energy efficiency.         Farming/Ranching Practices and Field Operations       0       Not Applicable         V       V       V         Substantial Improvement       0       No Effect         1 Moderate to Substantial Improvement       0       Not Effect         2 Sight to Moderate Improvement       2       Sight to Moderate Worsening         2 Sight to Moderate Improvement       3       Adoerate to Substantial Worsening	Inadequate Water	0	Not Applicable				
Equipment and Facilities       2       Combustion systems can be improved for energy efficiency.         Farming/Ranching Practices and Field Operations       0       Not Applicable         V       V       V         Substantial Improvement       0       No Effect         1 Moderate to Substantial Improvement       0       Not Applicable         2 Sight to Moderate Improvement       2 Sight to Moderate Improvement       2 Sight to Moderate Vorsening         2 Sight to Moderate Improvement       2 Sight to Moderate Improvement       3 Moderate to Substantial Worsening	Inefficient Energy Use						
CPPE Practice Effects:0 No Effect5 Substantial Improvement-1 Slight Worsening4 Moderate to Substantial Improvement-2 Slight to Moderate Worsening3 Moderate Improvement-3 Moderate Worsening2 Slight to Moderate Improvement-4 Moderate to Substantial Worsening		2	Combustion systems can be improved for energy e	efficiency.			
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5 Substantial Improvement-1 Slight Worsening4 Moderate to Substantial Improvement-2 Slight to Moderate Worsening3 Moderate Improvement-3 Moderate Worsening2 Slight to Moderate Improvement-4 Moderate to Substantial Worsening	Farming/Ranching Practices and Field Operations	0	Not Applicable				
5 Substantial Improvement-1 Slight Worsening4 Moderate to Substantial Improvement-2 Slight to Moderate Worsening3 Moderate Improvement-3 Moderate Worsening2 Slight to Moderate Improvement-4 Moderate to Substantial Worsening							
5 Substantial Improvement-1 Slight Worsening4 Moderate to Substantial Improvement-2 Slight to Moderate Worsening3 Moderate Improvement-3 Moderate Worsening2 Slight to Moderate Improvement-4 Moderate to Substantial Worsening			CPF	PE Practice Effects:	0 No Effect		
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1 Slight Improvement -5 Substantial Worsening							
			1 Slig	ght Improvement	-5 Substantial Worsening		