San Joaquin Valley Unified Air Pollution Control District

2022 Annual Demonstration Report

SIP-Creditability of Emission Reductions Generated through Incentive Programs

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EXECUTIVE SUMMARY

The San Joaquin Valley Unified Air Pollution Control District (District) currently operates one of the largest and most well-respected incentive programs in California. Since 1992, the District's incentive programs have provided over $1.9 billion in incentive funds. This has been matched by cost-sharing on the part of participating businesses, public agencies, and residents, who together have invested over $2.5 billion, for a total public/private investment of over $4.5 billion in low and zero emissions equipment and operations. These combined efforts have accelerated the adoption of cleaner technologies (beyond that achieved by stringent regulations alone) achieved over 222,000 tons of lifetime emission reductions, improved air quality and public health, and progressed the San Joaquin Valley (Valley) towards attainment of increasingly stringent federal air quality standards. In addition to District-administered incentive programs, the California Air Resources Board (CARB) and the United States Department of Agriculture (USDA) Natural Resources Conservation Service (NRCS) also implement highly effective incentive programs, further reducing emissions in the Valley.

Although incentive programs result in real air quality benefits, the emission reductions resulting from voluntary incentive programs have generally not been quantified for or provided credit in attainment plans to meet federal Clean Air Act (CAA) requirements. District Rule 9610 (State Implementation Plan Credit for Emission Reductions Generated through Incentive Programs) serves as an administrative mechanism for crediting emission reductions achieved in the Valley through incentive programs for use in state implementation plans (SIPs). The future year emission reductions claimed in District SIPs through Rule 9610 are to be quantified through annual demonstration reports, such as this Annual Demonstration Report.

The emission reductions quantified and claimed for SIP credit as part of this report are accounted for in Table 1 and Table 2 below and include reductions of oxides of nitrogen (NOx), particulate matter (PM), and reactive organic gases (ROG). Extensive documentation of these reductions, related SIP commitments, and other Rule 9610 requirements are included in the remainder of this report and in supporting data provided in the Annual Demonstration Report Data Sheet that accompanies this report.

On Thursday April 9, 2015, EPA finalized a limited approval and limited disapproval of Rule 9610 as a revision to the California SIP[1]. The associated Technical Support Document[2] contained recommendations for implementation for the Manual of Procedures (MOP) and the Annual Demonstration Report. The District evaluated these recommendations and incorporated them throughout this Annual Demonstration Report as appropriate.

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[1] EPA. 40 CFR Part 52. *Revision to the California State Implementation Plan; San Joaquin Valley Unified Air Pollution Control District; Quantification of Emission Reductions From Incentive programs* Retrieved on April 9, 2015 from https://www.regulations.gov/document?D=EPA-R09-OAR-2013-0754-0056.

[2] EPA. *EPA's Notice of Proposed Rulemaking for the California State Implementation Plan San Joaquin Valley Unified Air Pollution Control District's Rule 9610, State Implementation Plan Credit for Emission Reductions Generated through Incentive Programs*. Retrieved on June 19, 2014 from http://www.regulations.gov/.

Table 1 summarizes the total SIP-creditable incentive-based emission reductions generated through incentive programs, expressed in tons per year and tons per day, claimed within the 2022 Annual Demonstration Report. The data also includes 915 District projects and 102 NRCS projects that were implemented during the timeframes covered under previous reports but were not included in those data sets at the time.

Table 1: Total SIP-Creditable Incentive-Based Emission Reductions Generated Through Incentive Programs

Current Reporting Period						
Year	Emissions Reduced (tons per year)			Emissions Reduced (tons per day)		
	NOx	PM	ROG	NOx	PM	ROG
2009	0.00	0.00	0.00	0.00	0.00	0.00
2010	0.00	0.00	0.00	0.00	0.00	0.00
2011	0.00	0.00	0.00	0.00	0.00	0.00
2012	0.00	0.00	0.00	0.00	0.00	0.00
2013	0.00	0.00	0.00	0.00	0.00	0.00
2014	0.00	0.00	0.00	0.00	0.00	0.00
2015	0.00	0.00	0.00	0.00	0.00	0.00
2016	0.00	0.00	0.00	0.00	0.00	0.00
2017	0.00	0.00	0.00	0.00	0.00	0.00
2018	0.00	0.00	0.00	0.00	0.00	0.00
2019	0.00	0.00	0.00	0.00	0.00	0.00
2020	113.02	6.82	12.56	0.31	0.02	0.03
2021	779.98	51.57	90.06	2.14	0.14	0.25
2022	788.13	52.26	91.27	2.16	0.14	0.25
2023	787.89	52.25	91.25	2.16	0.14	0.25
2024	787.42	52.23	91.22	2.16	0.14	0.25
2025	784.18	52.20	89.07	2.15	0.14	0.24
2026	779.66	52.06	82.19	2.14	0.14	0.23
2027	778.92	52.00	82.09	2.13	0.14	0.22
2028	776.04	51.84	81.79	2.13	0.14	0.22
2029	776.04	51.84	81.79	2.13	0.14	0.22
2030	669.63	45.22	71.50	1.83	0.12	0.20
2031	10.54	0.78	1.22	0.03	0.00	0.00

Table 2 summarizes the cumulative total SIP-creditable incentive-based emission reductions generated through incentive programs, expressed in tons per year and tons per day, claimed in the 2013 - 2022 Annual Demonstration Reports.

Table 2: Cumulative Total SIP-Creditable Incentive-Based Emission Reductions Generated Through Incentive Programs

Cumulative Reporting Period						
Year	Emissions Reduced (tons per year)			Emissions Reduced (tons per day)		
	NOx	PM	ROG	NOx	PM	ROG
2009	1098.99	35.78	116.17	3.01	0.10	0.32
2010	2655.71	82.02	237.29	7.28	0.22	0.65
2011	4112.25	141.11	364.96	11.27	0.39	1.00
2012	5804.68	210.38	477.51	15.90	0.58	1.31
2013	6699.86	248.37	572.27	18.36	0.68	1.57
2014	6494.06	243.85	564.13	17.79	0.67	1.55
2015	6528.68	252.86	620.84	17.89	0.69	1.70
2016	6491.76	256.09	673.48	17.79	0.70	1.85
2017	6142.10	250.86	719.09	16.83	0.69	1.97
2018	6689.96	288.29	784.01	18.33	0.79	2.15
2019	7038.71	339.65	850.61	19.28	0.93	2.33
2020	7236.01	384.26	871.66	19.82	1.05	2.39
2021	7132.36	399.63	845.09	19.54	1.09	2.32
2022	6411.12	366.95	745.00	17.56	1.01	2.04
2023	5763.99	339.09	662.52	15.79	0.93	1.82
2024	5147.73	312.07	560.49	14.10	0.85	1.54
2025	4520.89	284.61	481.48	12.39	0.78	1.32
2026	4087.14	260.68	424.71	11.20	0.71	1.16
2027	3476.41	228.72	359.35	9.52	0.63	0.98
2028	2788.47	184.55	288.14	7.64	0.51	0.79
2029	1859.46	122.30	190.49	5.09	0.34	0.52
2030	798.99	51.71	79.24	2.19	0.14	0.22
2031	98.83	4.40	4.25	0.27	0.01	0.01

I. ANNUAL DEMONSTRATION REPORT ELEMENTS

This District-prepared report will demonstrate the quantity of emission reductions achieved through SIP-creditable incentive programs. District Rule 9610 has several requirements to demonstrate that the claimed incentive-based emission reductions are SIP-creditable. Section 4.0 of Rule 9610 presents the elements that this 2022 Annual Demonstration Report must include, which are summarized in Table 3 below.

Table 3: Annual Demonstration Report Requirements

Element	Where satisfied
Description of guidelines used, how the guidelines ensure that the claimed emission reductions are SIP-creditable, and a list of any procedures being used for the first time under the rule	Section II of this report
Quantification of emission reductions generated through incentive programs, summarized by pollutant and by years and including: • Cost-effectiveness • Funding amount • Incentive program guideline • Project type	Section VI of this report
Adjustments to reductions claimed in prior annual demonstration reports	NA
Identification of SIP commitments in District adopted SIP(s) which the District has satisfied in whole or in part through Rule 9610, including identification and quantification of, and remedies for, any shortfalls	Section III of this report
Project information, including the following, as applicable: • Project identification number • Project location • Project type • Project life • Implementation date • Funding provided by the District, NRCS, or CARB • Guidelines used • Quantified emission reductions per year, and aggregated over the project life, by pollutant • Description of baseline and new equipment • Additional details as needed	Appendices A and B of this report, Manual of Procedures, and Annual Demonstration Report Data Sheet
Summary of monitoring and enforcement activities for the reporting period for incentive programs for which SIP-creditable emission reductions are being claimed, including: • Identification of project audits, usage reports, inspections, and other monitoring activities • List of projects that do not satisfy contractual requirements and associated enforcement actions/remedies	Section IV of this report
Incentive Program Evaluation: retrospective assessment of the incentive program performance and recommendations, if any, for future enhancements	Section V of this report

Annual Demonstration Report Process

The Draft Annual Demonstration Report is released to the public for review and comment. Upon close of the comment period all comments received are addressed accordingly. The APCO then presents the Draft Annual Demonstration Report to the District Governing Board for review followed by submittal to CARB and EPA for concurrence prior to the August 31 deadline of each year. The public has an additional opportunity to comment on the draft report at the Governing Board public hearing. All previous versions of the Annual Demonstration Report, the Rule and the Manual of Procedures are available on the District's website.

Recordkeeping Requirements

Section 6.0 of Rule 9610 requires all documents created and/or used in implementing the requirements of Section 4.0 shall be kept and maintained as required by the applicable incentive program guidelines. Consistent with the California Public Records Act and other related requirements, such records shall be made available for public review. The public may request records through the District's Public Records Release Request, available on the District website at: http://www.valleyair.org/General_info/public_records_release_request.htm. However, the records related to implementation of the USDA NRCS Combustion Systems Improvement of Mobile Engines incentive program are prohibited from mandatory disclosure pursuant to the Food, Conservation, and Energy Act of 2008 (7 U.S.C. § 8791).

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II. INCENTIVE PROGRAM GUIDELINES

A. SIP-Creditable Incentive Program Guidelines

Pursuant to Section 4.1 of Rule 9610, the annual demonstration report shall contain a list of any incentive program guidelines that are being used to claim SIP credit under this rule.

This year the District is also utilizing projects under the Funding Agricultural Replacement Measures for Emission Reductions (FARMER) program guidelines.

Section 3.1 of Rule 9610 identifies pre-approved incentive program guidelines from which the District can claim credit for incentive-based emission reductions. These guidelines include:

- CARB Carl Moyer Memorial Air Quality Standards Attainment Program (Carl Moyer Program) Guidelines for incentive projects funded by either the Carl Moyer Program or non-Carl Moyer funding sources, for the project types listed in Table 4.

Table 4: Carl Moyer Program Project Types by Component

		2005 Guidelines (approved 11/17/2005)	2008 Guidelines (approved 3/27/2008)	2011 Guidelines (approved 4/28/2011)	2017 Guidelines (approved 4/27/2017)
Component	**Component Option**	**Chapter**	**Chapter**	**Chapter**	**Chapter**
On-Road Heavy-Duty Vehicle (On-Road)	New Vehicle Purchase	1	3	4	4
	Repower	1	3	4	4
	Retrofit	1	3	4	n/a
On-Road Heavy-Duty Vehicles (On-Road)	Fleet Modernization Replacement	2	4	5	n/a
Off-Road Compression-Ignition Equipment (Off-Road)	Vehicle Replacement	n/a	7	9	5
	Engine Repower	5	5	7	5
	Engine Retrofit	5	5	7	5
Portable and Stationary Agricultural Sources (Ag Engine)	Repower	10	10	10	5
	New Purchase	10	10	10	n/a
	Engine Retrofit	10	10	10	5

- CARB Proposition 1B Goods Movement Emission Reduction Program (Proposition 1B) Guidelines for Heavy-Duty Diesel Trucks, for the project types listed in table 5.

Table 5: Proposition 1B Program Project Types by Component

Component	Component Option	2008 Guidelines (approved 02/28/2008) Appendix	2010 Guidelines (approved 03/25/2010) Appendix	2013 Guidelines (approved 01/25/2013) Appendix	2015 Guidelines (approved 6/25/2015) Appendix
On-Road Prop 1B	Repower	A	A	A	A
	Replacement (Vehicle Replacement)	A	A	A	A
	PM retrofit	A	A	A	n/a
	PM + NOx Retrofit	A	A	A	n/a
Locomotive Prop 1B	Locomotive Replacement	-	-	-	B

- NRCS Conservation Practice Standard 372 - Combustion System Improvement (approved September 2010); Conservation Practice Standard 723 – Combustion System Air Emission Management (approved May 2009); NRCS General Manual, Title 450, Part 401 – Conservation Practice Standards (approved October 18, 2009); NRCS General Manual, Title 450, Part 407 – Documentation, Certification, and Spot Checking (approved October 17, 2009); Conservation Practice Standard 372 Specification (approved September 2010); NRCS Interim Conservation Practice Standard 723 – Combustion System Air Emission management (approved May 2009); and associated NRCS Program Combustion System Improvement of Mobile Engines Guidelines for incentive projects funded by EQIP funds and accompanying calculation, emission factors, and destruction certification worksheets.

- Funding Agricultural Replacement Measures for Emission Reductions (FARMER) Program Guidelines for incentive projects funded by the FARMER sources, for the project types listed in Table 6.

Table 6: FARMER Program Project Types by Component

Component	Component Option	2018 Guidelines (approved 3/23/2018) Chapter
Ag UTV	Replacement (Vehicle Replacement)	3.2.2
On-Road Heavy-Duty Vehicle (On-Road)	Ag Truck Replacement	3.2.1
Off-Road Compression-Ignition Equipment (Off-Road Cotton Pickers)	Ag Vehicle Replacement 2 for 1	3.2.1

The summaries of SIP-creditable incentive-based emission reductions claimed under Section 3.1 of Rule 9610 are included in Section VI of this annual demonstration report, and the detailed information for each project is presented in the Annual Demonstration Report Data Sheet that accompanies this report. To identify the specific guideline reference applicable to an individual project in the data sheet, reference the "Applicable Guideline", "Component" and "Component Option" fields from the data sheet to the corresponding list of pre-approved guidelines identified in the tables above.

B. Description of SIP-Creditable Program Guidelines

Sections B(1) through B(4) below describe the specific incentive program guidelines identified in Rule 9610 that were used to reduce emissions and calculate the emission reductions included in this annual demonstration report. These guidelines are developed and periodically revised through a public process with opportunity for public review and commenting. In cases where more than one version of an incentive program guideline was used for a given incentive project, the specific version is identified and included within the detailed project information provided in the Annual Demonstration Report Data Sheet.

1. CARB Carl Moyer Memorial Air Quality Standards Attainment Program Guidelines

The Carl Moyer Program is a grant program that funds the incremental cost of cleaner-than-required engines and equipment. Adopted in 1999 by CARB, this program was created through a public process and provides incentives to help obtain early or extra emission reductions, especially from emission sources in environmental justice communities and areas disproportionately impacted by air pollution with a primary objective of obtaining cost-effective and surplus emission reductions.

The Carl Moyer Program has been successfully implemented through the cooperative efforts of CARB and air districts in California. As directed by the California Health and Safety Code, CARB's role is to oversee the Carl Moyer Program by managing program funds, developing and maintaining guidelines, and determining cost-effectiveness methodologies. Air districts use the Carl Moyer Program Guidelines to select, fund, and monitor projects in their jurisdiction by providing grants to public and private entities.

The Carl Moyer Program guidelines include robust administrative requirements to ensure that emission reductions are enforceable and are achieved throughout the life of a project. The District has used the Carl Moyer Program Guidelines to develop the practices that are currently in place to ensure all EPA integrity principles of Surplus, Quantifiable, Enforceable, and Permanent are met. The following is a summary of how the Carl Moyer Program Guidelines meet each SIP-creditability criterion:

Surplus

The Carl Moyer Program Guidelines ensure that projects are surplus to regulations by only allowing projects to be selected that are not required by any federal, state, or local regulation, memorandum of agreement/understanding with a regulatory

agency, settlement agreement, mitigation requirement, or other legal mandate. For example, the guidelines have accounted for each adopted regulation to determine the compliance dates of any affected engines and emission benefits claimed by each regulation have been determined. Minimum project lives are established in each component to ensure that the program does not fund actions taken to comply with regulatory deadlines. The minimum project life requirement also ensures the overall cost effectiveness of the program and that the emission reductions are real for the life of the project.

In some cases, a split project life methodology is utilized to properly account for all possible emission reductions while still ensuring that the emission reductions being claimed are surplus. In the case of split project life calculations, the first calculation captures the surplus between the baseline (tier 1 or tier 2) technology and a new tier 4 for the length of time until the rule compliance deadline. The second calculation captures the surplus from tier 4 (compliance requirement baseline) to electric for the remainder of the project life. Projects that are subject to the split life calculation methodology typically have a total project life of ten (10) years.

The District has utilized a split project life for tier 1 and tier 2 diesel agricultural irrigation pumps being replaced with new electric motors. These diesel engines are required by the District's Rule 4702 to upgrade to a tier 4 diesel engine by 12/31/2013. The project life is split between the surplus time for Rule 4702 (baseline to tier 4) and the remainder of the allowable 10 years for the reduced technology to the electric motor (tier 4 to electric).

The summary below provides more detail about how the 2017 Carl Moyer Program Guidelines ensure that the SIP-creditability integrity principle of "Surplus" is fulfilled:

- *Requirement that emission reductions generated by incentive programs are not required by other regulation*
  - (2011 Moyer Guidelines Chapter 2, Project Criteria A, H, I, MM)
  - (2017 Moyer Guidelines, Chapter 2, Project Criteria A, B, C, D, G, K).
- *Protocols for quantifying maximum project life and maximum emission reductions which account for upcoming regulatory deadlines for a given source category*
  - (2011 Moyer Guidelines Chapter 2, Project Criteria B, I and MM)
  - (2017 Moyer Guidelines Chapter 2, Project Criteria B, C, D).
- *Assurance that baseline equipment was in use*
  - (2011 Moyer Guidelines Chapter 3, Section Z.6(B) and AA.2.)
  - (2017 Moyer Guidelines, Chapter 3, Section V.6(B) and W.2.)
- *Assurance that new/upgraded equipment is not already accounted for in future-year inventories underlying a SIP attainment demonstration by natural fleet turnover, finite equipment life or incentives*

- The definition of surplus in the Moyer guidelines requires that the emission reductions achieved are above and beyond those required under existing regulations that are incorporated into a SIP. As part of the SIP development process, CARB reviews the Moyer project mix to ensure that the amount of emission reductions credited to the program are not included in the future year inventories specific to each individual attainment demonstration.

o *Procedures that ensure that old equipment was used in the geographic area of interest*
- (2011 Moyer Guidelines, Chapter 2, Section S and Chapter 3, Section Z.6.(B))
- (2017 Moyer Guidelines, Chapter 2, Section S and Chapter 3 Section T.3 and V.6(B)).

Quantifiable

The District evaluates the potential emission reductions that would be achieved by replacing the old equipment with the new equipment using the established calculation methodologies and emissions factors in the program guidelines. The calculation methodology, including calculation formulas, assumptions, emission factors and sample calculations are part of the Carl Moyer Program Guidelines and have been approved through a public process. To ensure that real, quantifiable emission reductions are achieved over the life of a project, the program guidelines require that emission control technologies be certified or verified by CARB (certification or verification by the EPA or International Maritime Organization may be allowed for some source categories for which CARB does not have a certification or verification program). The summary below provides more detail about how the 2017 Carl Moyer Program Guidelines ensure that the SIP-creditability integrity principle of "Quantifiable" is fulfilled:

- *Emissions data needed to calculate emission reductions must be publicly available, current, and accurate. This should include appropriate emission factors, load factors, and other conversion factors.*
  - 2011 Moyer Guidelines, Appendix D (Publicly Available) and Chapter 1, Section E.7 (Allows CARB Executive Officer to modify the Guidelines under a public process, to keep them effective and up-to-date.)
  - 2017 Moyer Guidelines, Appendix D (Publicly Available) and Chapter 1, (Guidelines modified under a public process, to keep them effective and up-to-date.)
- *Guidelines include necessary formulas and instructions to calculate emission reductions based on above data, and explicit instructions to ensure appropriate data are used in calculations*
  - 2011 and 2017 Moyer Guidelines, Appendix C (contains formulas and instructions)
  - 2011 and 2017 Moyer Guidelines, Supplemental document, "Sample Calculations" (contains formulas and instructions)

  - 2011 Moyer Guidelines, Appendix C, Section B.5, and Supplemental document, “Sample Calculations” (contains explicit instructions regarding inputs)
  - 2017 Moyer Guidelines, Appendix C, Section B.1(b), and Supplemental document, “Sample Calculations” (contains explicit instructions regarding inputs)
- *Requirement to provide activity data sufficient to determine actual emission reductions*
  - 2011 Moyer Guidelines, Chapter 3, Section Z.6.(B)
  - 2017 Moyer Guidelines, Chapter 3, Section V.6.
- *Requirement to demonstrate the percentage of emission reductions that occur in the geographic area of interest, and that emission reductions are therefore SIP creditable*
  - 2011 Moyer Guidelines, Chapter 2, Section S and Chapter 3, Section Z.6.(B)
  - 2017 Moyer Guidelines, Chapter 2, Section S
- *Requirement to periodically audit completed projects to verify emission reduction projections are fulfilled*
  - 2011 Moyer Guidelines Chapter 3, Sections Z.10 and EE.
  - 2017 Moyer Guidelines Chapter 3, Section V.10 and AA.

Enforceable

Emission reductions and other required actions are enforceable if: they are independently verifiable; program violations and those liable are defined; information needed to determine emission reductions is available to the public; and they are practicably enforceable in accordance with other EPA guidance on practicable enforceability. The summary below provides more detail about how the 2017 Carl Moyer Program Guidelines ensure that the SIP-creditability integrity principle of “Enforceable” is fulfilled:

- *Require Grantees to provide all necessary recordkeeping and reporting needed to verify emission reductions*
  - 2011 Moyer Guidelines, Chapter 3, Section Z.9 and DD
  - 2017 Moyer Guidelines, Chapter 3, Section V.9 and Z
- *Require inspections to ensure incentive program information is consistent with actual operating equipment*
  - Moyer Guidelines Chapter 3, Sections AA and BB.
- *Identify liable parties and liability associated with contract noncompliance*
  - Moyer Guidelines Chapter 3, Section Z.11.

Permanent

To ensure that the SIP-creditable emission reductions are permanent, actions such as pre-inspections and post-inspections of the new equipment and verification that the baseline equipment has been destroyed through the required process as described in the program guidelines are performed. The summary below provides

more detail about how the 2017 Carl Moyer Program Guidelines ensure that the SIP-creditability integrity principle of "Permanent" is fulfilled:

- *Data needed to determine and track location of activity*
  - 2011 Moyer Guidelines, Chapter 3, Section DD
  - 2017 Moyer Guidelines, Chapter 3, Section Z
- *Provisions for ensuring that the project was completed, including the verification of disposition of baseline equipment.*
  - 2011 Moyer Guidelines Chapter 3, Sections AA and BB
  - 2017 Moyer Guidelines Chapter 3, Sections W and X

A summary of emission reductions achieved through the use of the Carl Moyer Program Guidelines is included in Section VII of this report. The complete Carl Moyer Program Guidelines can be found online at: www.arb.ca.gov/msprog/moyer/guidelines/current.htm.

2. CARB Proposition 1B: Goods Movement Emission Reduction Program Guidelines

In November 2006, California voters approved Proposition 1B authorizing $1 billion in bond funding to reduce air pollution associated with the movement of freight along California's major trade corridors. Subsequent implementing legislation established standards and procedures for the expenditure of these funds. Governor Schwarzenegger's Executive Order S-02-07 provides further direction to ensure accountability and transparency in administering bond-funded programs.

CARB developed the *Proposition 1B: Goods Movement Emission Reduction Program Guidelines for Implementation* (Proposition 1B Guidelines),through a public process in consultation with stakeholders, including: air districts, metropolitan planning organizations, port authorities, shipping lines, railroad companies, trucking companies, harbor craft owners, freight distributors, terminal operators, local port community advisory groups, community interest groups, and airports. The Proposition 1B Guidelines ensure that the District funds qualifying projects that achieve the following results:

- Reduce emissions and health risks;
- Incorporate simplicity and efficiency;
- Ensure cost effectiveness;
- Leverage other funding sources; and
- Provide transparency and accountability.

CARB, under direction from Executive Order S-02-07, established transparency and accountability measures for administering the bond funding. CARB has made all program materials including, but not limited to; guidelines, Board Resolutions, Notice of Funding Availability, summary tables, recommendations for funding, materials from public workshops, and completed applications submitted by local and state agencies available on their website.

The program is designed to supplement CARB's diesel regulations by funding early compliance or providing extra emission reductions beyond those required by current rules. The guidelines include robust administrative requirements to ensure that emission reductions are enforceable and are achieved throughout the life of a project. The District has used the Proposition 1B Guidelines to develop the practices that are currently in place to ensure all EPA integrity principles are met. The following is a summary of how the Proposition 1B Guidelines meet each SIP-creditability criterion:

Surplus

The Carl Moyer Program Guidelines ensure that projects are surplus to regulations by only allowing projects to be selected that are not required by any federal, state, or local regulation, memorandum of agreement/understanding with a regulatory agency, settlement agreement, mitigation requirement, or other legal mandate. For example, the guidelines have accounted for each adopted regulation to determine the compliance dates of any affected engines and emission benefits claimed by each regulation have been determined. Minimum project lives are established in each component to ensure that the program does not fund actions taken to comply with regulatory deadlines. The minimum project life requirement also ensures the overall cost effectiveness of the program and that the emission reductions are real for the life of the project.

Quantifiable

The District evaluates the potential reductions that would be achieved by replacing the old equipment with the new equipment using the Project Benefits Calculator created by CARB. The calculator is available to the public on CARB's website at http://www.arb.ca.gov/bonds/gmbond/gmbond.htm and is updated by CARB on a regular basis. Chapter 2 Section C discusses Proposition 1B program emission reduction calculations.

Enforceable

The District has created enforceable contracts, based on requirements in the Proposition 1B Program Guidelines, which are signed by both District management and the Grantee to ensure that projects are fully accomplished and the integrity principles are met. The legally binding contracts include, but are not limited to, usage reporting requirements for the Grantee, operating location requirements for the new vehicle, the destruction requirements of the baseline equipment/engine, and an allowance for the District to conduct an audit of the project at any time during the project life. Chapter 4 Section A and Appendix A of Proposition 1B Program guidelines details contract requirements for truck projects.

Permanent

To ensure that the SIP-creditable emission reductions are permanent, actions such as post-inspections of the new equipment and verification that the baseline equipment has been destroyed through the required process as described in the program guidelines are performed. Chapter 4 Section A of the Proposition 1B program discusses scrap and post inspection requirements.

A summary of emission reductions achieved through the use of the Proposition 1B Program Guidelines is included in Section VI of this report. The complete Proposition 1B Program Guidelines can be found online at: http://www.arb.ca.gov/bonds/gmbond/gmbond.htm.

3. FARMER Program Guidelines

The FARMER Program is a grant program that funds the incremental cost of cleaner-than-required engines and equipment. In September 2017, Assembly Bill (AB) 134 (Committee on Budget, Chapter 254, Statutes of 2017) and AB 109 (Ting, Chapter 249, Statutes of 2017) appropriated $135 million from the State Budget for Fiscal Year (FY) 2017-18 to the California Air Resources Board (CARB or Board) for the reduction of criteria, toxic, and greenhouse gas (GHG) emissions from the agricultural sector. CARB staff developed these proposed *Funding Agricultural Replacement Measures for Emission Reductions (FARMER) Program Guidelines* (Guidelines) to cover the three related sources of funding included in AB 134 and AB 109.

The FARMER Program has been successfully implemented through the cooperative efforts of CARB and air districts in California. As directed by the California Health and Safety Code, CARB's role is to oversee the FARMER Program by managing program funds, developing and maintaining guidelines, and determining cost-effectiveness methodologies. Air districts use the FARMER Program Guidelines to select, fund, and monitor projects in their jurisdiction by providing grants to public and private entities.

The FARMER Program guidelines include robust administrative requirements to ensure that emission reductions are enforceable and are achieved throughout the life of a project. The District has used the FARMER Program Guidelines to develop the practices that are currently in place to ensure all EPA integrity principles of Surplus, Quantifiable, Enforceable, and Permanent are met. The following is a summary of how the FARMER Program Guidelines meet each SIP-creditability criterion:

Surplus

The FARMER Guidelines ensure that projects are surplus to regulations by only allowing projects to be selected that are not required by any federal, state, or local regulation, memorandum of agreement/understanding with a regulatory agency, settlement agreement, mitigation requirement, or other legal mandate. All calculated emissions are in excess of the baseline emission inventory, attainment year, and progress milestone year forecasts that include adopted regulations. Minimum project lives are established in each component's guidelines to ensure that the program does not fund actions taken to comply with regulatory deadlines. The minimum project life requirement also ensures that the emission reductions are real for the life of the project.

Quantifiable

The District evaluates the potential emission reductions that would be achieved by replacing the old equipment with the new equipment using the established calculation methodologies and emissions factors in the program guidelines. The calculation methodology, including calculation formulas, assumptions, emission factors and sample calculations are part of the current Carl Moyer or FARMER Program Guidelines and have been approved through a public process. To ensure that real, quantifiable emission reductions are achieved over the life of a project, the program guidelines require that emission control technologies be certified or verified by CARB (certification or verification by the EPA) or be verified to emit zero tailpipe emissions. The summary below provides more detail about how the 2018 FARMER Guidelines ensure that the SIP-creditability integrity principle of "Quantifiable" is fulfilled:

- The District has created enforceable contracts/vouchers, based on requirements in the FARMER Guidelines, which are signed by both District management and the Grantee to ensure that projects are fully accomplished and the integrity principles are met. The legally binding contracts/vouchers include, but are not limited to, usage reporting requirements for the Grantee, operating location requirements for the new vehicle, the destruction requirements of the baseline equipment/engine, and an allowance for the District to conduct an audit of the project at any time during the project life.

Enforceable

Enforceable means emission reductions are enforceable if the incentive program guidelines include provisions for ensuring the following:

- The emission reductions are independently and practicably verifiable through reporting, inspections, monitoring, and other mechanisms;
- Incentive program requirements are defined through legally binding contracts, including identifying the party or parties responsible for ensuring that emission reductions are achieved;
- Funding recipients are obligated to provide all records needed to demonstrate that emission reductions are achieved; and
- The air district provides public access to all emissions-related information for reductions claimed.

Permanent

To ensure that the SIP-creditable emission reductions are permanent, actions such as post-inspections of the new equipment and verification that the baseline equipment has been destroyed through the required process as described in the program guidelines are performed.

4. USDA NRCS Combustion Systems Improvement of Mobile Engines Incentive Program Guidelines

Under the Food Conservation and Energy Act of 2008, the USDA Secretary provides eligible producers with program support to address serious air quality concerns from agricultural operations and help meet regulatory requirements through the Environmental Quality Incentives Program (EQIP). The National Air Quality Initiative (NAQI, once referred to as "CIG-b") is a voluntary incentive program with the primary goal to achieve and maintain the health-based National Ambient Air Quality Standards (NAAQS) within designated non-attainment areas of California. Financial assistance is targeted to counties that have been identified as having significant air quality resource concerns by being designated as non-attainment for Ozone and/or Particulate Matter (PM10 / PM2.5). These areas experience air pollution levels that persistently exceed the NAAQS established by the CAA.
http://www.nrcs.usda.gov/wps/portal/nrcs/detail/ca/programs/financial/eqip/?cid=stelprdb1247012

Given its experience in running similar incentive programs, the District provided assistance to NRCS in developing this new program. Through this program, NRCS provides incentive funds to assist farmers in replacing diesel powered agricultural equipment with the goal of ensuring the resulting emission reductions meet the SIP-creditability criteria of being surplus, quantifiable, enforceable, and permanent. Eligible participants are owners of land in agricultural or forest production or persons who are engaged in livestock, agriculture, or forest production on eligible land and that have a natural resource concern on the land.

Applications are accepted on a continuous basis with periodic application ranking cut-offs. The NRCS has specific expertise regarding agricultural practices and operations and works closely with agricultural stakeholders in reviewing applications for eligibility. Applications are ranked for funding based upon ranking criteria developed with input from Local Work Groups, Stakeholders, and the State Technical Advisory Committee (STAC). The ranking score of a project is based on multiple factors including but not limited to:

- Whether or not the project location is in an area that has an EPA NAAQS non-attainment designation for PM2.5, PM10, and/or Ozone and what type of designation that area has (for example "extreme" nonattainment).
- If there are currently any local or state agriculturally based air emission regulatory requirements for the area that the project is located.
- The emission level of the baseline equipment/engine and the emission factors of the new/replacement equipment/engine.
- The amount of NOx, ROG, and PM that is projected to be reduced by funding the project.

The ranking criteria ensure that the projects with the greatest amount of reductions, resulting in the highest air quality benefit will be selected for funding.

NRCS has created robust administrative requirements based on those in the Carl Moyer Program Guidelines to ensure that emission reductions are enforceable, are achieved throughout the life of a project, and ensure all EPA integrity principles are met. These

requirements are contained in Conservation Practice Standard (CPS) 372 – Combustion System Improvement and associated specifications and procedures. The following is a summary of how the NRCS Guidelines meet each SIP-creditability criterion:

Surplus

Under the NAQI, page 3 of the CA-NRCS program guidelines specifies that SIP creditable emission reductions are "achieved from contracts or parts of contracts funded under the air quality initiative [that] are not required by any federal, state, or local regulation, settlement agreement, mitigation requirement, or other legal mandate." A rule or regulation does not currently exist for off-road mobile agricultural equipment, so the emission reductions resulting from replacing existing mobile off-road agricultural engines funded under the NAQI per CPS 372-Combustion Systems Improvement are surplus. The National Air Quality Initiative Programs Description is posted on-line at: http://www.nrcs.usda.gov/wps/portal/nrcs/detail/ca/programs/financial/eqip/?cid=stelprdb1247003.
The 2012 CA-NRCS program guidelines are posted on-line at: http://www.nrcs.usda.gov/Internet/FSE_DOCUMENTS/nrcs144p2_063865.pdf

Quantifiable

The District provided technical assistance to CA-NRCS in developing their calculation methodologies. The methodologies from the Carl Moyer Program are the basis for components included in CPS-372 and its supporting documents for the NAQI, including the CA-NRCS program guidelines. The District provided technical assistance to CA-NRCS in developing their calculation methodologies, which are consistent with the Carl Moyer Program. The NRCS Field Office Technical Guide places a ten-year lifespan for projects implemented under CPS 372 – Combustion System Improvement, which is also consistent with the Carl Moyer program. A conservation practice lifespan is the minimum time (in years) the implemented practice is expected to be fully functional for its intended purpose (NRCS General Manual, Title 450, Part 401.15) http://directives.sc.egov.usda.gov/viewerFS.aspx?hid=19430. A list of California NRCS practice standard life-spans are posted on-line at: https://efotg.sc.egov.usda.gov/references/public/CA/Section-IV-Practice-List-Lifespan_03-18.xlsx.
The emission reductions for each project, including projects with multiple old units for one new unit, are calculated using the methodologies outlined in the Carl Moyer Guidelines. All equipment engines are cross-referenced against a CARB executive order that verifies the emission of every equipment engine. The NRCS calculation worksheets and emission factors are posted on-line at: https://efotg.sc.egov.usda.gov/references/public/CA/TN-AQ-04_CPS-372_Estimating_Emissions-SIP_Reporting.pdf

Enforceable

The NRCS inspects equipment in proposals prior to contract development to verify the existing mobile off-road agricultural equipment is operational per CPS-372 specifications. Destruction of existing equipment is certified by the disposal

operator and participant and date-stamped photos are provided. The Destruction Certification worksheet is posted on-line at: https://efotg.sc.egov.usda.gov/references/public/CA/CA_Destruction_Certification_Worksheet.docx

On an annual basis NRCS reviews at least 5% of all active projects. From these project reviews NRCS verifies that the new equipment is still operational. http://directives.sc.egov.usda.gov/RollupViewer.aspx?hid=25728.

Per Subpart C, 512.22, participants have control of the land for the length of the proposed contract through deed, lease, or other written authorization. If the applicant does not own the land, the landowner must give written consent to install, operate, and maintain the practice through the lifespan of the practice. This is conducted through a partnership with the USDA Farm Service Agency, who is responsible for program eligibility support.

Subpart F covers Contract Administration and provides for recovering liquidated damages for certain deviations to a contract. Handling contract violations is addressed in Subpart H where violations of contract terms must be corrected by the participant within a reasonable period of time to comply. If the violation continues, the contract may be terminated and future program participation deferred.

Permanent

NRCS eligibility is based on the county that the tractor resides in; in this case, the tractor has to reside within one of the eight counties of the San Joaquin Valley. Under the NAQI, the NRCS prioritizes applications based on a county's non-attainment designation within California. Applications received from attainment areas are not eligible. Currently, only the emission reductions originating from within the eight San Joaquin Valley counties are seeking SIP credit under this proposal. The destruction of the existing mobile off-road engines and equipment are verified per CPS 372 specifications, posted on-line at: https://efotg.sc.egov.usda.gov/references/public/CA/372-CA-PS-11-2018.docx Destruction certification worksheets are posted on-line at: https://efotg.sc.egov.usda.gov/references/public/CA/CA_Destruction_Certification_Worksheet.docx. The NRCS also has a stipulation that the tractor has to be tied to the land where it is in use. This requires that the tractor be used 100% of the time in the San Joaquin Valley. Under the NAQI, NRCS staff verifies by site visit the operational condition of the existing mobile off-road agricultural equipment. Destruction of the existing equipment and emissions certification verifications are performed to determine contract compliance.

The Combustion Systems Improvement of Mobile Engines incentive program is unique from other incentive programs in that NRCS is explicitly prohibited from identifying Grantees by name under the Food, Conservation, and Energy Act of 2008 (7 U.S.C. § 8791). NRCS must maintain the confidentiality of information provided by an agricultural producer participating in the NRCS Combustion Systems Improvement of Mobile Engines

incentive program. The information is exempt from mandatory disclosure and may not be used in judicial or administrative proceedings without the consent of the person involved. However, in March 2014, NRCS, EPA, the District and CARB signed the "Addendum to the December 2010 Statement of Principles Regarding the Approach to State Implementation Plan Creditability of Agricultural Equipment Replacement Incentive Programs Implemented by the USDA NRCS and the San Joaquin Valley Air Pollution Control District" (Addendum). The purpose of this Addendum is to identify information that NRCS will make available to EPA and the District, consistent with NRCS's statutory responsibilities under Section 1619 of the Farm Bill, to ensure that both EPA and the District can carry out their respective implementation responsibilities under the CAA and Rule 9610.

A summary of emission reductions achieved through the use of the NRCS Combustion System Improvement of Mobile Engines incentive program guidelines is included in Section VI of this report. The NRCS Combustion System Improvement of Mobile Engines incentive program can be found online at:

Practice Standard:

- CPS 372, Sept 2010: https://efotg.sc.egov.usda.gov/references/public/CA/Archived_372-std-09-2010.pdf
- Interim 723, May 2009: https://efotg.sc.egov.usda.gov/references/public/CA/723-std-5-09.pdf

CPS 372 Specifications:

- Nov 2014: https://efotg.sc.egov.usda.gov/references/public/CA/372-spec-11-14.doc
- Aug 2013: https://efotg.sc.egov.usda.gov/references/public/CA/372-spec-8-13.doc
- Sept 2010: https://efotg.sc.egov.usda.gov/references/public/CA/372-spec-09-10.doc

CPS 372 O&M:

- Sept 2010: https://efotg.sc.egov.usda.gov/references/public/CA/372-OM-09-10.doc

5. Guidelines Used Under Section 3.2 of Rule 9610

The Annual Demonstration Report employs Section 3.2 of the Rule 9610 by claiming SIP credit for incentive-based emission reductions from the FARMER Guidelines for Agricultural UTV Replacement, Agricultural On-Road Heavy-Duty Truck Replacement and Off-Road Cotton Picker replacement. The CARB Carl Moyer Program Guidelines (2005, 2008, 2011) for locomotive alternative technology switchers and new electric forklift purchases and the reductions from the Proposition 1B Guidelines for Locomotive Replacement. The summaries of these SIP-creditable incentive-based emission reductions claimed under Section 3.2 of Rule 9610 are included in Section VI of this annual demonstration report and the detailed information for each project is presented in the Annual Demonstration Report Data Sheet that accompanies this report.

The following discussion demonstrates that each such incentive program guideline provides for SIP-creditable emission reductions.

Agricultural UTV Replacement

Projects funded with the FARMER Guidelines followed all required steps to ensure SIP-creditability criteria were met as follows:

Surplus – There are currently no federal, state, or local rules or regulations pertaining to the emissions of agriculturally used off-road UTVs in the state of California. Therefore, all incentive-based emission reductions are surplus.

Quantifiable – The FARMER Guidelines provide calculation methodologies and emission factors for UTV projects. These methodologies have been reviewed and adopted through a public process. All UTV projects in this Annual Demonstration Report were quantified using these SIP-creditable calculation methodologies found in Appendix A.

Enforceable –These projects included legally binding contracts between the grantee and the District that identified the party or parties responsible for ensuring that the emission reductions were achieved. These contracts also obligated the grantee to provide all records needed to demonstrate the emissions reduced.

Permanent – Per contractual requirements, the electric UTV is required to be operated for the duration of the project life and the old UTV is required to be permanently disabled at a District contracted dismantling facility.

Agricultural Heavy-Duty On-Road Truck Replacement

Projects funded with the FARMER Guidelines followed all required steps to ensure SIP-creditability criteria were met as follows:

Surplus – The on-road trucks that were funded are used for agricultural purposes and were verified to be in compliance at the time of application, and therefore any emissions calculated are surplus to the final state regulation in 2024.

Quantifiable – The FARMER Guidelines refer to the current Carl Moyer guidelines that provide calculation methodologies and emission factors for on-road projects. These methodologies have been reviewed and adopted through a public process. All on-road projects in this Annual Demonstration Report were quantified using these SIP-creditable calculation methodologies.

Enforceable –These projects included legally binding contracts between the grantee and the District that identified the party or parties responsible for ensuring that the

emission reductions were achieved. These contracts also obligated the grantee to provide all records needed to demonstrate the emissions reduced.

Permanent – Per contractual requirements, the cleaner truck is required to be operated for the duration of the project life and the old truck is required to be permanently disabled at a District contracted dismantling facility.

Cotton Pickers

Projects funded with the FARMER Guidelines followed all required steps to ensure SIP-creditability criteria were met as follows:

Surplus – There are currently no federal, state, or local rules or regulations pertaining to the emissions of agriculturally used off-road cotton pickers in the state of California. Therefore, all incentive-based emission reductions are surplus.

Quantifiable – The FARMER Guidelines provide calculation methodologies and emission factors for cotton picker projects. These methodologies have been reviewed and adopted through a public process. All cotton picker projects in this Annual Demonstration Report were quantified using these SIP-creditable calculation methodologies found in Appendix A.

Enforceable –These projects included legally binding contracts between the grantee and the District that identified the party or parties responsible for ensuring that the emission reductions were achieved. These contracts also obligated the grantee to provide all records needed to demonstrate the emissions reduced.

Permanent – Per contractual requirements, the cotton picker is required to be operated for the duration of the project life and the old cotton picker(s) is/are required to be permanently disabled at a District contracted dismantling facility

Locomotive Repower

Projects funded with the 2008 and 2011 Carl Moyer Program Guidelines followed all required steps to ensure SIP-creditability criteria were met as follows:

Surplus – There are currently no federal, state, or local rules or regulations pertaining to the emissions of locomotives in the state of California. Therefore, all incentive-based emission reductions are surplus.

Quantifiable – The Carl Moyer Guidelines provide calculation methodologies and emission factors for locomotive projects. These methodologies have been reviewed and adopted through a public process. All locomotive projects in this Annual Demonstration Report were quantified using these SIP-creditable calculation methodologies, as referenced on the Manual of Procedures website.

Enforceable – The District performed inspections pursuant to Carl Moyer Guideline requirements and satisfied enforceability requirements under Section 4.0 of Rule 9610. These inspections verified contractual requirements were followed thus ensuring projected emission reductions were achieved. These projects included legally binding contracts between the grantee and the District that identified the party or parties responsible for ensuring that the emission reductions were achieved. These contracts also obligated the grantee to provide all records needed to demonstrate the emissions reduced.

Permanent – Per contractual requirements, the cleaner locomotive is required to be operated for the duration of the project life.

Purchase of New Electric Forklifts

Projects funded with the 2008 Carl Moyer Program Guidelines followed all required steps to ensure SIP-creditability criteria were met, as follows:

Surplus – The current regulation for off-road mobile equipment has an exemption for agricultural-use vehicles. The forklifts that were funded are used solely for agricultural purposes, and therefore are surplus to the state regulation.

Quantifiable – The Carl Moyer Guidelines provide calculation methodologies and emission factors for forklift projects. These methodologies have been reviewed and adopted through a public process. All forklift projects in this report were quantified using these SIP-creditable calculation methodologies. This methodology assumes the baseline equipment to be a new diesel forklift. Therefore, new purchases of electric forklifts are calculated based on the difference in emissions between a new diesel forklift and a new electric forklift.

Enforceable – The District performed inspections pursuant to Carl Moyer Guideline requirements and satisfied enforceability requirements under Section 4.0 of Rule 9610. These inspections verified contractual requirements were followed thus ensuring projected emission reductions were achieved. These projects included legally binding contracts between the grantee and the District that identified the party or parties responsible for ensuring that the emission reductions were achieved. These contracts also obligated the grantee to provide all records needed to demonstrate the emissions reduced.

Permanent – Per contractual requirements, the new electric forklift is required to be operated for the duration of the project life.

Proposition 1B Locomotive Replacement

Projects funded with the Proposition 1B Program Guidelines followed all required steps to ensure SIP-creditability criteria were met as follows:

Surplus – There are currently no federal, state, or local rules or regulations pertaining to the emissions of locomotives in the state of California. Therefore, all incentive-based emission reductions are surplus.

Quantifiable – The Proposition 1B Guidelines provide calculation methodologies and emission factors for locomotive projects. These methodologies have been reviewed and adopted through a public process. All locomotive projects in this Annual Demonstration Report were quantified using these SIP-creditable calculation methodologies, as referenced on the Manual of Procedures website.

Enforceable – The District performed inspections pursuant to Proposition 1B Guideline requirements and satisfied enforceability requirements under Section 4.0 of Rule 9610. These inspections verified contractual requirements were followed thus ensuring projected emission reductions were achieved. These projects included legally binding contracts between the grantee and the District that identified the party or parties responsible for ensuring that the emission reductions were achieved. These contracts also obligated the grantee to provide all records needed to demonstrate the emissions reduced.

Permanent – Per contractual requirements, the locomotive(s) is/are required to be operated for the duration of the project life and the old locomotive(s) is/are required to be permanently disabled.

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III. RELEVANT SIP COMMITMENTS

Through Rule 9610, the District may rely on SIP-creditable incentive-based emission reductions to satisfy federal CAA requirements, including the demonstration of attainment, Reasonable Further Progress, Rate of Progress, contingency measures, and/or black box reductions (Section 182(e)(5) of the CAA). For such SIP commitments, the District identifies specific amounts of SIP-creditable emission reductions by year in the relevant SIP. This annual demonstration report then identifies the SIP commitments included in District adopted SIPs (by year, pollutant, and magnitude) which the District has satisfied, in whole or in part, through SIP-creditable emission reductions. This annual demonstration report also identifies and quantifies any SIP commitment shortfalls and remedies for which incentives are used to address those shortfalls.

A. SIP Commitments Satisfied

***2008 PM2.5 Plan* (Contingency Quantification, 2015):** The District met its *2008 PM2.5 Plan* commitment to quantify an adequate amount of contingency emissions reductions, including SIP-creditable emissions reductions from incentive programs quantified in this report. On May 22, 2014, EPA approved a SIP revision to address CAA nonattainment area contingency measure requirements for the 1997 annual and 24-hour fine particulate matter (PM2.5) NAAQS in the San Joaquin Valley.[3] SIP-creditable incentive-based emission reductions accounted for by EPA in this proposed approval include on-road vehicle replacement projects that have been funded through the Prop 1B program and agricultural off-road vehicle replacement projects funded through the Carl Moyer Program. However, EPA then proposed to withdraw the approval of the *2008 PM2.5 Plan* contingencies finding that the requirement had become moot because the District had already met the RFP requirements relevant to the *2008 PM2.5 Plan* by the time of EPA's May 22, 2014 action.[4] Then, on May 12, 2016, EPA took final action to withdraw its approval of the 2008 PM2.5 contingencies and disapproved the SIP submission[5] in response to a court case.[6] EPA determined the identified deficiency in the *2008 PM2.5 Plan* has been addressed and permanently stopped associated sanctions clocks effective December 14, 2017.[7] However, it is important to note that this attainment plan is still not an approved plan in the California SIP.

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[3] EPA, Approval and Promulgation of Implementation Plans; California; San Joaquin Valley; Contingency Measures for the 1997 PM2.5 Standards, 79 Fed. Reg. 99, pp. 29327 - 29351. (2014, May 22). (to be codified at 40 CFR Part 52). Retrieved July 2014 at http://www.gpo.gov/fdsys/pkg/FR-2014-05-22/pdf/2014-11681.pdf

[4] EPA, Withdrawal of Approval and Disapproval of Air Quality Implementation Plans; California; San Joaquin Valley; Contingency Measures for the 1997 PM2.5 Standards. 80 Fed, Reg. 158, pp. 49190-49193. (2015, August 17). https://www.gpo.gov/fdsys/pkg/FR-2015-08-17/pdf/2015-20240.pdf

[5] EPA, Withdrawal of Approval and Disapproval of Air Quality Implementation Plans; California, San Joaquin Valley; Contingency Measures for the 1997 PM2.5 Standards; Final Rule. 81 Fed. Reg. 92. pp.29498-29501 (2016, May 12). (to be codified at 40 CFR Part52) https://www.gpo.gov/fdsys/pkg/FR-2016-05-12/pdf/2016-11125.pdf

[6] U.S. Court of Appeals for the Ninth Circuit (*Committee for a Better Arvin v. EPA,* 786 F.3d 1169 (9th Cir. 2015))

[7] Contingency Measures for the 1997 PM2.5 Standards; California; San Joaquin Valley; Correction of Deficiency; Final Rule. 82 Fed. Reg. 239, pp. 58747-58750. (2017, December 14). (to be codified at 40 CFR Part 52). https://www.gpo.gov/fdsys/pkg/FR-2017-12-14/pdf/2017-26899.pdf

***2007 Ozone Plan* (Agricultural Equipment, 2017):** The District met its 2007 Ozone Plan commitment to achieve SIP-creditable emissions reductions from incentive reductions, as demonstrated in the 2018 annual demonstration report.

The 2007 San Joaquin Valley 8-Hour Ozone SIP (*2007 Ozone Plan)*, approved by EPA, contained a commitment by CARB to achieve emissions reductions of 5 to10 tpd of NOx from mobile agricultural equipment in the Valley by 2017 to accelerate progress toward attainment of the 1997 8-hour ozone standard. The attainment deadline for this standard is 2024, using data from 2021-2023. In October 2013, CARB adopted the *State Implementation Plan Credit from Mobile Agricultural Equipment Regulation* which provides the administrative mechanism for emission reductions resulting from mobile agricultural equipment program projects funded by the Carl Moyer Program to be eligible for SIP credit. The CARB Office of Administrative Law (OAL) approved the rulemaking and filed it with the Secretary of State on October 8, 2014. The rulemaking became effective on January 1, 2015.[8]

Beginning in 2009, the District and NRCS, in partnership with agricultural stakeholders, launched incentive programs aimed at reducing emissions from agricultural equipment. These programs have been well-funded and have achieved significant emission reductions since 2009. As documented in the 2018 Annual Demonstration Report and by CARB at their May 2017 Public Hearing[9], agricultural equipment replacement projects implemented by the District and NRCS achieved SIP-creditable emissions reductions far in excess of the NOx commitment in the *2007 Ozone Plan* ahead of the 2017 target.

The District and NRCS are continuing to invest significant additional funding to replace agricultural equipment in support of continued reductions of criteria pollutants, and the total emissions reductions achieved will continue to grow substantially in the next several years. These emission reductions will support ongoing progress towards attainment of the federal ozone standards.

B. Pending SIP Commitments

State Implementation Plans to Address the 1997, 2006, and 2012 PM2.5 Standards[10]: On September 15, 2016, the District adopted the *2016 Moderate Area Plan for the 2012 PM2.5 Standard (2016 PM2.5 Plan*). On November 15, 2018, the District adopted the *2018 Plan for the 1997, 2006, and 2012 PM2.5 Standards (2018 PM2.5 Plan)* to address the EPA federal 1997 annual PM2.5 standard of 15 µg/m³ and 24-hour PM2.5 standard of 65 µg/m³; the 2006 24-hour PM2.5 standard of 35 µg/m³; and the 2012 annual PM2.5 standard of 12 µg/m³. On January 24, 2019, CARB approved these plans, and CARB submitted both plans to EPA for approval on May 9, 2019. On July 22, 2020, EPA took final action to approve the portions of the *2018 PM2.5* Plan that pertain to the

[8] CARB, *State Implementation Plan Credit from Mobile Agricultural Equipment*. Resolution 12-42, Agenda Item No.: 13-9-7 (2013, October 25). https://www.arb.ca.gov/regact/2013/sipmobileag2013/res13-42.pdf
[9] CARB May 25, 2017 Public Hearing, https://ww3.arb.ca.gov/board/books/2017/052517/17-5-3pres.pdf
[10] SJVAPCD. *2018 PM2.5 Plan for 1996, 2006, and 2012 PM2.5 Standards* (2018, November 15) retrieved on 7/30/19 from: http://valleyair.org/pmplans/documents/2018/pm-plan-adopted/2018-Plan-for-the-1997-2006-and-2012-PM2.5-Standards.pdf

2006 24-hour PM2.5 standard[11]. The *2018 PM2.5 Plan* includes a comprehensive suite of regulatory and incentive-based measures for both stationary and mobile sources, and also includes a targeted Hot-Spot Strategy that achieves additional reductions from residential wood burning and commercial charbroiling. The plan includes commitments from the District and CARB to attain an aggregate amount of emissions reductions from local measures for stationary sources and mobile sources. District measures are anticipated to achieve emissions reductions of 1.30 tons per day of PM2.5 and 1.88 tons per day of NOx by the applicable attainment deadlines of 2024 and 2025. Additionally, state measures implemented by CARB are anticipated to achieve 32.0 tons per day of NOx and 1.0 tons per day of PM2.5. To date, CARB's submittal of the San Joaquin Valley Agricultural Equipment Incentive Measure to EPA quantifies and ensures the emission reductions achieved from mobile agricultural equipment turnover to the cleanest engines are creditable towards the State's aggregate emissions reduction commitment in the California SIP for the San Joaquin Valley. CARB and the District are continuing to implement control measures, as outlined in the *2018 PM2.5 Plan,* to achieve emission reductions in support of this aggregate commitment. The total emissions reductions achieved towards aforementioned SIP commitments will be documented in future annual demonstration reports.

C. SIP Commitment Shortfalls

There are no shortfalls at this time; therefore, there are no remedy actions to be taken.

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[11] *Clean Air Plans; 2006 Fine Particulate Matter Nonattainment Area Requirements; San Joaquin Valley, California*; Final Rule. https://www.govinfo.gov/content/pkg/FR-2020-07-22/pdf/2020-14471.pdf

IV. MONITORING AND ENFORCEMENT ACTIVITIES

Pursuant to Section 4.6 of Rule 9610 this annual demonstration report includes a summary of monitoring and enforcement activities that were conducted during the reporting period from 05/14/2009 – 05/21/2022. Monitoring is performed on all projects in the form of pre-inspections prior to contract, post-inspections prior to payment and annual usage surveys filled out by the grantee for the life of the project.

Inspections are performed or reviewed by District staff and include visual verification and photographically document equipment information such as but not limited to:

- Make, model, and model year of the engine and/or vehicle or equipment,
- Vehicle, equipment, and/or engine identification and serial numbers,
- Operational condition of vehicle, equipment, and engine

The District reviews all inspection information to ensure that the submitted information is true and accurate prior to contracting a new project and prior to payment of reimbursement requests from grantees. The table below illustrates the number of pre-inspection and post-inspection that were conducted during the reporting period.

Table 7: Incentive Program Project Inspections

Year	Pre-Inspections	Post-Inspections
2009	924	147
2010	790	887
2011	1144	966
2012	2298	1372
2013	2184	1533
2014	2034	1240
2015	521	1329
2016	1028	1021
2017	2032	1091
2018	2172	1597
2019	2164	3467
2020	2225	3773
2021	1806	3135
2022	1307	1094

**As of May 22, 2022*

District incentive project contractual agreements specify that Grantees must provide data to the District on an annual basis for the duration of their contract period. The required data includes usage data (mileage, hours of operation, percent utilization within the District, etc). The usage data is analyzed by the District to ensure that the incentive projects are achieving the projected emission reductions. The table below illustrates the

quantity of usage report surveys distributed from the District to Grantees and the quantity of Grantee completed usage report surveys returned to the District.

Table 8: Incentive Program Annual Usage Reports

Year	Usage Report Surveys Distributed to Grantees	Completed Usage Report Surveys Returned to the District
2011	3245	2948
2012	3426	3668
2013	4591	4033
2014	5421	4931
2015	5553	4631
2016	5683	5782
2017	6095	5270
2018	7460	5237
2019	6762	5439
2020	8821	6430
2021	10398	7698
2022	3616	3900

**As of May 22, 2022*

The District maintains a robust process of collecting and analyzing annual usage data for incentive projects from grantees (e.g. – annual mileage, fuel usage, hours of operation, etc.) This information is collected for the duration of the project life of each individual project. Annual usage of individual projects can vary due to a variety of factors. For example, current drought conditions in the Valley significantly affect the use of agricultural irrigation pump engines causing usage to vary due to increased or decreased pumping needs, crop changes, surface water delivery, etc. Since annual variations can change over the course of the project life, any shortages/overages from the projected use on a yearly basis will likely be resolved when usage is quantified at the end of the project life. The District closely monitors and analyzes annual usage for each project over their respective project lives to ensure that the projects are achieving their expected overall usage and associated emission reductions. Annual usage reports are distributed to Grantees and received from Grantees on a monthly to daily basis throughout the year. Because of the variability in the number of annual reports distributed and received during the reporting period, the number of reports distributed and received will differ. For example, a number of annual reports distributed towards the end of the 2022 reporting period were not received back by the District by the cut-off date for this report. These annual reports are accounted for in the 2022 Annual Demonstration Report. To date, the overall annual usage associated with the project categories included in this report are performing as expected, meeting approximately 84% of their claimed annual usage. The District will continue to monitor annual usage and make any adjustments to claimed emission reductions in the future, as necessary.

A. Carl Moyer Program Specific Monitoring and Enforcement Activities

Project specific audits are conducted in addition to the monitoring and enforcement activities mentioned above. The project specific audits are conducted between November and December each calendar year and cover all Carl Moyer Program projects that have been implemented and are at least one year into their contracted project life but have not concluded their contracted project life. Projects selected for audit review consist of a 5% random sample of active projects or 20 projects (whichever is less) and all projects that are at least 6 months past due with their most recent annual usage survey. These audits follow procedures set forth in the Carl Moyer Program Guidelines. Projects selected for auditing are reviewed to ensure contract terms are fulfilled; emission reduction calculations are verified and project information is confirmed against the District database for accuracy. An inspection is conducted for each project to verify that the equipment, vehicle or practice is still owned (or in practice) by the Grantee and operational in the same piece of equipment and/or intended use as was contracted. Inspections also verify engine/equipment serial numbers, operational condition and verification of functioning odometer, hour meter/usage device, fuel receipts, or electronic monitoring unit.

If deficiencies are discovered as part of an incentive project audit, the District utilizes remedies identified in section IV (A) above.

2013 – 2021 Calendar Year Carl Moyer Project Specific Audit:

The following table shows audited projects that were determined to be in violation of their contractual terms and the enforcement actions that were taken by the District. For the current 2022 report, there are no new projects to report.

Table 9: Carl Moyer Program Projects with Contractual Violations

Project Number	Annual Demonstration Report Year	Contractual Violation	Action Taken
C-2326	2013	Did not meet minimum usage requirements	Extended contract term 1 additional year
N/A	2014	*No projects to report*	
N/A	2015	*No projects to report*	
N/A	2016	*No projects to report*	
N/A	2017	*No projects to report*	
N/A	2018	*No projects to report*	
N/A	2019	*No projects to report*	
N/A	2020	*No projects to report*	
N/A	2021	*No projects to report*	

B. Proposition 1B Program Monitoring and Enforcement Activities

In January 2007, Governor Schwarzenegger signed Executive Order S-02-07 which highlighted the importance of transparency and accountability in administering over $40 billion in bond funding approved by California voters in 2006. The Executive Order directs all State government entities responsible for expending bond proceeds to establish and document a three part accountability structure. In 2008 Department of Finance (DOF) approved the accountability plan that CARB developed for the Proposition 1B Program which includes:

- Front-end accountability, which defines the criteria for expending bond funds as well as the outcomes that the funds are intended to achieve.
- In-progress accountability, which documents actions to ensure projects are staying within scope and cost, and requires semi-annual reports to the Department of Finance.
- Follow up accountability, which requires Program review or fiscal audits to ensure expenditures achieved the intended outcomes and were consistent with legal requirements.

The District evaluates Proposition 1B equipment projects on an ongoing basis though desk reviews of reports and equipment project updates provided by equipment owners, review of electronic monitoring unit data (as applicable), site inspections, equipment inspections, review of equipment maintenance and activity logs, and other measures deemed appropriate. In addition, equipment project contracts require that equipment owners permit the District, CARB, DOF, the Bureau of State Audits, or any authorize designees, access during normal business hours, to conduct ongoing evaluations for the purpose of monitoring the program. The following table shows audited projects that were determined to be in violation of their contractual terms and the enforcement actions that were taken by the District. For the current 2022 report, there are no new projects to report.

Table 10: Proposition 1B Program Projects with Contractual Violations

Project Number	Annual Demonstration Report Year	Contractual Violation	Action Taken
P-0314-A	2013	*Unit 1 Annual Usage reports incomplete and/or missing. Unable to reach applicant, certified mail returned undeliverable.*	Sent to Legal for review and possible further action, associated reductions were removed from the cumulative totals in this report

Project Number	Annual Demonstration Report Year	Contractual Violation	Action Taken
P-0463-A	2013	*Units 11 & 13 Annual Usage reports incomplete and/or missing. Unable to reach applicant, certified mail returned undeliverable*	Sent to Legal for review and possible further action, associated reductions were removed from the cumulative totals in this report
C-14326-A	2013	*Units 1-2 Annual Usage reports incomplete and/or missing. Unable to reach applicant, certified mail returned undeliverable*	Sent to Legal for review and possible further action, associated reductions were removed from the cumulative totals in this report
P-0610-A	2013	*Units 11, 14, 31, 37, 40, 49, 53, & 67 Equipment was no longer owned by applicant due to re-possession*	Sent to Legal for review and possible further action, associated reductions were removed from the cumulative totals in this report
C-14254-A	2013	*Unit 1 Equipment was no longer owned by applicant due to re-possession*	Sent to Legal for review and possible further action, associated reductions were removed from the cumulative totals in this report
C-14348-A	2013	*Units 5 & 10, No annual usage reports received, Unable to locate applicant or associated business.*	Sent to Legal for review and possible further action, associated reductions were removed from the cumulative totals in this report
P-0346	2013	Did not purchase eligible equipment as stated in contract	District took legal action, received judgment by court for amount funded
N/A	2014	*No projects to report*	
N/A	2015	*No projects to report*	
P-0368-A	2016	*Units 18-20, 24. Equipment was no longer owned by applicant due to re-possession*	Projects were closed and associated reductions were removed from the cumulative totals in this report
N/A	2017	*No projects to report*	
N/A	2018	*No projects to report*	
N/A	2019	*No projects to report*	
N/A	2020	*No projects to report*	
N/A	2021	*No projects to report*	

C. Combustion Systems Improvement of Mobile Engines Program Monitoring and Enforcement Activities

The USDA NRCS webpage at https://www.nrcs.usda.gov/wps/portal/nrcs/detail/national/programs/financial/eqip/?cid=nrcseprd1342638 summarizes program eligibility. The guidelines state the following: The Grantee has control of the land for the length of the proposed contract through deed, lease, or other written authorization. If the Grantee does not own the land, the landowner must give written consent to install, operate, and maintain the practice through the lifespan of the practice. Engine improvements are covered under Conservation Practice Standard 372 – Combustion System Improvement, posted on-line in the NRCS Field Office Technical Guide (FOTG) at: https://efotg.sc.egov.usda.gov/references/public/CA/372-std-11-2019.pdf. The CPS 372 practice life is 10 years as described on the FOTG spreadsheet at: https://efotg.sc.egov.usda.gov/references/public/CA/Practices_Lifespans_2012-12_CA.xlsx . NRCS incentive program contracts state that if the tractor is not retained for 10-years then the Grantee will owe a pro-rated amount back to the NRCS.

With regards to the identification of project audits, usage reports, inspections, and other project monitoring activities including enforcement actions as required to Section 4.6 of Rule 9610, the Combustion Systems Improvement of Mobile Engines incentive program is unique from other incentive programs in that NRCS is explicitly prohibited from identifying grantees by name.

Under section 1619 of the Food Conservation, and Energy Act of 2008, Congress has prohibited the Secretary of the USDA and any officer or employee of the USDA from disclosing “information provided by an agricultural producer or owner of agricultural land concerning the agricultural operation, farming or conservation practices, or the land itself, in order to participate in” a USDA program. 7 U.S.C. 8791. Any contractor or cooperator of the USDA is similarly prohibited from disclosing such information. There are several exceptions to this prohibition, including that USDA may disclose information if it is transformed into a statistical or aggregate form without naming any individual owner, operator or producer or a specific data gathering site.

Taking these statutory prohibitions into account, in March 2014, NRCS, EPA, CARB, and the District signed the “Addendum to the December 2010 Statement of Principles Regarding the Approach to State Implementation Plan Creditability of Agricultural Equipment Replacement Incentive Programs Implemented by the USDA Natural Resources Conservation Service and the San Joaquin Valley Air Pollution Control District” (2014 Addendum). The purpose of the 2014 Addendum is to identify information and documentation that NRCS will, consistent with its statutory responsibilities under 7 U.S.C. 8791, make publicly available to ensure that EPA and the District can carry out respective implementation responsibilities under the CAA and Rule 9610. Among other things, the 2014 Addendum states that NRCS will provide EPA and the District with an annual report that includes information regarding emission reductions achieved by individual EQIP projects and that will be certified by the NRCS California State

Conservationist by March 31 of each year. Any information provided to the public specific to NRCS grant programs shall be in accordance with the 2014 Addendum.

Table 11: Canceled NRCS Projects Previously Reported

Project Number	Annual Demonstration Report Year	Status	Related Emissions Reductions (total tons/year)
2927	2019	Inoperable	0.96

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V. INCENTIVE PROGRAM EVALUATION

The District's incentive programs have been developed around several core principles, including cost-effectiveness, integrity, effective program administration, excellent customer service, the efficient use of District resources, fiscal transparency and public accountability. As a result of these focused efforts, the District has become a statewide leader in incentive programs with several elements of these programs being held as models for other air districts' incentive programs throughout California. In fact, the CARB routinely calls upon the District to administer statewide incentive programs on their behalf and on behalf of other local air districts. Recent examples include administering the Lower Emission School Bus Program on behalf of CARB and 18 other air districts, the statewide School Bus Retrofit Program and administering the Carl Moyer Program on behalf of two other air districts.

The District is regularly audited by independent outside agencies including professional accountancy corporations on behalf of the federal government, CARB, the California DOF and the California Bureau of State Audits.[12] These comprehensive and rigorous independent audits focus on every aspect of our incentive programs including District programmatic and fiscal controls. These audits are conducted to ensure that the public funds to which the District has been entrusted are spent appropriately and in the manner in which they were intended. The District welcomes these opportunities to gain valuable feedback regarding implementation of these critical programs. Periodic evaluations such as these are important tools that the District uses to ensure continuous improvement in operation of these core emission reduction strategies. Towards that end, the District's incentive programs were audited by CARB and DOF in 2011, including a thorough review of several of the District's largest and most complex incentive programs totaling more than $215 million over a four year period. The audits focused on the District's implementation of the following programs:

- Carl Moyer Memorial Air Quality Standards Attainment Program,
- Air Quality Improvement Program,
- Proposition 1B: Goods Movement Emission Reduction Program,
- Proposition 1B: Lower Emission School Bus Program, and
- Federal Diesel Emission Reductions Act School Bus Program

These audits included an extensive desk review of specific projects, a thorough review of District internal programmatic and fiscal policies and procedures, and field validation of projects to ensure that the expected emission reductions were being achieved in practice. Overall, the results of the audits confirmed that the District's incentive programs are fiscally sound and are "efficiently and effectively achieving their emission reduction objectives." CARB's audit report concluded that the District is meeting or exceeding all requirements for the expenditure of funds and commended the District for administering the Proposition 1B Lower Emission School Bus Program on behalf of 18 other local air districts. However, the District is continually identifying opportunities to refine its incentive programs and improve the operational efficiency and effectiveness.

[12] The most recent audits of District administered incentive programs can be found online at http://www.arb.ca.gov/msprog/moyer/audits/2011/san_joaquin_valley.htm

VI. SUMMARY OF EMISSION REDUCTIONS AND COST EFFECTIVENESS

The SIP-creditable incentive-based emission reductions represented in this Annual Demonstration Report are from incentive projects implemented 05/22/2021 through 5/21/2022. The data also includes 915 District projects and 102 NRCS projects that were implemented during the timeframes covered under previous reports but were not included in those data sets at the time. The data represented in these tables will continue to be updated through each annual demonstration report as more projects are implemented each year. Although the purpose of District Rule 9610 is to claim SIP credit for incentive-based emission reductions in the Valley through incentive programs administered by the District, NRCS, or CARB, this Annual Demonstration Report only claims SIP credit for those programs administered by the District and NRCS. Future annual demonstration reports may include programs administered by CARB. For the detailed data used to create the following summary tables, refer to the associated Annual Demonstration Report Data Sheet, available electronically with this annual demonstration report.

Program Summaries

The following table summarizes the total SIP-creditable incentive-based emission reductions generated through incentive programs, expressed in tons per year and tons per day, claimed in this Annual Demonstration Report. This summary includes SIP-creditable incentive-based emission reductions claimed through incentive program guidelines identified in Sections 3.1 and 3.2 of Rule 9610.

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Table 12: Total SIP-Creditable Incentive-Based Emission Reductions Generated Through Incentive Programs

Year	Current Reporting Period						Cumulative Reporting Period					
	Emissions Reduced (tons per year)			Emissions Reduced (tons per day)			Emissions Reduced (tons per year)			Emissions Reduced (tons per day)		
	NOx	PM	ROG	NOx	PM	ROG	NOx	PM	ROG	NOx	PM	ROG
2009	0.00	0.00	0.00	0.00	0.00	0.00	1098.99	35.78	116.17	3.01	0.10	0.32
2010	0.00	0.00	0.00	0.00	0.00	0.00	2655.71	82.02	237.29	7.28	0.22	0.65
2011	0.00	0.00	0.00	0.00	0.00	0.00	4112.25	141.11	364.96	11.27	0.39	1.00
2012	0.00	0.00	0.00	0.00	0.00	0.00	5804.68	210.38	477.51	15.90	0.58	1.31
2013	0.00	0.00	0.00	0.00	0.00	0.00	6699.86	248.37	572.27	18.36	0.68	1.57
2014	0.00	0.00	0.00	0.00	0.00	0.00	6494.06	243.85	564.13	17.79	0.67	1.55
2015	0.00	0.00	0.00	0.00	0.00	0.00	6528.68	252.86	620.84	17.89	0.69	1.70
2016	0.00	0.00	0.00	0.00	0.00	0.00	6491.76	256.09	673.48	17.79	0.70	1.85
2017	0.00	0.00	0.00	0.00	0.00	0.00	6142.10	250.86	719.09	16.83	0.69	1.97
2018	0.00	0.00	0.00	0.00	0.00	0.00	6689.96	288.29	784.01	18.33	0.79	2.15
2019	0.00	0.00	0.00	0.00	0.00	0.00	7038.71	339.65	850.61	19.28	0.93	2.33
2020	113.02	6.82	12.56	0.31	0.02	0.03	7236.01	384.26	871.66	19.82	1.05	2.39
2021	779.98	51.57	90.06	2.14	0.14	0.25	7132.36	399.63	845.09	19.54	1.09	2.32
2022	788.13	52.26	91.27	2.16	0.14	0.25	6411.12	366.95	745.00	17.56	1.01	2.04
2023	787.89	52.25	91.25	2.16	0.14	0.25	5763.99	339.09	662.52	15.79	0.93	1.82
2024	787.42	52.23	91.22	2.16	0.14	0.25	5147.73	312.07	560.49	14.10	0.85	1.54
2025	784.18	52.20	89.07	2.15	0.14	0.24	4520.89	284.61	481.48	12.39	0.78	1.32
2026	779.66	52.06	82.19	2.14	0.14	0.23	4087.14	260.68	424.71	11.20	0.71	1.16
2027	778.92	52.00	82.09	2.13	0.14	0.22	3476.41	228.72	359.35	9.52	0.63	0.98
2028	776.04	51.84	81.79	2.13	0.14	0.22	2788.47	184.55	288.14	7.64	0.51	0.79
2029	776.04	51.84	81.79	2.13	0.14	0.22	1859.46	122.30	190.49	5.09	0.34	0.52
2030	669.63	45.22	71.50	1.83	0.12	0.20	798.99	51.71	79.24	2.19	0.14	0.22
2031	10.54	0.78	1.22	0.03	0.00	0.00	98.83	4.40	4.25	0.27	0.01	0.01

Tables 13 and 14 below are the subsets of the summary provided in Table 12. Table 13 identifies emission reductions claimed through incentive program guidelines pursuant to Section 3.1 of Rule 9610. Table 14 identifies emission reductions claimed through incentive program guidelines pursuant to Section 3.2 of Rule 9610.

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Table 13: Emission Reductions Claimed through use of Incentive Program Guidelines Pursuant to Section 3.1

Year	Current Reporting Period						Cumulative Reporting Period					
	Emissions Reduced (tons per year)			Emissions Reduced (tons per day)			Emissions Reduced (tons per year)			Emissions Reduced (tons per day)		
	Nox	PM	ROG	Nox	PM	ROG	Nox	PM	ROG	Nox	PM	ROG
2009	0.00	0.00	0.00	0.00	0.00	0.00	1082.28	35.22	114.57	2.97	0.10	0.31
2010	0.00	0.00	0.00	0.00	0.00	0.00	2639.00	81.46	235.69	7.23	0.22	0.65
2011	0.00	0.00	0.00	0.00	0.00	0.00	4089.89	140.21	363.01	11.21	0.38	0.99
2012	0.00	0.00	0.00	0.00	0.00	0.00	5721.88	206.47	469.23	15.68	0.57	1.29
2013	0.00	0.00	0.00	0.00	0.00	0.00	6611.93	244.33	563.80	18.11	0.67	1.54
2014	0.00	0.00	0.00	0.00	0.00	0.00	6406.08	239.80	555.66	17.55	0.66	1.52
2015	0.00	0.00	0.00	0.00	0.00	0.00	6426.59	248.48	611.52	17.61	0.68	1.68
2016	0.00	0.00	0.00	0.00	0.00	0.00	6389.62	251.70	664.16	17.51	0.69	1.82
2017	0.00	0.00	0.00	0.00	0.00	0.00	5998.43	244.41	709.76	16.43	0.67	1.94
2018	0.00	0.00	0.00	0.00	0.00	0.00	6543.73	281.80	774.05	17.93	0.77	2.12
2019	0.00	0.00	0.00	0.00	0.00	0.00	6819.25	330.79	810.80	18.68	0.91	2.22
2020	109.18	6.69	10.44	0.30	0.02	0.03	6986.03	374.51	826.82	19.14	1.03	2.27
2021	771.17	51.29	81.03	2.11	0.14	0.22	6879.01	389.72	793.45	18.85	1.07	2.17
2022	779.31	51.98	82.24	2.14	0.14	0.23	6174.01	358.00	695.88	16.92	0.98	1.91
2023	779.31	51.98	82.24	2.14	0.14	0.23	5541.56	330.56	615.15	15.18	0.91	1.69
2024	779.30	51.98	82.24	2.14	0.14	0.23	4965.04	304.36	539.57	13.60	0.83	1.48
2025	777.27	51.97	82.19	2.13	0.14	0.23	4411.51	280.42	470.71	12.09	0.77	1.29
2026	777.27	51.97	82.19	2.13	0.14	0.23	3996.39	256.96	421.68	10.95	0.70	1.16
2027	776.53	51.91	82.09	2.13	0.14	0.22	3385.72	225.00	356.31	9.28	0.62	0.98
2028	773.64	51.75	81.79	2.12	0.14	0.22	2697.78	180.83	285.10	7.39	0.50	0.78
2029	773.64	51.75	81.79	2.12	0.14	0.22	1768.77	118.58	187.44	4.85	0.32	0.51
2030	667.23	45.13	71.50	1.83	0.12	0.20	708.30	47.99	76.20	1.94	0.13	0.21
2031	8.14	0.69	1.22	0.02	0.00	0.00	8.14	0.69	1.22	0.02	0.00	0.00

Table 14: Emission Reductions Claimed through use of Incentive Program Guidelines Pursuant to Section 3.2

Year	Current Reporting Period						Cumulative Reporting Period					
	Emissions Reduced (tons per year)			Emissions Reduced (tons per day)			Emissions Reduced (tons per year)			Emissions Reduced (tons per day)		
	Nox	PM	ROG	Nox	PM	ROG	Nox	PM	ROG	Nox	PM	ROG
2009	0.00	0.00	0.00	0.00	0.00	0.00	16.71	0.56	1.60	0.05	0.00	0.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	16.71	0.56	1.60	0.05	0.00	0.00
2011	0.00	0.00	0.00	0.00	0.00	0.00	22.36	0.90	1.95	0.06	0.00	0.01
2012	0.00	0.00	0.00	0.00	0.00	0.00	82.80	3.91	8.28	0.23	0.01	0.02
2013	0.00	0.00	0.00	0.00	0.00	0.00	87.93	4.04	8.47	0.24	0.01	0.02
2014	0.00	0.00	0.00	0.00	0.00	0.00	87.98	4.05	8.47	0.24	0.01	0.02
2015	0.00	0.00	0.00	0.00	0.00	0.00	102.09	4.38	9.32	0.28	0.01	0.03
2016	0.00	0.00	0.00	0.00	0.00	0.00	102.14	4.39	9.32	0.28	0.01	0.03
2017	0.00	0.00	0.00	0.00	0.00	0.00	143.67	6.45	9.33	0.39	0.02	0.03
2018	0.00	0.00	0.00	0.00	0.00	0.00	146.22	6.48	9.96	0.40	0.02	0.03
2019	0.00	0.00	0.00	0.00	0.00	0.00	219.46	8.85	39.82	0.60	0.02	0.11
2020	3.84	0.13	2.12	0.01	0.00	0.01	249.99	9.75	44.85	0.68	0.03	0.12
2021	8.82	0.28	9.03	0.02	0.00	0.02	253.35	9.91	51.65	0.69	0.03	0.14
2022	8.82	0.28	9.03	0.02	0.00	0.02	237.11	8.96	49.11	0.65	0.02	0.13
2023	8.58	0.27	9.01	0.02	0.00	0.02	222.43	8.53	47.36	0.61	0.02	0.13
2024	8.12	0.25	8.98	0.02	0.00	0.02	182.69	7.71	20.92	0.50	0.02	0.06
2025	6.91	0.22	6.88	0.02	0.00	0.02	109.38	4.19	10.77	0.30	0.01	0.03
2026	2.39	0.09	0.00	0.01	0.00	0.00	90.74	3.72	3.04	0.25	0.01	0.01
2027	2.39	0.09	0.00	0.01	0.00	0.00	90.69	3.71	3.04	0.25	0.01	0.01
2028	2.39	0.09	0.00	0.01	0.00	0.00	90.69	3.71	3.04	0.25	0.01	0.01
2029	2.39	0.09	0.00	0.01	0.00	0.00	90.69	3.71	3.04	0.25	0.01	0.01
2030	2.39	0.09	0.00	0.01	0.00	0.00	90.69	3.71	3.04	0.25	0.01	0.01
2031	2.39	0.09	0.00	0.01	0.00	0.00	90.69	3.71	3.04	0.25	0.01	0.01

1. Prop1B Locomotive projects are contracted with a 15 year project life, Ag Trucks have a 3 year project life, and Ag UTVs have a 5 year project life. Moyer locomotive projects were contracted with a 20-year project life.

Cost Effectiveness

The table below is a summary of the overall cost effectiveness (expressed as dollars per ton of emissions reduced), including incentive contributions, and total lifetime emission reductions, for District-administered incentive programs claimed in this annual demonstration report that utilized the Carl Moyer, Proposition 1B, and FARMER incentive program guidelines as identified in Sections 3.1 and 3.2 of Rule 9610. Because each incentive program guideline calculates cost effectiveness differently, the cost-effectiveness represented in Table 15 was calculated by dividing the Incentive Contribution by the total program reductions.

Table 15: Summary of District-Administered Incentive Programs

Project Type	Incentive Contribution Provided	Grantee Investment	Total Emissions Reductions (Lifetime tons)	Cost Effectiveness ($/tons)
Off-Road Mobile Equipment Replacement/Repower/Retrofit [1, 2]	$81,173,950.81	$96,530,814.14	8,040.78	$10,095.28
Agricultural Pump Repower[1]	$15,660.00	$18,347.67	6.25	$2,505.60
New Electric Agricultural Pump[1]	$0.00	$0.00	0.00	$0.00
Truck Replacement[1]	$32,076.47	$383,249.41	10.65	$3,011.03
Locomotive Repower[2]	$0.00	$0.00	0.00	$0.00
Locomotive Replacement[2]	$1,243,888.70	$829,259.14	186.32	$6,676.20
Off-Road Agricultural UTV Replacement[2]	$4,476,309.38	$1,675,394.66	74.33	$60,218.46
Truck Replacement- Agricultural[2]	$812,162.38	$475,317.54	2.34	$346,781.55
New Off-Road Mobile Equipment[2,3]	$0.00	$0.00	0.00	$0.00

1. SIP-creditable incentive-based emission reductions claimed through incentive program guidelines identified in Section 3.1 of Rule 9610.
2. SIP-creditable incentive-based emission reductions claimed through incentive program guidelines identified in Section 3.2 of Rule 9610.
3. New Off-Road Mobile Equipment is specific to the new purchase of electric large spark ignition (LSI) forklifts.

Carl Moyer Incentive Program Guidelines

The following set of tables summarizes the emission reductions claimed in the SIP under Rule 9610 for incentive programs administered by the District using the Carl Moyer Incentive Program Guidelines. Table 16 summarizes the total SIP-creditable incentive-based emission reductions claimed under Sections 3.1 and 3.2 of Rule 9610. Tables 17 through 20 summarize the emission reductions claimed in the SIP from incentive program guidelines identified in Section 3.1 of Rule 9610, while Table 21 summarizes emission reductions claimed in the SIP for locomotive alternative technology switcher projects and new electric forklift purchases, pursuant to Section 3.2 of the rule.

Table 16: Total Claimed SIP-Creditable Incentive-Based Emission Reductions Using the Carl Moyer Guidelines Pursuant to Section 3.1 and Section 3.2

Year	Current Reporting Period						Cumulative Reporting Period					
	Emissions Reduced (tons per year)			Emissions Reduced (tons per day)			Emissions Reduced (tons per year)			Emissions Reduced (tons per day)		
	Nox	PM	ROG	Nox	PM	ROG	Nox	PM	ROG	Nox	PM	ROG
2009	0.00	0.00	0.00	0.00	0.00	0.00	865.21	22.52	96.41	2.37	0.06	0.26
2010	0.00	0.00	0.00	0.00	0.00	0.00	1179.70	31.19	124.29	3.23	0.09	0.34
2011	0.00	0.00	0.00	0.00	0.00	0.00	1568.04	46.24	170.21	4.30	0.13	0.47
2012	0.00	0.00	0.00	0.00	0.00	0.00	2105.25	69.28	236.50	5.77	0.19	0.65
2013	0.00	0.00	0.00	0.00	0.00	0.00	2626.55	90.80	295.16	7.20	0.25	0.81
2014	0.00	0.00	0.00	0.00	0.00	0.00	1971.03	81.41	258.71	5.40	0.22	0.71
2015	0.00	0.00	0.00	0.00	0.00	0.00	2119.97	90.28	281.55	5.81	0.25	0.77
2016	0.00	0.00	0.00	0.00	0.00	0.00	2334.71	100.68	307.80	6.40	0.28	0.84
2017	0.00	0.00	0.00	0.00	0.00	0.00	2613.00	113.87	336.06	7.16	0.31	0.92
2018	0.00	0.00	0.00	0.00	0.00	0.00	3074.35	142.98	378.74	8.42	0.39	1.04
2019	0.00	0.00	0.00	0.00	0.00	0.00	3681.41	189.34	416.98	10.09	0.52	1.14
2020	101.96	6.28	9.76	0.28	0.02	0.03	4593.04	250.01	511.37	12.58	0.68	1.40
2021	681.95	44.90	70.51	1.87	0.12	0.19	5006.45	282.02	548.46	13.72	0.77	1.50
2022	685.92	45.28	71.17	1.88	0.12	0.19	4640.57	264.53	496.61	12.71	0.72	1.36

Year	Current Reporting Period						Cumulative Reporting Period					
	Emissions Reduced (tons per year)			Emissions Reduced (tons per day)			Emissions Reduced (tons per year)			Emissions Reduced (tons per day)		
	Nox	PM	ROG	Nox	PM	ROG	Nox	PM	ROG	Nox	PM	ROG
2023	685.92	45.28	71.17	1.88	0.12	0.19	4289.21	248.99	451.97	11.75	0.68	1.24
2024	685.91	45.28	71.17	1.88	0.12	0.19	3905.16	231.79	403.10	10.70	0.64	1.10
2025	683.87	45.27	71.12	1.87	0.12	0.19	3536.83	216.16	361.24	9.69	0.59	0.99
2026	683.87	45.27	71.12	1.87	0.12	0.19	3224.19	202.65	326.24	8.83	0.56	0.89
2027	683.14	45.21	71.02	1.87	0.12	0.19	2849.62	185.00	289.72	7.81	0.51	0.79
2028	680.25	45.06	70.72	1.86	0.12	0.19	2339.11	153.65	240.12	6.41	0.42	0.66

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Table 17: SIP-Creditable Incentive-Based Emission Reductions for Off-Road Compression-Ignition Equipment Replacement Claimed Pursuant to Section 3.1

Year	Current Reporting Period						Cumulative Reporting Period					
	Emissions Reduced (tons per year)			Emissions Reduced (tons per day)			Emissions Reduced (tons per year)			Emissions Reduced (tons per day)		
	Nox	PM	ROG	Nox	PM	ROG	Nox	PM	ROG	Nox	PM	ROG
2009	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2011	0.00	0.00	0.00	0.00	0.00	0.00	170.33	7.73	25.47	0.47	0.02	0.07
2012	0.00	0.00	0.00	0.00	0.00	0.00	469.96	22.81	72.08	1.29	0.06	0.20
2013	0.00	0.00	0.00	0.00	0.00	0.00	778.93	37.26	113.80	2.13	0.10	0.31
2014	0.00	0.00	0.00	0.00	0.00	0.00	1045.82	50.83	152.58	2.87	0.14	0.42
2015	0.00	0.00	0.00	0.00	0.00	0.00	1268.58	60.89	181.90	3.48	0.17	0.50
2016	0.00	0.00	0.00	0.00	0.00	0.00	1536.31	72.62	212.55	4.21	0.20	0.58
2017	0.00	0.00	0.00	0.00	0.00	0.00	1885.13	88.77	246.43	5.16	0.24	0.68
2018	0.00	0.00	0.00	0.00	0.00	0.00	2375.32	119.00	293.54	6.51	0.33	0.80
2019	0.00	0.00	0.00	0.00	0.00	0.00	3135.48	169.05	370.09	8.59	0.46	1.01
2020	99.19	6.21	9.61	0.27	0.02	0.03	4052.51	230.05	464.75	11.10	0.63	1.27
2021	676.28	44.68	70.06	1.85	0.12	0.19	4490.20	262.79	502.99	12.30	0.72	1.38
2022	680.25	45.06	70.72	1.86	0.12	0.19	4190.65	248.00	456.93	11.48	0.68	1.25
2023	680.25	45.06	70.72	1.86	0.12	0.19	3880.81	233.52	415.23	10.63	0.64	1.14
2024	680.25	45.06	70.72	1.86	0.12	0.19	3612.72	219.88	376.40	9.90	0.60	1.03
2025	680.25	45.06	70.72	1.86	0.12	0.19	3393.86	209.88	347.30	9.30	0.58	0.95
2026	680.25	45.06	70.72	1.86	0.12	0.19	3129.23	198.22	316.70	8.57	0.54	0.87
2027	680.25	45.06	70.72	1.86	0.12	0.19	2781.34	182.13	282.94	7.62	0.50	0.78
2028	680.25	45.06	70.72	1.86	0.12	0.19	2295.03	151.98	235.93	6.29	0.42	0.65

Table 18: SIP-Creditable Incentive-Based Emission Reductions for Off-Road Compression-Ignition Equipment Repower and Retrofit Claimed Pursuant to Section 3.1

Year	Current Reporting Period						Cumulative Reporting Period					
	Emissions Reduced (tons per year)			Emissions Reduced (tons per day)			Emissions Reduced (tons per year)			Emissions Reduced (tons per day)		
	Nox	PM	ROG	Nox	PM	ROG	Nox	PM	ROG	Nox	PM	ROG
2009	0.00	0.00	0.00	0.00	0.00	0.00	57.54	1.57	6.30	0.16	0.00	0.02
2010	0.00	0.00	0.00	0.00	0.00	0.00	108.86	4.12	12.41	0.30	0.01	0.03
2011	0.00	0.00	0.00	0.00	0.00	0.00	158.88	6.38	19.36	0.44	0.02	0.05
2012	0.00	0.00	0.00	0.00	0.00	0.00	209.04	8.05	25.51	0.57	0.02	0.07
2013	0.00	0.00	0.00	0.00	0.00	0.00	227.46	8.77	27.87	0.62	0.02	0.08
2014	0.00	0.00	0.00	0.00	0.00	0.00	252.91	9.69	31.24	0.69	0.03	0.09
2015	0.00	0.00	0.00	0.00	0.00	0.00	265.86	10.10	32.82	0.73	0.03	0.09
2016	0.00	0.00	0.00	0.00	0.00	0.00	223.23	9.13	28.24	0.61	0.03	0.08
2017	0.00	0.00	0.00	0.00	0.00	0.00	177.10	6.82	22.69	0.49	0.02	0.06
2018	0.00	0.00	0.00	0.00	0.00	0.00	130.15	4.62	16.07	0.36	0.01	0.04
2019	0.00	0.00	0.00	0.00	0.00	0.00	140.27	5.65	15.44	0.38	0.02	0.04
2020	0.00	0.00	0.00	0.00	0.00	0.00	147.38	6.38	15.75	0.40	0.02	0.04
2021	2.89	0.16	0.30	0.01	0.00	0.00	147.33	6.46	15.91	0.40	0.02	0.04
2022	2.89	0.16	0.30	0.01	0.00	0.00	96.71	4.05	10.97	0.26	0.01	0.03
2023	2.89	0.16	0.30	0.01	0.00	0.00	85.75	3.56	9.88	0.23	0.01	0.03
2024	2.89	0.16	0.30	0.01	0.00	0.00	52.84	2.35	5.69	0.14	0.01	0.02
2025	2.89	0.16	0.30	0.01	0.00	0.00	35.86	1.74	3.66	0.10	0.00	0.01
2026	2.89	0.16	0.30	0.01	0.00	0.00	23.56	1.27	2.45	0.06	0.00	0.01
2027	2.89	0.16	0.30	0.01	0.00	0.00	15.09	0.74	1.53	0.04	0.00	0.00
2028	0.00	0.00	0.00	0.00	0.00	0.00	10.47	0.57	0.99	0.03	0.00	0.00

Table 19: SIP-Creditable Incentive-Based Emission Reductions for Repower of Agricultural Pumps Engines Claimed Pursuant to Section 3.1

Year	Current Reporting Period						Cumulative Reporting Period					
	Emissions Reduced (tons per year)			Emissions Reduced (tons per day)			Emissions Reduced (tons per year)			Emissions Reduced (tons per day)		
	Nox	PM	ROG	Nox	PM	ROG	Nox	PM	ROG	Nox	PM	ROG
2009	0.00	0.00	0.00	0.00	0.00	0.00	790.60	20.38	88.49	2.17	0.06	0.24
2010	0.00	0.00	0.00	0.00	0.00	0.00	1036.20	25.64	109.36	2.84	0.07	0.30
2011	0.00	0.00	0.00	0.00	0.00	0.00	1190.57	30.22	122.05	3.26	0.08	0.33
2012	0.00	0.00	0.00	0.00	0.00	0.00	1307.24	33.46	128.73	3.58	0.09	0.35
2013	0.00	0.00	0.00	0.00	0.00	0.00	1489.44	39.63	142.78	4.08	0.11	0.39
2014	0.00	0.00	0.00	0.00	0.00	0.00	530.19	15.52	63.33	1.45	0.04	0.17
2015	0.00	0.00	0.00	0.00	0.00	0.00	413.29	13.41	53.43	1.13	0.04	0.15
2016	0.00	0.00	0.00	0.00	0.00	0.00	397.03	12.95	52.88	1.09	0.04	0.14
2017	0.00	0.00	0.00	0.00	0.00	0.00	369.62	12.15	52.10	1.01	0.03	0.14
2018	0.00	0.00	0.00	0.00	0.00	0.00	383.01	13.20	54.15	1.05	0.04	0.15
2019	0.00	0.00	0.00	0.00	0.00	0.00	195.80	7.68	13.96	0.54	0.02	0.04
2020	0.74	0.06	0.09	0.00	0.00	0.00	176.74	6.90	12.92	0.48	0.02	0.04
2021	0.74	0.06	0.09	0.00	0.00	0.00	160.47	6.24	12.08	0.44	0.02	0.03
2022	0.74	0.06	0.09	0.00	0.00	0.00	155.08	6.01	11.74	0.42	0.02	0.03
2023	0.74	0.06	0.09	0.00	0.00	0.00	131.17	5.47	10.23	0.36	0.01	0.03
2024	0.74	0.06	0.09	0.00	0.00	0.00	76.24	3.92	6.84	0.21	0.01	0.02
2025	0.74	0.06	0.09	0.00	0.00	0.00	48.41	2.96	4.87	0.13	0.01	0.01
2026	0.74	0.06	0.09	0.00	0.00	0.00	31.35	1.96	3.20	0.09	0.01	0.01
2027	0.00	0.00	0.00	0.00	0.00	0.00	16.15	1.09	2.09	0.04	0.00	0.01

Table 20: SIP-Creditable Incentive-Based Emission Reductions for Purchase of New Electric Agricultural Pump Motors Claimed Pursuant to Section 3.1

Year	Current Reporting Period						Cumulative Reporting Period					
	Emissions Reduced (tons per year)			Emissions Reduced (tons per day)			Emissions Reduced (tons per year)			Emissions Reduced (tons per day)		
	NOx	PM	ROG	NOx	PM	ROG	NOx	PM	ROG	NOx	PM	ROG
2009	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	17.57	0.85	0.91	0.05	0.00	0.00
2011	0.00	0.00	0.00	0.00	0.00	0.00	25.54	0.99	1.37	0.07	0.00	0.00
2012	0.00	0.00	0.00	0.00	0.00	0.00	35.86	1.04	1.88	0.10	0.00	0.01
2013	0.00	0.00	0.00	0.00	0.00	0.00	42.45	1.08	2.21	0.12	0.00	0.01
2014	0.00	0.00	0.00	0.00	0.00	0.00	53.78	1.30	3.06	0.15	0.00	0.01
2015	0.00	0.00	0.00	0.00	0.00	0.00	69.80	1.47	4.05	0.19	0.00	0.01
2016	0.00	0.00	0.00	0.00	0.00	0.00	75.65	1.57	4.77	0.21	0.00	0.01
2017	0.00	0.00	0.00	0.00	0.00	0.00	78.61	1.72	5.49	0.22	0.00	0.02
2018	0.00	0.00	0.00	0.00	0.00	0.00	83.86	1.76	5.67	0.23	0.00	0.02
2019	0.00	0.00	0.00	0.00	0.00	0.00	83.86	1.76	5.67	0.23	0.00	0.02
2020	0.00	0.00	0.00	0.00	0.00	0.00	66.29	0.91	4.76	0.18	0.00	0.01
2021	0.00	0.00	0.00	0.00	0.00	0.00	58.32	0.77	4.30	0.16	0.00	0.01
2022	0.00	0.00	0.00	0.00	0.00	0.00	48.00	0.72	3.79	0.13	0.00	0.01
2023	0.00	0.00	0.00	0.00	0.00	0.00	41.41	0.68	3.46	0.11	0.00	0.01
2024	0.00	0.00	0.00	0.00	0.00	0.00	30.08	0.46	2.61	0.08	0.00	0.01
2025	0.00	0.00	0.00	0.00	0.00	0.00	14.06	0.29	1.62	0.04	0.00	0.00
2026	0.00	0.00	0.00	0.00	0.00	0.00	8.21	0.18	0.90	0.02	0.00	0.00
2027	0.00	0.00	0.00	0.00	0.00	0.00	5.25	0.04	0.19	0.01	0.00	0.00

Table 21: SIP-Creditable Incentive-Based Emission Reductions for Locomotives, Yard Trucks, VIP Vehicle Replacement, New Electric Forklift Purchase Claimed Pursuant to Section 3.2

Year	Current Reporting Period						Cumulative Reporting Period					
	Emissions Reduced (tons per year)			Emissions Reduced (tons per day)			Emissions Reduced (tons per year)			Emissions Reduced (tons per day)		
	Nox	PM	ROG	Nox	PM	ROG	Nox	PM	ROG	Nox	PM	ROG
2009	0.00	0.00	0.00	0.00	0.00	0.00	16.71	0.56	1.60	0.05	0.00	0.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	16.71	0.56	1.60	0.05	0.00	0.00
2011	0.00	0.00	0.00	0.00	0.00	0.00	22.36	0.90	1.95	0.06	0.00	0.01
2012	0.00	0.00	0.00	0.00	0.00	0.00	82.80	3.91	8.28	0.23	0.01	0.02
2013	0.00	0.00	0.00	0.00	0.00	0.00	87.93	4.04	8.47	0.24	0.01	0.02
2014	0.00	0.00	0.00	0.00	0.00	0.00	87.98	4.05	8.47	0.24	0.01	0.02
2015	0.00	0.00	0.00	0.00	0.00	0.00	102.09	4.38	9.32	0.28	0.01	0.03
2016	0.00	0.00	0.00	0.00	0.00	0.00	102.14	5.18	9.32	0.28	0.01	0.03
2017	0.00	0.00	0.00	0.00	0.00	0.00	102.18	5.98	9.33	0.28	0.02	0.03
2018	0.00	0.00	0.00	0.00	0.00	0.00	102.18	5.98	9.33	0.28	0.02	0.03
2019	0.00	0.00	0.00	0.00	0.00	0.00	126.53	6.80	11.85	0.35	0.02	0.03
2020	2.03	0.01	0.06	0.01	0.00	0.00	150.64	7.36	13.22	0.41	0.02	0.04
2021	2.04	0.01	0.06	0.01	0.00	0.00	150.66	7.36	13.22	0.41	0.02	0.04
2022	2.04	0.01	0.06	0.01	0.00	0.00	150.66	7.36	13.22	0.41	0.02	0.04
2023	2.04	0.01	0.06	0.01	0.00	0.00	150.61	7.35	13.21	0.41	0.02	0.04
2024	2.03	0.01	0.06	0.01	0.00	0.00	133.83	6.79	11.61	0.37	0.02	0.03
2025	0.00	0.00	0.00	0.00	0.00	0.00	46.49	2.96	3.89	0.13	0.01	0.01
2026	0.00	0.00	0.00	0.00	0.00	0.00	32.37	1.83	3.04	0.09	0.01	0.01
2027	0.00	0.00	0.00	0.00	0.00	0.00	32.32	1.03	3.04	0.09	0.00	0.01

1. Locomotive projects are contracted with a 20 year project life and Forklifts are contracted with a 10 year project life

Proposition 1B Incentive Program Guidelines

The following table is a summary of incentive-based emission reductions claimed in the SIP from incentive programs administered by the District using the Proposition 1B incentive program guidelines, as identified in Section 3.1 and 3.2 of Rule 9610.

Table 22: SIP-Creditable Incentive-Based Emission Reductions for On-Road Trucks

Year	Current Reporting Period						Cumulative Reporting Period					
	Emissions Reduced (tons per year)			Emissions Reduced (tons per day)			Emissions Reduced (tons per year)			Emissions Reduced (tons per day)		
	Nox	PM	ROG	Nox	PM	ROG	Nox	PM	ROG	Nox	PM	ROG
2009	0.00	0.00	0.00	0.00	0.00	0.00	91.80	8.35	0.00	0.25	0.02	0.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	668.19	20.76	0.00	1.83	0.06	0.00
2011	0.00	0.00	0.00	0.00	0.00	0.00	1170.35	41.17	0.00	3.21	0.11	0.00
2012	0.00	0.00	0.00	0.00	0.00	0.00	1986.48	72.93	0.00	5.44	0.20	0.00
2013	0.00	0.00	0.00	0.00	0.00	0.00	2095.95	77.49	0.00	5.74	0.21	0.00
2014	0.00	0.00	0.00	0.00	0.00	0.00	2351.60	72.73	0.00	6.44	0.20	0.00
2015	0.00	0.00	0.00	0.00	0.00	0.00	1968.05	61.07	0.00	5.39	0.17	0.00
2016	0.00	0.00	0.00	0.00	0.00	0.00	1508.28	39.50	0.00	4.13	0.11	0.00
2017	0.00	0.00	0.00	0.00	0.00	0.00	694.20	8.83	0.00	1.90	0.02	0.00
2018	0.00	0.00	0.00	0.00	0.00	0.00	600.74	4.31	0.00	1.65	0.01	0.00
2019	0.00	0.00	0.00	0.00	0.00	0.00	270.36	0.55	0.00	0.74	0.00	0.00
2020	0.00	0.00	0.00	0.00	0.00	0.00	70.33	0.00	0.00	0.19	0.00	0.00
2021	0.00	0.00	0.00	0.00	0.00	0.00	23.82	0.00	0.00	0.07	0.00	0.00
2022	0.00	0.00	0.00	0.00	0.00	0.00	21.77	0.00	0.00	0.06	0.00	0.00
2023	0.00	0.00	0.00	0.00	0.00	0.00	4.16	0.00	0.00	0.01	0.00	0.00
2024	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2025	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2026	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Table 23: SIP-Creditable Incentive-Based Emission Reductions for Locomotive Replacement

Year	Current Reporting Period						Cumulative Reporting Period					
	Emissions Reduced (tons per year)			Emissions Reduced (tons per day)			Emissions Reduced (tons per year)			Emissions Reduced (tons per day)		
	Nox	PM	ROG	Nox	PM	ROG	Nox	PM	ROG	Nox	PM	ROG
2009	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2011	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2012	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2013	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2014	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2015	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2016	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2017	0.00	0.00	0.00	0.00	0.00	0.00	41.49	2.05	0.00	0.11	0.01	0.00
2018	0.00	0.00	0.00	0.00	0.00	0.00	41.49	2.05	0.00	0.11	0.01	0.00
2019	0.00	0.00	0.00	0.00	0.00	0.00	51.77	2.44	0.00	0.14	0.01	0.00
2020	2.39	0.09	0.00	0.01	0.00	0.00	58.37	2.69	0.00	0.16	0.01	0.00
2021	2.39	0.09	0.00	0.01	0.00	0.00	58.37	2.69	0.00	0.16	0.01	0.00
2022	2.39	0.09	0.00	0.01	0.00	0.00	58.37	2.69	0.00	0.16	0.01	0.00
2023	2.39	0.09	0.00	0.01	0.00	0.00	58.37	2.69	0.00	0.16	0.01	0.00
2024	2.39	0.09	0.00	0.01	0.00	0.00	58.37	2.69	0.00	0.16	0.01	0.00
2025	2.39	0.09	0.00	0.01	0.00	0.00	58.37	2.69	0.00	0.16	0.01	0.00
2026	2.39	0.09	0.00	0.01	0.00	0.00	58.37	2.69	0.00	0.16	0.01	0.00
2027	2.39	0.09	0.00	0.01	0.00	0.00	58.37	2.69	0.00	0.16	0.01	0.00
2028	2.39	0.09	0.00	0.01	0.00	0.00	58.37	2.69	0.00	0.16	0.01	0.00
2029	2.39	0.09	0.00	0.01	0.00	0.00	58.37	2.69	0.00	0.16	0.01	0.00
2030	2.39	0.09	0.00	0.01	0.00	0.00	58.37	2.69	0.00	0.16	0.01	0.00
2031	2.39	0.09	0.00	0.01	0.00	0.00	58.37	2.69	0.00	0.16	0.01	0.00

Funding Agricultural Replacement Measures for Emission Reductions (FARMER) Program Guidelines

The following table is a summary of incentive-based emission reductions claimed in the SIP from incentive programs administered by the District using the FARMER program guidelines, as identified in 3.2 of Rule 9610.

Table 24: SIP-Creditable Incentive-Based Emission Reductions for Agricultural UTV and Truck Replacement Claimed Pursuant to Section 3.2

Year	Current Reporting Period						Cumulative Reporting Period					
	Emissions Reduced (tons per year)			Emissions Reduced (tons per day)			Emissions Reduced (tons per year)			Emissions Reduced (tons per day)		
	Nox	PM	ROG	Nox	PM	ROG	Nox	PM	ROG	Nox	PM	ROG
2009	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2011	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2012	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2013	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2014	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2015	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2016	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2017	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2018	0.00	0.00	0.00	0.00	0.00	0.00	2.54	0.02	0.64	0.01	0.00	0.00
2019	0.00	0.00	0.00	0.00	0.00	0.00	41.16	1.20	27.97	0.11	0.00	0.08
2020	1.44	0.04	2.12	0.00	0.00	0.01	57.11	1.64	32.49	0.16	0.00	0.09
2021	6.42	0.19	9.03	0.02	0.00	0.02	60.47	1.80	39.29	0.17	0.00	0.11
2022	6.42	0.19	9.03	0.02	0.00	0.02	44.24	0.85	36.75	0.12	0.00	0.10
2023	6.18	0.18	9.01	0.02	0.00	0.02	29.62	0.43	35.00	0.08	0.00	0.10
2024	5.72	0.16	8.98	0.02	0.00	0.02	6.63	0.17	10.17	0.02	0.00	0.03
2025	4.52	0.13	6.88	0.01	0.00	0.02	4.52	0.13	6.88	0.01	0.00	0.02

Year	Current Reporting Period						Cumulative Reporting Period					
	Emissions Reduced (tons per year)			Emissions Reduced (tons per day)			Emissions Reduced (tons per year)			Emissions Reduced (tons per day)		
	Nox	PM	ROG	Nox	PM	ROG	Nox	PM	ROG	Nox	PM	ROG
2026	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2027	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2028	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

NRCS Combustion Systems Improvement of Mobile Equipment Incentive Program Guidelines

The following table provides a summary of the SIP-creditable incentive-based emission reductions claimed in the SIP for incentive projects administered by the NRCS, as identified in Section 3.1 of Rule 9610.

Table 25: SIP-Creditable Incentive-Based Emission Reductions for Agricultural Equipment

Year	Current Reporting Period						Cumulative Reporting Period					
	Emissions Reduced (tons per year)			Emissions Reduced (tons per day)			Emissions Reduced (tons per year)			Emissions Reduced (tons per day)		
	Nox	PM	ROG	Nox	PM	ROG	Nox	PM	ROG	Nox	PM	ROG
2009	0.00	0.00	0.00	0.00	0.00	0.00	141.98	4.91	19.76	0.39	0.01	0.05
2010	0.00	0.00	0.00	0.00	0.00	0.00	807.82	30.07	113.00	2.21	0.08	0.31
2011	0.00	0.00	0.00	0.00	0.00	0.00	1373.86	53.70	194.75	3.76	0.15	0.53
2012	0.00	0.00	0.00	0.00	0.00	0.00	1712.94	68.17	241.01	4.69	0.19	0.66
2013	0.00	0.00	0.00	0.00	0.00	0.00	1977.35	80.08	277.11	5.42	0.22	0.76
2014	0.00	0.00	0.00	0.00	0.00	0.00	2183.73	89.71	305.42	5.98	0.25	0.84
2015	0.00	0.00	0.00	0.00	0.00	0.00	2440.13	101.50	339.29	6.69	0.28	0.93
2016	0.00	0.00	0.00	0.00	0.00	0.00	2648.23	115.91	365.67	7.26	0.32	1.00
2017	0.00	0.00	0.00	0.00	0.00	0.00	2792.87	126.10	383.02	7.65	0.35	1.05
2018	0.00	0.00	0.00	0.00	0.00	0.00	2970.30	138.92	404.63	8.14	0.38	1.11
2019	0.00	0.00	0.00	0.00	0.00	0.00	2993.48	146.13	405.66	8.20	0.40	1.11

Year	Current Reporting Period						Cumulative Reporting Period					
	Emissions Reduced (tons per year)			Emissions Reduced (tons per day)			Emissions Reduced (tons per year)			Emissions Reduced (tons per day)		
	Nox	PM	ROG	Nox	PM	ROG	Nox	PM	ROG	Nox	PM	ROG
2020	7.22	0.41	0.68	0.02	0.00	0.00	2457.16	129.92	327.80	6.73	0.36	0.90
2021	89.21	6.39	10.51	0.24	0.02	0.03	1983.25	113.13	257.34	5.43	0.31	0.71
2022	93.39	6.70	11.07	0.26	0.02	0.03	1646.17	98.89	211.64	4.51	0.27	0.58
2023	93.39	6.70	11.07	0.26	0.02	0.03	1382.64	86.99	175.54	3.79	0.24	0.48
2024	93.39	6.70	11.07	0.26	0.02	0.03	1177.57	77.42	147.23	3.23	0.21	0.40
2025	93.39	6.70	11.07	0.26	0.02	0.03	921.17	65.63	113.36	2.52	0.18	0.31
2026	93.39	6.70	11.07	0.26	0.02	0.03	713.06	51.22	86.98	1.95	0.14	0.24
2027	93.39	6.70	11.07	0.26	0.02	0.03	568.42	41.03	69.63	1.56	0.11	0.19
2028	93.39	6.70	11.07	0.26	0.02	0.03	390.99	28.21	48.02	1.07	0.08	0.13

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Appendix A
District Incentive Program Project Information

Project Type Off-Road

Description Vehicle Replacement

SJVAPCD Project Data 2022

Project #	Primary Function	Fuel Type	Baseline Yr	Old HP	Old Tier	New Eng Yr	New HP	New Tier	Annual Usage (Hours)	Annual Usage (Miles)	Annual Usage (Fuel)	Project Life (Yrs)	Location (County)
C-63654-1-A1	Agricultural Tractor	Diesel	1988	69	Tier 0	2019	188	Tier 4 Final	500	0	0	10	Merced
G-82724-A1	Agricultural Tractor	Diesel	1996	75	Tier 0	2018	90	Tier 4 Final	1000	0	0	10	Tulare
C-63041-1-A1	Agricultural Tractor	Diesel	2004	92	Tier 2	2019	114	Tier 4 Final	350	0	0	10	Fresno
C-58383-1-A1	Agricultural Tractor	Diesel	1986	102	Tier 0	2019	114	Tier 4 Final	500	0	0	10	Madera
C-63039-1-A1	Agricultural Tractor	Diesel	2004	92	Tier 2	2019	114	Tier 4 Final	350	0	0	10	Fresno
G-95219-A1	Forklift	Diesel	1980	42	Tier 0	2019	74	Tier 4 Final	500	0	0	10	Kern
C-58185-1-A1	Agricultural Tractor	Diesel	2001	102	Tier 1	2019	123	Tier 4 Final	200	0	0	10	Kern
G-70380-A1	Shaker	Diesel	2001	125	Tier 1	2019	174	Tier 4 Final	400	0	0	10	Stanislaus
G-88265-A1	Agricultural Tractor	Diesel	2005	105	Tier 2	2019	106	Tier 4 Phase In/Alt NOx	600	0	0	10	Kern
G-92280-A1	Bulk Carrier	Diesel	1997	125	Tier 1	2011	130	Tier 3	500	0	0	10	Fresno
C-56139-1-A1	Agricultural Tractor	Diesel	1998	114	Tier 1	2017	98	Tier 4 Phase In/Alt NOx	1500	0	0	10	Tulare
G-72443-A1	Agricultural Tractor	Diesel	1985	168	Tier 0	2018	168	Tier 4 Final	1200	0	0	10	San Joaquin
G-90566-A1	Shaker	Diesel	1990	97	Tier 0	2020	174	Tier 4 Final	900	0	0	10	Tulare
G-90580-A1	Shaker	Diesel	2005	130	Tier 2	2020	174	Tier 4 Final	900	0	0	**10**	Tulare
C-63332-1-A1	Swathers	Diesel	1999	152	Tier 1	2018	266	Tier 4 Final	300	0	0	10	Merced
G-87281-A1	Agricultural Tractor	Diesel	1997	114	Tier 0	2020	123	Tier 4 Final	300	0	0	10	Tulare
C-64364-1-A1	Agricultural Tractor	Diesel	1997	260	Tier 1	2019	351	Tier 4 Final	300	0	0	10	Stanislaus
G-95882-A1	Agricultural Tractor	Diesel	2008	50	Tier 2	2019	56	Tier 4 Final	600	0	0	10	Kern
G-83280-A1	Agricultural Tractor	Diesel	1986	46	Tier 0	2018	57	Tier 4 Final	2000	0	0	10	Tulare
G-83282-A1	Agricultural Tractor	Diesel	1979	52	Tier 0	2019	57	Tier 4 Final	2000	0	0	10	Tulare
C-62522-1-A1	Wheel Loader	Diesel	2004	160	Tier 2	2019	182	Tier 4 Final	1600	0	0	10	Madera
G-71656-A1	Agricultural Tractor	Diesel	1986	72	Tier 0	2020	108	Tier 4 Final	350	0	0	10	Fresno
G-71657-A1	Agricultural Tractor	Diesel	1962	44	Tier 0	2020	36	Tier 4 Final	350	0	0	10	Fresno
G-72585-A1	Agricultural Tractor	Diesel	2002	89	Tier 1	2019	123	Tier 4 Final	700	0	0	10	Fresno
G-90253-A1	Shaker	Diesel	2004	130	Tier 2	2019	148	Tier 4 Final	800	0	0	10	Kings
G-90257-A1	Shaker	Diesel	2007	147	Tier 2	2019	148	Tier 4 Final	800	0	0	10	Kings
G-76630-A1	Agricultural Tractor	Diesel	2008	115	Tier 1	2019	125	Tier 4 Final	500	0	0	10	Madera
G-67547-A1	Skid Loader	Diesel	2005	75	Tier 2	2019	73	Tier 4 Final	500	0	0	10	Stanislaus
G-76591-A1	Wheel Loader	Diesel	1986	123	Tier 0	2020	166	Tier 4 Final	1000	0	0	10	Tulare
G-76154-A1	Wheel Loader	Diesel	1999	83	Tier 1	2018	158	Tier 4 Final	950	0	0	10	Merced
C-51849-1-A1	Agricultural Tractor	Diesel	1976	72	Tier 0	2019	108	Tier 4 Final	300	0	0	10	Fresno

Project Type Off-Road

Description Vehicle Replacement

SJVAPCD Project Data 2022

Project #	Primary Function	Fuel Type	Baseline Yr	Old HP	Old Tier	New Eng Yr	New HP	New Tier	Annual Usage (Hours)	Annual Usage (Miles)	Annual Usage (Fuel)	Project Life (Yrs)	Location (County)
G-67781-A1	Agricultural Tractor	Diesel	2006	91	Tier 2	2019	106	Tier 4 Phase In/Alt NOx	500	0	0	10	Kern
G-76311-A1	Wheel Loader	Diesel	2002	170	Tier 1	2020	164	Tier 4 Final	1500	0	0	10	San Joaquin
G-81815-A1	Agricultural Tractor	Diesel	1983	88	Tier 0	2019	101	Tier 4 Final	300	0	0	10	Tulare
G-81832-A1	Agricultural Tractor	Diesel	1986	97	Tier 0	2019	125	Tier 4 Final	300	0	0	10	Tulare
G-95133-A1	Shaker	Diesel	2006	130	Tier 2	2019	174	Tier 4 Final	436	0	0	10	Kern
G-95156-A1	Shaker	Diesel	2006	165	Tier 2	2019	174	Tier 4 Final	510	0	0	10	Kern
G-95159-A1	Shaker	Diesel	2006	165	Tier 2	2020	174	Tier 4 Final	510	0	0	10	Kern
G-94384-A1	Agricultural Tractor	Diesel	1994	60	Tier 0	2020	125	Tier 4 Final	384	0	0	10	Kern
C-46615-1-A1	Agricultural Tractor	Diesel	2005	115	Tier 2	2020	123	Tier 4 Final	1000	0	0	10	Fresno
C-46630-1-A1	Agricultural Tractor	Diesel	1984	168	Tier 0	2020	123	Tier 4 Final	1000	0	0	10	Fresno
G-96611-A1	Agricultural Tractor	Diesel	2001	115	Tier 1	2019	115	Tier 4 Final	600	0	0	10	Tulare
G-76878-A1	Agricultural Tractor	Diesel	2006	115	Tier 1	2020	135	Tier 4 Final	1500	0	0	10	Kings
G-81773-A1	Agricultural Tractor	Diesel	2005	120	Tier 2	2019	74	Tier 4 Final	800	0	0	10	Madera
G-90249-A1	Shaker	Diesel	1980	125	Tier 0	2019	148	Tier 4 Final	1000	0	0	10	Fresno
G-76784-A1	Agricultural Tractor	Diesel	1980	72	Tier 0	2020	123	Tier 4 Final	250	0	0	10	Kings
G-82023-A1	Agricultural Tractor	Diesel	1981	110	Tier 0	2020	123	Tier 4 Final	250	0	0	10	Kings
G-94791-A1	Wheel Loader	Diesel	2007	149	Tier 2	2018	166	Tier 4 Final	1500	0	0	10	Kings
C-63036-1-A1	Shaker	Diesel	1998	125	Tier 1	2020	139	Tier 4 Final	800	0	0	10	Madera
G-80962-A1	Back Hoe	Diesel	2001	78	Tier 1	2020	110	Tier 4 Final	400	0	0	10	San Joaquin
G-99400-A1	Agricultural Tractor	Diesel	2002	48	Tier 1	2019	55	Tier 4 Final	350	0	0	10	San Joaquin
G-67085-A1	Agricultural Tractor	Diesel	1976	84	Tier 0	2020	114	Tier 4 Final	300	0	0	10	Fresno
G-65998-A1	Excavator	Diesel	1989	250	Tier 0	2020	314	Tier 4 Final	2000	0	0	10	Fresno
G-69892-A1	Wheel Loader	Diesel	2005	149	Tier 2	2020	192	Tier 4 Final	1200	0	0	10	Kings
G-77940-A1	Agricultural Tractor	Diesel	1979	48	Tier 0	2020	93	Tier 4 Final	500	0	0	10	San Joaquin
G-81816-A1	Wheel Loader	Diesel	1997	172	Tier 1	2019	192	Tier 4 Final	1500	0	0	10	Merced
G-91898-A1	Nut Sweeper	Diesel	1991	42	Tier 0	2019	74	Tier 4 Final	400	0	0	10	Fresno
G-74875-A1	Wheel Loader	Diesel	1975	116	Tier 0	2020	163	Tier 4 Final	300	0	0	10	Merced
G-72705-A1	Agricultural Tractor	Diesel	1994	110	Tier 0	2019	115	Tier 4 Final	1500	0	0	10	Fresno
G-83281-A1	Shaker	Diesel	2003	130	Tier 2	2020	174	Tier 4 Final	1500	0	0	10	Stanislaus
G-75678-A1	Back Hoe	Diesel	2002	91	Tier 1	2019	90	Tier 4 Final	1150	0	0	10	Fresno
G-90252-A1	Agricultural Tractor	Diesel	1998	26	Tier 0	2019	37	Tier 4 Final	1095	0	0	10	San Joaquin

Project Type Off-Road

Description Vehicle Replacement

SJVAPCD Project Data 2022

Project #	Primary Function	Fuel Type	Baseline Yr	Old HP	Old Tier	New Eng Yr	New HP	New Tier	Annual Usage (Hours)	Annual Usage (Miles)	Annual Usage (Fuel)	Project Life (Yrs)	Location (County)
G-75374-A1	Skid Loader	Diesel	2004	66	Tier 2	2020	74	Tier 4 Final	1150	0	0	10	Fresno
G-81767-A1	Wheel Loader	Diesel	1993	156	Tier 0	2020	166	Tier 4 Final	600	0	0	10	Fresno
G-78797-A1	Skid Loader	Diesel	2003	75	Tier 1	2019	70	Tier 4 Final	300	0	0	10	Merced
G-78799-A1	Skid Loader	Diesel	2008	75	Tier 2	2019	70	Tier 4 Final	300	0	0	10	Merced
G-82150-A1	Forklift	Diesel	1999	78	Tier 1	2020	74	Tier 4 Final	500	0	0	10	Merced
G-87612-A1	Shaker	Diesel	1998	125	Tier 1	2020	174	Tier 4 Final	400	0	0	10	Stanislaus
C-51846-1-A1	Agricultural Tractor	Diesel	1977	97	Tier 0	2019	108	Tier 4 Final	300	0	0	10	Fresno
C-51847-1-A1	Agricultural Tractor	Diesel	1990	97	Tier 0	2019	108	Tier 4 Final	300	0	0	10	Fresno
G-91560-A1	Bulk Carrier	Diesel	2008	110	Tier 2	2020	130	Tier 4 Final	1000	0	0	10	Kern
G-66103-A1	Wheel Loader	Diesel	1971	104	Tier 0	2018	145	Tier 4 Final	1150	0	0	10	Stanislaus
G-79704-A1	Wheel Loader	Diesel	2006	160	Tier 2	2019	182	Tier 4 Final	2900	0	0	10	Kings
G-78983-A1	Agricultural Tractor	Diesel	1994	90	Tier 0	2016	114	Tier 4 Final	800	0	0	10	Fresno
G-91280-A1	Shaker	Diesel	2001	125	Tier 1	2020	174	Tier 4 Final	450	0	0	10	Kern
G-98906-A1	Shaker	Diesel	2005	130	Tier 2	2020	174	Tier 4 Final	470	0	0	10	San Joaquin
G-78986-A1	Wheel Loader	Diesel	1994	103	Tier 0	2020	152	Tier 4 Final	1400	0	0	10	Stanislaus
C-62695-1-A1	Agricultural Tractor	Diesel	1966	84	Tier 0	2020	123	Tier 4 Final	500	0	0	10	Stanislaus
C-62808-1-A1	Agricultural Tractor	Diesel	1990	77	Tier 0	2020	123	Tier 4 Final	500	0	0	10	Stanislaus
G-71338-A1	Agricultural Tractor	Diesel	2003	283	Tier 2	2020	310	Tier 4 Final	500	0	0	10	Fresno
G-72719-A1	Almond Shaker	Diesel	1984	104	Tier 0	2020	174	Tier 4 Final	400	0	0	10	Stanislaus
G-80858-A1	Agricultural Tractor	Diesel	1986	45	Tier 0	2020	58	Tier 4 Final	250	0	0	10	Stanislaus
G-98972-A1	Shaker	Diesel	1979	115	Tier 0	2020	174	Tier 4 Final	200	0	0	10	San Joaquin
G-76226-A1	Agricultural Tractor	Diesel	2003	110	Tier 2	2020	123	Tier 4 Final	500	0	0	10	Stanislaus
G-98703-A1	Agricultural Tractor	Diesel	1983	130	Tier 0	2020	123	Tier 4 Final	200	0	0	10	Stanislaus
G-73008-A1	Back Hoe	Diesel	1966	80	Tier 0	2020	103	Tier 4 Final	400	0	0	10	Stanislaus
G-75538-A1	Wheel Loader	Diesel	2005	290	Tier 2	2018	227	Tier 4 Final	2200	0	0	10	Fresno
G-75549-A1	Wheel Loader	Diesel	2005	309	Tier 2	2019	227	Tier 4 Final	2200	0	0	10	Fresno
G-81853-A1	Agricultural Tractor	Diesel	2005	91	Tier 2	2019	93	Tier 4 Final	350	0	0	10	Stanislaus
G-83624-A1	Wheel Loader	Diesel	2006	165	Tier 2	2020	170	Tier 4 Final	3000	0	0	10	Stanislaus
G-69879-A1	Wheel Loader	Diesel	2004	153	Tier 2	2020	166	Tier 4 Final	2920	0	0	10	Stanislaus
G-72469-A1	Agricultural Tractor	Diesel	1981	72	Tier 0	2019	114	Tier 4 Final	300	0	0	10	Fresno
G-72473-A1	Agricultural Tractor	Diesel	1980	80	Tier 0	2020	114	Tier 4 Final	300	0	0	10	Fresno

Project Type Off-Road

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Project #	Primary Function	Fuel Type	Baseline Yr	Old HP	Old Tier	New Eng Yr	New HP	New Tier	Annual Usage (Hours)	Annual Usage (Miles)	Annual Usage (Fuel)	Project Life (Yrs)	Location (County)
G-76516-A1	Agricultural Tractor	Diesel	1983	60	Tier 0	2019	114	Tier 4 Final	400	0	0	10	Stanislaus
G-78574-A1	Agricultural Tractor	Diesel	1967	89	Tier 0	2019	72	Tier 4 Final	200	0	0	10	Madera
G-81803-A1	Nut Sweeper	Diesel	2006	80	Tier 2	2020	74	Tier 4 Final	531	0	0	10	Merced
G-82928-A1	Shaker	Diesel	1999	125	Tier 1	2020	174	Tier 4 Final	700	0	0	10	Madera
G-88263-A1	Forklift	Diesel	1980	52	Tier 0	2019	74	Tier 4 Final	600	0	0	10	Kern
G-90590-A1	Agricultural Tractor	Diesel	2006	86	Tier 2	2019	106	Tier 4 Phase In/Alt NOx	800	0	0	10	Tulare
G-90591-A1	Agricultural Tractor	Diesel	2003	59	Tier 1	2019	70	Tier 4 Final	200	0	0	10	Tulare
G-90593-A1	Agricultural Tractor	Diesel	2005	86	Tier 2	2019	106	Tier 4 Phase In/Alt NOx	800	0	0	10	Tulare
G-69728-A1	Agricultural Tractor	Diesel	2004	287	Tier 2	2020	370	Tier 4 Final	3650	0	0	10	Merced
C-47355-1-A1	Agricultural Tractor	Diesel	2004	122	Tier 2	2019	202	Tier 4 Final	1000	0	0	10	Stanislaus
G-92718-A1	Shaker	Diesel	2005	130	Tier 2	2020	174	Tier 4 Final	600	0	0	10	Stanislaus
G-71354-A1	Agricultural Tractor	Diesel	1984	102	Tier 0	2020	114	Tier 4 Final	500	0	0	10	Fresno
G-71363-A1	Agricultural Tractor	Diesel	1984	102	Tier 0	2020	114	Tier 4 Final	500	0	0	10	Fresno
G-79792-A1	Agricultural Tractor	Diesel	1990	204	Tier 0	2019	335	Tier 4 Final	800	0	0	10	Stanislaus
G-80855-A1	Shaker	Diesel	2005	130	Tier 2	2020	174	Tier 4 Final	460	0	0	10	Fresno
G-82850-A1	Agricultural Tractor	Diesel	2000	200	Tier 1	2020	310	Tier 4 Final	1000	0	0	10	Merced
G-101544-A1	Agricultural Tractor	Diesel	2005	115	Tier 2	2020	114	Tier 4 Final	1000	0	0	10	Kern
G-79927-A2	Agricultural Tractor	Diesel	1973	76	Tier 0	2020	114	Tier 4 Final	200	0	0	10	Tulare
G-80910-A1	Crawler Dozer	Diesel	1987	75	Tier 0	2020	92	Tier 4 Final	500	0	0	10	Madera
G-87947-A1	Agricultural Tractor	Diesel	1970	115	Tier 0	2020	116	Tier 4 Final	1000	0	0	10	Kings
G-88212-A1	Nut Sweeper	Diesel	2002	46	Tier 1	2019	74	Tier 4 Final	250	0	0	10	Stanislaus
G-88221-A1	Nut Sweeper	Diesel	2002	46	Tier 1	2019	74	Tier 4 Final	250	0	0	10	Stanislaus
G-89301-A1	Agricultural Tractor	Diesel	2005	300	Tier 2	2020	340	Tier 4 Final	1000	0	0	10	Kings
G-89958-A1	Agricultural Tractor	Diesel	2007	93	Tier 2	2019	114	Tier 4 Final	300	0	0	10	Stanislaus
G-75972-A1	Agricultural Tractor	Diesel	1977	97	Tier 0	2020	114	Tier 4 Final	460	0	0	10	Stanislaus
G-82697-A1	Forklift	Diesel	1997	69	Tier 0	2021	74	Tier 4 Final	155	0	0	10	San Joaquin
C-58299-1-A1	Agricultural Tractor	Diesel	2004	51	Tier 2	2020	45	Tier 4 Final	720	0	0	10	Kern
G-101500-A1	Nut Sweeper	Diesel	2003	80	Tier 1	2020	74	Tier 4 Final	800	0	0	10	Kern
G-68900-A1	Agricultural Tractor	Diesel	1989	240	Tier 0	2020	123	Tier 4 Final	250	0	0	10	Fresno
G-69606-A1	Agricultural Tractor	Diesel	2003	134	Tier 2	2020	139	Tier 4 Final	1200	0	0	10	Kings
G-67623-A1	Agricultural Tractor	Diesel	1977	158	Tier 0	2020	123	Tier 4 Final	500	0	0	10	Merced

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Project #	Primary Function	Fuel Type	Baseline Yr	Old HP	Old Tier	New Eng Yr	New HP	New Tier	Annual Usage (Hours)	Annual Usage (Miles)	Annual Usage (Fuel)	Project Life (Yrs)	Location (County)
G-74402-A1	Agricultural Tractor	Diesel	2004	98	Tier 2	2019	114	Tier 4 Final	800	0	0	10	Stanislaus
G-83267-A1	Agricultural Tractor	Diesel	1995	81	Tier 0	2019	106	Tier 4 Phase In/Alt NOx	300	0	0	10	Fresno
G-93942-A1	Nut Sweeper	Diesel	2007	80	Tier 2	2020	74	Tier 4 Final	1200	0	0	10	Kern
G-93944-A1	Nut Sweeper	Diesel	2008	80	Tier 2	2020	74	Tier 4 Final	1200	0	0	10	Kern
G-93945-A1	Nut Sweeper	Diesel	2008	80	Tier 2	2020	74	Tier 4 Final	1200	0	0	10	Kern
G-94314-A1	Nut Sweeper	Diesel	2006	80	Tier 2	2020	74	Tier 4 Final	1200	0	0	10	Kern
G-94315-A1	Nut Sweeper	Diesel	2002	80	Tier 1	2020	74	Tier 4 Final	1200	0	0	10	Kern
G-94316-A1	Nut Sweeper	Diesel	2006	80	Tier 2	2020	74	Tier 4 Final	1200	0	0	10	Kern
G-94317-A1	Nut Sweeper	Diesel	2006	80	Tier 2	2020	74	Tier 4 Final	1200	0	0	10	Kern
G-71160-A1	Agricultural Tractor	Diesel	2000	223	Tier 1	2020	256	Tier 4 Final	300	0	0	10	Stanislaus
G-83268-A1	Agricultural Tractor	Diesel	1988	81	Tier 0	2020	33	Tier 4 Final	300	0	0	10	Fresno
G-83274-A1	Agricultural Tractor	Diesel	1983	56	Tier 0	2020	33	Tier 4 Final	300	0	0	10	Fresno
G-83275-A1	Agricultural Tractor	Diesel	1995	81	Tier 0	2019	106	Tier 4 Phase In/Alt NOx	300	0	0	10	Fresno
G-83276-A1	Agricultural Tractor	Diesel	1977	97	Tier 0	2019	106	Tier 4 Phase In/Alt NOx	300	0	0	10	Fresno
G-83277-A1	Agricultural Tractor	Diesel	1979	30	Tier 0	2020	33	Tier 4 Final	300	0	0	10	Fresno
G-88419-A1	Agricultural Tractor	Diesel	2000	85	Tier 0	2016	119	Tier 4 Final	800	0	0	10	Kern
C-60899-1-A1	Agricultural Tractor	Diesel	1979	80	Tier 0	2020	73	Tier 4 Final	250	0	0	10	Stanislaus
G-81801-A1	Agricultural Tractor	Diesel	2005	113	Tier 2	2020	123	Tier 4 Final	350	0	0	10	Fresno
G-81912-A1	Agricultural Tractor	Diesel	1999	225	Tier 1	2020	310	Tier 4 Final	1000	0	0	10	Kings
G-81914-A1	Agricultural Tractor	Diesel	2000	425	Tier 1	2020	470	Tier 4 Final	1000	0	0	10	Kings
G-82751-A1	Shaker	Diesel	1997	125	Tier 1	2020	148	Tier 4 Final	500	0	0	10	San Joaquin
G-102208-A1	Agricultural Tractor	Diesel	2001	110	Tier 1	2019	125	Tier 4 Final	1200	0	0	10	Kern
G-81760-A1	Almond Shaker	Diesel	1996	115	Tier 0	2020	148	Tier 4 Final	175	0	0	10	Madera
G-81836-A1	Agricultural Tractor	Diesel	1978	97	Tier 0	2020	114	Tier 4 Final	200	0	0	10	Stanislaus
G-96541-A1	Wheel Loader	Diesel	1999	145	Tier 1	2020	164	Tier 4 Final	1500	0	0	10	Kings
C-63802-1-A1	Agricultural Tractor	Diesel	2006	207	Tier 2	2019	400	Tier 4 Final	1800	0	0	10	Kings
C-63805-1-A1	Agricultural Tractor	Diesel	2004	209	Tier 2	2019	400	Tier 4 Final	1800	0	0	10	Kings
G-65940-A1	Agricultural Tractor	Diesel	2005	115	Tier 2	2020	114	Tier 4 Final	500	0	0	10	Madera
G-69536-A1	Back Hoe	Diesel	1998	78	Tier 1	2020	100	Tier 4 Final	300	0	0	10	Kern
G-70192-A1	Agricultural Tractor	Diesel	2006	210	Tier 2	2020	248	Tier 4 Final	750	0	0	10	Merced
G-89129-A1	Wheel Loader	Diesel	2006	121	Tier 2	2020	163	Tier 4 Final	1500	0	0	10	Kings

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Project #	Primary Function	Fuel Type	Baseline Yr	Old HP	Old Tier	New Eng Yr	New HP	New Tier	Annual Usage (Hours)	Annual Usage (Miles)	Annual Usage (Fuel)	Project Life (Yrs)	Location (County)
G-98115-A1	Agricultural Tractor	Diesel	1992	77	Tier 0	2019	98	Tier 4 Final	600	0	0	10	Kern
G-81727-A1	Agricultural Tractor	Diesel	1999	32	Tier 1	2019	42	Tier 4 Final	1000	0	0	10	Madera
G-72616-A1	Agricultural Tractor	Diesel	1977	58	Tier 0	2020	73	Tier 4 Final	500	0	0	10	Tulare
G-78798-A1	Agricultural Tractor	Diesel	1969	116	Tier 0	2020	120	Tier 4 Final	300	0	0	10	Fresno
G-78800-A1	Agricultural Tractor	Diesel	1978	84	Tier 0	2020	100	Tier 4 Final	300	0	0	10	Fresno
G-78801-A1	Agricultural Tractor	Diesel	1976	84	Tier 0	2020	100	Tier 4 Final	300	0	0	10	Fresno
G-78808-A1	Agricultural Tractor	Diesel	1980	60	Tier 0	2020	100	Tier 4 Final	300	0	0	10	Fresno
G-78810-A1	Agricultural Tractor	Diesel	1981	38	Tier 0	2020	59	Tier 4 Final	300	0	0	10	Fresno
G-78821-A1	Agricultural Tractor	Diesel	1992	97	Tier 0	2020	120	Tier 4 Final	300	0	0	10	Fresno
G-78823-A1	Agricultural Tractor	Diesel	1992	97	Tier 0	2020	120	Tier 4 Final	300	0	0	10	Fresno
G-78833-A1	Agricultural Tractor	Diesel	1987	88	Tier 0	2020	100	Tier 4 Final	300	0	0	10	Fresno
G-81813-A1	Agricultural Tractor	Diesel	1973	67	Tier 0	2021	80	Tier 4 Final	300	0	0	10	Tulare
G-81817-A1	Agricultural Tractor	Diesel	1979	72	Tier 0	2020	74	Tier 4 Final	300	0	0	10	Tulare
G-81819-A1	Agricultural Tractor	Diesel	1975	46	Tier 0	2020	55	Tier 4 Final	300	0	0	10	Tulare
G-81830-A1	Agricultural Tractor	Diesel	2006	99	Tier 2	2020	115	Tier 4 Final	300	0	0	10	Tulare
G-85293-A1	Shaker	Diesel	2002	125	Tier 1	2020	148	Tier 4 Final	350	0	0	10	Stanislaus
G-88415-A1	Agricultural Tractor	Diesel	1981	325	Tier 0	2020	666	Tier 4 Final	1040	0	0	10	Merced
G-91568-A1	Bulk Carrier	Diesel	2008	110	Tier 2	2020	130	Tier 4 Final	1000	0	0	10	Kern
G-91571-A1	Bulk Carrier	Diesel	2006	110	Tier 2	2020	130	Tier 4 Final	1000	0	0	10	Kern
G-91575-A1	Bulk Carrier	Diesel	2004	110	Tier 2	2020	130	Tier 4 Final	1000	0	0	10	Kern
G-91577-A1	Bulk Carrier	Diesel	2003	110	Tier 2	2020	130	Tier 4 Final	1000	0	0	10	Kern
G-97605-A1	Bulk Carrier	Diesel	1949	115	Tier 0	2019	74	Tier 4 Final	400	0	0	10	Kern
C-55961-1-A1	Wheel Loader	Diesel	1977	170	Tier 0	2019	173	Tier 4 Final	1000	0	0	10	Stanislaus
G-76379-A1	Agricultural Tractor	Diesel	1988	80	Tier 0	2020	106	Tier 4 Final	500	0	0	10	Stanislaus
G-80502-A1	Agricultural Tractor	Diesel	2004	299	Tier 2	2018	375	Tier 4 Final	750	0	0	10	San Joaquin
G-95797-A1	Wheel Loader	Diesel	2005	177	Tier 2	2020	192	Tier 4 Final	2500	0	0	10	Fresno
C-62290-1-A1	Agricultural Tractor	Diesel	1982	186	Tier 0	2020	71	Tier 4 Final	500	0	0	10	Kern
C-64225-1-A1	**Agricultural Tractor**	Diesel	2006	89	Tier 2	2019	114	Tier 4 Final	300	0	0	10	Stanislaus
C-64226-1-A1	**Agricultural Tractor**	Diesel	2004	86	Tier 2	2019	114	Tier 4 Final	300	0	0	10	Stanislaus
C-64228-1-A1	Back Hoe	Diesel	1998	85	Tier 1	2020	96	Tier 4 Final	250	0	0	10	Stanislaus
C-64385-1-A1	Agricultural Tractor	Diesel	1996	355	Tier 1	2020	409	Tier 4 Final	900	0	0	10	Merced

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Project #	Primary Function	Fuel Type	Baseline Yr	Old HP	Old Tier	New Eng Yr	New HP	New Tier	Annual Usage (Hours)	Annual Usage (Miles)	Annual Usage (Fuel)	Project Life (Yrs)	Location (County)
C-64502-1-A1	Agricultural Tractor	Diesel	1993	325	Tier 0	2020	409	Tier 4 Final	900	0	0	10	Merced
G-67545-A1	Agricultural Tractor	Diesel	2005	98	Tier 2	2020	202	Tier 4 Final	500	0	0	10	Stanislaus
G-74193-A1	Wheel Loader	Diesel	1970	115	Tier 0	2020	164	Tier 4 Final	1150	0	0	10	Stanislaus
G-74360-A1	Back Hoe	Diesel	1978	62	Tier 0	2019	62	Tier 4 Final	150	0	0	10	Stanislaus
G-76511-A1	Agricultural Tractor	Diesel	2006	160	Tier 2	2020	151	Tier 4 Final	700	0	0	10	Merced
G-80912-A1	Agricultural Tractor	Diesel	1975	76	Tier 0	2019	73	Tier 4 Final	300	0	0	10	Stanislaus
G-81834-A1	Agricultural Tractor	Diesel	2004	92	Tier 2	2020	114	Tier 4 Final	205	0	0	10	Merced
G-81835-A1	Agricultural Tractor	Diesel	2005	98	Tier 2	2020	114	Tier 4 Final	200	0	0	10	Stanislaus
G-82247-A1	Back Hoe	Diesel	1977	62	Tier 0	2020	62	Tier 4 Final	300	0	0	10	Stanislaus
G-82743-A1	Wheel Loader	Diesel	1987	105	Tier 0	2020	192	Tier 4 Final	2000	0	0	10	San Joaquin
G-89235-A1	Back Hoe	Diesel	2007	95	Tier 2	2019	96	Tier 4 Final	400	0	0	10	Merced
G-89880-A1	Wheel Loader	Diesel	1980	170	Tier 0	2020	272	Tier 4 Final	1100	0	0	10	Kern
G-91578-A1	Bulk Carrier	Diesel	2002	110	Tier 1	2020	130	Tier 4 Final	1000	0	0	10	Kern
G-91580-A1	Bulk Carrier	Diesel	2002	110	Tier 1	2020	130	Tier 4 Final	1000	0	0	10	Kern
G-91581-A1	Bulk Carrier	Diesel	2002	110	Tier 1	2020	130	Tier 4 Final	1000	0	0	10	Kern
G-92415-A1	Wheel Loader	Diesel	1995	150	Tier 0	2020	184	Tier 4 Final	1000	0	0	10	Kern
G-78579-A1	**Back Hoe**	Diesel	2000	95	Tier 1	2020	96	Tier 4 Final	250	0	0	10	Stanislaus
G-79697-A1	Agricultural Tractor	Diesel	1996	81	Tier 0	2019	106	Tier 4 Final	350	0	0	10	Stanislaus
G-80866-A1	Agricultural Tractor	Diesel	2005	89	Tier 2	2020	99	Tier 4 Final	700	0	0	10	Fresno
G-83567-A1	Agricultural Tractor	Diesel	2004	99	Tier 2	2019	114	Tier 4 Final	300	0	0	10	Stanislaus
G-84389-A1	Agricultural Tractor	Diesel	1996	108	Tier 0	2019	106	Tier 4 Phase In/Alt NOx	400	0	0	10	Fresno
G-92222-A1	Almond Shaker	Diesel	2007	130	Tier 2	2020	174	Tier 4 Final	500	0	0	10	Stanislaus
C-55845-1-A1	Agricultural Tractor	Diesel	2006	91	Tier 2	2020	114	Tier 4 Final	1000	0	0	10	Fresno
G-86733-A1	Agricultural Tractor	Diesel	1980	97	Tier 0	2020	100	Tier 4 Final	250	0	0	10	Fresno
G-83232-A1	Agricultural Tractor	Diesel	2005	131	Tier 2	2019	114	Tier 4 Final	503	0	0	10	Fresno
G-74079-A1	Forklift	Diesel	1974	56	Tier 0	2020	74	Tier 4 Final	1800	0	0	10	Kern
G-74080-A1	Forklift	Diesel	1998	67	Tier 1	2020	74	Tier 4 Final	1800	0	0	10	Kern
G-74081-A1	Forklift	Diesel	1998	67	Tier 1	2020	74	Tier 4 Final	1800	0	0	10	Kern
G-74084-A1	Forklift	Diesel	1986	57	Tier 0	2020	74	Tier 4 Final	1800	0	0	10	Kern
G-79834-A1	Agricultural Tractor	Diesel	2004	155	Tier 1	2019	155	Tier 4 Final	550	0	0	10	Merced
G-83679-A1	Agricultural Tractor	Diesel	1996	102	Tier 0	2020	120	Tier 4 Final	650	0	0	10	Merced

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Project #	Primary Function	Fuel Type	Baseline Yr	Old HP	Old Tier	New Eng Yr	New HP	New Tier	Annual Usage (Hours)	Annual Usage (Miles)	Annual Usage (Fuel)	Project Life (Yrs)	Location (County)
G-95274-A1	Agricultural Tractor	Diesel	2003	89	Tier 1	2020	114	Tier 4 Final	750	0	0	10	Madera
G-78809-A1	Agricultural Tractor	Diesel	2002	235	Tier 1	2020	280	Tier 4 Final	2000	0	0	10	Tulare
G-78817-A1	Agricultural Tractor	Diesel	2005	231	Tier 2	2020	280	Tier 4 Final	1600	0	0	10	Tulare
G-82021-A1	Agricultural Tractor	Diesel	2007	86	Tier 2	2019	114	Tier 4 Final	500	0	0	10	Stanislaus
G-95268-A1	Agricultural Tractor	Diesel	2003	98	Tier 1	2019	108	Tier 4 Final	200	0	0	10	Stanislaus
G-82843-A1	Almond Harvester	Diesel	2007	125	Tier 1	2020	173	Tier 4 Final	400	0	0	10	San Joaquin
G-83209-A1	Almond Harvester	Diesel	2008	125	Tier 1	2020	173	Tier 4 Final	400	0	0	10	San Joaquin
G-83210-A1	Almond Harvester	Diesel	2007	125	Tier 1	2020	173	Tier 4 Final	400	0	0	10	San Joaquin
G-101542-A1	Agricultural Tractor	Diesel	1998	114	Tier 1	2020	114	Tier 4 Final	1000	0	0	10	Kern
G-101545-A1	Agricultural Tractor	Diesel	2006	115	Tier 2	2020	114	Tier 4 Final	1000	0	0	10	Kern
G-87252-A1	Agricultural Tractor	Diesel	2004	92	Tier 2	2019	106	Tier 4 Phase In/Alt NOx	1000	0	0	10	Tulare
G-87556-A1	Agricultural Tractor	Diesel	2005	86	Tier 2	2019	106	Tier 4 Phase In/Alt NOx	1000	0	0	10	Tulare
G-87558-A1	Agricultural Tractor	Diesel	2004	92	Tier 2	2020	106	Tier 4 Phase In/Alt NOx	1000	0	0	10	Tulare
G-78708-A1	Agricultural Tractor	Diesel	1974	180	Tier 0	2020	123	Tier 4 Final	500	0	0	10	Fresno
G-80529-A1	Agricultural Tractor	Diesel	1979	76	Tier 0	2020	106	Tier 4 Phase In/Alt NOx	900	0	0	10	Tulare
C-60944-1-A1	Wheel Loader	Diesel	1983	167	Tier 0	2018	166	Tier 4 Final	320	0	0	10	Tulare
C-64368-1-A1	Agricultural Tractor	Diesel	1999	226	Tier 1	2021	230	Tier 4 Final	1500	0	0	10	Kings
G-83922-A1	Agricultural Tractor	Diesel	2000	93	Tier 1	2020	114	Tier 4 Final	100	0	0	10	San Joaquin
G-86613-A1	Agricultural Tractor	Diesel	1971	65	Tier 0	2019	106	Tier 4 Final	300	0	0	10	San Joaquin
G-87238-A1	Skid Loader	Diesel	2005	57	Tier 2	2020	73	Tier 4 Final	1100	0	0	10	Stanislaus
G-88502-A1	Agricultural Tractor	Diesel	2006	99	Tier 2	2020	114	Tier 4 Final	280	0	0	10	Fresno
G-66874-A1	Agricultural Tractor	Diesel	1997	81	Tier 0	2019	121	Tier 4 Final	700	0	0	10	Fresno
G-66880-A1	Agricultural Tractor	Diesel	1997	81	Tier 0	2020	106	Tier 4 Phase In/Alt NOx	700	0	0	10	Fresno
G-66883-A1	Agricultural Tractor	Diesel	1997	81	Tier 0	2019	106	Tier 4 Final	700	0	0	10	Fresno
C-62753-1-A1	Agricultural Tractor	Diesel	1999	88	Tier 1	2020	155	Tier 4 Final	500	0	0	10	Stanislaus
C-64715-1-A1	Agricultural Tractor	Diesel	1999	88	Tier 0	2020	155	Tier 4 Final	500	0	0	10	Stanislaus
G-87142-A1	Back Hoe	Diesel	1989	80	Tier 0	2020	113	Tier 4 Final	800	0	0	10	Fresno
G-88609-A1	Agricultural Tractor	Diesel	2004	92	Tier 2	2019	106	Tier 4 Phase In/Alt NOx	800	0	0	10	Kern
G-88610-A1	Agricultural Tractor	Diesel	2006	92	Tier 2	2019	106	Tier 4 Phase In/Alt NOx	800	0	0	10	Kern
G-95710-A1	Agricultural Tractor	Diesel	2003	174	Tier 2	2020	230	Tier 4 Final	1500	0	0	10	Tulare
G-96161-A1	Agricultural Tractor	Diesel	2001	110	Tier 1	2020	125	Tier 4 Final	1200	0	0	10	Kern

Project Type Off-Road

Description Vehicle Replacement

SJVAPCD Project Data 2022

Project #	Primary Function	Fuel Type	Baseline Yr	Old HP	Old Tier	New Eng Yr	New HP	New Tier	Annual Usage (Hours)	Annual Usage (Miles)	Annual Usage (Fuel)	Project Life (Yrs)	Location (County)
G-96507-A1	Wheel Loader	Diesel	1993	170	Tier 0	2020	188	Tier 4 Final	1800	0	0	10	Tulare
G-70188-A1	Agricultural Tractor	Diesel	1995	120	Tier 0	2019	172	Tier 4 Final	750	0	0	10	Merced
G-75689-A1	Agricultural Tractor	Diesel	1973	67	Tier 0	2019	73	Tier 4 Final	350	0	0	10	Merced
G-83263-A1	Agricultural Tractor	Diesel	1998	360	Tier 1	2020	626	Tier 4 Final	500	0	0	10	Stanislaus
G-83315-A1	Wheel Loader	Diesel	2004	129	Tier 2	2020	152	Tier 4 Final	2184	0	0	10	Stanislaus
G-94985-A1	Agricultural Tractor	Diesel	2000	147	Tier 1	2020	175	Tier 4 Final	400	0	0	10	Tulare
G-66151-A1	Agricultural Tractor	Diesel	1981	127	Tier 0	2018	123	Tier 4 Final	700	0	0	10	Merced
G-77942-A1	Agricultural Tractor	Diesel	1999	92	Tier 1	2020	120	Tier 4 Final	800	0	0	10	Kings
G-94424-A1	Forklift	Diesel	1988	52	Tier 0	2020	74	Tier 4 Final	500	0	0	10	Kern
G-94427-A1	Agricultural Tractor	Diesel	1998	30	Tier 0	2019	35	Tier 4 Final	300	0	0	10	Kern
G-95136-A1	Agricultural Tractor	Diesel	2004	27	Tier 2	2019	35	Tier 4 Final	300	0	0	10	Kern
G-95138-A1	Agricultural Tractor	Diesel	1996	33	Tier 0	2019	35	Tier 4 Final	300	0	0	10	Kern
G-95143-A1	Agricultural Tractor	Diesel	1984	25	Tier 0	2018	35	Tier 4 Final	500	0	0	10	Kern
G-82133-A1	Skid Loader	Diesel	2003	73	Tier 1	2020	97	Tier 4 Final	400	0	0	10	Stanislaus
G-84258-A1	Agricultural Tractor	Diesel	2006	91	Tier 2	2019	105	Tier 4 Final	350	0	0	10	Fresno
G-74344-A1	Back Hoe	Diesel	1990	69	Tier 0	2020	74	Tier 4 Final	200	0	0	10	San Joaquin
G-82690-A1	Agricultural Tractor	Diesel	2005	113	Tier 2	2020	123	Tier 4 Final	500	0	0	10	Fresno
G-82745-A1	Agricultural Tractor	Diesel	2005	113	Tier 2	2020	123	Tier 4 Final	500	0	0	10	Fresno
G-96590-A1	Agricultural Tractor	Diesel	2007	96	Tier 2	2020	106	Tier 4 Phase In/Alt NOx	800	0	0	10	Kern
G-96592-A1	Agricultural Tractor	Diesel	2005	97	Tier 2	2020	106	Tier 4 Phase In/Alt NOx	500	0	0	10	Kern
C-62212-1-A1	Back Hoe	Diesel	1987	69	Tier 0	2020	100	Tier 4 Final	1500	0	0	10	Stanislaus
G-68519-A1	Agricultural Tractor	Diesel	2005	231	Tier 2	2020	220	Tier 4 Final	1000	0	0	10	Tulare
G-74191-A1	Agricultural Tractor	Diesel	2007	95	Tier 2	2019	114	Tier 4 Final	1560	0	0	10	Stanislaus
G-89887-A1	Agricultural Tractor	Diesel	2006	96	Tier 2	2020	106	Tier 4 Phase In/Alt NOx	1500	0	0	10	Tulare
G-89888-A1	Agricultural Tractor	Diesel	2004	96	Tier 2	2020	106	Tier 4 Phase In/Alt NOx	1500	0	0	10	Tulare
G-89889-A1	Agricultural Tractor	Diesel	2006	96	Tier 2	2020	106	Tier 4 Phase In/Alt NOx	1500	0	0	10	Tulare
G-89895-A1	Agricultural Tractor	Diesel	2007	96	Tier 2	2020	106	Tier 4 Phase In/Alt NOx	1500	0	0	10	Tulare
G-89896-A1	Agricultural Tractor	Diesel	2008	89	Tier 2	2020	106	Tier 4 Phase In/Alt NOx	1500	0	0	10	Tulare
G-89897-A1	Agricultural Tractor	Diesel	2008	96	Tier 2	2020	106	Tier 4 Phase In/Alt NOx	1500	0	0	10	Tulare
G-76778-A1	Agricultural Tractor	Diesel	2006	113	Tier 2	2019	155	Tier 4 Final	500	0	0	10	Merced
G-76780-A1	Agricultural Tractor	Diesel	2006	113	Tier 2	2020	155	Tier 4 Final	500	0	0	10	Merced

Project Type Off-Road

Description Vehicle Replacement

SJVAPCD Project Data 2022

Project #	Primary Function	Fuel Type	Baseline Yr	Old HP	Old Tier	New Eng Yr	New HP	New Tier	Annual Usage (Hours)	Annual Usage (Miles)	Annual Usage (Fuel)	Project Life (Yrs)	Location (County)
G-78832-A1	Agricultural Tractor	Diesel	2005	98	Tier 2	2019	155	Tier 4 Final	300	0	0	10	Merced
G-88177-A1	Wheel Loader	Diesel	1988	115	Tier 0	2021	99	Tier 4 Final	1500	0	0	10	Kern
G-90221-A1	Back Hoe	Diesel	2001	86	Tier 1	2021	101	Tier 4 Final	900	0	0	10	Merced
G-72984-A1	Agricultural Tractor	Diesel	1999	92	Tier 1	2019	106	Tier 4 Final	750	0	0	10	Merced
G-87222-A1	Back Hoe	Diesel	1993	70	Tier 0	2020	90	Tier 4 Final	1000	0	0	10	Tulare
G-90224-A1	Wheel Loader	Diesel	1987	168	Tier 0	2020	256	Tier 4 Final	1200	0	0	10	Fresno
G-65778-A1	**Excavator**	Diesel	2002	55	Tier 1	2020	57	Tier 4 Final	1972	0	0	10	Merced
G-65780-A1	**Excavator**	Diesel	2001	249	Tier 1	2020	271	Tier 4 Final	2042	0	0	10	Merced
G-74356-A1	Agricultural Tractor	Diesel	1994	72	Tier 0	2020	65	Tier 4 Final	500	0	0	10	Tulare
G-75584-A1	Agricultural Tractor	Diesel	1976	84	Tier 0	2020	101	Tier 4 Final	800	0	0	10	Fresno
G-76116-A1	Agricultural Tractor	Diesel	1988	72	Tier 0	2019	71	Tier 4 Final	300	0	0	10	Merced
G-76136-A1	Agricultural Tractor	Diesel	1984	46	Tier 0	2017	54	Tier 4 Final	300	0	0	10	Merced
G-76145-A1	Agricultural Tractor	Diesel	1997	95	Tier 0	2016	101	Tier 4 Final	400	0	0	10	Merced
G-96734-A1	Wheel Loader	Diesel	2005	149	Tier 2	2020	164	Tier 4 Final	2000	0	0	10	Kings
G-76915-A1	Swathers	Diesel	1994	152	Tier 0	2020	266	Tier 4 Final	400	0	0	10	Merced
G-76640-A1	Forklift	Diesel	1999	59	Tier 1	2020	74	Tier 4 Final	600	0	0	10	San Joaquin
G-92314-A1	Agricultural Tractor	Diesel	2006	91	Tier 2	2020	106	Tier 4 Phase In/Alt NOx	550	0	0	10	Tulare
G-76299-A1	**Agricultural Tractor**	Diesel	1998	114	Tier 1	2020	123	Tier 4 Final	400	0	0	10	Madera
G-77037-A1	Agricultural Tractor	Diesel	2003	89	Tier 1	2020	106	Tier 4 Phase In/Alt NOx	400	0	0	10	Stanislaus
C-53701-1-A1	Agricultural Tractor	Diesel	1975	210	Tier 0	2020	370	Tier 4 Final	1100	0	0	10	Merced
C-62687-1-A1	Agricultural Tractor	Diesel	1967	84	Tier 0	2020	155	Tier 4 Final	500	0	0	10	Stanislaus
C-62744-1-A1	Agricultural Tractor	Diesel	1987	88	Tier 0	2020	155	Tier 4 Final	500	0	0	10	Stanislaus
G-78616-A1	Agricultural Tractor	Diesel	2005	52	Tier 2	2020	56	Tier 4 Final	1000	0	0	10	Tulare
C-62815-1-A1	Agricultural Tractor	Diesel	1985	90	Tier 0	2019	116	Tier 4 Final	500	0	0	10	Stanislaus
G-88428-A1	Agricultural Tractor	Diesel	2004	54	Tier 2	2020	56	Tier 4 Final	350	0	0	10	San Joaquin
G-65447-A1	**Agricultural Tractor**	Diesel	1971	46	Tier 0	2020	67	Tier 4 Final	600	0	0	10	Tulare
C-55176-1-A1	Agricultural Tractor	Diesel	1978	133	Tier 0	2019	245	Tier 4 Final	1100	0	0	10	Stanislaus
G-89898-A1	Agricultural Tractor	Diesel	2008	97	Tier 2	2020	106	Tier 4 Phase In/Alt NOx	1500	0	0	10	Tulare
G-89902-A1	Agricultural Tractor	Diesel	2005	89	Tier 2	2020	106	Tier 4 Phase In/Alt NOx	1500	0	0	10	Tulare
G-67616-A1	Agricultural Tractor	Diesel	1992	120	Tier 0	2020	173	Tier 4 Final	1600	0	0	10	Tulare
G-82134-A1	Excavator	Diesel	1996	178	Tier 1	2019	161	Tier 4 Final	400	0	0	10	Merced

Project Type Off-Road

Description Vehicle Replacement

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Project #	Primary Function	Fuel Type	Baseline Yr	Old HP	Old Tier	New Eng Yr	New HP	New Tier	Annual Usage (Hours)	Annual Usage (Miles)	Annual Usage (Fuel)	Project Life (Yrs)	Location (County)
G-76041-A1	Agricultural Tractor	Diesel	1996	46	Tier 0	2020	59	Tier 4 Final	500	0	0	10	Tulare
G-76868-A1	Agricultural Tractor	Diesel	1971	58	Tier 0	2019	101	Tier 4 Final	150	0	0	10	Stanislaus
G-82135-A1	Back Hoe	Diesel	1999	80	Tier 1	2020	101	Tier 4 Final	400	0	0	10	Merced
G-82159-A1	Swathers	Diesel	1995	96	Tier 0	2016	235	Tier 4 Final	400	0	0	10	Stanislaus
G-91862-A1	Skid Loader	Diesel	2000	46	Tier 1	2020	73	Tier 4 Final	600	0	0	10	San Joaquin
G-97602-A1	Agricultural Tractor	Diesel	1977	150	Tier 0	2020	114	Tier 4 Final	100	0	0	10	Stanislaus
G-93313-A1	Agricultural Tractor	Diesel	1996	174	Tier 0	2019	114	Tier 4 Final	980	0	0	10	Merced
G-83230-A1	Agricultural Tractor	Diesel	2002	175	Tier 1	2020	195	Tier 4 Final	600	0	0	10	Tulare
G-90200-A1	Agricultural Tractor	Diesel	1995	99	Tier 0	2020	120	Tier 4 Final	600	0	0	10	Tulare
G-79923-A1	**Agricultural Tractor**	Diesel	1983	72	Tier 0	2019	58	Tier 4 Final	300	0	0	10	Stanislaus
G-84901-A1	Skid Loader	Diesel	1969	104	Tier 0	2020	73	Tier 4 Final	1000	0	0	10	Tulare
G-85090-A1	Agricultural Tractor	Diesel	1987	81	Tier 0	2019	115	Tier 4 Final	400	0	0	10	Merced
G-89904-A1	Agricultural Tractor	Diesel	2005	96	Tier 2	2020	106	Tier 4 Phase In/Alt NOx	1500	0	0	10	Tulare
G-96068-A1	Wheel Loader	Diesel	1999	160	Tier 1	2020	182	Tier 4 Final	1200	0	0	10	Tulare
G-97515-A1	Agricultural Tractor	Diesel	1979	63	Tier 0	2019	73	Tier 4 Final	200	0	0	10	Merced
G-75744-A1	Agricultural Tractor	Diesel	1988	66	Tier 0	2020	73	Tier 4 Final	700	0	0	10	Stanislaus
G-103096-A1	Agricultural Tractor	Diesel	2006	99	Tier 2	2020	99	Tier 4 Final	1200	0	0	10	Kern
G-103098-A1	Agricultural Tractor	Diesel	2006	99	Tier 2	2020	99	Tier 4 Final	1200	0	0	10	Kern
G-74886-A1	Skid Loader	Diesel	2001	43	Tier 1	2020	73	Tier 4 Final	800	0	0	10	Stanislaus
G-89302-A1	Agricultural Tractor	Diesel	2005	155	Tier 2	2020	175	Tier 4 Final	1000	0	0	10	Kings
G-96010-A1	Agricultural Tractor	Diesel	1979	25	Tier 0	2020	31	Tier 4 Final	250	0	0	10	Kings
G-98888-A1	Bale Wagon	Diesel	1997	160	Tier 0	2020	142	Tier 4 Final	800	0	0	10	Kern
G-76044-A1	Forklift	Diesel	2006	100	Tier 2	2019	125	Tier 4 Final	800	0	0	10	Stanislaus
G-79841-A1	Agricultural Tractor	Diesel	1989	80	Tier 0	2020	73	Tier 4 Final	150	0	0	10	Merced
G-79845-A1	Agricultural Tractor	Diesel	1996	84	Tier 0	2020	73	Tier 4 Final	250	0	0	10	Merced
G-83319-A1	Wheel Loader	Diesel	1993	96	Tier 0	2020	166	Tier 4 Final	800	0	0	10	San Joaquin
G-96247-A1	Agricultural Tractor	Diesel	2005	113	Tier 2	2020	106	Tier 4 Phase In/Alt NOx	1000	0	0	10	Kern
G-96525-A1	Agricultural Tractor	Diesel	2006	113	Tier 2	2019	106	Tier 4 Phase In/Alt NOx	1000	0	0	10	Kern
G-94757-A1	Windrower	Diesel	2001	165	Tier 1	2020	265	Tier 4 Final	690	0	0	10	Tulare
G-82124-A1	Agricultural Tractor	Diesel	1978	108	Tier 0	2020	120	Tier 4 Final	2200	0	0	10	Stanislaus
G-82132-A1	Agricultural Tractor	Diesel	1976	120	Tier 0	2020	120	Tier 4 Final	2200	0	0	10	Stanislaus

Project Type Off-Road

Description Vehicle Replacement

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Project #	Primary Function	Fuel Type	Baseline Yr	Old HP	Old Tier	New Eng Yr	New HP	New Tier	Annual Usage (Hours)	Annual Usage (Miles)	Annual Usage (Fuel)	Project Life (Yrs)	Location (County)
G-82136-A1	Agricultural Tractor	Diesel	1979	108	Tier 0	2020	120	Tier 4 Final	2200	0	0	10	Stanislaus
G-83840-A1	Agricultural Tractor	Diesel	1996	108	Tier 0	2020	120	Tier 4 Final	2150	0	0	10	Stanislaus
G-83842-A1	Agricultural Tractor	Diesel	1996	108	Tier 0	2020	120	Tier 4 Final	2200	0	0	10	Stanislaus
G-83844-A1	Agricultural Tractor	Diesel	1996	120	Tier 0	2020	120	Tier 4 Final	2150	0	0	10	Stanislaus
G-74355-A1	Agricultural Tractor	Diesel	1998	100	Tier 1	2020	114	Tier 4 Final	500	0	0	10	Tulare
G-90755-A1	Agricultural Tractor	Diesel	1996	108	Tier 0	2017	98	Tier 4 Phase In/Alt NOx	250	0	0	10	Fresno
G-97568-A1	Skid Loader	Diesel	2002	73	Tier 1	2017	74	Tier 4 Final	400	0	0	10	Kern
G-76867-A1	Agricultural Tractor	Diesel	1999	210	Tier 1	2020	256	Tier 4 Final	750	0	0	10	Tulare
G-90756-A1	Agricultural Tractor	Diesel	1977	158	Tier 0	2020	98	Tier 4 Phase In/Alt NOx	250	0	0	10	Fresno
G-90766-A1	Agricultural Tractor	Diesel	1971	115	Tier 0	2020	72	Tier 4 Final	250	0	0	10	Fresno
G-90774-A1	Agricultural Tractor	Diesel	1983	97	Tier 0	2019	72	Tier 4 Final	250	0	0	10	Fresno
G-94119-A1	Forklift	Diesel	1979	49	Tier 0	2020	74	Tier 4 Final	600	0	0	10	Kern
G-66722-A1	Agricultural Tractor	Diesel	1982	72	Tier 0	2020	71	Tier 4 Final	200	0	0	10	Merced
G-75964-A1	Agricultural Tractor	Diesel	1999	53	Tier 1	2020	58	Tier 4 Final	1200	0	0	10	Tulare
G-94793-A1	Windrower	Diesel	1997	152	Tier 1	2019	235	Tier 4 Final	500	0	0	10	Merced
G-76785-A1	Forklift	Diesel	1999	59	Tier 1	2021	55	Tier 4 Final	700	0	0	10	San Joaquin
G-88625-A1	Agricultural Tractor	Diesel	2004	29	Tier 2	2018	37	Tier 4 Final	700	0	0	10	San Joaquin
G-88793-A1	Agricultural Tractor	Diesel	2004	29	Tier 2	2018	37	Tier 4 Final	700	0	0	10	San Joaquin
G-90525-A1	Agricultural Tractor	Diesel	2007	99	Tier 2	2020	115	Tier 4 Final	260	0	0	10	Madera
G-88242-A1	Agricultural Tractor	Diesel	2006	115	Tier 2	2020	123	Tier 4 Final	600	0	0	10	Fresno
G-88243-A1	Agricultural Tractor	Diesel	2006	115	Tier 2	2020	123	Tier 4 Final	600	0	0	10	Fresno
G-92860-A1	Agricultural Tractor	Diesel	2002	90	Tier 1	2020	73	Tier 4 Final	1200	0	0	10	Kern
G-98894-A1	Agricultural Tractor	Diesel	1996	71	Tier 0	2019	106	Tier 4 Phase In/Alt NOx	800	0	0	10	Kern
G-99122-A1	Agricultural Tractor	Diesel	1979	69	Tier 0	2019	106	Tier 4 Phase In/Alt NOx	900	0	0	10	Kern
G-99125-A1	Agricultural Tractor	Diesel	1985	72	Tier 0	2019	106	Tier 4 Phase In/Alt NOx	900	0	0	10	Kern
G-77988-A1	Wheel Loader	Diesel	1990	65	Tier 0	2021	163	Tier 4 Final	1000	0	0	10	Stanislaus
G-95210-A1	Agricultural Tractor	Diesel	1994	360	Tier 0	2020	545	Tier 4 Final	2000	0	0	10	Kern
G-96870-A1	Agricultural Tractor	Diesel	2005	129	Tier 2	2020	250	Tier 4 Final	1000	0	0	10	San Joaquin
C-39008-1-A1	Agricultural Tractor	Diesel	1980	87	Tier 0	2020	106	Tier 4 Final	330	0	550	10	Stanislaus
G-69844-A1	**Agricultural Tractor**	Diesel	1975	80	Tier 0	2020	123	Tier 4 Final	250	0	0	10	Fresno
G-72715-A1	Agricultural Tractor	Diesel	1979	48	Tier 0	2020	67	Tier 4 Final	500	0	0	10	Fresno

Project Type Off-Road

Description Vehicle Replacement

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Project #	Primary Function	Fuel Type	Baseline Yr	Old HP	Old Tier	New Eng Yr	New HP	New Tier	Annual Usage (Hours)	Annual Usage (Miles)	Annual Usage (Fuel)	Project Life (Yrs)	Location (County)
G-99561-A1	Windrower	Diesel	2002	182	Tier 1	2020	197	Tier 4 Final	350	0	0	10	Tulare
G-75741-A1	Skid Loader	Diesel	2004	90	Tier 2	2020	70	Tier 4 Final	900	0	0	10	Merced
G-77979-A1	Wheel Loader	Diesel	1980	65	Tier 0	2021	99	Tier 4 Final	1300	0	0	10	Stanislaus
G-97587-A1	Bulk Carrier	Diesel	1996	100	Tier 0	2019	74	Tier 4 Final	400	0	0	10	Kern
G-88471-A1	Wheel Loader	Diesel	1997	95	Tier 1	2019	97	Tier 4 Final	700	0	0	10	San Joaquin
C-56001-1-A1	Wheel Loader	Diesel	1980	100	Tier 0	2021	166	Tier 4 Final	1800	0	0	10	Kern
G-104721-A1	Agricultural Tractor	Diesel	2007	92	Tier 2	2020	106	Tier 4 Phase In/Alt NOx	400	0	0	10	Tulare
G-68862-A1	Wheel Loader	Diesel	1999	101	Tier 1	2020	61	Tier 4 Final	1500	0	0	10	Merced
G-75768-A1	Agricultural Tractor	Diesel	1966	113	Tier 0	2020	93	Tier 4 Final	450	0	0	10	Stanislaus
G-82748-A1	Agricultural Tractor	Diesel	2003	113	Tier 2	2020	123	Tier 4 Final	500	0	0	10	Fresno
G-82749-A1	Agricultural Tractor	Diesel	1993	89	Tier 0	2020	123	Tier 4 Final	500	0	0	10	Fresno
C-53865-1-A1	Agricultural Tractor	Diesel	2004	125	Tier 2	2020	153	Tier 4 Final	800	0	0	10	San Joaquin
C-54472-1-A1	Agricultural Tractor	Diesel	2003	210	Tier 2	2020	248	Tier 4 Final	800	0	0	10	San Joaquin
G-67832-A1	Agricultural Tractor	Diesel	1978	158	Tier 0	2019	175	Tier 4 Final	500	0	0	10	Fresno
G-90538-A1	Agricultural Tractor	Diesel	1985	69	Tier 0	2020	74	Tier 4 Final	500	0	0	10	San Joaquin
G-67082-A1	Agricultural Tractor	Diesel	1988	97	Tier 0	2020	120	Tier 4 Final	300	0	0	10	Fresno
G-78807-A1	Bulk Carrier	Diesel	2006	93	Tier 2	2020	140	Tier 4 Final	500	0	0	10	San Joaquin
G-85043-A1	Wheel Loader	Diesel	1996	90	Tier 0	2020	166	Tier 4 Final	1100	0	0	10	Stanislaus
G-91296-A1	Shaker	Diesel	2008	130	Tier 2	2021	174	Tier 4 Final	470	0	0	10	Madera
G-92482-A1	Back Hoe	Diesel	1999	76	Tier 1	2021	101	Tier 4 Final	900	0	0	10	Merced
G-97340-A1	Crawler Tractor	Diesel	1998	365	Tier 1	2020	370	Tier 4 Final	720	0	0	10	San Joaquin
G-68089-A1	Back Hoe	Diesel	2006	86	Tier 2	2021	101	Tier 4 Final	500	0	0	10	Tulare
G-78811-A1	Agricultural Tractor	Diesel	1986	94	Tier 0	2020	116	Tier 4 Final	300	0	0	10	Fresno
G-78826-A1	Agricultural Tractor	Diesel	1979	97	Tier 0	2020	116	Tier 4 Final	300	0	0	10	Fresno
G-78834-A1	Agricultural Tractor	Diesel	1987	88	Tier 0	2020	116	Tier 4 Final	300	0	0	10	Fresno
C-40940-1A	Agricultural Tractor	Diesel	1962	101	Tier 0	2016	84	Tier 4 Final	400	0	500	10	Kern
G-74880-A1	Agricultural Tractor	Diesel	2006	105	Tier 2	2020	114	Tier 4 Final	300	0	0	10	Merced
G-80564-A1	Agricultural Tractor	Diesel	1981	216	Tier 0	2020	123	Tier 4 Final	800	0	0	10	Fresno
G-90927-A1	Back Hoe	Diesel	1983	69	Tier 0	2019	96	Tier 4 Final	350	0	0	10	Stanislaus
G-91317-A1	Back Hoe	Diesel	1971	83	Tier 0	2020	96	Tier 4 Final	1000	0	0	10	San Joaquin
G-91572-A1	Agricultural Tractor	Diesel	1981	69	Tier 0	2020	90	Tier 4 Final	150	0	0	10	Stanislaus

Project Type Off-Road

Description Vehicle Replacement

SJVAPCD Project Data 2022

Project #	Primary Function	Fuel Type	Baseline Yr	Old HP	Old Tier	New Eng Yr	New HP	New Tier	Annual Usage (Hours)	Annual Usage (Miles)	Annual Usage (Fuel)	Project Life (Yrs)	Location (County)
G-93579-A1	Almond Shaker	Diesel	2006	130	Tier 2	2021	174	Tier 4 Final	600	0	0	10	Fresno
G-91037-A1	Agricultural Tractor	Diesel	1996	84	Tier 0	2020	106	Tier 4 Phase In/Alt NOx	500	0	0	10	Madera
G-91041-A1	Agricultural Tractor	Diesel	1996	46	Tier 0	2019	53	Tier 4 Final	250	0	0	10	Madera
G-91042-A1	Agricultural Tractor	Diesel	1996	46	Tier 0	2017	53	Tier 4 Final	250	0	0	10	Madera
G-91047-A1	Agricultural Tractor	Diesel	1996	27	Tier 0	2018	35	Tier 4 Final	250	0	0	10	Madera
G-91048-A1	Agricultural Tractor	Diesel	2000	25	Tier 1	2020	35	Tier 4 Final	250	0	0	10	Madera
G-91051-A1	Agricultural Tractor	Diesel	2000	25	Tier 1	2020	35	Tier 4 Final	250	0	0	10	Madera
G-91052-A1	Agricultural Tractor	Diesel	2000	25	Tier 1	2020	35	Tier 4 Final	250	0	0	10	Madera
G-95139-A1	Agricultural Tractor	Diesel	2003	100	Tier 2	2020	114	Tier 4 Final	550	0	0	10	Tulare
G-95419-A1	Agricultural Tractor	Diesel	2005	99	Tier 2	2020	114	Tier 4 Final	550	0	0	10	Tulare
G-96872-A1	Agricultural Tractor	Diesel	1999	95	Tier 1	2020	114	Tier 4 Final	500	0	0	10	Tulare
C-46996-1-A1	**Chopper**	Diesel	2002	525	Tier 2	2020	824	Tier 4 Final	950	0	0	10	Stanislaus
G-82149-A1	Agricultural Tractor	Diesel	1982	108	Tier 0	2021	145	Tier 4 Final	2200	0	0	10	Stanislaus
G-82158-A1	Agricultural Tractor	Diesel	1978	132	Tier 0	2021	145	Tier 4 Final	2200	0	0	10	Stanislaus
G-82169-A2	Agricultural Tractor	Diesel	1976	180	Tier 0	2021	155	Tier 4 Final	2200	0	0	10	Stanislaus
G-82172-A2	Agricultural Tractor	Diesel	1975	180	Tier 0	2021	155	Tier 4 Final	2200	0	0	10	Stanislaus
G-91158-A1	Wheel Loader	Diesel	1990	135	Tier 0	2020	163	Tier 4 Final	1000	0	0	10	Stanislaus
G-92261-A1	Agricultural Tractor	Diesel	1987	144	Tier 0	2020	123	Tier 4 Final	600	0	0	10	Fresno
G-92262-A1	Agricultural Tractor	Diesel	1987	144	Tier 0	2020	123	Tier 4 Final	600	0	0	10	Fresno
G-99573-A1	Agricultural Tractor	Diesel	1974	300	Tier 0	2019	320	Tier 4 Final	350	0	0	10	Fresno
C-58084-1-A1	Agricultural Tractor	Diesel	1997	95	Tier 0	2020	123	Tier 4 Final	500	0	0	10	Fresno
G-101213-A1	Chopper	Diesel	2000	444	Tier 1	2020	617	Tier 4 Final	800	0	0	10	Tulare
G-101472-A1	Nut Sweeper	Diesel	1995	80	Tier 0	2020	74	Tier 4 Final	550	0	0	10	Kern
G-74013-A1	Agricultural Tractor	Diesel	1985	60	Tier 0	2020	58	Tier 4 Final	350	0	0	10	Kings
G-77937-A1	Agricultural Tractor	Diesel	2003	208	Tier 1	2021	250	Tier 4 Final	1200	0	0	10	Merced
G-83850-A1	Agricultural Tractor	Diesel	1984	94	Tier 0	2020	114	Tier 4 Final	200	0	0	10	Merced
G-83923-A1	Agricultural Tractor	Diesel	1990	88	Tier 0	2020	115	Tier 4 Final	300	0	0	10	San Joaquin
G-90202-A1	Agricultural Tractor	Diesel	1959	49	Tier 0	2020	58	Tier 4 Final	350	0	0	10	Fresno
G-91610-A1	Agricultural Tractor	Diesel	1988	30	Tier 0	2018	37	Tier 4 Final	100	0	0	10	Merced
G-92012-A1	Agricultural Tractor	Diesel	1988	97	Tier 0	2020	106	Tier 4 Phase In/Alt NOx	500	0	0	10	Fresno
G-92013-A1	Agricultural Tractor	Diesel	1995	108	Tier 0	2020	106	Tier 4 Phase In/Alt NOx	500	0	0	10	Fresno

Project Type Off-Road

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Description Vehicle Replacement

Project #	Primary Function	Fuel Type	Baseline Yr	Old HP	Old Tier	New Eng Yr	New HP	New Tier	Annual Usage (Hours)	Annual Usage (Miles)	Annual Usage (Fuel)	Project Life (Yrs)	Location (County)
G-92015-A1	Agricultural Tractor	Diesel	1995	108	Tier 0	2020	106	Tier 4 Phase In/Alt NOx	500	0	0	10	Fresno
G-92016-A1	Agricultural Tractor	Diesel	1989	63	Tier 0	2020	74	Tier 4 Final	500	0	0	10	Fresno
G-92017-A1	Agricultural Tractor	Diesel	1979	48	Tier 0	2019	60	Tier 4 Final	500	0	0	10	Fresno
G-99918-A1	Agricultural Tractor	Diesel	1977	97	Tier 0	2020	74	Tier 4 Final	250	0	0	10	Kern
C-55049-1-A1	Hay Swather	Diesel	2005	126	Tier 2	2020	260	Tier 4 Final	500	0	0	10	Merced
G-66631-A1	Wheel Loader	Diesel	1964	150	Tier 0	2021	152	Tier 4 Final	1500	0	0	10	Kern
G-82784-A1	**Agricultural Tractor**	Diesel	1979	60	Tier 0	2020	74	Tier 4 Final	400	0	0	10	San Joaquin
G-83434-A1	Forklift	Diesel	2007	80	Tier 2	2020	74	Tier 4 Final	1000	0	0	10	Stanislaus
G-90512-A1	Swathers	Diesel	2005	227	Tier 2	2019	251	Tier 4 Final	500	0	0	10	Stanislaus
G-92508-A1	Wheel Loader	Diesel	1988	85	Tier 0	2020	141	Tier 4 Final	1000	0	0	10	San Joaquin
G-80950-A1	Agricultural Tractor	Diesel	1998	55	Tier 1	2020	58	Tier 4 Final	800	0	0	10	Fresno
G-80951-A1	Agricultural Tractor	Diesel	1998	55	Tier 1	2020	58	Tier 4 Final	800	0	0	10	Fresno
G-80953-A1	Agricultural Tractor	Diesel	1998	55	Tier 1	2020	58	Tier 4 Final	800	0	0	10	Fresno
G-80954-A1	Agricultural Tractor	Diesel	1998	55	Tier 1	2020	58	Tier 4 Final	800	0	0	10	Fresno
G-91060-A1	Wheel Loader	Diesel	1970	80	Tier 0	2020	164	Tier 4 Final	3000	0	0	10	Tulare
G-96274-A1	Wheel Loader	Diesel	2006	145	Tier 2	2020	164	Tier 4 Final	3000	0	0	10	Merced
G-96277-A1	Wheel Loader	Diesel	2003	102	Tier 2	2020	114	Tier 4 Final	1200	0	0	10	Merced
G-97648-A1	Wheel Loader	Diesel	1997	170	Tier 1	2021	173	Tier 4 Final	2250	0	0	10	Kings
G-70890-A1	Agricultural Tractor	Diesel	1985	46	Tier 0	2020	73	Tier 4 Final	1400	0	0	10	Madera
G-70893-A1	Agricultural Tractor	Diesel	1979	84	Tier 1	2020	123	Tier 4 Final	1200	0	0	10	Madera
G-70901-A1	Agricultural Tractor	Diesel	1986	46	Tier 0	2020	73	Tier 4 Final	1400	0	0	10	Madera
G-70905-A1	Agricultural Tractor	Diesel	1986	46	Tier 0	2020	59	Tier 4 Final	1400	0	0	10	Madera
G-74892-A1	Agricultural Tractor	Diesel	1991	210	Tier 0	2021	196	Tier 4 Final	750	0	0	10	Fresno
G-82778-A1	Wheel Loader	Diesel	1995	125	Tier 0	2021	249	Tier 4 Final	1500	0	0	10	Stanislaus
G-87248-A1	Forklift	Diesel	1989	69	Tier 0	2020	74	Tier 4 Final	800	0	0	10	Stanislaus
G-88262-A1	Agricultural Tractor	Diesel	2007	153	Tier 2	2020	115	Tier 4 Final	800	0	0	10	Merced
G-92248-A1	Back Hoe	Diesel	1990	69	Tier 0	2020	96	Tier 4 Final	500	0	0	10	San Joaquin
G-93698-A1	Wheel Loader	Diesel	2004	283	Tier 2	2019	259	Tier 4 Final	2500	0	0	10	Kern
G-94727-A1	Agricultural Tractor	Diesel	2005	89	Tier 2	2021	114	Tier 4 Final	500	0	0	10	Tulare
C-64027-1-A1	Agricultural Tractor	Diesel	1980	97	Tier 0	2020	114	Tier 4 Final	750	0	0	10	Fresno
G-101493-A1	Agricultural Tractor	Diesel	1991	25	Tier 0	2019	57	Tier 4 Final	400	0	0	10	Fresno

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Project #	Primary Function	Fuel Type	Baseline Yr	Old HP	Old Tier	New Eng Yr	New HP	New Tier	Annual Usage (Hours)	Annual Usage (Miles)	Annual Usage (Fuel)	Project Life (Yrs)	Location (County)
G-101494-A1	Agricultural Tractor	Diesel	1991	25	Tier 0	2019	57	Tier 4 Final	400	0	0	10	Fresno
G-101496-A1	Agricultural Tractor	Diesel	2002	119	Tier 1	2020	101	Tier 4 Final	600	0	0	10	Fresno
G-107507-A1	Motor Grader	Diesel	2005	215	Tier 2	2020	190	Tier 4 Final	1400	0	0	10	Kings
G-75905-A1	Agricultural Tractor	Diesel	1977	72	Tier 0	2018	108	Tier 4 Final	200	0	0	10	Tulare
G-79717-A1	Nut Sweeper	Diesel	2000	80	Tier 1	2020	74	Tier 4 Final	500	0	0	10	Kern
G-81752-A1	Agricultural Tractor	Diesel	2005	154	Tier 2	2019	276	Tier 4 Final	2500	0	0	10	Kern
G-82706-A1	Tractor Loader	Diesel	2004	75	Tier 2	2021	93	Tier 4 Final	500	0	0	10	San Joaquin
G-82725-A1	Tractor Loader	Diesel	2001	78	Tier 1	2021	93	Tier 4 Final	500	0	0	10	San Joaquin
G-82728-A1	Tractor Loader	Diesel	2004	75	Tier 2	2021	93	Tier 4 Final	500	0	0	10	San Joaquin
G-82731-A1	Tractor Loader	Diesel	2005	75	Tier 2	2021	93	Tier 4 Final	500	0	0	10	San Joaquin
G-90195-A1	Back Hoe	Diesel	1987	69	Tier 0	2020	96	Tier 4 Final	900	0	0	10	San Joaquin
G-94137-A1	Agricultural Tractor	Diesel	2006	115	Tier 2	2020	115	Tier 4 Final	400	0	0	10	Tulare
G-96293-A1	Wheel Loader	Diesel	2004	78	Tier 2	2020	63	Tier 4 Final	1000	0	0	10	Merced
G-68784-A1	Agricultural Tractor	Diesel	2005	155	Tier 2	2020	155	Tier 4 Final	500	0	0	10	Fresno
G-68785-A1	Agricultural Tractor	Diesel	2005	155	Tier 2	2020	155	Tier 4 Final	500	0	0	10	Fresno
G-65994-A1	Swathers	Diesel	2006	185	Tier 2	2020	260	Tier 4 Final	525	0	0	10	Tulare
G-65995-A1	Swathers	Diesel	2003	185	Tier 2	2020	260	Tier 4 Final	525	0	0	10	Tulare
G-83803-A1	Shaker	Diesel	2004	130	Tier 2	2019	174	Tier 4 Final	650	0	0	10	San Joaquin
G-91762-A1	Swathers	Diesel	2000	110	Tier 1	2020	266	Tier 4 Final	875	0	0	10	Merced
G-66270-A1	Excavator	Diesel	2001	222	Tier 1	2019	273	Tier 4 Final	1000	0	0	10	Stanislaus
G-67744-A1	Agricultural Tractor	Diesel	1976	151	Tier 0	2020	123	Tier 4 Final	300	0	0	10	Stanislaus
G-80536-A1	**Agricultural Tractor**	Diesel	2003	155	Tier 2	2021	196	Tier 4 Final	700	0	0	10	Tulare
G-82164-A2	Agricultural Tractor	Diesel	1982	132	Tier 0	2021	155	Tier 4 Final	2200	0	0	10	Stanislaus
G-83327-A1	Agricultural Tractor	Diesel	2008	98	Tier 2	2020	115	Tier 4 Final	1000	0	0	10	Tulare
G-83960-A1	Forklift	Diesel	1969	60	Tier 0	2020	74	Tier 4 Final	2000	0	0	10	Kern
G-94014-A1	Shredder	Diesel	2007	425	Tier 2	2021	456	Tier 4 Final	700	0	0	10	Fresno
G-79865-A1	**Agricultural Tractor**	Diesel	1969	127	Tier 0	2021	155	Tier 4 Final	400	0	0	10	Madera
G-82025-A1	Agricultural Tractor	Diesel	1984	46	Tier 0	2020	123	Tier 4 Final	400	0	0	10	Fresno
G-82026-A1	Agricultural Tractor	Diesel	1991	30	Tier 0	2020	123	Tier 4 Final	400	0	0	10	Fresno
G-99880-A1	Agricultural Tractor	Diesel	2004	208	Tier 2	2020	210	Tier 4 Final	800	0	0	10	Kern
C-57480-1-A1	Agricultural Tractor	Diesel	1997	235	Tier 1	2020	230	Tier 4 Final	700	0	0	10	Merced

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Project #	Primary Function	Fuel Type	Baseline Yr	Old HP	Old Tier	New Eng Yr	New HP	New Tier	Annual Usage (Hours)	Annual Usage (Miles)	Annual Usage (Fuel)	Project Life (Yrs)	Location (County)
G-79848-A1	Agricultural Tractor	Diesel	2007	92	Tier 2	2020	114	Tier 4 Final	500	0	0	10	Tulare
G-92830-A1	Agricultural Tractor	Diesel	1973	147	Tier 0	2020	114	Tier 4 Final	250	0	0	10	Stanislaus
G-92836-A1	Agricultural Tractor	Diesel	1974	46	Tier 0	2019	114	Tier 4 Final	200	0	0	10	Stanislaus
C-64772-1-A1	Agricultural Tractor	Diesel	1990	62	Tier 0	2020	74	Tier 4 Final	200	0	0	10	Fresno
G-66561-A1	Agricultural Tractor	Diesel	2004	110	Tier 2	2020	114	Tier 4 Final	1000	0	0	10	Fresno
G-66592-A1	Agricultural Tractor	Diesel	2002	100	Tier 1	2020	114	Tier 4 Final	1000	0	0	10	Fresno
G-67782-A1	Agricultural Tractor	Diesel	2000	90	Tier 1	2017	106	Tier 4 Final	500	0	0	10	Kern
G-76624-A1	Agricultural Tractor	Diesel	1998	99	Tier 1	2020	53	Tier 4 Final	1000	0	0	10	Kern
G-78794-A1	Back Hoe	Diesel	2000	76	Tier 1	2021	110	Tier 4 Final	250	0	0	10	Stanislaus
G-82237-A1	Agricultural Tractor	Diesel	2005	86	Tier 2	2019	114	Tier 4 Final	500	0	0	10	Kern
G-82704-A1	Back Hoe	Diesel	2005	98	Tier 2	2021	113	Tier 4 Final	500	0	0	10	San Joaquin
G-82726-A1	Agricultural Tractor	Diesel	1994	104	Tier 0	2020	123	Tier 4 Final	400	0	0	10	Fresno
G-100507-A1	Nut Sweeper	Diesel	2004	80	Tier 2	2020	74	Tier 4 Final	350	0	0	10	Kern
G-93768-A1	Agricultural Tractor	Diesel	1975	151	Tier 0	2021	175	Tier 4 Final	1800	0	0	10	Kings
G-66945-A1	Agricultural Tractor	Diesel	1998	170	Tier 1	2020	195	Tier 4 Final	1200	0	0	10	Tulare
G-81818-A1	Back Hoe	Diesel	1986	69	Tier 0	2021	103	Tier 4 Final	800	0	0	10	San Joaquin
G-90798-A1	Agricultural Tractor	Diesel	1987	29	Tier 0	2019	45	Tier 4 Final	1100	0	0	10	San Joaquin
G-90799-A1	Agricultural Tractor	Diesel	1998	28	Tier 1	2019	45	Tier 4 Final	1100	0	0	10	San Joaquin
G-74876-A1	Agricultural Tractor	Diesel	1982	216	Tier 0	2020	280	Tier 4 Final	320	0	0	10	Tulare
G-74879-A1	Agricultural Tractor	Diesel	1975	180	Tier 0	2020	230	Tier 4 Final	300	0	0	10	Tulare
G-84194-A1	Agricultural Tractor	Diesel	1981	108	Tier 0	2016	130	Tier 4 Final	300	0	0	10	Tulare
G-92233-A1	Agricultural Tractor	Diesel	1999	91	Tier 1	2020	114	Tier 4 Final	300	0	0	10	Stanislaus
G-94105-A1	Sprayer	Diesel	1984	80	Tier 0	2020	64	Tier 4 Final	700	0	0	10	Fresno
G-94141-A1	Agricultural Tractor	Diesel	1998	100	Tier 1	2020	125	Tier 4 Final	750	0	0	10	Merced
G-67750-A1	Chopper	Diesel	2006	635	Tier 2	2020	956	Tier 4 Final	1000	0	0	10	Tulare
G-74009-A1	Swathers	Diesel	2002	182	Tier 1	2020	260	Tier 4 Final	1000	0	0	10	Madera
G-74029-A1	Swathers	Diesel	2002	182	Tier 1	2020	260	Tier 4 Final	1000	0	0	10	Madera
G-89973-A1	Agricultural Tractor	Diesel	2004	89	Tier 1	2019	115	Tier 4 Final	2000	0	0	10	Fresno
G-92844-A1	Forklift	Diesel	1993	52	Tier 0	2020	74	Tier 4 Final	450	0	0	10	Kern
G-92847-A1	Agricultural Tractor	Diesel	1991	25	Tier 0	2019	35	Tier 4 Final	250	0	0	10	Kern
G-92855-A1	Agricultural Tractor	Diesel	1991	25	Tier 0	2019	35	Tier 4 Final	250	0	0	10	Kern

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Project #	Primary Function	Fuel Type	Baseline Yr	Old HP	Old Tier	New Eng Yr	New HP	New Tier	Annual Usage (Hours)	Annual Usage (Miles)	Annual Usage (Fuel)	Project Life (Yrs)	Location (County)
G-93057-A1	Shaker	Diesel	1985	116	Tier 0	2020	139	Tier 4 Final	400	0	0	10	Merced
G-93771-A1	Agricultural Tractor	Diesel	1994	95	Tier 0	2019	114	Tier 4 Final	500	0	0	10	Stanislaus
C-51772-1A	Wheel Loader	Diesel	1995	140	Tier 0	2021	163	Tier 4 Final	2000	0	0	10	Tulare
C-61789-1-A1	Agricultural Tractor	Diesel	2004	99	Tier 2	2019	114	Tier 4 Final	300	0	0	10	Fresno
G-73118-A1	Agricultural Tractor	Diesel	1982	40	Tier 0	2020	51	Tier 4 Final	400	0	0	10	Madera
G-89290-A1	Agricultural Tractor	Diesel	1989	210	Tier 0	2020	280	Tier 4 Final	700	0	0	10	Fresno
G-68669-A1	Agricultural Tractor	Diesel	2005	85	Tier 2	2020	106	Tier 4 Phase In/Alt NOx	600	0	0	10	Tulare
G-79644-A1	Agricultural Tractor	Diesel	1979	156	Tier 0	2020	210	Tier 4 Final	1800	0	0	10	Tulare
G-83681-A1	Agricultural Tractor	Diesel	1995	120	Tier 0	2021	155	Tier 4 Final	700	0	0	10	Merced
G-95226-A1	Agricultural Tractor	Diesel	1979	156	Tier 0	2021	210	Tier 4 Final	1300	0	0	10	Tulare
G-96996-A1	Agricultural Tractor	Diesel	2003	94	Tier 1	2020	125	Tier 4 Final	1200	0	0	10	Kern
G-69557-A1	Agricultural Tractor	Diesel	2004	103	Tier 2	2020	114	Tier 4 Final	300	0	0	10	Stanislaus
G-74905-A1	Agricultural Tractor	Diesel	1999	216	Tier 1	2021	196	Tier 4 Final	750	0	0	10	Fresno
G-82711-A1	Skid Loader	Diesel	2007	61	Tier 2	2019	95	Tier 4 Final	2500	0	0	10	Fresno
G-94198-A1	Agricultural Tractor	Diesel	1976	61	Tier 0	2020	98	Tier 4 Phase In/Alt NOx	300	0	0	10	Merced
G-70221-A1	Swathers	Diesel	2000	172	Tier 1	2020	266	Tier 4 Final	800	0	0	10	Stanislaus
G-91861-A1	Chopper	Diesel	2013	758	Tier 2	2020	858	Tier 4 Final	650	0	0	10	Tulare
G-94250-A1	Agricultural Tractor	Diesel	1998	91	Tier 1	2020	73	Tier 4 Final	500	0	0	10	Fresno
G-96766-A1	Chopper	Diesel	2000	533	Tier 1	2020	759	Tier 4 Final	650	0	0	10	Tulare
G-97364-A1	Skid Loader	Diesel	1994	44	Tier 0	2021	74	Tier 4 Final	400	0	0	10	Kern
C-59182-1-A1	Agricultural Tractor	Diesel	2003	98	Tier 1	2020	123	Tier 4 Final	500	0	0	10	Fresno
G-105378-A1	Skid Loader	Diesel	2008	81	Tier 2	2020	92	Tier 4 Final	800	0	0	10	Fresno
G-69749-A1	Agricultural Tractor	Diesel	1978	60	Tier 0	2020	74	Tier 4 Final	200	0	0	10	Fresno
G-95851-A1	Agricultural Tractor	Diesel	1990	234	Tier 0	2020	281	Tier 4 Final	1000	0	0	10	Stanislaus
C-58083-1-A1	Agricultural Tractor	Diesel	1978	146	Tier 0	2020	123	Tier 4 Final	500	0	0	10	Fresno
G-78538-A1	Agricultural Tractor	Diesel	2003	98	Tier 1	2020	123	Tier 4 Final	250	0	0	10	Merced
G-91161-A1	Almond Shaker	Diesel	1987	121	Tier 0	2021	174	Tier 4 Final	600	0	0	10	Madera
G-94355-A1	Shaker	Diesel	2007	156	Tier 2	2021	174	Tier 4 Final	500	0	0	10	Stanislaus
G-94356-A1	Shaker	Diesel	2006	156	Tier 2	2021	174	Tier 4 Final	500	0	0	10	Stanislaus
G-94838-A1	Wheel Loader	Diesel	1979	80	Tier 0	2020	164	Tier 4 Final	1000	0	0	10	Kings
G-95144-A1	Wheel Loader	Diesel	2004	134	Tier 2	2021	183	Tier 4 Final	2000	0	0	10	Kings

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Project #	Primary Function	Fuel Type	Baseline Yr	Old HP	Old Tier	New Eng Yr	New HP	New Tier	Annual Usage (Hours)	Annual Usage (Miles)	Annual Usage (Fuel)	Project Life (Yrs)	Location (County)
G-67743-A1	Agricultural Tractor	Diesel	1979	84	Tier 0	2020	73	Tier 4 Final	300	0	0	10	Stanislaus
G-88620-A1	Agricultural Tractor	Diesel	1981	88	Tier 0	2019	121	Tier 4 Final	200	0	0	10	Merced
G-90689-A1	Agricultural Tractor	Diesel	2004	145	Tier 2	2020	155	Tier 4 Final	613	0	0	10	San Joaquin
G-90690-A1	Agricultural Tractor	Diesel	2003	145	Tier 2	2020	155	Tier 4 Final	441	0	0	10	San Joaquin
G-90691-A1	Agricultural Tractor	Diesel	2006	129	Tier 2	2020	155	Tier 4 Final	1040	0	0	10	San Joaquin
G-90693-A1	Agricultural Tractor	Diesel	2006	160	Tier 2	2020	155	Tier 4 Final	678	0	0	10	San Joaquin
G-93770-A1	Agricultural Tractor	Diesel	2002	198	Tier 1	2020	155	Tier 4 Final	200	0	0	10	San Joaquin
G-96897-A1	Skid Loader	Diesel	1999	49	Tier 1	2020	73	Tier 4 Final	480	0	0	10	Merced
G-97649-A1	Wheel Loader	Diesel	1961	105	Tier 0	2019	74	Tier 4 Final	800	0	0	10	Kings
G-84910-A1	Agricultural Tractor	Diesel	1999	88	Tier 1	2018	74	Tier 4 Final	500	0	0	10	Fresno
G-97681-A1	Agricultural Tractor	Diesel	2001	62	Tier 1	2020	45	Tier 4 Final	700	0	0	10	Tulare
C-57172-1-A1	Agricultural Tractor	Diesel	2007	93	Tier 2	2020	106	Tier 4 Phase In/Alt NOx	500	0	0	10	Kern
C-57208-1-A1	Agricultural Tractor	Diesel	2006	91	Tier 2	2020	106	Tier 4 Phase In/Alt NOx	500	0	0	10	Kern
G-70663-A1	Agricultural Tractor	Diesel	2003	82	Tier 1	2020	115	Tier 4 Final	1500	0	0	10	Stanislaus
G-92807-A1	**Agricultural Tractor**	Diesel	1956	93	Tier 0	2019	98	Tier 4 Phase In/Alt NOx	500	0	0	10	Kern
G-93081-A1	Wheel Loader	Diesel	1980	158	Tier 0	2020	158	Tier 4 Final	300	0	0	10	Merced
G-96764-A1	Agricultural Tractor	Diesel	1980	300	Tier 0	2021	280	Tier 4 Final	750	0	0	10	Tulare
G-96844-A1	Agricultural Tractor	Diesel	1980	72	Tier 0	2020	63	Tier 4 Final	250	0	0	10	Stanislaus
G-107432-A1	Wheel Loader	Diesel	1995	138	Tier 0	2018	173	Tier 4 Final	3500	0	0	10	Tulare
G-107433-A1	Wheel Loader	Diesel	2005	177	Tier 2	2018	200	Tier 4 Final	3500	0	0	10	Tulare
G-87236-A1	Agricultural Tractor	Diesel	1989	300	Tier 0	2021	420	Tier 4 Final	550	0	0	10	Merced
G-92018-A1	Agricultural Tractor	Diesel	1962	56	Tier 0	2019	74	Tier 4 Final	300	0	0	10	Fresno
G-92020-A1	Agricultural Tractor	Diesel	1962	56	Tier 0	2019	74	Tier 4 Final	300	0	0	10	Fresno
G-94417-A1	Agricultural Tractor	Diesel	1975	76	Tier 0	2018	65	Tier 4 Final	275	0	0	10	Merced
C-51959-1-A1	Wheel Loader	Diesel	1988	168	Tier 0	2021	192	Tier 4 Final	1500	0	0	10	Fresno
C-64373-1-A1	Agricultural Tractor	Diesel	1996	108	Tier 0	2021	135	Tier 4 Final	1000	0	0	10	Kings
C-8974-1-A1	Wheel Loader	Diesel	1991	100	Tier 0	2021	152	Tier 4 Final	1040	0	3000	10	Stanislaus
G-101614-A1	Agricultural Tractor	Diesel	2001	116	Tier 1	2020	99	Tier 4 Final	350	0	0	10	Kern
G-68524-A1	Pistachio Catcher	Diesel	1994	80	Tier 0	2021	74	Tier 4 Final	350	0	0	10	Fresno
G-68525-A1	Shaker	Diesel	1998	84	Tier 1	2020	115	Tier 4 Final	350	0	0	10	Fresno
G-68534-A1	Pistachio Catcher	Diesel	1993	80	Tier 0	2020	74	Tier 4 Final	450	0	0	10	Fresno

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Project #	Primary Function	Fuel Type	Baseline Yr	Old HP	Old Tier	New Eng Yr	New HP	New Tier	Annual Usage (Hours)	Annual Usage (Miles)	Annual Usage (Fuel)	Project Life (Yrs)	Location (County)
G-68535-A1	Shaker	Diesel	1999	84	Tier 1	2020	115	Tier 4 Final	450	0	0	10	Fresno
G-74918-A1	Wheel Loader	Diesel	1977	130	Tier 0	2021	316	Tier 4 Final	1000	0	0	10	San Joaquin
G-75845-A1	Wheel Loader	Diesel	1974	130	Tier 0	2019	225	Tier 4 Final	1000	0	0	10	Kings
G-84618-A1	Agricultural Tractor	Diesel	1990	375	Tier 0	2021	515	Tier 4 Final	500	0	0	10	Merced
G-85096-A1	Agricultural Tractor	Diesel	1996	83	Tier 0	2020	115	Tier 4 Final	500	0	0	10	Kern
G-87223-A1	Wheel Loader	Diesel	1997	96	Tier 0	2021	124	Tier 4 Final	1100	0	0	10	Fresno
G-88190-A1	Wheel Loader	Diesel	1991	152	Tier 0	2021	163	Tier 4 Final	2000	0	0	10	Kern
G-82853-A1	Agricultural Tractor	Diesel	1997	99	Tier 0	2020	123	Tier 4 Final	600	0	0	10	Madera
G-92179-A1	Agricultural Tractor	Diesel	2006	91	Tier 2	2020	106	Tier 4 Phase In/Alt NOx	752	0	0	10	Fresno
G-96314-A1	Almond Shaker	Diesel	1985	121	Tier 0	2020	174	Tier 4 Final	210	0	0	10	Fresno
G-96346-A1	Almond Shaker	Diesel	1983	166	Tier 0	2021	174	Tier 4 Final	300	0	0	10	Fresno
G-96855-A1	Almond Shaker	Diesel	1984	158	Tier 0	2021	174	Tier 4 Final	201	0	0	10	Fresno
G-101853-A1	Back Hoe	Diesel	1989	69	Tier 0	2020	90	Tier 4 Final	1500	0	0	10	Merced
G-104719-A1	Agricultural Tractor	Diesel	1981	84	Tier 0	2019	106	Tier 4 Phase In/Alt NOx	400	0	0	10	Tulare
G-68806-A1	Agricultural Tractor	Diesel	1998	91	Tier 1	2019	63	Tier 4 Final	2538	0	0	10	Fresno
G-75531-A1	Agricultural Tractor	Diesel	2002	375	Tier 2	2020	545	Tier 4 Final	786	0	0	10	Kings
G-82878-A1	Agricultural Tractor	Diesel	1978	325	Tier 0	2020	626	Tier 4 Final	500	0	0	10	Merced
G-83786-A1	Agricultural Tractor	Diesel	2002	425	Tier 2	2021	470	Tier 4 Final	750	0	0	10	Merced
G-90694-A1	Agricultural Tractor	Diesel	2001	114	Tier 1	2019	173	Tier 4 Final	300	0	0	10	San Joaquin
G-69542-A1	Agricultural Tractor	Diesel	1998	109	Tier 1	2021	120	Tier 4 Final	700	0	0	10	Fresno
G-69545-A1	Agricultural Tractor	Diesel	2003	129	Tier 2	2021	155	Tier 4 Final	700	0	0	10	Fresno
G-69558-A1	Agricultural Tractor	Diesel	1990	109	Tier 0	2021	120	Tier 4 Final	700	0	0	10	Fresno
G-80507-A1	Agricultural Tractor	Diesel	1993	108	Tier 0	2020	114	Tier 4 Final	1000	0	0	10	Kern
G-84265-A1	Wheel Loader	Diesel	2006	96	Tier 2	2021	99	Tier 4 Final	1500	0	0	10	San Joaquin
G-96273-A1	Agricultural Tractor	Diesel	2007	113	Tier 2	2021	114	Tier 4 Final	1200	0	0	10	Kern
G-96530-A1	Agricultural Tractor	Diesel	1998	114	Tier 1	2020	114	Tier 4 Final	1200	0	0	10	Kern
G-99064-A1	Agricultural Tractor	Diesel	2001	114	Tier 1	2021	123	Tier 4 Final	750	0	0	10	Madera
G-99110-A1	Nut Sweeper	Diesel	2003	80	Tier 1	2020	74	Tier 4 Final	300	0	0	10	Madera
G-99917-A1	Bulk Carrier	Diesel	1988	63	Tier 0	2020	74	Tier 4 Final	233	0	0	10	Kern
G-75477-A1	Agricultural Tractor	Diesel	1993	81	Tier 0	2021	99	Tier 4 Final	250	0	0	10	Fresno
G-75478-A1	Agricultural Tractor	Diesel	1998	89	Tier 1	2021	114	Tier 4 Final	250	0	0	10	Fresno

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Project #	Primary Function	Fuel Type	Baseline Yr	Old HP	Old Tier	New Eng Yr	New HP	New Tier	Annual Usage (Hours)	Annual Usage (Miles)	Annual Usage (Fuel)	Project Life (Yrs)	Location (County)
G-89133-A1	Agricultural Tractor	Diesel	2003	207	Tier 2	2020	218	Tier 4 Final	365	0	0	10	Madera
G-89135-A1	Agricultural Tractor	Diesel	2005	207	Tier 2	2020	218	Tier 4 Final	365	0	0	10	Madera
G-89136-A1	Agricultural Tractor	Diesel	2005	207	Tier 2	2020	218	Tier 4 Final	450	0	0	10	Madera
G-92818-A1	Agricultural Tractor	Diesel	2006	98	Tier 2	2019	106	Tier 4 Phase In/Alt NOx	1000	0	0	10	Kern
G-93080-A1	Wheel Loader	Diesel	1999	290	Tier 1	2019	282	Tier 4 Final	350	0	0	10	Merced
G-95374-A1	Sprayer	Diesel	1972	82	Tier 0	2019	74	Tier 4 Final	125	0	0	10	Fresno
G-96998-A1	Agricultural Tractor	Diesel	1998	60	Tier 0	2020	74	Tier 4 Final	1200	0	0	10	Kern
G-99046-A1	Skid Loader	Diesel	2005	82	Tier 2	2021	73	Tier 4 Final	350	0	0	10	Kings
G-72993-A1	Agricultural Tractor	Diesel	2004	231	Tier 2	2021	236	Tier 4 Final	700	0	0	10	Merced
G-87284-A1	Agricultural Tractor	Diesel	1992	84	Tier 0	2020	100	Tier 4 Final	600	0	0	10	Tulare
G-93012-A1	Wheel Loader	Diesel	1994	90	Tier 0	2018	63	Tier 4 Final	250	0	0	10	San Joaquin
G-99054-A1	Agricultural Tractor	Diesel	1975	60	Tier 0	2020	74	Tier 4 Final	400	0	0	10	Kern
G-100527-A1	Agricultural Tractor	Diesel	1991	170	Tier 0	2021	155	Tier 4 Final	800	0	0	10	Kings
G-100529-A1	Agricultural Tractor	Diesel	1972	151	Tier 0	2021	155	Tier 4 Final	800	0	0	10	Kings
G-65530-A1	Agricultural Tractor	Diesel	1978	275	Tier 0	2020	340	Tier 4 Final	500	0	0	10	Tulare
G-76592-A1	Agricultural Tractor	Diesel	1994	110	Tier 0	2020	123	Tier 4 Final	1000	0	0	10	Merced
G-82723-A1	Wheel Loader	Diesel	1999	145	Tier 1	2021	249	Tier 4 Final	500	0	0	10	San Joaquin
G-88251-A1	Wheel Loader	Diesel	1980	165	Tier 0	2021	249	Tier 4 Final	800	0	0	10	San Joaquin
G-92464-A1	Agricultural Tractor	Diesel	1983	80	Tier 0	2019	114	Tier 4 Final	450	0	0	10	Madera
G-91711-A1	Agricultural Tractor	Diesel	1997	46	Tier 0	2020	73	Tier 4 Final	500	0	0	10	Madera
G-96531-A1	Wheel Loader	Diesel	1976	100	Tier 0	2021	120	Tier 4 Final	1500	0	0	10	Kings
G-74362-A1	Agricultural Tractor	Diesel	1998	91	Tier 1	2020	106	Tier 4 Phase In/Alt NOx	350	0	0	10	Stanislaus
C-54943-1-A1	Agricultural Tractor	Diesel	2007	90	Tier 2	2020	106	Tier 4 Phase In/Alt NOx	300	0	0	10	Tulare
C-64045-1-A1	Agricultural Tractor	Diesel	1966	76	Tier 0	2020	73	Tier 4 Final	750	0	0	10	Fresno
G-92129-A1	**Back Hoe**	Diesel	1981	52	Tier 0	2020	62	Tier 4 Final	250	0	0	10	San Joaquin
G-96762-A1	Agricultural Tractor	Diesel	1975	275	Tier 0	2021	280	Tier 4 Final	875	0	0	10	Tulare
G-80925-A1	Agricultural Tractor	Diesel	1969	115	Tier 0	2020	123	Tier 4 Final	300	0	0	10	Merced
G-94188-A1	Agricultural Tractor	Diesel	1993	115	Tier 0	2021	155	Tier 4 Final	700	0	0	10	Merced
G-98700-A1	Back Hoe	Diesel	1973	57	Tier 0	2020	74	Tier 4 Final	800	0	0	10	San Joaquin
G-70675-A1	Skid Loader	Diesel	2006	61	Tier 2	2020	67	Tier 4 Final	2000	0	0	10	Tulare
G-94074-A1	Agricultural Tractor	Diesel	1979	81	Tier 0	2021	114	Tier 4 Final	500	0	0	10	Stanislaus

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Project #	Primary Function	Fuel Type	Baseline Yr	Old HP	Old Tier	New Eng Yr	New HP	New Tier	Annual Usage (Hours)	Annual Usage (Miles)	Annual Usage (Fuel)	Project Life (Yrs)	Location (County)
G-95855-A1	Agricultural Tractor	Diesel	1984	103	Tier 0	2019	114	Tier 4 Final	300	0	0	10	Merced
G-95897-A1	Back Hoe	Diesel	1992	75	Tier 0	2018	97	Tier 4 Final	300	0	0	10	Merced
G-95900-A1	Forklift	Diesel	1984	60	Tier 0	2020	74	Tier 4 Final	300	0	0	10	Merced
G-96139-A1	Shaker	Diesel	2003	156	Tier 2	2021	174	Tier 4 Final	425	0	0	10	Stanislaus
G-101842-A1	Skid Loader	Diesel	2000	74	Tier 1	2020	73	Tier 4 Final	1000	0	0	10	Stanislaus
G-103331-A1	Tomato Harvester	Diesel	2008	225	Tier 2	2021	225	Tier 4 Final	1400	0	0	10	Kings
G-75364-A1	**Chopper**	Diesel	2003	601	Tier 2	2021	779	Tier 4 Final	740	0	0	10	Madera
G-93887-A1	Agricultural Tractor	Diesel	2006	91	Tier 2	2020	114	Tier 4 Final	500	0	0	10	Stanislaus
G-95167-A1	Nut Sweeper	Diesel	1986	60	Tier 0	2021	74	Tier 4 Final	400	0	0	10	Merced
G-97833-A1	Agricultural Tractor	Diesel	2004	86	Tier 2	2020	115	Tier 4 Final	300	0	0	10	Kern
G-65534-A1	Agricultural Tractor	Diesel	1975	275	Tier 0	2021	420	Tier 4 Final	500	0	0	10	Tulare
G-74902-A1	Agricultural Tractor	Diesel	2006	207	Tier 2	2021	196	Tier 4 Final	750	0	0	10	Fresno
G-75850-A1	Agricultural Tractor	Diesel	1992	370	Tier 0	2021	470	Tier 4 Final	900	0	0	10	Merced
G-83325-A1	Agricultural Tractor	Diesel	2006	99	Tier 2	2020	114	Tier 4 Final	250	0	0	10	Fresno
G-90191-A1	Chopper	Diesel	2001	505	Tier 1	2020	956	Tier 4 Final	500	0	0	10	Tulare
G-91866-A1	Agricultural Tractor	Diesel	1977	73	Tier 0	2020	115	Tier 4 Final	500	0	0	10	Merced
G-92841-A1	Agricultural Tractor	Diesel	1979	73	Tier 0	2020	114	Tier 4 Final	500	0	0	10	Tulare
G-95216-A1	Back Hoe	Diesel	1980	130	Tier 0	2021	110	Tier 4 Final	750	0	0	10	Kern
C-63567-1-A1	Agricultural Tractor	Diesel	2003	375	Tier 2	2020	595	Tier 4 Final	650	0	0	10	Fresno
C-65007-1-A1	Shaker	Diesel	1986	104	Tier 0	2020	148	Tier 4 Final	500	0	0	10	Fresno
G-103970-A1	Wheel Loader	Diesel	2005	194	Tier 2	2021	163	Tier 4 Final	1000	0	0	10	San Joaquin
G-79846-A1	Agricultural Tractor	Diesel	1981	88	Tier 0	2020	106	Tier 4 Final	150	0	0	10	Stanislaus
G-80845-A1	Agricultural Tractor	Diesel	1996	120	Tier 0	2020	125	Tier 4 Final	700	0	0	10	Fresno
G-80846-A1	Agricultural Tractor	Diesel	1991	156	Tier 0	2021	125	Tier 4 Final	700	0	0	10	Fresno
G-81753-A1	Agricultural Tractor	Diesel	1981	108	Tier 0	2020	99	Tier 4 Final	300	0	0	10	Stanislaus
G-90315-A1	Forklift	Diesel	1979	46	Tier 0	2020	62	Tier 4 Final	250	0	0	10	Fresno
G-90331-A1	Forklift	Diesel	1979	46	Tier 0	2020	62	Tier 4 Final	250	0	0	10	Fresno
G-91267-A1	Wheel Loader	Diesel	2003	201	Tier 2	2021	249	Tier 4 Final	1500	0	0	10	San Joaquin
G-91618-A1	Agricultural Tractor	Diesel	1987	97	Tier 0	2019	106	Tier 4 Phase In/Alt NOx	250	0	0	10	Fresno
G-91620-A1	Agricultural Tractor	Diesel	1997	102	Tier 1	2020	106	Tier 4 Phase In/Alt NOx	250	0	0	10	Fresno
G-102174-A1	Agricultural Tractor	Diesel	2004	500	Tier 2	2021	611	Tier 4 Final	1500	0	0	10	Merced

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Project #	Primary Function	Fuel Type	Baseline Yr	Old HP	Old Tier	New Eng Yr	New HP	New Tier	Annual Usage (Hours)	Annual Usage (Miles)	Annual Usage (Fuel)	Project Life (Yrs)	Location (County)
G-65459-A1	**Agricultural Tractor**	Diesel	1976	60	Tier 0	2020	72	Tier 4 Final	600	0	0	10	Tulare
G-81774-A1	Agricultural Tractor	Diesel	2005	120	Tier 2	2021	74	Tier 4 Final	1130	0	0	10	Madera
G-81776-A1	Agricultural Tractor	Diesel	2005	120	Tier 2	2021	74	Tier 4 Final	831	0	0	10	Madera
G-87226-A1	Wheel Loader	Diesel	1997	100	Tier 1	2020	164	Tier 4 Final	1200	0	0	10	Stanislaus
G-94447-A1	Agricultural Tractor	Diesel	1981	98	Tier 0	2021	123	Tier 4 Final	1500	0	0	10	Fresno
G-94451-A1	Agricultural Tractor	Diesel	1977	48	Tier 0	2021	59	Tier 4 Final	1500	0	0	10	Fresno
G-94454-A1	Agricultural Tractor	Diesel	1997	46	Tier 0	2021	59	Tier 4 Final	1500	0	0	10	Fresno
G-94455-A1	Agricultural Tractor	Diesel	1979	66	Tier 0	2021	59	Tier 4 Final	1500	0	0	10	Fresno
G-94986-A1	Agricultural Tractor	Diesel	1966	47	Tier 0	2021	59	Tier 4 Final	900	0	0	10	Fresno
C-53203-1-A1	Agricultural Tractor	Diesel	1980	215	Tier 0	2020	281	Tier 4 Final	500	0	0	10	Fresno
G-72606-A1	Agricultural Tractor	Diesel	1972	58	Tier 0	2019	71	Tier 4 Final	250	0	0	10	Fresno
G-92461-A1	Chopper	Diesel	2007	757	Tier 2	2019	824	Tier 4 Final	900	0	0	10	Fresno
G-92939-A1	Agricultural Tractor	Diesel	2007	93	Tier 2	2020	106	Tier 4 Phase In/Alt NOx	550	0	0	10	Tulare
G-94439-A1	Wheel Loader	Diesel	2005	160	Tier 2	2021	183	Tier 4 Final	2000	0	0	10	Kern
G-94831-A1	Wheel Loader	Diesel	1982	167	Tier 0	2020	192	Tier 4 Final	1500	0	0	10	Tulare
G-95147-A1	Back Hoe	Diesel	2005	89	Tier 2	2021	92	Tier 4 Final	500	0	0	10	Fresno
G-95942-A1	Agricultural Tractor	Diesel	1976	60	Tier 0	2019	114	Tier 4 Final	300	0	0	10	Merced
G-91198-A1	Shaker	Diesel	2003	125	Tier 1	2020	148	Tier 4 Final	500	0	0	10	Stanislaus
G-94126-A1	Agricultural Tractor	Diesel	1977	74	Tier 0	2020	100	Tier 4 Final	500	0	0	10	Tulare
G-97751-A1	Agricultural Tractor	Diesel	2005	90	Tier 2	2020	52	Tier 4 Final	800	0	0	10	Tulare
C-53198-1-A1	Agricultural Tractor	Diesel	1980	186	Tier 0	2020	236	Tier 4 Final	500	0	0	10	Fresno
G-98656-A1	Agricultural Tractor	Diesel	2006	62	Tier 2	2020	73	Tier 4 Final	800	0	0	10	Stanislaus
G-75372-A1	Tomato Harvester	Diesel	2009	225	Tier 2	2021	225	Tier 4 Final	500	0	0	10	Fresno
G-84268-A1	Pistachio Catcher	Diesel	2000	80	Tier 1	2021	125	Tier 4 Final	550	0	0	10	Fresno
G-84269-A1	Pistachio Harvester	Diesel	2000	80	Tier 1	2021	125	Tier 4 Final	550	0	0	10	Fresno
G-96325-A1	Agricultural Tractor	Diesel	2003	175	Tier 2	2020	195	Tier 4 Final	400	0	0	10	Fresno
G-96994-A1	Forklift	Diesel	1982	75	Tier 0	2020	74	Tier 4 Final	200	0	0	10	Kern
G-68331-A1	Agricultural Tractor	Diesel	1980	60	Tier 0	2020	74	Tier 4 Final	500	0	0	10	Fresno
G-92800-A1	Agricultural Tractor	Diesel	2007	86	Tier 2	2019	106	Tier 4 Phase In/Alt NOx	1000	0	0	10	Kern
G-92802-A1	Agricultural Tractor	Diesel	2006	98	Tier 2	2019	106	Tier 4 Phase In/Alt NOx	1000	0	0	10	Kern

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Project #	Primary Function	Fuel Type	Baseline Yr	Old HP	Old Tier	New Eng Yr	New HP	New Tier	Annual Usage (Hours)	Annual Usage (Miles)	Annual Usage (Fuel)	Project Life (Yrs)	Location (County)
G-92812-A1	Agricultural Tractor	Diesel	2006	98	Tier 2	2019	106	Tier 4 Phase In/Alt NOx	1000	0	0	10	Kern
G-92817-A1	Agricultural Tractor	Diesel	2006	98	Tier 2	2019	106	Tier 4 Phase In/Alt NOx	1000	0	0	10	Kern
G-100101-A1	Shaker	Diesel	2000	115	Tier 1	2020	74	Tier 4 Final	500	0	0	10	Kings
G-100102-A1	Pistachio Catcher	Diesel	2000	115	Tier 1	2020	74	Tier 4 Final	500	0	0	10	Kings
G-100103-A1	Shaker	Diesel	2003	115	Tier 1	2020	74	Tier 4 Final	500	0	0	10	Kings
G-100104-A1	Pistachio Catcher	Diesel	2003	115	Tier 1	2020	74	Tier 4 Final	500	0	0	10	Kings
G-100105-A1	Shaker	Diesel	2002	115	Tier 1	2020	74	Tier 4 Final	500	0	0	10	Kings
G-100106-A1	Pistachio Catcher	Diesel	2002	115	Tier 1	2020	74	Tier 4 Final	500	0	0	10	Kings
G-68244-A1	Agricultural Tractor	Diesel	1979	72	Tier 0	2020	114	Tier 4 Final	500	0	0	10	Fresno
G-90931-A1	Wheel Loader	Diesel	1987	95	Tier 0	2019	100	Tier 4 Final	1000	0	0	10	San Joaquin
G-67549-A1	Agricultural Tractor	Diesel	2002	39	Tier 1	2019	106	Tier 4 Final	500	0	0	10	Stanislaus
G-78533-A1	Almond Shaker	Diesel	1997	125	Tier 1	2020	174	Tier 4 Final	400	0	0	10	Madera
G-83806-A1	Shaker	Diesel	2005	130	Tier 2	2020	174	Tier 4 Final	650	0	0	10	San Joaquin
G-83807-A1	Shaker	Diesel	2006	130	Tier 2	2020	174	Tier 4 Final	650	0	0	10	San Joaquin
G-89132-A1	Nut Sweeper	Diesel	2001	80	Tier 1	2020	74	Tier 4 Final	500	0	0	10	Madera
G-91527-A1	Forklift	Diesel	2005	115	Tier 2	2019	111	Tier 4 Final	441	0	0	10	Fresno
G-97406-A1	Wheel Loader	Diesel	1990	60	Tier 0	2020	68	Tier 4 Final	400	0	0	10	Merced
G-97581-A1	Skid Loader	Diesel	2006	61	Tier 2	2020	74	Tier 4 Final	420	0	0	10	Kern
G-67047-A1	Agricultural Tractor	Diesel	1991	81	Tier 0	2019	121	Tier 4 Final	1000	0	0	10	Fresno
G-93013-A1	Forklift	Diesel	1996	90	Tier 0	2018	64	Tier 4 Final	250	0	0	10	San Joaquin
G-95478-A1	Agricultural Tractor	Diesel	1999	91	Tier 1	2020	73	Tier 4 Final	800	0	0	10	Fresno
G-92843-A1	Wheel Loader	Diesel	2002	121	Tier 1	2021	152	Tier 4 Final	1500	0	0	10	Merced
G-82261-A1	Wheel Loader	Diesel	2005	150	Tier 2	2019	139	Tier 4 Final	600	0	0	10	Stanislaus
G-89300-A1	Agricultural Tractor	Diesel	1990	88	Tier 0	2021	99	Tier 4 Final	400	0	0	10	Fresno
G-90564-A1	Almond Shaker	Diesel	2006	155	Tier 2	2020	148	Tier 4 Final	400	0	0	10	Fresno
G-103019-A1	Agricultural Tractor	Diesel	1999	29	Tier 0	2019	33	Tier 4 Final	200	0	0	10	Kern
G-85088-A1	Agricultural Tractor	Diesel	1989	71	Tier 0	2021	114	Tier 4 Final	650	0	0	10	Merced
G-92257-A1	Agricultural Tractor	Diesel	1981	72	Tier 0	2021	73	Tier 4 Final	150	0	0	10	Stanislaus
G-95749-A1	Almond Shaker	Diesel	2007	170	Tier 2	2020	148	Tier 4 Final	700	0	0	10	Kern

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Project #	Primary Function	Fuel Type	Baseline Yr	Old HP	Old Tier	New Eng Yr	New HP	New Tier	Annual Usage (Hours)	Annual Usage (Miles)	Annual Usage (Fuel)	Project Life (Yrs)	Location (County)
G-95750-A1	Almond Shaker	Diesel	2007	170	Tier 2	2020	148	Tier 4 Final	700	0	0	10	Kern
G-95755-A1	Almond Shaker	Diesel	2007	170	Tier 2	2020	148	Tier 4 Final	624	0	0	10	Kern
G-95757-A1	Almond Shaker	Diesel	2007	170	Tier 2	2020	148	Tier 4 Final	770	0	0	10	Kern
G-95758-A1	Almond Shaker	Diesel	2007	170	Tier 2	2020	148	Tier 4 Final	488	0	0	10	Kern
G-95759-A1	Almond Shaker	Diesel	2007	170	Tier 2	2020	148	Tier 4 Final	676	0	0	10	Kern
G-97682-A1	Agricultural Tractor	Diesel	1989	168	Tier 0	2020	123	Tier 4 Final	500	0	0	10	Tulare
G-78534-A1	Agricultural Tractor	Diesel	1984	80	Tier 0	2021	125	Tier 4 Final	1000	0	0	10	Stanislaus
G-82732-A1	Nut Sweeper	Diesel	1988	42	Tier 0	2021	74	Tier 4 Final	175	0	0	10	Fresno
G-66013-A1	Agricultural Tractor	Diesel	1977	80	Tier 0	2021	89	Tier 4 Final	1500	0	0	10	Fresno
G-83792-A1	Agricultural Tractor	Diesel	1959	61	Tier 0	2021	123	Tier 4 Final	556	0	0	10	Fresno
G-90929-A1	Agricultural Tractor	Diesel	1988	97	Tier 0	2020	98	Tier 4 Phase In/Alt NOx	300	0	0	10	Merced
G-91035-A1	Agricultural Tractor	Diesel	1988	63	Tier 0	2020	98	Tier 4 Phase In/Alt NOx	300	0	0	10	Merced
G-94079-A1	Wheel Loader	Diesel	2000	160	Tier 1	2019	173	Tier 4 Final	300	0	0	10	Stanislaus
G-97398-A1	Bale Wagon	Diesel	2000	160	Tier 1	2020	190	Tier 4 Final	1000	0	0	10	San Joaquin
G-98597-A1	Wheel Loader	Diesel	1990	120	Tier 0	2020	164	Tier 4 Final	1000	0	0	10	Stanislaus
G-78790-A1	Agricultural Tractor	Diesel	1968	95	Tier 0	2020	123	Tier 4 Final	150	0	0	10	Tulare
G-87633-A1	**Chopper**	Diesel	2003	601	Tier 2	2020	912	Tier 4 Final	1000	0	0	10	Kern
G-96850-A1	Agricultural Tractor	Diesel	1982	84	Tier 0	2020	114	Tier 4 Final	500	0	0	10	Stanislaus
G-75548-A1	**Agricultural Tractor**	Diesel	2003	115	Tier 2	2021	123	Tier 4 Final	366	0	0	10	Merced
G-83678-A1	Agricultural Tractor	Diesel	1961	54	Tier 0	2017	104	Tier 4 Final	400	0	0	10	Fresno
G-85317-A1	Shaker	Diesel	2004	125	Tier 1	2020	148	Tier 4 Final	400	0	0	10	Stanislaus
G-92947-A1	Agricultural Tractor	Diesel	2006	115	Tier 2	2019	114	Tier 4 Final	882	0	0	10	Merced
G-96875-A1	Agricultural Tractor	Diesel	2006	129	Tier 2	2021	175	Tier 4 Final	1000	0	0	10	San Joaquin
C-55054-1-A1	Agricultural Tractor	Diesel	2005	55	Tier 2	2020	106	Tier 4 Final	500	0	0	10	Merced
G-83625-A1	Agricultural Tractor	Diesel	2006	113	Tier 2	2021	110	Tier 4 Final	400	0	0	10	Kern
G-83626-A1	Agricultural Tractor	Diesel	2006	113	Tier 2	2021	110	Tier 4 Final	400	0	0	10	Kern
G-91761-A1	Skid Loader	Diesel	1990	60	Tier 0	2021	73	Tier 4 Final	1700	0	0	10	Merced
G-96279-A1	Excavator	Diesel	1994	168	Tier 0	2019	203	Tier 4 Final	1000	0	0	10	Madera
G-97091-A1	Shaker	Diesel	1990	115	Tier 0	2020	74	Tier 4 Final	300	0	0	10	Kern

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Project #	Primary Function	Fuel Type	Baseline Yr	Old HP	Old Tier	New Eng Yr	New HP	New Tier	Annual Usage (Hours)	Annual Usage (Miles)	Annual Usage (Fuel)	Project Life (Yrs)	Location (County)
G-97093-A1	Shaker	Diesel	1990	115	Tier 0	2020	74	Tier 4 Final	300	0	0	10	Kern
G-87225-A1	Wheel Loader	Diesel	1995	75	Tier 0	2021	92	Tier 4 Final	1125	0	0	10	Tulare
G-95165-A1	Wheel Loader	Diesel	1999	125	Tier 1	2021	192	Tier 4 Final	800	0	0	10	Merced
G-103018-A1	Agricultural Tractor	Diesel	2006	33	Tier 2	2019	33	Tier 4 Final	200	0	0	10	Kern
G-96626-A1	Agricultural Tractor	Diesel	1971	49	Tier 0	2020	38	Tier 4 Final	300	0	0	10	Merced
C-61794-1-A1	Agricultural Tractor	Diesel	2000	440	Tier 1	2020	666	Tier 4 Final	1300	0	0	10	Stanislaus
C-62228-1-A1	Wheel Loader	Diesel	2006	57	Tier 2	2020	63	Tier 4 Final	500	0	0	10	Kings
G-110748-A1	Agricultural Tractor	Diesel	1997	60	Tier 0	2020	74	Tier 4 Final	600	0	0	10	Kern
G-84722-A1	Agricultural Tractor	Diesel	1997	102	Tier 1	2021	123	Tier 4 Final	300	0	0	10	Madera
G-88199-A1	Agricultural Tractor	Diesel	2005	105	Tier 2	2021	123	Tier 4 Final	500	0	0	10	Stanislaus
G-88201-A1	Agricultural Tractor	Diesel	2001	105	Tier 1	2021	123	Tier 4 Final	500	0	0	10	Stanislaus
G-92239-A1	Agricultural Tractor	Diesel	2006	86	Tier 2	2021	114	Tier 4 Final	600	0	0	10	San Joaquin
G-82695-A1	Chopper	Diesel	2010	956	Tier 2	2019	956	Tier 4 Final	800	0	0	10	Tulare
C-64539-1-A1	Agricultural Tractor	Diesel	2000	175	Tier 1	2021	230	Tier 4 Final	850	0	0	10	Merced
G-68337-A1	Nut Sweeper	Diesel	2004	80	Tier 1	2020	74	Tier 4 Final	350	0	0	10	Fresno
G-78722-A1	Agricultural Tractor	Diesel	1974	152	Tier 0	2020	123	Tier 4 Final	200	0	0	10	Fresno
G-79833-A1	Sprayer	Diesel	1998	185	Tier 1	2021	173	Tier 4 Final	600	0	0	10	Fresno
G-87158-A1	Bin Carrier	Diesel	1989	85	Tier 0	2020	115	Tier 4 Final	800	0	0	10	Fresno
G-87206-A1	Bin Carrier	Diesel	1989	80	Tier 0	2020	115	Tier 4 Final	800	0	0	10	Fresno
G-87209-A1	Bin Carrier	Diesel	1989	80	Tier 0	2020	115	Tier 4 Final	800	0	0	10	Fresno
G-92416-A1	Wheel Loader	Diesel	1994	118	Tier 0	2021	117	Tier 4 Final	1000	0	0	10	Kern
G-97610-A1	Back Hoe	Diesel	1996	79	Tier 0	2021	92	Tier 4 Final	450	0	0	10	Madera
G-107104-A1	Windrower	Diesel	2001	166	Tier 1	2019	210	Tier 4 Final	800	0	0	10	Tulare
G-90686-A1	Agricultural Tractor	Diesel	2006	114	Tier 2	2020	155	Tier 4 Final	640	0	0	10	San Joaquin
G-94430-A1	Agricultural Tractor	Diesel	1973	270	Tier 0	2020	540	Tier 4 Final	600	0	0	10	Madera
C-56146-1-A1	Agricultural Tractor	Diesel	2005	91	Tier 2	2020	106	Tier 4 Phase In/Alt NOx	300	0	0	10	Tulare
G-101180-A1	Shaker	Diesel	2004	115	Tier 1	2017	115	Tier 4 Final	600	0	0	10	Tulare
G-101183-A1	Shaker	Diesel	2004	115	Tier 1	2017	115	Tier 4 Final	600	0	0	10	Tulare
G-101185-A1	Pistachio Catcher	Diesel	2004	115	Tier 2	2019	115	Tier 4 Final	600	0	0	10	Tulare

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Project #	Primary Function	Fuel Type	Baseline Yr	Old HP	Old Tier	New Eng Yr	New HP	New Tier	Annual Usage (Hours)	Annual Usage (Miles)	Annual Usage (Fuel)	Project Life (Yrs)	Location (County)
G-101188-A1	Pistachio Catcher	Diesel	1981	70	Tier 0	2018	115	Tier 4 Final	600	0	0	10	Tulare
G-101191-A1	Pistachio Catcher	Diesel	2007	115	Tier 1	2019	115	Tier 4 Final	600	0	0	10	Tulare
G-101192-A1	Pistachio Harvester	Diesel	2007	115	Tier 1	2018	115	Tier 4 Final	600	0	0	10	Tulare
G-101195-A1	Pistachio Harvester	Diesel	1995	110	Tier 0	2019	115	Tier 4 Final	600	0	0	10	Tulare
G-101196-A1	Pistachio Catcher	Diesel	2004	115	Tier 2	2020	115	Tier 4 Final	600	0	0	10	Tulare
G-101197-A1	Pistachio Catcher	Diesel	1995	80	Tier 0	2019	115	Tier 4 Final	600	0	0	10	Tulare
G-101198-A1	Pistachio Harvester	Diesel	1996	110	Tier 0	2019	115	Tier 4 Final	600	0	0	10	Tulare
G-101200-A1	Pistachio Catcher	Diesel	1983	82	Tier 0	2019	115	Tier 4 Final	600	0	0	10	Tulare
G-101201-A1	Pistachio Harvester	Diesel	1983	82	Tier 0	2020	115	Tier 4 Final	600	0	0	10	Tulare
G-101307-A1	Agricultural Tractor	Diesel	1994	240	Tier 0	2020	281	Tier 4 Final	1000	0	0	10	Madera
G-66010-A1	Agricultural Tractor	Diesel	1991	109	Tier 0	2021	100	Tier 4 Final	1500	0	0	10	Fresno
G-66014-A1	Agricultural Tractor	Diesel	1977	80	Tier 0	2021	100	Tier 4 Final	1500	0	0	10	Fresno
G-67022-A1	Agricultural Tractor	Diesel	1991	81	Tier 0	2019	121	Tier 4 Final	1000	0	0	10	Fresno
G-74900-A1	Agricultural Tractor	Diesel	2006	207	Tier 2	2021	195	Tier 4 Final	750	0	0	10	Fresno
G-76812-A1	Agricultural Tractor	Diesel	1997	83	Tier 0	2019	115	Tier 4 Final	400	0	0	10	Stanislaus
G-76843-A1	Agricultural Tractor	Diesel	1981	84	Tier 0	2020	114	Tier 4 Final	300	0	0	10	Stanislaus
G-76856-A1	Agricultural Tractor	Diesel	2003	32	Tier 1	2021	50	Tier 4 Final	300	0	0	10	Stanislaus
G-76898-A1	Agricultural Tractor	Diesel	2003	113	Tier 2	2019	114	Tier 4 Final	500	0	0	10	Stanislaus
G-81814-A1	Wheel Loader	Diesel	1998	170	Tier 1	2021	192	Tier 4 Final	1500	0	0	10	Merced
G-88613-A1	Back Hoe	Diesel	1987	80	Tier 0	2019	96	Tier 4 Final	750	0	0	10	Stanislaus
G-93190-A1	Agricultural Tractor	Diesel	2004	139	Tier 2	2021	123	Tier 4 Final	1000	0	0	10	Fresno
G-95161-A1	Agricultural Tractor	Diesel	2005	115	Tier 2	2020	114	Tier 4 Final	875	0	0	10	Stanislaus
G-96316-A1	Skid Loader	Diesel	2003	48	Tier 1	2021	95	Tier 4 Final	300	0	0	10	Merced
G-97503-A1	**Back Hoe**	Diesel	2004	194	Tier 2	2020	96	Tier 4 Final	1100	0	0	10	Merced
C-62700-1-A1	Tomato Harvester	Diesel	1999	200	Tier 1	2021	225	Tier 4 Final	500	0	0	10	Stanislaus
G-107902-A1	Shaker	Diesel	1988	120	Tier 0	2021	174	Tier 4 Final	320	0	0	10	Kern
G-69595-A1	Wheel Loader	Diesel	2008	55	Tier 2	2020	68	Tier 4 Final	1500	0	0	10	Stanislaus
G-96740-A1	Shaker	Diesel	1988	104	Tier 0	2020	174	Tier 4 Final	700	0	0	10	Tulare
G-92243-A1	Nut Sweeper	Diesel	1990	80	Tier 0	2020	74	Tier 4 Final	150	0	0	10	Fresno

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Project #	Primary Function	Fuel Type	Baseline Yr	Old HP	Old Tier	New Eng Yr	New HP	New Tier	Annual Usage (Hours)	Annual Usage (Miles)	Annual Usage (Fuel)	Project Life (Yrs)	Location (County)
G-97067-A1	Agricultural Tractor	Diesel	1997	89	Tier 0	2020	71	Tier 4 Final	1000	0	0	10	Stanislaus
G-76815-A1	**Agricultural Tractor**	Diesel	1996	120	Tier 0	2021	114	Tier 4 Final	400	0	0	10	Kern
G-76818-A1	Agricultural Tractor	Diesel	1985	240	Tier 0	2021	114	Tier 4 Final	400	0	0	10	Kern
G-92727-A1	Wheel Loader	Diesel	2005	199	Tier 2	2021	183	Tier 4 Final	1850	0	0	10	Madera
G-94044-A1	Agricultural Tractor	Diesel	2000	98	Tier 1	2019	114	Tier 4 Final	212	0	0	10	Stanislaus
G-82737-A1	Nut Sweeper	Diesel	1990	80	Tier 0	2021	74	Tier 4 Final	150	0	0	10	Fresno
G-90190-A1	Chopper	Diesel	2005	660	Tier 2	2020	956	Tier 4 Final	840	0	0	10	Tulare
G-94251-A1	Agricultural Tractor	Diesel	1980	52	Tier 0	2020	67	Tier 4 Final	200	0	0	10	San Joaquin
G-94261-A1	Agricultural Tractor	Diesel	1988	95	Tier 0	2019	121	Tier 4 Final	200	0	0	10	San Joaquin
G-97603-A1	Skid Loader	Diesel	1999	48	Tier 1	2021	63	Tier 4 Final	320	0	0	10	Merced
G-79872-A1	Agricultural Tractor	Diesel	2003	105	Tier 2	2021	114	Tier 4 Final	1000	0	0	10	Madera
G-82714-A1	Wheel Loader	Diesel	2000	160	Tier 1	2019	230	Tier 4 Final	2500	0	0	10	Fresno
G-82791-A1	Wheel Loader	Diesel	2001	125	Tier 1	2021	164	Tier 4 Final	1500	0	0	10	Fresno
G-94826-A1	Agricultural Tractor	Diesel	1995	83	Tier 0	2020	100	Tier 4 Final	500	0	0	10	Kern
G-97518-A1	Nut Sweeper	Diesel	1995	80	Tier 0	2020	74	Tier 4 Final	350	0	0	10	Stanislaus
G-99196-A1	Agricultural Tractor	Diesel	1997	260	Tier 1	2021	250	Tier 4 Final	1000	0	0	10	Kern
C-58957-1-A1	Agricultural Tractor	Diesel	1996	216	Tier 1	2018	212	Tier 4 Final	1500	0	0	10	Tulare
G-101317-A1	Agricultural Tractor	Diesel	1967	47	Tier 0	2021	43	Tier 4 Final	350	0	0	10	Fresno
G-102284-A1	Shaker	Diesel	2003	156	Tier 2	2020	148	Tier 4 Final	355	0	0	10	Fresno
G-93898-A1	Agricultural Tractor	Diesel	2004	98	Tier 2	2021	114	Tier 4 Final	500	0	0	10	Stanislaus
G-93899-A1	Agricultural Tractor	Diesel	1997	81	Tier 0	2021	114	Tier 4 Final	500	0	0	10	Stanislaus
G-94065-A1	Agricultural Tractor	Diesel	1982	57	Tier 0	2021	73	Tier 4 Final	300	0	0	10	Stanislaus
G-98706-A1	Shaker	Diesel	2009	135	Tier 2	2019	148	Tier 4 Final	425	0	0	10	Fresno
G-97963-A1	Agricultural Tractor	Diesel	1979	132	Tier 0	2021	155	Tier 4 Final	600	0	0	10	Kern
G-97964-A1	Agricultural Tractor	Diesel	1980	132	Tier 0	2021	155	Tier 4 Final	600	0	0	10	Kern
G-66059-A1	Agricultural Tractor	Diesel	1985	130	Tier 0	2020	123	Tier 4 Final	800	0	0	10	Fresno
G-68335-A1	Nut Sweeper	Diesel	2001	80	Tier 1	2020	74	Tier 4 Final	350	0	0	10	Fresno
G-82927-A1	Forklift	Diesel	1982	65	Tier 0	2020	74	Tier 4 Final	200	0	0	10	Merced
G-95454-A1	Agricultural Tractor	Diesel	1991	80	Tier 0	2019	101	Tier 4 Final	100	0	0	10	San Joaquin

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Project #	Primary Function	Fuel Type	Baseline Yr	Old HP	Old Tier	New Eng Yr	New HP	New Tier	Annual Usage (Hours)	Annual Usage (Miles)	Annual Usage (Fuel)	Project Life (Yrs)	Location (County)
G-103433-A1	Agricultural Tractor	Diesel	1974	63	Tier 0	2021	63	Tier 4 Final	400	0	0	10	Stanislaus
G-90563-A1	Agricultural Tractor	Diesel	2006	95	Tier 2	2021	123	Tier 4 Final	600	0	0	10	Tulare
G-95160-A1	Back Hoe	Diesel	1997	124	Tier 1	2021	116	Tier 4 Final	800	0	0	10	Madera
G-83789-A1	Agricultural Tractor	Diesel	1960	130	Tier 0	2021	123	Tier 4 Final	250	0	0	10	Fresno
G-93767-A1	Back Hoe	Diesel	1978	59	Tier 0	2020	74	Tier 4 Final	300	0	0	10	Fresno
G-95452-A1	Nut Sweeper	Diesel	1997	80	Tier 0	2021	74	Tier 4 Final	600	0	0	10	Fresno
G-97096-A1	Agricultural Tractor	Diesel	1971	59	Tier 0	2021	73	Tier 4 Final	500	0	0	10	Merced
G-106891-A1	Agricultural Tractor	Diesel	1991	81	Tier 0	2020	123	Tier 4 Final	600	0	0	10	Tulare
G-65997-A1	Excavator	Diesel	1988	215	Tier 0	2019	273	Tier 4 Final	2000	0	0	10	Fresno
G-68243-A1	Agricultural Tractor	Diesel	1977	60	Tier 0	2020	99	Tier 4 Final	500	0	0	10	Fresno
G-98912-A1	Skid Loader	Diesel	1999	56	Tier 1	2019	74	Tier 4 Final	500	0	0	10	Kern
G-82130-A1	Agricultural Tractor	Diesel	2000	277	Tier 1	2021	410	Tier 4 Final	400	0	0	10	Merced
G-97468-A1	Nut Sweeper	Diesel	1996	41	Tier 0	2019	48	Tier 4 Final	600	0	0	10	Tulare
G-97627-A1	Agricultural Tractor	Diesel	1996	83	Tier 0	2020	90	Tier 4 Final	800	0	0	10	San Joaquin
G-99584-A1	Nut Sweeper	Diesel	2003	80	Tier 1	2021	74	Tier 4 Final	400	0	0	10	Kern
G-99585-A1	Nut Sweeper	Diesel	2003	84	Tier 1	2021	74	Tier 4 Final	400	0	0	10	Kern
G-99587-A1	Nut Sweeper	Diesel	2003	80	Tier 1	2021	74	Tier 4 Final	400	0	0	10	Kern
G-99921-A1	Nut Sweeper	Diesel	1996	41	Tier 0	2019	48	Tier 4 Final	600	0	0	10	Tulare
G-99922-A1	Nut Sweeper	Diesel	1996	41	Tier 0	2020	48	Tier 4 Final	600	0	0	10	Tulare
C-29943-1-A1	Agricultural Tractor	Diesel	1965	76	Tier 0	2019	114	Tier 4 Final	350	0	0	10	Stanislaus
G-101871-A1	Agricultural Tractor	Diesel	1975	84	Tier 0	2020	114	Tier 4 Final	2500	0	0	10	Kern
G-102173-A1	Agricultural Tractor	Diesel	1997	263	Tier 1	2021	270	Tier 4 Final	1500	0	0	10	Merced
G-80535-A1	Agricultural Tractor	Diesel	1976	97	Tier 0	2020	106	Tier 4 Phase In/Alt NOx	750	0	0	10	Tulare
G-80538-A1	Agricultural Tractor	Diesel	1975	69	Tier 0	2020	106	Tier 4 Phase In/Alt NOx	750	0	0	10	Tulare
G-90522-A1	Agricultural Tractor	Diesel	2004	125	Tier 2	2019	218	Tier 4 Final	350	0	0	10	Madera
G-91919-A1	Wheel Loader	Diesel	1990	110	Tier 0	2019	139	Tier 4 Final	600	0	0	10	Madera
G-87609-A1	Nut Sweeper	Diesel	1990	80	Tier 0	2021	74	Tier 4 Final	500	0	0	10	Tulare
G-94117-A1	**Agricultural Tractor**	Diesel	1989	89	Tier 0	2019	106	Tier 4 Final	300	0	0	10	Stanislaus
G-95162-A1	Back Hoe	Diesel	1987	69	Tier 0	2021	100	Tier 4 Final	500	0	0	10	Merced

Project Type Off-Road

Description Vehicle Replacement

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Project #	Primary Function	Fuel Type	Baseline Yr	Old HP	Old Tier	New Eng Yr	New HP	New Tier	Annual Usage (Hours)	Annual Usage (Miles)	Annual Usage (Fuel)	Project Life (Yrs)	Location (County)
G-97832-A1	Back Hoe	Diesel	1993	85	Tier 0	2020	90	Tier 4 Final	1100	0	0	10	Merced
G-104848-A1	Nut Sweeper	Diesel	2006	84	Tier 2	2021	74	Tier 4 Final	800	0	0	10	Kings
G-70168-A1	Agricultural Tractor	Diesel	1978	156	Tier 0	2020	123	Tier 4 Final	500	0	0	10	Fresno
G-70175-A1	Agricultural Tractor	Diesel	1990	375	Tier 0	2021	123	Tier 4 Final	500	0	0	10	Fresno
G-70177-A1	Agricultural Tractor	Diesel	1984	228	Tier 0	2020	123	Tier 4 Final	500	0	0	10	Fresno
G-78819-A1	Agricultural Tractor	Diesel	1972	76	Tier 0	2021	99	Tier 4 Final	250	0	0	10	Fresno
G-81756-A1	Agricultural Tractor	Diesel	1997	114	Tier 1	2020	123	Tier 4 Final	2000	0	0	10	Fresno
G-81758-A1	Agricultural Tractor	Diesel	2000	114	Tier 1	2020	123	Tier 4 Final	2000	0	0	10	Fresno
G-88182-A1	Chopper	Diesel	1995	525	Tier 2	2021	779	Tier 4 Final	875	0	0	10	Merced
G-88183-A1	Chopper	Diesel	1995	270	Tier 0	2020	912	Tier 4 Final	350	0	0	10	Merced
G-97325-A1	Agricultural Tractor	Diesel	1987	81	Tier 0	2019	98	Tier 4 Final	250	0	0	10	Fresno
G-98525-A1	Agricultural Tractor	Diesel	1962	49	Tier 0	2020	72	Tier 4 Final	300	0	0	10	Tulare
G-101976-A1	Shaker	Diesel	2007	115	Tier 1	2020	74	Tier 4 Final	300	0	0	10	Fresno
G-101997-A1	Bulk Carrier	Diesel	2001	115	Tier 1	2019	115	Tier 4 Final	300	0	0	10	Fresno
G-101999-A1	Harvester	Diesel	2007	115	Tier 1	2019	74	Tier 4 Final	300	0	0	10	Fresno
G-80932-A1	Agricultural Tractor	Diesel	1998	104	Tier 1	2020	123	Tier 4 Final	450	0	0	10	Fresno
G-83333-A1	Agricultural Tractor	Diesel	1975	84	Tier 0	2021	123	Tier 4 Final	250	0	0	10	Fresno
G-90510-A1	Agricultural Tractor	Diesel	2003	113	Tier 2	2021	123	Tier 4 Final	1000	0	0	10	Fresno
G-95399-A1	Agricultural Tractor	Diesel	1978	132	Tier 0	2021	114	Tier 4 Final	750	0	0	10	Madera
G-96903-A1	Agricultural Tractor	Diesel	1999	32	Tier 1	2020	35	Tier 4 Final	1000	0	0	10	Fresno
G-107143-A1	Excavator	Diesel	1999	228	Tier 1	2018	281	Tier 4 Final	600	0	0	10	Kern
G-100003-A1	Agricultural Tractor	Diesel	1961	54	Tier 0	2020	106	Tier 4 Phase In/Alt NOx	750	0	0	10	Fresno
G-81904-A1	Agricultural Tractor	Diesel	2002	272	Tier 1	2020	342	Tier 4 Final	500	0	0	10	Merced
G-95803-A1	Agricultural Tractor	Diesel	1985	37	Tier 0	2020	101	Tier 4 Final	500	0	0	10	Merced
G-98586-A1	Agricultural Tractor	Diesel	1973	69	Tier 0	2020	106	Tier 4 Phase In/Alt NOx	750	0	0	10	Fresno
G-100665-A1	Shaker	Diesel	1985	115	Tier 0	2019	148	Tier 4 Final	150	0	0	10	Fresno
G-91469-A1	Back Hoe	Diesel	2005	75	Tier 2	2021	100	Tier 4 Final	800	0	0	10	Madera
G-103969-A1	Agricultural Tractor	Diesel	1980	350	Tier 0	2021	570	Tier 4 Final	1200	0	0	10	San Joaquin
G-77118-A1	Agricultural Tractor	Diesel	1972	66	Tier 0	2021	114	Tier 4 Final	250	0	0	10	Fresno

Project Type Off-Road

Description Vehicle Replacement

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Project #	Primary Function	Fuel Type	Baseline Yr	Old HP	Old Tier	New Eng Yr	New HP	New Tier	Annual Usage (Hours)	Annual Usage (Miles)	Annual Usage (Fuel)	Project Life (Yrs)	Location (County)
G-88396-A1	Swathers	Diesel	2008	182	Tier 1	2021	260	Tier 4 Final	400	0	0	10	Fresno
G-91034-A1	Ag Siliage Bagger	Diesel	1999	475	Tier 1	2021	536	Tier 4 Final	500	0	0	10	Stanislaus
G-94835-A1	Back Hoe	Diesel	1998	95	Tier 1	2021	96	Tier 4 Final	1000	0	0	10	San Joaquin
G-98878-A1	Nut Sweeper	Diesel	2001	80	Tier 1	2021	74	Tier 4 Final	500	0	0	10	Kern
G-98879-A1	Nut Sweeper	Diesel	2001	80	Tier 1	2021	74	Tier 4 Final	500	0	0	10	Kern
G-98887-A1	Nut Sweeper	Diesel	2003	80	Tier 1	2021	74	Tier 4 Final	500	0	0	10	Kern
G-98534-A1	Agricultural Tractor	Diesel	1964	76	Tier 0	2021	106	Tier 4 Phase In/Alt NOx	500	0	0	10	Tulare
G-99582-A1	Back Hoe	Diesel	1990	62	Tier 0	2021	102	Tier 4 Final	1000	0	0	10	Merced
G-68046-A1	Agricultural Tractor	Diesel	2005	450	Tier 2	2021	626	Tier 4 Final	1000	0	0	10	Tulare
G-72858-A1	Agricultural Tractor	Diesel	2006	115	Tier 2	2021	145	Tier 4 Final	1100	0	0	10	Stanislaus
G-75786-A1	Wheel Loader	Diesel	2002	142	Tier 1	2021	152	Tier 4 Final	1500	0	0	10	San Joaquin
G-84267-A1	Shaker	Diesel	1988	120	Tier 0	2020	148	Tier 4 Final	250	0	0	10	Fresno
G-89131-A1	Agricultural Tractor	Diesel	1998	410	Tier 1	2020	540	Tier 4 Final	800	0	0	10	San Joaquin
G-91570-A1	Back Hoe	Diesel	1994	79	Tier 0	2021	100	Tier 4 Final	450	0	0	10	Stanislaus
G-97629-A1	Agricultural Tractor	Diesel	1998	89	Tier 1	2020	90	Tier 4 Final	800	0	0	10	San Joaquin
G-94759-A1	Almond Shaker	Diesel	2004	125	Tier 1	2020	148	Tier 4 Final	300	0	0	10	Stanislaus
G-103086-A1	Harvester	Diesel	1979	80	Tier 0	2021	121	Tier 4 Final	500	0	0	10	Tulare
G-103087-A1	Shaker	Diesel	1979	80	Tier 0	2021	148	Tier 4 Final	500	0	0	10	Tulare
G-93886-A1	Shaker	Diesel	1991	119	Tier 0	2021	174	Tier 4 Final	600	0	0	10	Stanislaus
G-84733-A1	Agricultural Tractor	Diesel	1977	97	Tier 0	2021	123	Tier 4 Final	400	0	0	10	Madera
G-94069-A1	Nut Sweeper	Diesel	1993	70	Tier 0	2019	74	Tier 4 Final	300	0	0	10	Stanislaus
G-97504-A1	Agricultural Tractor	Diesel	1991	300	Tier 0	2021	550	Tier 4 Final	1500	0	0	10	San Joaquin
G-99215-A1	Shaker	Diesel	2004	155	Tier 2	2020	148	Tier 4 Final	450	0	0	10	Fresno
G-99249-A1	Shaker	Diesel	2004	155	Tier 2	2020	148	Tier 4 Final	450	0	0	10	Fresno
G-90790-A1	Nut Sweeper	Diesel	1996	80	Tier 0	2019	74	Tier 4 Final	650	0	0	10	San Joaquin
G-102014-A1	Nut Sweeper	Diesel	1995	80	Tier 0	2020	74	Tier 4 Final	300	0	0	10	Fresno
G-102016-A1	Nut Sweeper	Diesel	1989	80	Tier 0	2020	74	Tier 4 Final	300	0	0	10	Fresno
G-102165-A1	Nut Sweeper	Diesel	1995	80	Tier 0	2020	74	Tier 4 Final	300	0	0	10	Fresno
G-104123-A1	Nut Sweeper	Diesel	2002	80	Tier 1	2020	74	Tier 4 Final	800	0	0	10	Stanislaus

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Description Vehicle Replacement

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Project #	Primary Function	Fuel Type	Baseline Yr	Old HP	Old Tier	New Eng Yr	New HP	New Tier	Annual Usage (Hours)	Annual Usage (Miles)	Annual Usage (Fuel)	Project Life (Yrs)	Location (County)
G-104124-A1	Nut Sweeper	Diesel	2004	84	Tier 2	2020	74	Tier 4 Final	800	0	0	10	Stanislaus
G-93726-A1	Windrower	Diesel	2003	115	Tier 1	2020	266	Tier 4 Final	500	0	0	10	Merced
G-93766-A1	Windrower	Diesel	2007	115	Tier 2	2020	266	Tier 4 Final	500	0	0	10	Merced
G-99040-A1	Skid Loader	Diesel	2003	52	Tier 1	2020	60	Tier 4 Final	200	0	0	10	Tulare
G-75973-A1	Agricultural Tractor	Diesel	1998	92	Tier 1	2021	125	Tier 4 Final	1500	0	0	10	Kern
G-78795-A1	Agricultural Tractor	Diesel	1980	84	Tier 0	2020	101	Tier 4 Final	80	0	0	10	Fresno
G-99211-A1	Nut Sweeper	Diesel	2005	80	Tier 1	2021	74	Tier 4 Final	250	0	0	10	Fresno
G-99212-A1	Nut Sweeper	Diesel	2005	80	Tier 1	2021	74	Tier 4 Final	250	0	0	10	Fresno
G-100136-A1	**Agricultural Tractor**	Diesel	1979	60	Tier 0	2020	106	Tier 4 Phase In/Alt NOx	400	0	0	10	Tulare
G-100923-A1	Nut Sweeper	Diesel	1998	80	Tier 0	2020	74	Tier 4 Final	800	0	0	10	Kern
G-106732-A1	Chopper	Diesel	2015	758	Tier 2	2021	956	Tier 4 Final	900	0	0	10	Stanislaus
G-106733-A1	Chopper	Diesel	2015	758	Tier 2	2021	956	Tier 4 Final	900	0	0	10	Stanislaus
G-66939-A1	Chopper	Diesel	2011	800	Tier 2	2021	956	Tier 4 Final	700	0	0	10	Stanislaus
G-80965-A1	Agricultural Tractor	Diesel	1974	94	Tier 0	2021	106	Tier 4 Final	300	0	0	10	Merced
G-89274-A1	Back Hoe	Diesel	1978	62	Tier 0	2020	109	Tier 4 Final	400	0	0	10	Merced
G-94776-A1	Nut Sweeper	Diesel	2004	80	Tier 1	2021	74	Tier 4 Final	450	0	0	10	Kings
G-98163-A1	Nut Sweeper	Diesel	1997	80	Tier 0	2021	74	Tier 4 Final	800	0	0	10	Kern
G-98164-A1	Nut Sweeper	Diesel	1997	80	Tier 0	2021	74	Tier 4 Final	800	0	0	10	Kern
G-100928-A1	Shaker	Diesel	2014	175	Tier 0	2020	148	Tier 4 Final	300	0	0	10	Fresno
G-100930-A1	Shaker	Diesel	2007	130	Tier 2	2020	148	Tier 4 Final	450	0	0	10	Fresno
G-102561-A1	Agricultural Tractor	Diesel	1986	66	Tier 0	2021	106	Tier 4 Final	200	0	0	10	Merced
G-75355-A1	Agricultural Tractor	Diesel	1983	69	Tier 0	2020	74	Tier 4 Final	300	0	0	10	Stanislaus
G-90214-A1	Agricultural Tractor	Diesel	1976	96	Tier 0	2019	106	Tier 4 Final	200	0	0	10	Fresno
G-100139-A1	Agricultural Tractor	Diesel	2003	52	Tier 1	2020	106	Tier 4 Phase In/Alt NOx	400	0	0	10	Tulare
G-108256-A1	Agricultural Tractor	Diesel	1988	97	Tier 0	2020	115	Tier 4 Final	600	0	0	10	Kern
G-108258-A1	Agricultural Tractor	Diesel	1989	95	Tier 0	2020	115	Tier 4 Final	600	0	0	10	Kern
G-108344-A1	Agricultural Tractor	Diesel	1978	280	Tier 0	2020	370	Tier 4 Final	350	0	0	10	Fresno
G-108829-A1	Agricultural Tractor	Diesel	1981	108	Tier 1	2021	123	Tier 4 Final	400	0	0	10	Fresno
G-109388-A1	Agricultural Tractor	Diesel	1990	234	Tier 0	2020	250	Tier 4 Final	823	0	0	10	Fresno

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Description Vehicle Replacement

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Project #	Primary Function	Fuel Type	Baseline Yr	Old HP	Old Tier	New Eng Yr	New HP	New Tier	Annual Usage (Hours)	Annual Usage (Miles)	Annual Usage (Fuel)	Project Life (Yrs)	Location (County)
G-109392-A1	Agricultural Tractor	Diesel	1991	109	Tier 0	2021	123	Tier 4 Final	413	0	0	10	Fresno
G-110264-A1	Shaker	Diesel	1983	104	Tier 0	2020	148	Tier 4 Final	493	0	0	10	Fresno
G-113314-A1	Shaker	Diesel	1988	121	Tier 0	2020	148	Tier 4 Final	518	0	0	10	Fresno
G-113315-A1	Nut Sweeper	Diesel	2003	60	Tier 1	2020	74	Tier 4 Final	385	0	0	10	Fresno
G-83286-A1	Almond Harvester	Diesel	1982	125	Tier 1	2019	174	Tier 4 Final	1000	0	0	10	Tulare
G-88247-A1	Agricultural Tractor	Diesel	1978	156	Tier 0	2021	135	Tier 4 Final	300	0	0	10	Tulare
G-89015-A1	Pistachio Catcher	Diesel	1982	70	Tier 0	2021	142	Tier 4 Final	1000	0	0	10	Tulare
G-98712-A1	Shaker	Diesel	1998	125	Tier 1	2020	139	Tier 4 Final	500	0	0	10	Tulare
G-98713-A1	Shaker	Diesel	1984	114	Tier 0	2020	139	Tier 4 Final	500	0	0	10	Tulare
G-98714-A1	Nut Sweeper	Diesel	1977	44	Tier 0	2020	74	Tier 4 Final	500	0	0	10	Tulare
G-98715-A1	Bulk Carrier	Diesel	2002	80	Tier 1	2020	142	Tier 4 Final	500	0	0	10	Tulare
G-100214-A1	Agricultural Tractor	Diesel	1960	61	Tier 0	2020	106	Tier 4 Phase In/Alt NOx	600	0	0	10	Tulare
G-68009-A1	Agricultural Tractor	Diesel	2007	95	Tier 2	2019	106	Tier 4 Phase In/Alt NOx	1000	0	0	10	Fresno
G-97400-A1	Agricultural Tractor	Diesel	1997	100	Tier 1	2021	123	Tier 4 Final	600	0	0	10	Fresno
G-97658-A1	Agricultural Tractor	Diesel	2006	98	Tier 2	2021	115	Tier 4 Final	400	0	0	10	Merced
G-96825-A1	Agricultural Tractor	Diesel	2003	254	Tier 2	2020	115	Tier 4 Final	1200	0	0	10	Kern
G-96871-A1	Agricultural Tractor	Diesel	2003	130	Tier 1	2021	175	Tier 4 Final	1000	0	0	10	San Joaquin
G-97955-A1	Agricultural Tractor	Diesel	1968	76	Tier 0	2020	72	Tier 4 Final	150	0	0	10	Stanislaus
G-98916-A1	Agricultural Tractor	Diesel	1985	80	Tier 0	2020	114	Tier 4 Final	300	0	0	10	Merced
G-106208-A1	Agricultural Tractor	Diesel	1999	114	Tier 1	2021	114	Tier 4 Final	400	0	0	10	Kern
G-112162-A1	Agricultural Tractor	Diesel	1995	150	Tier 0	2021	114	Tier 4 Final	500	0	0	10	Kern
G-87310-A1	Pistachio Harvester	Diesel	1994	80	Tier 0	2021	140	Tier 4 Final	250	0	0	10	Tulare
G-87914-A1	Pistachio Harvester	Diesel	1994	80	Tier 0	2021	140	Tier 4 Final	250	0	0	10	Tulare
G-108350-A1	Shaker	Diesel	2000	115	Tier 0	2021	74	Tier 4 Final	400	0	0	10	Kern
C-52315-1-A1	Agricultural Tractor	Diesel	2001	105	Tier 1	2021	43	Tier 4 Final	550	0	0	10	Fresno
C-52318-1-A1	Agricultural Tractor	Diesel	2003	119	Tier 2	2021	43	Tier 4 Final	450	0	0	10	Fresno
G-70956-A1	Agricultural Tractor	Diesel	1990	240	Tier 0	2021	195	Tier 4 Final	250	0	0	10	Merced
G-84114-A1	Agricultural Tractor	Diesel	1960	56	Tier 0	2021	74	Tier 4 Final	250	0	0	10	Fresno
G-93986-A1	Agricultural Tractor	Diesel	1977	45	Tier 0	2021	50	Tier 4 Final	400	0	0	10	Merced

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Description Vehicle Replacement

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Project #	Primary Function	Fuel Type	Baseline Yr	Old HP	Old Tier	New Eng Yr	New HP	New Tier	Annual Usage (Hours)	Annual Usage (Miles)	Annual Usage (Fuel)	Project Life (Yrs)	Location (County)
G-96864-A1	Agricultural Tractor	Diesel	2006	98	Tier 2	2020	99	Tier 4 Final	300	0	0	10	Tulare
G-73381-A1	Agricultural Tractor	Diesel	1971	115	Tier 0	2021	123	Tier 4 Final	600	0	0	10	Fresno
G-73382-A1	Agricultural Tractor	Diesel	2004	155	Tier 2	2021	123	Tier 4 Final	600	0	0	10	Fresno
G-95470-A1	Agricultural Tractor	Diesel	2004	260	Tier 2	2021	276	Tier 4 Final	900	0	0	10	Kings
G-97463-A1	Agricultural Tractor	Diesel	1974	180	Tier 0	2021	230	Tier 4 Final	500	0	0	10	Tulare
G-99916-A1	Shaker	Diesel	1995	120	Tier 0	2020	148	Tier 4 Final	600	0	0	10	Merced
G-105024-A1	Agricultural Tractor	Diesel	2005	92	Tier 2	2020	114	Tier 4 Final	600	0	0	10	San Joaquin
G-95695-A1	Forklift	Diesel	1987	55	Tier 0	2020	74	Tier 4 Final	400	0	0	10	Tulare
G-96977-A1	Nut Sweeper	Diesel	1978	60	Tier 0	2021	74	Tier 4 Final	200	0	0	**10**	Fresno
G-96978-A1	Nut Sweeper	Diesel	1977	60	Tier 0	2021	74	Tier 4 Final	200	0	0	**10**	Fresno
G-82139-A1	Forklift	Diesel	1984	52	Tier 0	2021	74	Tier 4 Final	500	0	0	10	Stanislaus
G-82151-A1	Forklift	Diesel	1997	78	Tier 0	2021	74	Tier 4 Final	500	0	0	10	Merced
G-82153-A1	Forklift	Diesel	1997	78	Tier 0	2021	74	Tier 4 Final	500	0	0	10	Merced
G-70214-A1	Agricultural Tractor	Diesel	1985	300	Tier 0	2021	626	Tier 4 Final	500	0	0	10	Merced
G-82496-A1	Agricultural Tractor	Diesel	2000	181	Tier 1	2021	155	Tier 4 Final	2500	0	0	10	Stanislaus
G-99108-A1	Agricultural Tractor	Diesel	1992	204	Tier 0	2019	550	Tier 4 Final	3000	0	0	10	Stanislaus
G-103102-A1	Agricultural Tractor	Diesel	1998	65	Tier 1	2021	71	Tier 4 Final	400	0	0	10	Kern
G-94140-A1	Skid Loader	Diesel	2003	75	Tier 1	2021	73	Tier 4 Final	1500	0	0	10	Merced
G-94984-A1	Agricultural Tractor	Diesel	2003	425	Tier 2	2020	464	Tier 4 Final	650	0	0	10	Merced
G-97408-A1	Back Hoe	Diesel	1975	62	Tier 0	2017	74	Tier 4 Final	350	0	0	10	Merced
G-98704-A1	Wheel Loader	Diesel	2006	201	Tier 2	2021	256	Tier 4 Final	1500	0	0	10	Tulare
G-108088-A1	Wheel Loader	Diesel	2002	125	Tier 1	2021	249	Tier 4 Final	878	0	0	10	Merced
G-74342-A1	Agricultural Tractor	Diesel	1994	46	Tier 0	2020	73	Tier 4 Final	500	0	0	10	Fresno
G-98635-A1	Wheel Loader	Diesel	1987	105	Tier 0	2020	164	Tier 4 Final	1400	0	0	10	Merced
C-25929-1-A1	Wheel Loader	Diesel	1999	160	Tier 1	2021	249	Tier 4 Final	1800	0	4680	10	Stanislaus
C-54118-1A	Wheel Loader	Diesel	1996	170	Tier 0	2021	164	Tier 4 Final	3500	0	0	10	Kern
G-101218-A1	Wheel Loader	Diesel	2000	271	Tier 1	2021	249	Tier 4 Final	1200	0	0	10	Tulare
G-103415-A1	Back Hoe	Diesel	1986	70	Tier 0	2021	92	Tier 4 Final	250	0	0	10	Kings
G-92857-A1	Wheel Loader	Diesel	1968	101	Tier 0	2021	192	Tier 4 Final	900	0	0	10	Stanislaus

Project Type Off-Road

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Project #	Primary Function	Fuel Type	Baseline Yr	Old HP	Old Tier	New Eng Yr	New HP	New Tier	Annual Usage (Hours)	Annual Usage (Miles)	Annual Usage (Fuel)	Project Life (Yrs)	Location (County)
G-95154-A1	Agricultural Tractor	Diesel	1999	99	Tier 1	2020	106	Tier 4 Phase In/Alt NOx	500	0	0	10	Fresno
G-95155-A1	Agricultural Tractor	Diesel	2002	92	Tier 1	2020	106	Tier 4 Phase In/Alt NOx	500	0	0	10	Fresno
G-95263-A1	Wheel Loader	Diesel	1977	115	Tier 0	2019	173	Tier 4 Final	1000	0	0	10	Merced
G-97055-A1	Agricultural Tractor	Diesel	1997	120	Tier 1	2020	114	Tier 4 Final	300	0	0	10	Fresno
G-101532-A1	Nut Sweeper	Diesel	1984	64	Tier 0	2020	74	Tier 4 Final	200	0	0	10	Fresno
G-82161-A1	Nut Sweeper	Diesel	2006	80	Tier 2	2020	74	Tier 4 Final	400	0	0	10	Stanislaus
G-82167-A1	Bulk Carrier	Diesel	2008	125	Tier 1	2020	148	Tier 4 Final	400	0	0	10	Stanislaus
G-82168-A1	Bulk Carrier	Diesel	2007	125	Tier 1	2020	148	Tier 4 Final	400	0	0	10	Stanislaus
G-82170-A1	Nut Sweeper	Diesel	2006	80	Tier 2	2020	74	Tier 4 Final	400	0	0	10	Stanislaus
C-64377-1-A1	Wheel Loader	Diesel	1986	120	Tier 0	2019	173	Tier 4 Final	750	0	0	10	Stanislaus
G-108775-A1	Forklift	Diesel	2003	81	Tier 1	2021	55	Tier 4 Final	1500	0	0	10	Fresno
G-96853-A1	Skid Loader	Diesel	2000	115	Tier 1	2021	95	Tier 4 Final	300	0	0	10	Stanislaus
G-100149-A1	Agricultural Tractor	Diesel	1979	38	Tier 0	2018	37	Tier 4 Final	500	0	0	10	Stanislaus
G-100151-A1	Agricultural Tractor	Diesel	1979	52	Tier 0	2018	37	Tier 4 Final	600	0	0	10	Stanislaus
G-100152-A1	Agricultural Tractor	Diesel	1979	80	Tier 0	2021	73	Tier 4 Final	500	0	0	10	Stanislaus
G-103982-A1	Agricultural Tractor	Diesel	1996	100	Tier 0	2021	114	Tier 4 Final	500	0	0	10	San Joaquin
G-95951-A1	Agricultural Tractor	Diesel	1977	84	Tier 0	2019	73	Tier 4 Final	1050	0	0	10	Stanislaus
G-96289-A1	Nut Sweeper	Diesel	2003	80	Tier 1	2021	74	Tier 4 Final	250	0	0	10	Madera
G-99603-A1	Agricultural Tractor	Diesel	2001	108	Tier 1	2021	106	Tier 4 Final	600	0	0	10	San Joaquin
G-99990-A1	Agricultural Tractor	Diesel	2006	75	Tier 2	2020	106	Tier 4 Final	300	0	0	10	Stanislaus
G-99991-A1	Agricultural Tractor	Diesel	1999	27	Tier 1	2018	37	Tier 4 Final	500	0	0	10	Stanislaus
G-93701-A1	Tree Hedger/Topper	Diesel	2002	215	Tier 1	2019	140	Tier 4 Final	500	0	0	10	Fresno
G-76773-A1	Forklift	Diesel	1998	75	Tier 1	2021	74	Tier 4 Final	500	0	0	10	Fresno
G-80922-A1	Agricultural Tractor	Diesel	1974	76	Tier 0	2020	114	Tier 4 Final	300	0	0	10	Stanislaus
G-91197-A1	Agricultural Tractor	Diesel	1988	88	Tier 0	2020	106	Tier 4 Phase In/Alt NOx	700	0	0	10	Fresno
G-95038-A1	**Agricultural Tractor**	Diesel	1989	88	Tier 0	2020	106	Tier 4 Phase In/Alt NOx	600	0	0	10	Fresno
G-99281-A1	Wheel Loader	Diesel	1981	112	Tier 0	2021	160	Tier 4 Final	600	0	0	10	Kern
G-99583-A1	Agricultural Tractor	Diesel	1961	71	Tier 0	2021	123	Tier 4 Final	500	0	0	10	Kern
G-101490-A1	**Agricultural Tractor**	Diesel	1979	73	Tier 0	2021	100	Tier 4 Final	400	0	0	**10**	Fresno

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Project #	Primary Function	Fuel Type	Baseline Yr	Old HP	Old Tier	New Eng Yr	New HP	New Tier	Annual Usage (Hours)	Annual Usage (Miles)	Annual Usage (Fuel)	Project Life (Yrs)	Location (County)
G-83787-A1	Agricultural Tractor	Diesel	1999	90	Tier 1	2021	123	Tier 4 Final	500	0	0	10	Merced
G-95850-A1	Agricultural Tractor	Diesel	1990	108	Tier 0	2019	173	Tier 4 Final	1500	0	0	10	Merced
G-100670-A1	Agricultural Tractor	Diesel	1996	156	Tier 0	2020	256	Tier 4 Final	400	0	0	10	Merced
G-81769-A1	Agricultural Tractor	Diesel	1995	110	Tier 0	2020	123	Tier 4 Final	250	0	0	10	Fresno
G-94266-A1	Forklift	Diesel	1966	42	Tier 0	2021	74	Tier 4 Final	200	0	0	10	Fresno
G-104720-A1	Agricultural Tractor	Diesel	2001	98	Tier 1	2019	100	Tier 4 Final	400	0	0	10	Tulare
G-69825-A1	Agricultural Tractor	Diesel	1976	72	Tier 0	2019	101	Tier 4 Final	230	0	0	10	Fresno
G-93794-A1	Agricultural Tractor	Diesel	2002	421	Tier 2	2021	470	Tier 4 Final	1000	0	0	10	Merced
G-106741-A1	Agricultural Tractor	Diesel	1998	89	Tier 1	2020	114	Tier 4 Final	500	0	0	10	Stanislaus
G-92640-A1	Nut Sweeper	Diesel	2002	80	Tier 1	2021	74	Tier 4 Final	350	0	0	10	Madera
G-92700-A1	Nut Sweeper	Diesel	2002	80	Tier 1	2021	74	Tier 4 Final	350	0	0	10	Madera
G-92705-A1	Nut Sweeper	Diesel	2005	80	Tier 2	2021	74	Tier 4 Final	350	0	0	10	Madera
G-99034-A1	Agricultural Tractor	Diesel	1997	132	Tier 1	2020	120	Tier 4 Final	500	0	0	10	Tulare
G-100433-A1	Excavator	Diesel	2006	138	Tier 2	2021	166	Tier 4 Final	1800	0	0	10	San Joaquin
G-100917-A1	Excavator	Diesel	1993	128	Tier 0	2021	166	Tier 4 Final	1800	0	0	10	San Joaquin
G-86371-A1	Crawler Tractor	Diesel	1962	93	Tier 0	2021	123	Tier 4 Final	550	0	0	10	San Joaquin
G-90543-A1	Shaker	Diesel	1996	120	Tier 0	2020	174	Tier 4 Final	500	0	0	10	Stanislaus
G-90545-A1	Shaker	Diesel	1996	120	Tier 0	2020	174	Tier 4 Final	500	0	0	10	Stanislaus
G-92639-A1	Nut Sweeper	Diesel	2002	80	Tier 1	2021	74	Tier 4 Final	350	0	0	10	Madera
G-92701-A1	Nut Sweeper	Diesel	2007	80	Tier 1	2021	74	Tier 4 Final	350	0	0	10	Madera
G-103472-A1	Agricultural Tractor	Diesel	1986	37	Tier 0	2021	99	Tier 4 Final	500	0	0	10	Madera
G-97334-A1	Agricultural Tractor	Diesel	1972	62	Tier 0	2021	73	Tier 4 Final	500	0	0	10	Merced
G-101709-A1	Agricultural Tractor	Diesel	1962	66	Tier 0	2021	123	Tier 4 Final	750	0	0	10	Merced
G-106038-A1	Windrower	Diesel	1997	108	Tier 1	2020	210	Tier 4 Final	400	0	0	10	Kern
G-93648-A1	Agricultural Tractor	Diesel	1981	132	Tier 0	2020	276	Tier 4 Final	1000	0	0	10	Merced
G-96849-A1	Agricultural Tractor	Diesel	2006	91	Tier 2	2019	106	Tier 4 Phase In/Alt NOx	1400	0	0	10	San Joaquin
G-97813-A1	Agricultural Tractor	Diesel	1978	69	Tier 0	2021	123	Tier 4 Final	350	0	0	10	Fresno
G-99401-A1	Agricultural Tractor	Diesel	2000	120	Tier 1	2021	140	Tier 4 Final	1500	0	0	10	Fresno
G-94046-A1	Wheel Loader	Diesel	1987	105	Tier 0	2018	109	Tier 4 Final	2000	0	0	10	Merced

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Project #	Primary Function	Fuel Type	Baseline Yr	Old HP	Old Tier	New Eng Yr	New HP	New Tier	Annual Usage (Hours)	Annual Usage (Miles)	Annual Usage (Fuel)	Project Life (Yrs)	Location (County)
G-95260-A1	Wheel Loader	Diesel	2005	177	Tier 2	2021	192	Tier 4 Final	1500	0	0	10	Madera
G-99061-A1	Agricultural Tractor	Diesel	1981	109	Tier 0	2020	114	Tier 4 Final	500	0	0	10	Kern
G-103109-A1	Agricultural Tractor	Diesel	2006	86	Tier 2	2021	114	Tier 4 Final	800	0	0	10	Stanislaus
G-103110-A1	Agricultural Tractor	Diesel	2007	86	Tier 2	2021	114	Tier 4 Final	800	0	0	10	Stanislaus
G-103332-A1	Agricultural Tractor	Diesel	1995	84	Tier 0	2021	114	Tier 4 Final	800	0	0	10	Stanislaus
G-103333-A1	Agricultural Tractor	Diesel	1981	60	Tier 0	2021	114	Tier 4 Final	800	0	0	10	Stanislaus
G-106091-A1	Wheel Loader	Diesel	2005	75	Tier 2	2021	99	Tier 4 Final	500	0	0	10	Tulare
G-82148-A1	Forklift	Diesel	1998	78	Tier 1	2021	74	Tier 4 Final	500	0	0	10	Merced
G-82154-A1	Forklift	Diesel	1998	78	Tier 1	2021	74	Tier 4 Final	500	0	0	10	Merced
G-82156-A1	Forklift	Diesel	1998	78	Tier 1	2021	74	Tier 4 Final	500	0	0	10	Merced
G-91147-A1	Agricultural Tractor	Diesel	1978	156	Tier 0	2021	114	Tier 4 Final	300	0	0	10	Fresno
G-95273-A1	Nut Sweeper	Diesel	1998	42	Tier 0	2021	74	Tier 4 Final	320	0	0	10	Fresno
G-107487-A1	Agricultural Tractor	Diesel	1998	89	Tier 1	2021	100	Tier 4 Final	800	0	0	10	San Joaquin
G-107489-A1	Agricultural Tractor	Diesel	1998	89	Tier 1	2021	100	Tier 4 Final	800	0	0	10	San Joaquin
G-107492-A1	Agricultural Tractor	Diesel	1996	83	Tier 0	2021	100	Tier 4 Final	800	0	0	10	San Joaquin
G-81820-A1	Agricultural Tractor	Diesel	2001	181	Tier 1	2021	155	Tier 4 Final	500	0	0	10	Stanislaus
G-92706-A1	Nut Sweeper	Diesel	2005	80	Tier 2	2021	74	Tier 4 Final	350	0	0	10	Madera
G-92708-A1	Nut Sweeper	Diesel	1999	80	Tier 2	2021	74	Tier 4 Final	350	0	0	10	Madera
G-92710-A1	Nut Sweeper	Diesel	2002	80	Tier 1	2021	74	Tier 4 Final	350	0	0	10	Madera
G-92712-A1	Nut Sweeper	Diesel	2002	80	Tier 2	2021	74	Tier 4 Final	350	0	0	10	Madera
G-110475-A1	Back Hoe	Diesel	1992	62	Tier 0	2020	92	Tier 4 Final	500	0	0	10	San Joaquin
G-76932-A1	Agricultural Tractor	Diesel	1987	88	Tier 0	2021	110	Tier 4 Final	500	0	0	10	Stanislaus
G-96321-A1	Agricultural Tractor	Diesel	1990	109	Tier 0	2021	123	Tier 4 Final	500	0	0	10	Fresno
G-100109-A1	Skid Loader	Diesel	2006	76	Tier 2	2021	73	Tier 4 Final	350	0	0	10	Kings
G-76844-A1	Agricultural Tractor	Diesel	1988	88	Tier 0	2021	123	Tier 4 Final	300	0	0	10	Stanislaus
G-103095-A1	Agricultural Tractor	Diesel	1998	36	Tier 1	2021	43	Tier 4 Final	1200	0	0	10	Kern
G-108257-A1	Agricultural Tractor	Diesel	1984	80	Tier 0	2020	115	Tier 4 Final	600	0	0	10	Kern
G-66873-A1	Wheel Loader	Diesel	1993	120	Tier 0	2021	168	Tier 4 Final	1200	0	0	10	Madera
G-73166-A1	**Agricultural Tractor**	Diesel	1970	76	Tier 0	2021	89	Tier 4 Final	65	0	0	10	Fresno

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Description Vehicle Replacement

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Project #	Primary Function	Fuel Type	Baseline Yr	Old HP	Old Tier	New Eng Yr	New HP	New Tier	Annual Usage (Hours)	Annual Usage (Miles)	Annual Usage (Fuel)	Project Life (Yrs)	Location (County)
G-88424-A1	Agricultural Tractor	Diesel	1963	49	Tier 0	2021	74	Tier 4 Final	300	0	0	10	Fresno
G-96848-A1	Agricultural Tractor	Diesel	2006	37	Tier 2	2020	33	Tier 4 Final	1200	0	0	10	San Joaquin
G-99882-A1	Agricultural Tractor	Diesel	1971	76	Tier 0	2017	80	Tier 4 Final	250	0	0	10	Madera
G-100662-A1	Excavator	Diesel	1981	141	Tier 0	2021	159	Tier 4 Final	800	0	0	10	San Joaquin
G-103089-A1	Wheel Loader	Diesel	1997	105	Tier 1	2021	152	Tier 4 Final	1200	0	0	10	Tulare
G-103931-A1	Nut Sweeper	Diesel	1996	80	Tier 0	2020	74	Tier 4 Final	350	0	0	10	Merced
G-87615-A1	Shaker	Diesel	1999	125	Tier 1	2020	139	Tier 4 Final	500	0	0	10	Madera
G-90794-A1	Nut Sweeper	Diesel	2003	80	Tier 1	2020	74	Tier 4 Final	450	0	0	10	Madera
G-95945-A1	Agricultural Tractor	Diesel	1971	63	Tier 0	2021	73	Tier 4 Final	500	0	0	10	Stanislaus
G-95949-A1	Skid Loader	Diesel	1990	48	Tier 0	2021	73	Tier 4 Final	300	0	0	10	Stanislaus
G-95952-A1	Agricultural Tractor	Diesel	1996	108	Tier 0	2019	114	Tier 4 Final	500	0	0	10	Stanislaus
G-95954-A1	Agricultural Tractor	Diesel	2000	108	Tier 1	2021	114	Tier 4 Final	500	0	0	10	Stanislaus
G-95955-A1	Agricultural Tractor	Diesel	1968	63	Tier 0	2021	73	Tier 4 Final	500	0	0	10	Stanislaus
G-95956-A1	Agricultural Tractor	Diesel	1971	63	Tier 0	2021	73	Tier 4 Final	500	0	0	10	Stanislaus
G-67341-A1	Agricultural Tractor	Diesel	1979	97	Tier 0	2021	114	Tier 4 Final	1000	0	0	10	Fresno
G-91648-A1	Chopper	Diesel	2016	800	Tier 2	2021	912	Tier 4 Final	750	0	0	10	Stanislaus
G-95489-A1	Agricultural Tractor	Diesel	1993	156	Tier 0	2021	123	Tier 4 Final	600	0	0	10	Fresno
G-88621-A1	Agricultural Tractor	Diesel	1998	120	Tier 1	2021	175	Tier 4 Final	700	0	0	10	Merced
G-96733-A1	Agricultural Tractor	Diesel	1980	30	Tier 0	2021	35	Tier 4 Final	400	0	0	10	Kern
G-97670-A1	Forklift	Diesel	1995	59	Tier 0	2021	74	Tier 4 Final	1000	0	0	10	Kern
G-108222-A1	Agricultural Tractor	Diesel	2006	91	Tier 2	2018	74	Tier 4 Final	500	0	0	10	Kern
G-103104-A1	Forklift	Diesel	1989	52	Tier 0	2021	74	Tier 4 Final	200	0	0	10	Tulare
G-73939-A1	Agricultural Tractor	Diesel	1966	78	Tier 0	2021	123	Tier 4 Final	1600	0	0	10	Kern
G-73940-A1	Agricultural Tractor	Diesel	1979	84	Tier 0	2021	123	Tier 4 Final	1600	0	0	10	Kern
G-73941-A1	Agricultural Tractor	Diesel	1980	98	Tier 0	2021	123	Tier 4 Final	1600	0	0	10	Kern
G-73943-A1	Agricultural Tractor	Diesel	1980	98	Tier 0	2021	123	Tier 4 Final	1600	0	0	10	Kern
G-75561-A1	Agricultural Tractor	Diesel	1966	115	Tier 0	2021	123	Tier 4 Final	1600	0	0	10	Kern
G-96298-A1	**Agricultural Tractor**	Diesel	1994	81	Tier 0	2021	93	Tier 4 Final	400	0	0	10	Fresno
G-108221-A1	Agricultural Tractor	Diesel	2006	91	Tier 2	2018	74	Tier 4 Final	500	0	0	10	Kern

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Project #	Primary Function	Fuel Type	Baseline Yr	Old HP	Old Tier	New Eng Yr	New HP	New Tier	Annual Usage (Hours)	Annual Usage (Miles)	Annual Usage (Fuel)	Project Life (Yrs)	Location (County)
G-101609-A1	Agricultural Tractor	Diesel	1979	60	Tier 0	2019	72	Tier 4 Final	200	0	0	10	Tulare
G-100457-A1	Agricultural Tractor	Diesel	2006	105	Tier 2	2021	114	Tier 4 Final	500	0	0	10	Stanislaus
G-102219-A1	Agricultural Tractor	Diesel	2003	96	Tier 1	2020	106	Tier 4 Phase In/Alt NOx	300	0	0	10	San Joaquin
G-102226-A1	Agricultural Tractor	Diesel	2006	68	Tier 2	2020	106	Tier 4 Phase In/Alt NOx	425	0	0	10	San Joaquin
G-105944-A1	Nut Sweeper	Diesel	2003	46	Tier 1	2020	74	Tier 4 Final	400	0	0	10	Stanislaus
G-107479-A1	Agricultural Tractor	Diesel	2005	91	Tier 2	2021	100	Tier 4 Final	800	0	0	10	San Joaquin
G-107486-A1	Agricultural Tractor	Diesel	2000	89	Tier 1	2021	100	Tier 4 Final	800	0	0	10	San Joaquin
G-107490-A1	Agricultural Tractor	Diesel	1998	89	Tier 1	2021	100	Tier 4 Final	800	0	0	10	San Joaquin
G-91912-A1	Agricultural Tractor	Diesel	2006	68	Tier 2	2021	99	Tier 4 Final	1200	0	0	10	Fresno
G-91918-A1	Agricultural Tractor	Diesel	2005	67	Tier 2	2021	99	Tier 4 Final	973	0	0	10	Fresno
G-98559-A1	Agricultural Tractor	Diesel	1982	70	Tier 0	2020	73	Tier 4 Final	800	0	0	10	Stanislaus
G-104512-A1	Agricultural Tractor	Diesel	1984	162	Tier 0	2021	123	Tier 4 Final	200	0	0	10	Merced
G-107478-A1	Agricultural Tractor	Diesel	2005	91	Tier 2	2021	100	Tier 4 Final	800	0	0	10	San Joaquin
G-107482-A1	Agricultural Tractor	Diesel	2006	91	Tier 2	2021	100	Tier 4 Final	800	0	0	10	San Joaquin
G-107485-A1	Agricultural Tractor	Diesel	2005	91	Tier 2	2021	100	Tier 4 Final	800	0	0	10	San Joaquin
G-95367-A1	Agricultural Tractor	Diesel	1965	110	Tier 0	2021	114	Tier 4 Final	360	0	0	10	Merced
G-95372-A1	Agricultural Tractor	Diesel	2004	86	Tier 2	2021	114	Tier 4 Final	355	0	0	10	Merced
G-97341-A1	Agricultural Tractor	Diesel	2005	99	Tier 2	2021	114	Tier 4 Final	500	0	0	10	Fresno
G-97366-A1	Agricultural Tractor	Diesel	1981	98	Tier 0	2021	114	Tier 4 Final	500	0	0	10	Fresno
G-98310-A1	Forklift	Diesel	1982	60	Tier 0	2021	74	Tier 4 Final	250	0	0	10	Kern
G-102471-A1	Agricultural Tractor	Diesel	1980	76	Tier 0	2020	115	Tier 4 Final	400	0	0	10	Kings
G-100660-A1	Wheel Loader	Diesel	2002	125	Tier 1	2021	184	Tier 4 Final	2800	0	0	10	Stanislaus
G-102580-A1	Agricultural Tractor	Diesel	1978	59	Tier 0	2021	73	Tier 4 Final	430	0	0	10	Merced
G-102582-A1	Agricultural Tractor	Diesel	1998	103	Tier 1	2021	114	Tier 4 Final	410	0	0	10	Merced
G-76854-A1	Agricultural Tractor	Diesel	1982	98	Tier 0	2021	110	Tier 4 Final	300	0	0	10	Stanislaus
G-76864-A1	Agricultural Tractor	Diesel	1995	270	Tier 0	2021	310	Tier 4 Final	500	0	0	10	Stanislaus
G-83623-A1	Almond Elevator	Diesel	2004	80	Tier 0	2020	74	Tier 4 Final	400	0	0	10	Stanislaus
G-93690-A1	Agricultural Tractor	Diesel	2005	258	Tier 2	2021	310	Tier 4 Final	1500	0	0	10	Fresno
G-94436-A1	Tree Hedger/Topper	Diesel	1969	115	Tier 0	2020	200	Tier 4 Final	600	0	0	10	Tulare

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Project #	Primary Function	Fuel Type	Baseline Yr	Old HP	Old Tier	New Eng Yr	New HP	New Tier	Annual Usage (Hours)	Annual Usage (Miles)	Annual Usage (Fuel)	Project Life (Yrs)	Location (County)
G-96322-A1	Agricultural Tractor	Diesel	1997	120	Tier 1	2020	155	Tier 4 Final	500	0	0	10	Fresno
G-99059-A1	Agricultural Tractor	Diesel	1979	375	Tier 0	2021	195	Tier 4 Final	750	0	0	10	Kern
G-76770-A1	Back Hoe	Diesel	1985	80	Tier 0	2021	100	Tier 4 Final	500	0	0	10	Fresno
G-98143-A1	Agricultural Tractor	Diesel	1981	126	Tier 0	2020	123	Tier 4 Final	438	0	0	10	Kings
G-103079-A1	Skid Loader	Diesel	2002	74	Tier 1	2021	73	Tier 4 Final	500	0	0	10	Kings
G-84098-A1	Agricultural Tractor	Diesel	1973	58	Tier 0	2020	73	Tier 4 Final	150	0	0	10	Fresno
G-91256-A1	Agricultural Tractor	Diesel	1982	132	Tier 0	2021	123	Tier 4 Final	300	0	0	10	Fresno
G-91453-A1	Agricultural Tractor	Diesel	1996	83	Tier 0	2021	67	Tier 4 Final	4000	0	0	10	Tulare
G-94703-A1	Agricultural Tractor	Diesel	2007	33	Tier 2	2021	33	Tier 4 Final	600	0	0	10	Stanislaus
G-99213-A1	Agricultural Tractor	Diesel	1994	62	Tier 0	2021	114	Tier 4 Final	900	0	0	10	Stanislaus
G-99214-A1	Agricultural Tractor	Diesel	1982	50	Tier 0	2021	114	Tier 4 Final	700	0	0	10	Stanislaus
G-94070-A1	Agricultural Tractor	Diesel	1995	93	Tier 0	2021	114	Tier 4 Final	500	0	0	10	Stanislaus
G-96851-A1	Back Hoe	Diesel	2005	95	Tier 2	2021	113	Tier 4 Final	500	0	0	10	San Joaquin
G-97856-A1	Agricultural Tractor	Diesel	1982	108	Tier 0	2021	135	Tier 4 Final	600	0	0	10	Kern
G-97874-A1	Agricultural Tractor	Diesel	1981	108	Tier 0	2021	135	Tier 4 Final	600	0	0	10	Kern
G-97960-A1	Agricultural Tractor	Diesel	1982	108	Tier 0	2021	135	Tier 4 Final	600	0	0	10	Kern
G-102214-A1	Agricultural Tractor	Diesel	2007	91	Tier 2	2021	106	Tier 4 Phase In/Alt NOx	450	0	0	10	San Joaquin
G-102220-A1	Agricultural Tractor	Diesel	2003	89	Tier 1	2021	106	Tier 4 Phase In/Alt NOx	300	0	0	10	San Joaquin
G-102520-A1	Skid Loader	Diesel	1997	72	Tier 0	2021	74	Tier 4 Final	520	0	0	10	Kings
G-73948-A1	Agricultural Tractor	Diesel	2002	316	Tier 2	2021	375	Tier 4 Final	1800	0	0	10	Kern
G-73952-A1	Agricultural Tractor	Diesel	2002	316	Tier 2	2021	375	Tier 4 Final	1800	0	0	10	Kern
G-73953-A1	Agricultural Tractor	Diesel	2003	316	Tier 2	2021	375	Tier 4 Final	1800	0	0	10	Kern
G-82771-A1	Agricultural Tractor	Diesel	2002	208	Tier 1	2021	282	Tier 4 Final	1500	0	0	10	Stanislaus
G-94837-A1	Wheel Loader	Diesel	1976	100	Tier 0	2021	68	Tier 4 Final	1000	0	0	10	Kings
G-97009-A1	Agricultural Tractor	Diesel	1975	84	Tier 0	2021	114	Tier 4 Final	250	0	0	10	Stanislaus
G-99029-A1	Wheel Loader	Diesel	1995	120	Tier 0	2021	163	Tier 4 Final	2000	0	0	10	Tulare
G-101190-A1	Agricultural Tractor	Diesel	2002	30	Tier 1	2019	40	Tier 4 Final	900	0	0	10	Kern
G-102267-A1	Agricultural Tractor	Diesel	2002	90	Tier 1	2021	121	Tier 4 Final	600	0	0	10	Kern
G-83328-A1	Agricultural Tractor	Diesel	2007	91	Tier 2	2021	142	Tier 4 Final	1000	0	0	10	Tulare

Project Type Off-Road

Description Vehicle Replacement

SJVAPCD Project Data 2022

Project #	Primary Function	Fuel Type	Baseline Yr	Old HP	Old Tier	New Eng Yr	New HP	New Tier	Annual Usage (Hours)	Annual Usage (Miles)	Annual Usage (Fuel)	Project Life (Yrs)	Location (County)
G-97044-A1	Agricultural Tractor	Diesel	1993	120	Tier 0	2021	151	Tier 4 Final	1200	0	0	10	Merced
G-99914-A1	Wheel Loader	Diesel	2003	125	Tier 2	2019	139	Tier 4 Final	800	0	0	10	Stanislaus
C-61449-1-A1	Speader	Diesel	1998	300	Tier 1	2021	409	Tier 4 Final	500	0	0	10	Madera
G-108828-A1	Shaker	Diesel	1984	104	Tier 0	2021	148	Tier 4 Final	505	0	0	10	Fresno
G-87262-A1	Agricultural Tractor	Diesel	1990	70	Tier 0	2021	64	Tier 4 Final	1400	0	0	10	Fresno
G-91910-A1	Wheel Loader	Diesel	1999	160	Tier 1	2021	230	Tier 4 Final	2500	0	0	10	Fresno
G-95395-A1	Wheel Loader	Diesel	1998	130	Tier 1	2021	166	Tier 4 Final	1500	0	0	10	San Joaquin
G-95858-A1	Wheel Loader	Diesel	1985	105	Tier 0	2021	183	Tier 4 Final	2500	0	0	10	Kern
G-96628-A1	Agricultural Tractor	Diesel	1975	50	Tier 0	2021	45	Tier 4 Final	175	0	0	10	Stanislaus
G-99022-A1	Wheel Loader	Diesel	1998	101	Tier 1	2019	139	Tier 4 Final	1200	0	0	10	Stanislaus
G-91504-A1	Skid Loader	Diesel	1996	50	Tier 0	2020	73	Tier 4 Final	300	0	0	10	Stanislaus
G-95141-A1	Agricultural Tractor	Diesel	1998	46	Tier 1	2021	59	Tier 4 Final	500	0	0	10	Fresno
G-92719-A1	Agricultural Tractor	Diesel	1982	98	Tier 0	2021	120	Tier 4 Final	500	0	0	10	Kern
G-92726-A1	Agricultural Tractor	Diesel	1984	102	Tier 0	2021	120	Tier 4 Final	500	0	0	10	Kern
G-94418-A1	Agricultural Tractor	Diesel	2006	92	Tier 2	2020	114	Tier 4 Final	400	0	0	10	Stanislaus
G-107493-A1	Agricultural Tractor	Diesel	1994	102	Tier 0	2020	130	Tier 4 Final	600	0	0	10	San Joaquin
G-73964-A1	Agricultural Tractor	Diesel	2003	512	Tier 2	2021	617	Tier 4 Final	1800	0	0	10	Kern
G-80924-A1	Agricultural Tractor	Diesel	1961	66	Tier 0	2021	114	Tier 4 Final	500	0	0	10	Madera
G-93774-A1	Agricultural Tractor	Diesel	1987	71	Tier 0	2021	73	Tier 4 Final	200	0	0	10	Merced
G-97117-A1	Agricultural Tractor	Diesel	1983	102	Tier 0	2021	114	Tier 4 Final	860	0	0	10	Merced
G-97394-A1	Agricultural Tractor	Diesel	1977	165	Tier 0	2021	195	Tier 4 Final	1000	0	0	10	San Joaquin
G-110848-A1	Shaker	Diesel	1981	104	Tier 0	2021	148	Tier 4 Final	518	0	0	10	Fresno
G-96649-A1	Forklift	Diesel	2008	80	Tier 2	2021	74	Tier 4 Final	500	0	0	10	Tulare
G-96091-A1	Agricultural Tractor	Diesel	1994	104	Tier 0	2021	123	Tier 4 Final	500	0	0	10	Fresno
G-100270-A1	Agricultural Tractor	Diesel	1973	151	Tier 0	2021	108	Tier 4 Final	150	0	0	10	Merced
G-107951-A1	Agricultural Tractor	Diesel	2004	99	Tier 2	2021	101	Tier 4 Final	800	0	0	10	Kern
G-103926-A1	Agricultural Tractor	Diesel	2000	100	Tier 1	2019	114	Tier 4 Final	1000	0	0	10	Fresno
G-103927-A1	Agricultural Tractor	Diesel	1999	100	Tier 1	2019	114	Tier 4 Final	1000	0	0	10	Fresno
G-67342-A1	Agricultural Tractor	Diesel	1963	66	Tier 0	2021	114	Tier 4 Final	1000	0	0	10	Fresno

Project Type Off-Road

Description Vehicle Replacement

SJVAPCD Project Data 2022

Project #	Primary Function	Fuel Type	Baseline Yr	Old HP	Old Tier	New Eng Yr	New HP	New Tier	Annual Usage (Hours)	Annual Usage (Miles)	Annual Usage (Fuel)	Project Life (Yrs)	Location (County)
G-77998-A1	Agricultural Tractor	Diesel	2004	174	Tier 2	2021	233	Tier 4 Final	925	0	0	10	Tulare
G-78717-A1	Agricultural Tractor	Diesel	1996	130	Tier 0	2021	213	Tier 4 Final	880	0	0	10	Tulare
G-94991-A1	Agricultural Tractor	Diesel	1997	81	Tier 0	2021	114	Tier 4 Final	1000	0	0	10	Fresno
G-94995-A1	Agricultural Tractor	Diesel	1991	81	Tier 0	2021	114	Tier 4 Final	1000	0	0	10	Fresno
G-95915-A1	Agricultural Tractor	Diesel	1998	91	Tier 1	2021	114	Tier 4 Final	1000	0	0	10	Fresno
G-94990-A1	Agricultural Tractor	Diesel	1997	81	Tier 0	2018	106	Tier 4 Final	1000	0	0	10	Fresno
G-96975-A1	Excavator	Diesel	2002	177	Tier 0	2021	188	Tier 4 Final	500	0	0	10	San Joaquin
G-102646-A1	Wheel Loader	Diesel	1992	118	Tier 0	2021	163	Tier 4 Final	1500	0	0	10	Stanislaus
G-93785-A1	Windrower	Diesel	2001	172	Tier 1	2020	266	Tier 4 Final	750	0	0	10	Madera
G-101293-A1	Agricultural Tractor	Diesel	2007	99	Tier 2	2021	114	Tier 4 Final	1440	0	0	10	Stanislaus
G-73946-A1	Agricultural Tractor	Diesel	2003	316	Tier 2	2021	375	Tier 4 Final	1800	0	0	10	Kern
G-106278-A1	Agricultural Tractor	Diesel	2007	89	Tier 2	2020	74	Tier 4 Final	500	0	0	10	San Joaquin
G-106975-A1	Agricultural Tractor	Diesel	1992	210	Tier 0	2021	250	Tier 4 Final	500	0	0	10	Kern
G-81864-A1	Agricultural Tractor	Diesel	1996	355	Tier 1	2021	370	Tier 4 Final	2500	0	0	10	Stanislaus
G-83334-A1	Agricultural Tractor	Diesel	1981	140	Tier 0	2021	155	Tier 4 Final	700	0	0	10	Fresno
G-96902-A1	Agricultural Tractor	Diesel	1985	425	Tier 1	2021	570	Tier 4 Final	700	0	0	10	Stanislaus
G-84876-A1	Agricultural Tractor	Diesel	1988	102	Tier 0	2020	106	Tier 4 Phase In/Alt NOx	300	0	0	10	Madera
C-63681-1-A1	Wheel Loader	Diesel	1984	120	Tier 0	2019	173	Tier 4 Final	800	0	0	10	Merced
G-102519-A1	Agricultural Tractor	Diesel	1992	127	Tier 0	2021	172	Tier 4 Final	500	0	0	10	Tulare
G-91621-A1	Agricultural Tractor	Diesel	1996	186	Tier 1	2021	175	Tier 4 Final	500	0	0	10	Madera
G-100663-A1	Agricultural Tractor	Diesel	1998	98	Tier 1	2020	106	Tier 4 Phase In/Alt NOx	300	0	0	10	Stanislaus
G-102323-A1	Agricultural Tractor	Diesel	2006	258	Tier 2	2021	311	Tier 4 Final	1000	0	0	10	Merced
G-90244-A1	Agricultural Tractor	Diesel	1995	120	Tier 0	2021	155	Tier 4 Final	1650	0	0	10	San Joaquin
G-90583-A1	Agricultural Tractor	Diesel	1979	97	Tier 0	2021	120	Tier 4 Final	800	0	0	10	Fresno
G-100459-A1	Wheel Loader	Diesel	1994	220	Tier 0	2019	225	Tier 4 Final	1800	0	0	10	San Joaquin
G-76928-A1	Agricultural Tractor	Diesel	2001	280	Tier 1	2021	310	Tier 4 Final	500	0	0	10	Stanislaus
G-94262-A1	Agricultural Tractor	Diesel	1964	114	Tier 0	2021	123	Tier 4 Final	300	0	0	10	Merced
G-98311-A1	Agricultural Tractor	Diesel	1980	186	Tier 0	2019	114	Tier 4 Final	300	0	0	10	Stanislaus
G-102631-A1	Agricultural Tractor	Diesel	2004	225	Tier 2	2021	218	Tier 4 Final	2555	0	0	10	Kings

Project Type Off-Road

Description Vehicle Replacement

SJVAPCD Project Data 2022

Project #	Primary Function	Fuel Type	Baseline Yr	Old HP	Old Tier	New Eng Yr	New HP	New Tier	Annual Usage (Hours)	Annual Usage (Miles)	Annual Usage (Fuel)	Project Life (Yrs)	Location (County)
G-106764-A1	Agricultural Tractor	Diesel	2006	113	Tier 2	2021	101	Tier 4 Final	800	0	0	10	Kern
G-90314-A1	Agricultural Tractor	Diesel	2006	52	Tier 2	2021	72	Tier 4 Final	970	0	0	10	Madera
G-97337-A1	Wheel Loader	Diesel	1993	140	Tier 0	2021	192	Tier 4 Final	2000	0	0	10	Stanislaus
G-97338-A1	Wheel Loader	Diesel	1993	170	Tier 0	2021	166	Tier 4 Final	2500	0	0	10	Stanislaus
G-97397-A1	Agricultural Tractor	Diesel	1991	186	Tier 0	2021	250	Tier 4 Final	1000	0	0	10	San Joaquin
G-100229-A1	Agricultural Tractor	Diesel	1996	216	Tier 1	2021	250	Tier 4 Final	500	0	0	10	Tulare
G-102630-A1	Agricultural Tractor	Diesel	2004	105	Tier 2	2019	141	Tier 4 Final	900	0	0	10	Tulare
G-96961-A1	Agricultural Tractor	Diesel	2004	305	Tier 2	2021	370	Tier 4 Final	650	0	0	10	Stanislaus
G-96963-A1	Agricultural Tractor	Diesel	2003	375	Tier 2	2020	515	Tier 4 Final	750	0	0	10	Stanislaus
G-91066-A1	Agricultural Tractor	Diesel	2004	86	Tier 2	2021	114	Tier 4 Final	210	0	0	10	Fresno
G-98600-A1	Agricultural Tractor	Diesel	1991	87	Tier 0	2018	101	Tier 4 Final	300	0	0	10	San Joaquin
G-101613-A1	Agricultural Tractor	Diesel	1974	97	Tier 0	2021	114	Tier 4 Final	900	0	0	10	Fresno
G-96334-A1	Agricultural Tractor	Diesel	1997	270	Tier 1	2020	320	Tier 4 Final	1100	0	0	10	San Joaquin
G-106153-A1	Wheel Loader	Diesel	2007	129	Tier 2	2021	163	Tier 4 Final	1500	0	0	10	San Joaquin
G-111620-A1	Agricultural Tractor	Diesel	1999	110	Tier 1	2021	125	Tier 4 Final	600	0	0	10	Fresno
G-111621-A1	Agricultural Tractor	Diesel	1999	110	Tier 1	2021	125	Tier 4 Final	600	0	0	10	Fresno
G-70258-A1	Agricultural Tractor	Diesel	1962	43	Tier 0	2021	73	Tier 4 Final	250	0	0	10	Fresno
G-100573-A1	Wheel Loader	Diesel	1976	65	Tier 0	2020	50	Tier 4 Final	500	0	0	10	Stanislaus
G-102273-A1	Agricultural Tractor	Diesel	1985	84	Tier 0	2021	123	Tier 4 Final	700	0	0	10	Tulare
G-102274-A1	Agricultural Tractor	Diesel	1985	84	Tier 0	2021	123	Tier 4 Final	700	0	0	10	Tulare
G-102275-A1	Agricultural Tractor	Diesel	1990	65	Tier 0	2021	123	Tier 4 Final	700	0	0	10	Tulare
G-100940-A1	Agricultural Tractor	Diesel	1987	228	Tier 0	2021	280	Tier 4 Final	500	0	0	10	Tulare
G-70666-A1	Skid Loader	Diesel	2004	75	Tier 2	2021	73	Tier 4 Final	1500	0	0	10	Stanislaus
G-87131-A1	Agricultural Tractor	Diesel	2002	283	Tier 1	2021	340	Tier 4 Final	700	0	0	10	Fresno
G-104129-A1	Agricultural Tractor	Diesel	1975	47	Tier 0	2020	53	Tier 4 Final	250	0	0	10	Merced
G-108636-A1	Agricultural Tractor	Diesel	1981	63	Tier 0	2021	101	Tier 4 Final	500	0	0	10	Tulare
G-108639-A1	Agricultural Tractor	Diesel	1981	97	Tier 0	2021	101	Tier 4 Final	500	0	0	10	Tulare
G-93787-A1	Windrower	Diesel	2003	115	Tier 1	2021	266	Tier 4 Final	750	0	0	10	Madera
G-98512-A1	Agricultural Tractor	Diesel	2006	51	Tier 2	2021	53	Tier 4 Final	500	0	0	10	Fresno

Project Type Off-Road

Description Vehicle Replacement

SJVAPCD Project Data 2022

Project #	Primary Function	Fuel Type	Baseline Yr	Old HP	Old Tier	New Eng Yr	New HP	New Tier	Annual Usage (Hours)	Annual Usage (Miles)	Annual Usage (Fuel)	Project Life (Yrs)	Location (County)
G-98513-A1	Agricultural Tractor	Diesel	2006	51	Tier 2	2021	53	Tier 4 Final	500	0	0	10	Fresno
G-91857-A1	Agricultural Tractor	Diesel	1989	180	Tier 0	2021	210	Tier 4 Final	1000	0	0	10	Madera
G-94754-A1	Wheel Loader	Diesel	1998	145	Tier 1	2021	188	Tier 4 Final	2900	0	0	10	Tulare
G-95142-A1	Agricultural Tractor	Diesel	1989	90	Tier 0	2021	99	Tier 4 Final	500	0	0	10	Stanislaus
G-107321-A1	Agricultural Tractor	Diesel	1984	90	Tier 0	2021	73	Tier 4 Final	450	0	0	10	San Joaquin
G-91318-A1	Wheel Loader	Diesel	1999	130	Tier 1	2021	166	Tier 4 Final	500	0	0	10	San Joaquin
G-96991-A1	Back Hoe	Diesel	1965	105	Tier 0	2021	113	Tier 4 Final	340	0	0	10	San Joaquin
G-99597-A1	Agricultural Tractor	Diesel	1997	270	Tier 1	2021	310	Tier 4 Final	1000	0	0	10	Kings
G-100332-A1	Wheel Loader	Diesel	1994	220	Tier 0	2020	362	Tier 4 Final	1800	0	0	10	San Joaquin
G-100336-A1	Wheel Loader	Diesel	1993	220	Tier 0	2020	268	Tier 4 Final	1800	0	0	10	San Joaquin
G-100429-A1	Wheel Loader	Diesel	1998	215	Tier 1	2020	362	Tier 4 Final	1800	0	0	10	San Joaquin
G-100431-A1	Wheel Loader	Diesel	1983	155	Tier 0	2020	268	Tier 4 Final	1800	0	0	10	San Joaquin
G-101531-A1	**Agricultural Tractor**	Diesel	1983	168	Tier 0	2021	250	Tier 4 Final	1000	0	0	10	Tulare
G-105857-A1	Agricultural Tractor	Diesel	1976	60	Tier 0	2020	106	Tier 4 Final	80	0	0	10	San Joaquin
G-109328-A1	Agricultural Tractor	Diesel	1997	68	Tier 0	2021	100	Tier 4 Final	500	0	0	10	Kern
G-109331-A1	Agricultural Tractor	Diesel	2003	98	Tier 2	2021	100	Tier 4 Final	500	0	0	10	Kern
G-111311-A1	Agricultural Tractor	Diesel	1970	76	Tier 0	2021	65	Tier 4 Final	250	0	0	10	Merced
G-100131-A1	Agricultural Tractor	Diesel	1986	72	Tier 0	2021	114	Tier 4 Final	450	0	0	10	Tulare
G-107125-A1	Agricultural Tractor	Diesel	2001	85	Tier 1	2021	123	Tier 4 Final	450	0	0	10	Tulare
G-96893-A1	Agricultural Tractor	Diesel	1968	76	Tier 0	2021	73	Tier 4 Final	200	0	0	10	Merced
G-102629-A1	Agricultural Tractor	Diesel	1999	48	Tier 1	2021	45	Tier 4 Final	730	0	0	10	Tulare
G-107118-A1	Wheel Loader	Diesel	1998	130	Tier 1	2021	164	Tier 4 Final	900	0	0	10	Kern
G-107848-A1	Wheel Loader	Diesel	1985	250	Tier 1	2021	295	Tier 4 Final	1100	0	0	10	Kern
G-107236-A1	Agricultural Tractor	Diesel	2005	87	Tier 2	2021	106	Tier 4 Phase In/Alt NOx	900	0	0	10	Tulare
G-112671-A1	Back Hoe	Diesel	1987	69	Tier 0	2021	90	Tier 4 Final	1250	0	0	10	Tulare
G-83301-A1	Agricultural Tractor	Diesel	1986	82	Tier 0	2021	106	Tier 4 Final	500	0	0	10	Merced
G-101536-A1	Agricultural Tractor	Diesel	2000	92	Tier 1	2021	73	Tier 4 Final	800	0	0	10	Fresno
G-107323-A1	Agricultural Tractor	Diesel	1988	96	Tier 0	2021	114	Tier 4 Final	700	0	0	10	San Joaquin
G-105861-A1	Agricultural Tractor	Diesel	1961	71	Tier 0	2021	114	Tier 4 Final	400	0	0	10	Kern

Project Type Off-Road

SJVAPCD Project Data 2022

Description Vehicle Replacement

Project #	Primary Function	Fuel Type	Baseline Yr	Old HP	Old Tier	New Eng Yr	New HP	New Tier	Annual Usage (Hours)	Annual Usage (Miles)	Annual Usage (Fuel)	Project Life (Yrs)	Location (County)
G-105862-A1	Agricultural Tractor	Diesel	1961	66	Tier 0	2021	114	Tier 4 Final	400	0	0	10	Kern
G-105724-A1	Wheel Loader	Diesel	1985	95	Tier 0	2021	100	Tier 4 Final	480	0	0	10	Merced
G-106127-A1	Agricultural Tractor	Diesel	1974	76	Tier 0	2020	106	Tier 4 Phase In/Alt NOx	400	0	0	10	Tulare
G-106128-A1	Agricultural Tractor	Diesel	1970	47	Tier 0	2019	64	Tier 4 Final	400	0	0	10	Tulare
G-106130-A1	Agricultural Tractor	Diesel	1962	46	Tier 0	2019	64	Tier 4 Final	400	0	0	10	Tulare
G-106131-A1	Agricultural Tractor	Diesel	1972	76	Tier 0	2020	106	Tier 4 Phase In/Alt NOx	400	0	0	10	Tulare
G-67621-A1	Wheel Loader	Diesel	1980	100	Tier 0	2020	63	Tier 4 Final	1100	0	0	10	Stanislaus
G-104825-A1	Agricultural Tractor	Diesel	1990	144	Tier 0	2021	155	Tier 4 Final	400	0	0	10	Kings

Project Type Off-Road

SJVAPCD Project Data 2022

Description Engine Repower

Project #	Primary Function	Fuel Type	Baseline Yr	Old HP	Old Tier	New Eng Yr	New HP	New Tier	Annual Usage	Annual Usage (Miles)	Annual Usage (Fuel)	Project Life (Yrs)	Location (County)
G-103304-A1	Crane	Diesel	1995	250	Tier 0	2019	275	Tier 4 Final	1000	0	25000	7	Fresno
G-82119-A1	Other Agricultural	Diesel	1990	520	Tier 0	2010	530	Tier 3	1000	0	0	7	Merced

Project Type Ag Engine

Description Diesel to Diesel

SJVAPCD Project Data 2022

Project #	Primary Function	Fuel Type	Baseline Yr	Old HP	Old Tier	New Eng Yr	New HP	New Tier	Annual Usage	Annual Usage	Annual Usage (Fuel)	Project Life (Yrs)	Location (County)
C-58717-1-A1	Irrigation Pump	Diesel	2010	173	Tier 3	2020	174	Tier 4 Final	2500	0	0	7	Fresno

Project Type Yard Truck

Description Replacement

SJVAPCD Project Data 2022

Project #	Primary Function	Fuel Type	Baseline Yr	Old HP	Old Tier	New Eng Yr	New HP	New Tier	Annual Usage	Annual Usage	Annual Usage (Fuel)	Project Life (Yrs)	Location (County)
G-91329-A1	Agricultural	Diesel	2000	240	-	2020	-	-	0	14962	1463	5	Madera

Project Type On-Road VIP

Description Replacement

SJVAPCD Project Data 2022

Project #	Primary Function	Fuel Type	Baseline Yr	Old HP	Old Tier	New Eng Yr	New HP	New Tier	Annual Usage	Annual Usage	Annual Usage (Fuel)	Project Life (Yrs)	Location (County)
G-122418-A1	On-Road	Diesel	2008	410	-	2014	500	-	0	49954	0	3	San Joaquin

Project Type Prop 1B

SJVAPCD Project Data 2022

Description Locomotive Replacement

Project #	Primary Function	Fuel Type	Baseline Yr	Old HP	Old Tier	New Eng Yr	New HP	New Tier	Annual Usage	Annual Usage (Miles)	Annual Usage (Fuel)	Project Life (Yrs)	Location (County)
C-56765-1-A	Line Haul	Diesel	2005	4400	Tier 2	2020	4400	Tier 4 Final	0	0	173785	15	Fresno

Project Type On-Road

Description Ag Truck Replacement

SJVAPCD Project Data 2022

Project #	Primary Function	Fuel Type	Baseline Yr	Old HP	Old Tier	New Eng Yr	New HP	New Tier	Annual Usage	Annual Usage	Annual Usage (Fuel)	Project Life (Yrs)	Location (County)
G-72110-A1	Agricultural	Diesel	2005	385	-	2020	450	-	0	10000	0	3	San Joaquin
G-72113-A1	Agricultural	Diesel	1996	220	-	2020	350	-	0	10000	0	3	San Joaquin
G-72912-A1	Agricultural	Diesel	2001	435	-	2020	450	-	0	7906	0	3	Kings
G-72408-A1	Agricultural	Diesel	1987	444	-	2020	450	-	0	256	0	3	Kings
G-72911-A1	Agricultural	Diesel	1994	350	-	2020	450	-	0	6930	0	3	Kings
G-72073-A1	Agricultural	Diesel	1989	425	-	2020	565	-	0	3166	0	3	San Joaquin
G-71151-A1	Agricultural	Diesel	2002	250	-	2021	330	-	0	7821	0	3	Tulare
G-71152-A1	Agricultural	Diesel	2004	325	-	2021	330	-	0	5662	0	3	Tulare

Project Type Off-Road

Description Ag UTV Replacement

SJVAPCD Project Data 2022

Project #	Primary Function	Fuel Type	Baseline Yr	Old HP	Old Tier	New Eng Yr	New HP	New Tier	Annual Usage	Annual Usage	Annual Usage (Fuel)	Project Life (Yrs)	Location (County)
G-76363-A1	Ag UTV	Gasoline	2006	49	Control Technology	-	6	-	200	0	0	5	Tulare
G-80039-A1	Ag UTV	Gasoline	1986	16	Uncontrolled Technology	-	36	-	700	0	0	5	Kern
G-81280-A1	Ag UTV	Gasoline	2007	28	Control Technology	-	35	-	500	0	0	5	Fresno
G-98189-A1	Ag UTV	Gasoline	2000	30	Uncontrolled Technology	-	35	-	70	0	0	5	Madera
G-80322-A1	Ag UTV	Gasoline	1983	16	Uncontrolled Technology	-	30	-	300	0	0	5	Kings
G-81281-A1	Ag UTV	Gasoline	2017	28	Control Technology	-	35	-	500	0	0	5	Fresno
G-98021-A1	Ag UTV	Gasoline	1985	8	Uncontrolled Technology	-	35	-	40	0	0	5	Tulare
G-81987-A1	Ag UTV	Gasoline	1989	23	Uncontrolled Technology	-	6	-	600	0	0	5	Madera
G-81734-A1	Ag UTV	Gasoline	1970	12	Uncontrolled Technology	-	38	-	150	0	0	5	Tulare
G-81052-A1	Ag UTV	Gasoline	2006	20	Control Technology	-	36	-	1500	0	0	5	San Joaquin
G-77366-A1	Ag UTV	Gasoline	2000	7	Uncontrolled Technology	-	30	-	925	0	0	5	Tulare
G-83423-A1	Ag UTV	Diesel	2004	20	Tier 2	-	22	-	250	0	0	5	Kings
G-82914-A1	Ag UTV	Gasoline	2003	18	Uncontrolled Technology	-	30	-	540	0	0	5	Merced
G-79509-A1	Ag UTV	Diesel	2007	22	Tier 2	-	22	-	500	0	0	5	Stanislaus
G-80047-A1	Ag UTV	Gasoline	2003	41	Uncontrolled Technology	-	6	-	250	0	0	5	Fresno
G-75295-A1	Ag UTV	Gasoline	2008	21	Control Technology	-	6	-	200	0	0	5	Fresno
G-79924-A1	Ag UTV	Gasoline	2012	27	Control Technology	-	6	-	1500	0	0	5	Kern
G-80481-A1	Ag UTV	Gasoline	2008	10	Control Technology	-	6	-	250	0	0	5	Stanislaus
G-80482-A1	Ag UTV	Gasoline	1985	8	Uncontrolled Technology	-	6	-	250	0	0	5	Stanislaus
G-83189-A1	Ag UTV	Diesel	2010	22	Tier 4 Final	-	35	-	2500	0	0	5	Kern
G-98493-A1	Ag UTV	Gasoline	2000	10	Uncontrolled Technology	-	6	-	500	0	0	5	San Joaquin
G-81456-A1	Ag UTV	Diesel	2013	24	Tier 4 Final	-	6	-	1000	0	0	5	Madera
G-81458-A1	Ag UTV	Diesel	2013	24	Tier 4 Final	-	6	-	1000	0	0	5	Madera
G-81504-A1	Ag UTV	Gasoline	1999	15	Uncontrolled Technology	-	35	-	1000	0	0	5	San Joaquin
G-83632-A1	Ag UTV	Gasoline	2002	33	Uncontrolled Technology	-	17	-	300	0	0	5	Kings
G-81865-A1	Ag UTV	Gasoline	2004	33	Control Technology	-	35	-	400	0	0	5	Fresno
G-83108-A1	Ag UTV	Gasoline	2012	13	Control Technology	-	30	-	800	0	0	5	Fresno
G-83114-A1	Ag UTV	Gasoline	2013	15	Control Technology	-	30	-	800	0	0	5	Fresno
G-83119-A1	Ag UTV	Gasoline	2013	13	Control Technology	-	30	-	800	0	0	5	Fresno
G-97951-A1	Ag UTV	Gasoline	1985	39	Uncontrolled Technology	-	30	-	250	0	0	5	Merced
G-82012-A1	Ag UTV	Gasoline	2000	15	Uncontrolled Technology	-	35	-	325	0	0	5	San Joaquin

Project Type Off-Road

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SJVAPCD Project Data 2022

Project #	Primary Function	Fuel Type	Baseline Yr	Old HP	Old Tier	New Eng Yr	New HP	New Tier	Annual Usage	Annual Usage	Annual Usage (Fuel)	Project Life (Yrs)	Location (County)
G-80361-A1	Ag UTV	Gasoline	1999	10	Uncontrolled Technology	-	6	-	250	0	0	5	Fresno
G-80754-A1	Ag UTV	Gasoline	2001	28	Uncontrolled Technology	-	6	-	250	0	0	5	Madera
G-82667-A1	Ag UTV	Gasoline	2010	19	Control Technology	-	35	-	400	0	0	5	Stanislaus
G-81252-A1	Ag UTV	Gasoline	2000	33	Uncontrolled Technology	-	35	-	200	0	0	5	San Joaquin
G-80092-A1	Ag UTV	Gasoline	2003	13	Uncontrolled Technology	-	6	-	600	0	0	5	Fresno
G-83202-A1	Ag UTV	Gasoline	2006	53	Control Technology	-	30	-	200	0	0	5	Merced
G-83203-A1	Ag UTV	Diesel	1996	19	Tier 0	-	35	-	100	0	0	5	Merced
G-83635-A1	Ag UTV	Gasoline	2000	22	Uncontrolled Technology	-	35	-	400	0	0	5	Merced
G-81061-A1	Ag UTV	Gasoline	1996	8	Uncontrolled Technology	-	6	-	250	0	0	5	Madera
G-83096-A1	Ag UTV	Gasoline	2011	15	Control Technology	-	36	-	1100	0	0	5	Tulare
G-82717-A1	Ag UTV	Gasoline	2000	21	Uncontrolled Technology	-	7	-	650	0	0	5	Kern
G-98049-A1	Ag UTV	Gasoline	1990	17	Uncontrolled Technology	-	7	-	750	0	0	5	Kern
G-81495-A1	Ag UTV	Gasoline	2007	22	Control Technology	-	38	-	350	0	0	5	Kern
G-81518-A1	Ag UTV	Gasoline	2004	15	Control Technology	-	7	-	600	0	0	5	Kern
G-82176-A1	Ag UTV	Diesel	2007	23	Tier 2	-	35	-	1800	0	0	5	Fresno
G-82399-A1	Ag UTV	Gasoline	2012	20	Control Technology	-	30	-	476	0	0	5	Stanislaus
G-83505-A1	Ag UTV	Gasoline	2007	16	Control Technology	-	30	-	1000	0	0	5	Stanislaus
G-83506-A1	Ag UTV	Gasoline	2001	36	Uncontrolled Technology	-	30	-	1000	0	0	5	Stanislaus
G-83507-A1	Ag UTV	Gasoline	2007	16	Control Technology	-	30	-	1000	0	0	5	Stanislaus
G-80478-A1	Ag UTV	Gasoline	1986	17	Uncontrolled Technology	-	6	-	500	0	0	5	Merced
G-81007-A1	Ag UTV	Gasoline	2005	8	Control Technology	-	30	-	600	0	0	5	Kings
G-81100-A1	Ag UTV	Gasoline	2007	15	Control Technology	-	35	-	250	0	0	5	Fresno
G-97402-A1	Ag UTV	Gasoline	2010	18	Control Technology	-	30	-	320	0	0	5	Fresno
G-80682-A1	Ag UTV	Gasoline	2008	33	Control Technology	-	30	-	400	0	0	5	Stanislaus
G-83190-A1	Ag UTV	Gasoline	1985	16	Uncontrolled Technology	-	38	-	400	0	0	5	Stanislaus
G-81181-A1	Ag UTV	Gasoline	2006	15	Control Technology	-	30	-	1000	0	0	5	San Joaquin
G-79514-A1	Ag UTV	Gasoline	1998	30	Uncontrolled Technology	-	22	-	800	0	0	5	Kern
G-80796-A1	Ag UTV	Gasoline	1998	17	Uncontrolled Technology	-	7	-	100	0	0	5	Fresno
G-83452-A1	Ag UTV	Gasoline	1985	8	Uncontrolled Technology	-	30	-	823	0	0	5	Merced
G-83964-A1	Ag UTV	Gasoline	2004	16	Control Technology	-	35	-	2160	0	0	5	Fresno

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SJVAPCD Project Data 2022

Project #	Primary Function	Fuel Type	Baseline Yr	Old HP	Old Tier	New Eng Yr	New HP	New Tier	Annual Usage	Annual Usage	Annual Usage (Fuel)	Project Life (Yrs)	Location (County)
G-81400-A1	Ag UTV	Diesel	2005	22	Tier 2	-	35	-	500	0	0	5	Tulare
G-79638-A1	Ag UTV	Gasoline	1992	5	Uncontrolled Technology	-	30	-	300	0	0	5	San Joaquin
G-80728-A1	Ag UTV	Gasoline	2004	10	Control Technology	-	4	-	300	0	0	5	San Joaquin
G-80778-A1	Ag UTV	Gasoline	2008	32	Control Technology	-	35	-	300	0	0	5	Kings
G-81246-A1	Ag UTV	Gasoline	2005	26	Control Technology	-	36	-	300	0	0	5	Stanislaus
G-80389-A1	Ag UTV	Gasoline	2003	24	Uncontrolled Technology	-	30	-	500	0	0	5	Tulare
G-81468-A1	Ag UTV	Gasoline	2005	41	Control Technology	-	6	-	500	0	0	5	Stanislaus
G-98046-A1	Ag UTV	Gasoline	2015	32	Control Technology	-	30	-	750	0	0	5	Kings
G-98249-A1	Ag UTV	Gasoline	2010	50	Control Technology	-	6	-	600	0	0	5	Fresno
G-98250-A1	Ag UTV	Gasoline	1990	17	Uncontrolled Technology	-	6	-	600	0	0	5	Fresno
G-98251-A1	Ag UTV	Gasoline	2006	16	Uncontrolled Technology	-	6	-	600	0	0	5	Fresno
G-98265-A1	Ag UTV	Gasoline	1980	9	Uncontrolled Technology	-	35	-	1800	0	0	5	Stanislaus
G-98863-A1	Ag UTV	Gasoline	2015	32	Control Technology	-	30	-	750	0	0	5	Kings
G-79938-A1	Ag UTV	Gasoline	1998	40	Uncontrolled Technology	-	30	-	200	0	0	5	Stanislaus
G-82397-A1	Ag UTV	Gasoline	1979	7	Uncontrolled Technology	-	30	-	400	0	0	5	Tulare
G-81472-A1	Ag UTV	Diesel	2006	22	Tier 2	-	35	-	780	0	0	5	Kern
G-81186-A1	Ag UTV	Gasoline	1973	16	Uncontrolled Technology	-	35	-	100	0	0	5	San Joaquin
G-82514-A1	Ag UTV	Gasoline	2006	30	Control Technology	-	35	-	500	0	0	5	Fresno
G-81568-A1	Ag UTV	Gasoline	2005	32	Control Technology	-	40	-	1200	0	0	5	Tulare
G-83384-A1	Ag UTV	Gasoline	1997	15	Uncontrolled Technology	-	30	-	1500	0	0	5	San Joaquin
G-80043-A1	Ag UTV	Gasoline	2008	32	Control Technology	-	30	-	203	0	0	5	Tulare
G-80350-A1	Ag UTV	Gasoline	1982	16	Uncontrolled Technology	-	30	-	2600	0	0	5	Kern
G-81970-A1	Ag UTV	Gasoline	2005	8	Control Technology	-	6	-	350	0	0	5	Madera
G-79118-A1	Ag UTV	Gasoline	2001	19	Uncontrolled Technology	-	23	-	300	0	0	5	Merced
G-79151-A1	Ag UTV	Gasoline	2005	23	Control Technology	-	23	-	300	0	0	5	Merced
G-98241-A1	Ag UTV	Gasoline	2006	10	Control Technology	-	35	-	600	0	0	5	Fresno
G-98244-A1	Ag UTV	Gasoline	2014	33	Control Technology	-	35	-	600	0	0	5	Fresno
G-82626-A1	Ag UTV	Gasoline	2002	22	Uncontrolled Technology	-	30	-	200	0	0	5	Fresno
G-81966-A1	Ag UTV	Gasoline	2010	15	Control Technology	-	40	-	600	0	0	5	San Joaquin
G-82400-A1	Ag UTV	Gasoline	2002	33	Uncontrolled Technology	-	35	-	1000	0	0	5	Tulare

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Project #	Primary Function	Fuel Type	Baseline Yr	Old HP	Old Tier	New Eng Yr	New HP	New Tier	Annual Usage	Annual Usage	Annual Usage (Fuel)	Project Life (Yrs)	Location (County)
G-82912-A1	Ag UTV	Diesel	2010	21	Tier 4 Final	-	35	-	1100	0	0	5	Kern
G-98264-A1	Ag UTV	Gasoline	2015	18	Control Technology	-	6	-	200	0	0	5	Tulare
G-98266-A1	Ag UTV	Gasoline	2014	18	Control Technology	-	6	-	200	0	0	5	Tulare
G-98268-A1	Ag UTV	Gasoline	2015	18	Control Technology	-	6	-	200	0	0	5	Tulare
G-83238-A1	Ag UTV	Gasoline	1988	19	Uncontrolled Technology	-	35	-	40	0	0	5	Tulare
G-98071-A1	Ag UTV	Gasoline	2015	41	Control Technology	-	36	-	1000	0	0	5	Kern
G-98077-A1	Ag UTV	Gasoline	2015	41	Control Technology	-	36	-	1000	0	0	5	Kern
G-98080-A1	Ag UTV	Gasoline	2015	41	Control Technology	-	36	-	1000	0	0	5	Kern
G-98148-A1	Ag UTV	Gasoline	2012	16	Control Technology	-	35	-	1000	0	0	5	Fresno
G-82380-A1	Ag UTV	Gasoline	1998	14	Uncontrolled Technology	-	6	-	200	0	0	5	Tulare
G-73994-A1	Ag UTV	Gasoline	2006	16	Control Technology	-	6	-	200	0	0	5	Kings
G-98315-A1	Ag UTV	Gasoline	2009	17	Control Technology	-	7	-	750	0	0	5	Kern
G-81067-A1	Ag UTV	Gasoline	2003	16	Uncontrolled Technology	-	35	-	500	0	0	5	Stanislaus
G-98173-A1	Ag UTV	Gasoline	2014	16	Control Technology	-	22	-	400	0	0	5	Stanislaus
G-75580-A1	Ag UTV	Gasoline	2015	16	Control Technology	-	35	-	603	0	0	5	Kern
G-81992-A1	Ag UTV	Gasoline	1995	35	Uncontrolled Technology	-	30	-	300	0	0	5	Kings
G-83637-A1	Ag UTV	Gasoline	2006	33	Control Technology	-	30	-	400	0	0	5	Merced
G-83901-A1	Ag UTV	Gasoline	1986	12	Uncontrolled Technology	-	6	-	200	0	0	5	Fresno
G-80166-A1	Ag UTV	Gasoline	1995	27	Uncontrolled Technology	-	22	-	1225	0	0	5	Merced
G-81658-A1	Ag UTV	Gasoline	2012	15	Control Technology	-	40	-	1000	0	0	5	San Joaquin
G-81712-A1	Ag UTV	Gasoline	2003	15	Uncontrolled Technology	-	40	-	1500	0	0	5	San Joaquin
G-80812-A1	Ag UTV	Gasoline	2008	13	Control Technology	-	35	-	150	0	0	5	Tulare
G-80814-A1	Ag UTV	Gasoline	2005	16	Control Technology	-	30	-	150	0	0	5	Tulare
G-80817-A1	Ag UTV	Gasoline	2005	4	Control Technology	-	30	-	150	0	0	5	Tulare
G-98015-A1	Ag UTV	Gasoline	2010	65	Control Technology	-	35	-	160	0	0	5	San Joaquin
G-82835-A1	Ag UTV	Gasoline	1980	13	Uncontrolled Technology	-	38	-	250	0	0	5	Stanislaus
G-83631-A1	Ag UTV	Gasoline	2006	13	Control Technology	-	22	-	200	0	0	5	Kings
G-83959-A1	Ag UTV	Gasoline	2013	15	Control Technology	-	6	-	250	0	0	5	Tulare
G-81497-A1	Ag UTV	Gasoline	2002	25	Uncontrolled Technology	-	7	-	600	0	0	5	Kern
G-81498-A1	Ag UTV	Gasoline	2013	20	Control Technology	-	7	-	600	0	0	5	Kern

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Project #	Primary Function	Fuel Type	Baseline Yr	Old HP	Old Tier	New Eng Yr	New HP	New Tier	Annual Usage	Annual Usage	Annual Usage (Fuel)	Project Life (Yrs)	Location (County)
G-81500-A1	Ag UTV	Gasoline	2006	19	Control Technology	-	7	-	600	0	0	5	Kern
G-84095-A1	Ag UTV	Gasoline	2004	22	Control Technology	-	38	-	760	0	0	5	Stanislaus
G-81640-A1	Ag UTV	Gasoline	2003	16	Uncontrolled Technology	-	22	-	800	0	0	5	Merced
G-81666-A1	Ag UTV	Gasoline	2012	15	Control Technology	-	38	-	1000	0	0	5	San Joaquin
G-81670-A1	Ag UTV	Gasoline	2005	15	Control Technology	-	38	-	1000	0	0	5	San Joaquin
G-81672-A1	Ag UTV	Gasoline	2001	15	Uncontrolled Technology	-	40	-	1500	0	0	5	San Joaquin
G-83259-A1	Ag UTV	Gasoline	2004	23	Control Technology	-	30	-	25	0	0	5	San Joaquin
G-81615-A1	Ag UTV	Gasoline	1984	15	Uncontrolled Technology	-	35	-	180	0	0	5	Tulare
G-82315-A1	Ag UTV	Gasoline	2004	14	Control Technology	-	6	-	200	0	0	5	Fresno
G-82809-A1	Ag UTV	Gasoline	1994	41	Uncontrolled Technology	-	35	-	400	0	0	5	Fresno
G-83761-A1	Ag UTV	Gasoline	1996	20	Uncontrolled Technology	-	22	-	250	0	0	5	Stanislaus
G-82447-A1	Ag UTV	Gasoline	2011	27	Control Technology	-	35	-	1000	0	0	5	Merced
G-82516-A1	Ag UTV	Gasoline	2011	27	Control Technology	-	35	-	1200	0	0	5	Merced
G-83833-A1	Ag UTV	Gasoline	2000	16	Control Technology	-	30	-	2000	0	0	5	Fresno
G-98020-A1	Ag UTV	Gasoline	1993	20	Uncontrolled Technology	-	30	-	150	0	0	5	Fresno
G-84062-A1	Ag UTV	Gasoline	2005	15	Control Technology	-	30	-	1305	0	0	5	Tulare
G-98183-A1	Ag UTV	Gasoline	2007	19	Control Technology	-	22	-	50	0	0	5	Stanislaus
G-80500-A1	Ag UTV	Gasoline	1996	25	Uncontrolled Technology	-	22	-	150	0	0	5	Merced
G-82435-A1	Ag UTV	Gasoline	2009	27	Control Technology	-	35	-	1100	0	0	5	Merced
G-83984-A1	Ag UTV	Gasoline	2004	10	Control Technology	-	6	-	300	0	0	5	Madera
G-81508-A1	Ag UTV	Gasoline	1997	19	Uncontrolled Technology	-	5	-	200	0	0	5	Stanislaus
G-82832-A1	Ag UTV	Gasoline	2014	14	Control Technology	-	6	-	200	0	0	5	Fresno
G-98270-A1	Ag UTV	Gasoline	1986	20	Uncontrolled Technology	-	22	-	300	0	0	5	Tulare
G-83417-A1	Ag UTV	Gasoline	1988	13	Uncontrolled Technology	-	6	-	500	0	0	5	Fresno
G-98235-A1	Ag UTV	Gasoline	2008	16	Control Technology	-	30	-	250	0	0	5	Stanislaus
G-98137-A1	Ag UTV	Gasoline	2009	15	Control Technology	-	6	-	750	0	0	5	Kern
G-98274-A1	Ag UTV	Gasoline	2000	20	Uncontrolled Technology	-	22	-	100	0	0	5	Stanislaus
G-98093-A1	Ag UTV	Gasoline	2012	32	Control Technology	-	40	-	1000	0	0	5	Kern
G-98096-A1	Ag UTV	Gasoline	2012	32	Control Technology	-	40	-	1000	0	0	5	Kern
G-98102-A1	Ag UTV	Gasoline	2012	32	Control Technology	-	40	-	1000	0	0	5	Kern

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Project #	Primary Function	Fuel Type	Baseline Yr	Old HP	Old Tier	New Eng Yr	New HP	New Tier	Annual Usage	Annual Usage	Annual Usage (Fuel)	Project Life (Yrs)	Location (County)
G-81297-A1	Ag UTV	Gasoline	1984	9	Uncontrolled Technology	-	38	-	850	0	0	5	San Joaquin
G-81402-A1	Ag UTV	Gasoline	1982	7	Uncontrolled Technology	-	7	-	200	0	0	5	Stanislaus
G-83095-A1	Ag UTV	Gasoline	2011	15	Control Technology	-	35	-	1100	0	0	5	Tulare
G-82290-A1	Ag UTV	Gasoline	1998	10	Uncontrolled Technology	-	7	-	48	0	0	5	Stanislaus
G-81510-A1	Ag UTV	Gasoline	1999	26	Uncontrolled Technology	-	35	-	500	0	0	5	Fresno
G-82043-A1	Ag UTV	Gasoline	2001	22	Uncontrolled Technology	-	7	-	750	0	0	5	Kern
G-98388-A1	Ag UTV	Gasoline	1986	13	Uncontrolled Technology	-	30	-	80	0	0	5	Stanislaus
G-82155-A1	Ag UTV	Gasoline	2002	25	Uncontrolled Technology	-	35	-	200	0	0	5	Tulare
G-80958-A1	Ag UTV	Gasoline	2006	43	Control Technology	-	30	-	150	0	0	5	San Joaquin
G-98111-A1	Ag UTV	Gasoline	2008	46	Control Technology	-	14	-	500	0	0	5	Madera
G-98236-A1	Ag UTV	Gasoline	2014	41	Control Technology	-	30	-	500	0	0	5	Stanislaus
G-98242-A1	Ag UTV	Gasoline	1986	16	Uncontrolled Technology	-	35	-	150	0	0	5	Stanislaus
G-80406-A1	Ag UTV	Gasoline	1997	19	Uncontrolled Technology	-	22	-	300	0	0	5	Stanislaus
G-98138-A1	Ag UTV	Gasoline	2003	20	Uncontrolled Technology	-	35	-	150	0	0	5	San Joaquin
G-80609-A1	Ag UTV	Gasoline	2001	17	Uncontrolled Technology	-	6	-	500	0	0	5	Fresno
G-80665-A1	Ag UTV	Diesel	1982	16	Tier 1	-	6	-	500	0	0	5	Fresno
G-80666-A1	Ag UTV	Gasoline	2001	10	Uncontrolled Technology	-	6	-	500	0	0	5	Fresno
G-82553-A1	Ag UTV	Gasoline	1986	12	Uncontrolled Technology	-	36	-	300	0	0	5	Stanislaus
G-82817-A1	Ag UTV	Gasoline	2013	28	Control Technology	-	30	-	275	0	0	5	Stanislaus
G-82870-A1	Ag UTV	Gasoline	2012	42	Control Technology	-	30	-	500	0	0	5	Tulare
G-83226-A1	Ag UTV	Diesel	2010	22	Tier 4 Interim	-	30	-	800	0	0	5	Kings
G-83245-A1	Ag UTV	Gasoline	2006	13	Control Technology	-	6	-	500	0	0	5	Stanislaus
G-83248-A1	Ag UTV	Gasoline	1995	10	Uncontrolled Technology	-	6	-	500	0	0	5	Stanislaus
G-83504-A1	Ag UTV	Gasoline	2000	19	Uncontrolled Technology	-	30	-	600	0	0	5	Tulare
G-98009-A1	Ag UTV	Gasoline	2003	22	Uncontrolled Technology	-	30	-	250	0	0	5	Merced
G-98171-A1	Ag UTV	Gasoline	2010	21	Control Technology	-	22	-	300	0	0	5	Merced
G-98172-A1	Ag UTV	Diesel	2002	25	Tier 1	-	22	-	300	0	0	5	Merced
G-100293-A1	Ag UTV	Gasoline	2011	17	Control Technology	-	35	-	575	0	0	5	Tulare
G-81097-A1	Ag UTV	Gasoline	1984	17	Uncontrolled Technology	-	36	-	400	0	0	5	San Joaquin
G-98316-A1	Ag UTV	Gasoline	2012	27	Control Technology	-	30	-	1100	0	0	5	Madera

Project Type Off-Road

Description Ag UTV Replacement

SJVAPCD Project Data 2022

Project #	Primary Function	Fuel Type	Baseline Yr	Old HP	Old Tier	New Eng Yr	New HP	New Tier	Annual Usage	Annual Usage	Annual Usage (Fuel)	Project Life (Yrs)	Location (County)
G-98317-A1	Ag UTV	Gasoline	2012	16	Control Technology	-	30	-	1100	0	0	5	Merced
G-82441-A1	Ag UTV	Gasoline	2009	27	Control Technology	-	30	-	1200	0	0	5	Merced
G-98328-A1	Ag UTV	Gasoline	2009	31	Control Technology	-	35	-	225	0	0	5	Stanislaus
G-84058-A1	Ag UTV	Gasoline	1989	23	Uncontrolled Technology	-	6	-	150	0	0	5	San Joaquin
G-83510-A1	Ag UTV	Gasoline	1998	19	Uncontrolled Technology	-	35	-	421	0	0	5	Stanislaus
G-83740-A1	Ag UTV	Gasoline	1991	30	Uncontrolled Technology	-	6	-	350	0	0	5	San Joaquin
G-83741-A1	Ag UTV	Gasoline	2004	10	Control Technology	-	6	-	350	0	0	5	San Joaquin
G-98282-A1	Ag UTV	Gasoline	2012	26	Control Technology	-	30	-	300	0	0	5	San Joaquin
G-98405-A1	Ag UTV	Gasoline	2000	37	Uncontrolled Technology	-	35	-	300	0	0	5	Kings
G-98450-A1	Ag UTV	Gasoline	2001	6	Uncontrolled Technology	-	30	-	2000	0	0	5	Merced
G-98149-A1	Ag UTV	Gasoline	2007	43	Control Technology	-	35	-	2000	0	0	5	San Joaquin
G-82811-A1	Ag UTV	Gasoline	1983	12	Uncontrolled Technology	-	36	-	600	0	0	5	San Joaquin
G-82812-A1	Ag UTV	Gasoline	2011	53	Control Technology	-	36	-	600	0	0	5	San Joaquin
G-98109-A1	Ag UTV	Gasoline	2001	22	Uncontrolled Technology	-	6	-	500	0	0	5	Madera
G-98176-A1	Ag UTV	Gasoline	1985	18	Uncontrolled Technology	-	30	-	150	0	0	5	Stanislaus
G-83077-A1	Ag UTV	Gasoline	1989	19	Uncontrolled Technology	-	35	-	400	0	0	5	Tulare
G-98411-A1	Ag UTV	Gasoline	2007	14	Control Technology	-	6	-	100	0	0	5	Fresno
G-83910-A1	Ag UTV	Gasoline	1985	13	Uncontrolled Technology	-	13	-	500	0	0	5	Tulare
G-98277-A1	Ag UTV	Gasoline	2007	27	Control Technology	-	22	-	300	0	0	5	Stanislaus
G-98279-A1	Ag UTV	Gasoline	2012	16	Control Technology	-	22	-	300	0	0	5	Stanislaus
G-83041-A1	Ag UTV	Gasoline	2005	10	Control Technology	-	30	-	400	0	0	5	San Joaquin
G-98013-A1	Ag UTV	Gasoline	2002	42	Uncontrolled Technology	-	30	-	180	0	0	5	Merced
G-80014-A1	Ag UTV	Gasoline	1985	17	Uncontrolled Technology	-	38	-	144	0	0	5	Stanislaus
G-82849-A1	Ag UTV	Gasoline	2004	14	Control Technology	-	30	-	2000	0	0	5	Tulare
G-98040-A1	Ag UTV	Gasoline	2012	23	Control Technology	-	38	-	1000	0	0	5	Kern
G-98041-A1	Ag UTV	Gasoline	2012	23	Control Technology	-	38	-	1000	0	0	5	Kern
G-98107-A1	Ag UTV	Gasoline	2012	32	Control Technology	-	38	-	1000	0	0	5	Kern
G-98110-A1	Ag UTV	Gasoline	2012	47	Control Technology	-	38	-	1000	0	0	5	Kern
G-98112-A1	Ag UTV	Gasoline	2012	47	Control Technology	-	38	-	1000	0	0	5	Kern
G-98261-A1	Ag UTV	Gasoline	1984	13	Uncontrolled Technology	-	35	-	420	0	0	5	San Joaquin

Project Type Off-Road

Description Ag UTV Replacement

SJVAPCD Project Data 2022

Project #	Primary Function	Fuel Type	Baseline Yr	Old HP	Old Tier	New Eng Yr	New HP	New Tier	Annual Usage	Annual Usage	Annual Usage (Fuel)	Project Life (Yrs)	Location (County)
G-83013-A1	Ag UTV	Gasoline	2001	7	Uncontrolled Technology	-	36	-	500	0	0	5	San Joaquin
G-83038-A1	Ag UTV	Gasoline	1989	19	Uncontrolled Technology	-	30	-	100	0	0	5	Tulare
G-98337-A1	Ag UTV	Gasoline	2006	17	Control Technology	-	35	-	350	0	0	5	Kern
G-98141-A1	Ag UTV	Gasoline	2003	26	Uncontrolled Technology	-	30	-	132	0	0	5	Stanislaus
G-78433-A1	Ag UTV	Gasoline	1991	19	Uncontrolled Technology	-	6	-	250	0	0	5	Fresno
G-79931-A1	Ag UTV	Gasoline	1998	30	Uncontrolled Technology	-	30	-	300	0	0	5	Merced
G-98086-A1	Ag UTV	Gasoline	1997	26	Uncontrolled Technology	-	30	-	312	0	0	5	Fresno
G-82669-A1	Ag UTV	Gasoline	2007	12	Control Technology	-	3	-	1400	0	0	5	Kings
G-98341-A1	Ag UTV	Gasoline	1989	14	Uncontrolled Technology	-	6	-	100	0	0	5	Merced
G-81574-A1	Ag UTV	Gasoline	2007	17	Control Technology	-	7	-	500	0	0	5	Kern
G-81108-A1	Ag UTV	Gasoline	2012	30	Control Technology	-	35	-	1500	0	0	5	Kern
G-81285-A1	Ag UTV	Gasoline	2000	20	Uncontrolled Technology	-	38	-	300	0	0	5	Merced
G-80841-A1	Ag UTV	Gasoline	2007	27	Control Technology	-	22	-	500	0	0	5	Merced
G-80842-A1	Ag UTV	Gasoline	1984	8	Uncontrolled Technology	-	35	-	150	0	0	5	Tulare
G-83098-A1	Ag UTV	Gasoline	2001	15	Uncontrolled Technology	-	35	-	1100	0	0	5	Tulare
G-82042-A1	Ag UTV	Gasoline	2001	20	Uncontrolled Technology	-	6	-	100	0	0	5	Stanislaus
G-98343-A1	Ag UTV	Gasoline	1992	9	Uncontrolled Technology	-	3	-	100	0	0	5	Tulare
G-98461-A1	Ag UTV	Gasoline	2011	16	Uncontrolled Technology	-	35	-	249	0	0	5	Tulare
G-98460-A1	Ag UTV	Gasoline	2013	16	Control Technology	-	30	-	170	0	0	5	Tulare
G-81395-A1	Ag UTV	Gasoline	1994	19	Uncontrolled Technology	-	12	-	576	0	0	5	Stanislaus
G-81997-A1	Ag UTV	Gasoline	1993	16	Uncontrolled Technology	-	35	-	200	0	0	5	Fresno
G-81255-A1	Ag UTV	Diesel	2003	57	Tier 1	-	35	-	1000	0	0	5	Stanislaus
G-98152-A1	Ag UTV	Gasoline	2002	24	Uncontrolled Technology	-	6	-	1000	0	0	5	Fresno
G-88519-A1	Ag UTV	Gasoline	2010	28	Control Technology	-	30	-	400	0	0	5	Fresno
G-98377-A1	Ag UTV	Gasoline	1999	10	Uncontrolled Technology	-	35	-	480	0	0	5	Fresno
G-98462-A1	Ag UTV	Gasoline	2009	50	Control Technology	-	35	-	300	0	0	5	Fresno
G-82300-A1	Ag UTV	Gasoline	1980	7	Uncontrolled Technology	-	35	-	250	0	0	5	San Joaquin
G-82301-A1	Ag UTV	Gasoline	1988	8	Uncontrolled Technology	-	35	-	250	0	0	5	San Joaquin
G-82303-A1	Ag UTV	Gasoline	1994	20	Uncontrolled Technology	-	30	-	250	0	0	5	San Joaquin
G-82305-A1	Ag UTV	Gasoline	2005	15	Control Technology	-	35	-	250	0	0	5	San Joaquin

Project Type Off-Road

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SJVAPCD Project Data 2022

Project #	Primary Function	Fuel Type	Baseline Yr	Old HP	Old Tier	New Eng Yr	New HP	New Tier	Annual Usage	Annual Usage	Annual Usage (Fuel)	Project Life (Yrs)	Location (County)
G-81058-A1	Ag UTV	Gasoline	2004	13	Control Technology	-	7	-	500	0	0	5	Kern
G-83037-A1	Ag UTV	Gasoline	1998	19	Uncontrolled Technology	-	38	-	100	0	0	5	Stanislaus
G-98456-A1	Ag UTV	Gasoline	2003	26	Uncontrolled Technology	-	35	-	450	0	0	5	Madera
G-82647-A1	Ag UTV	Gasoline	2007	30	Control Technology	-	30	-	900	0	0	5	Fresno
G-80743-A1	Ag UTV	Gasoline	2006	41	Control Technology	-	22	-	400	0	0	5	Merced
G-81112-A1	Ag UTV	Gasoline	2006	27	Control Technology	-	4	-	455	0	0	5	Merced
G-83832-A1	Ag UTV	Gasoline	2008	43	Control Technology	-	30	-	80	0	0	5	San Joaquin
G-98039-A1	Ag UTV	Gasoline	2012	23	Control Technology	-	38	-	1000	0	0	5	Kern
G-98095-A1	Ag UTV	Gasoline	2012	32	Control Technology	-	38	-	1000	0	0	5	Kern
G-98113-A1	Ag UTV	Gasoline	2012	47	Control Technology	-	38	-	1000	0	0	5	Kern
G-98318-A1	Ag UTV	Gasoline	1988	20	Uncontrolled Technology	-	30	-	100	0	0	5	Stanislaus
G-98371-A1	Ag UTV	Gasoline	2014	15	Control Technology	-	6	-	1000	0	0	5	Madera
G-82162-A1	Ag UTV	Gasoline	2006	40	Control Technology	-	35	-	700	0	0	5	Fresno
G-98375-A1	Ag UTV	Diesel	2009	22	Tier 4 Interim	-	35	-	783	0	0	5	Fresno
G-98376-A1	Ag UTV	Diesel	2005	22	Tier 2	-	35	-	326	0	0	5	Fresno
G-98116-A1	Ag UTV	Gasoline	1985	16	Uncontrolled Technology	-	6	-	800	0	0	5	Merced
G-98199-A1	Ag UTV	Gasoline	1982	8	Uncontrolled Technology	-	35	-	150	0	0	5	Stanislaus
G-98200-A1	Ag UTV	Gasoline	1978	6	Uncontrolled Technology	-	30	-	150	0	0	5	Stanislaus
G-81139-A1	Ag UTV	Gasoline	2004	20	Control Technology	-	35	-	850	0	0	5	Tulare
G-98342-A1	Ag UTV	Gasoline	1989	17	Uncontrolled Technology	-	30	-	4000	0	0	5	Stanislaus
G-82341-A1	Ag UTV	Diesel	2014	22	Tier 4 Interim	-	30	-	1250	0	0	5	Tulare
G-82343-A1	Ag UTV	Diesel	2014	22	Control Technology	-	30	-	1420	0	0	5	Tulare
G-82365-A1	Ag UTV	Diesel	2007	22	Tier 2	-	30	-	1400	0	0	5	Tulare
G-82367-A1	Ag UTV	Gasoline	1994	18	Uncontrolled Technology	-	30	-	1050	0	0	5	Tulare
G-82376-A1	Ag UTV	Gasoline	1994	18	Uncontrolled Technology	-	30	-	1480	0	0	5	Tulare
G-82377-A1	Ag UTV	Gasoline	1987	15	Uncontrolled Technology	-	30	-	850	0	0	5	Tulare
G-98283-A1	Ag UTV	Gasoline	1998	10	Uncontrolled Technology	-	35	-	150	0	0	5	Tulare
G-82563-A1	Ag UTV	Diesel	2004	25	Tier 2	-	12	-	550	0	0	5	Merced
G-81543-A1	Ag UTV	Gasoline	2000	19	Tier 0	-	38	-	800	0	0	5	San Joaquin
G-81545-A1	Ag UTV	Gasoline	2006	27	Control Technology	-	36	-	1500	0	0	5	San Joaquin

Project Type Off-Road

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Project #	Primary Function	Fuel Type	Baseline Yr	Old HP	Old Tier	New Eng Yr	New HP	New Tier	Annual Usage	Annual Usage	Annual Usage (Fuel)	Project Life (Yrs)	Location (County)
G-98238-A1	Ag UTV	Gasoline	2002	14	Uncontrolled Technology	-	35	-	1000	0	0	5	Stanislaus
G-82165-A1	Ag UTV	Gasoline	1991	17	Uncontrolled Technology	-	35	-	50	0	0	5	Stanislaus
G-98051-A1	Ag UTV	Gasoline	2004	23	Control Technology	-	7	-	1200	0	0	5	Kern
G-98042-A1	Ag UTV	Gasoline	2015	41	Control Technology	-	36	-	1000	0	0	5	Kern
G-98073-A1	Ag UTV	Gasoline	2015	41	Control Technology	-	36	-	1000	0	0	5	Kern
G-98082-A1	Ag UTV	Gasoline	2015	41	Control Technology	-	36	-	1000	0	0	5	Kern
G-98105-A1	Ag UTV	Gasoline	2012	32	Control Technology	-	40	-	1000	0	0	5	Kern
G-83829-A1	Ag UTV	Gasoline	2008	27	Control Technology	-	36	-	1000	0	0	5	San Joaquin
G-81109-A1	Ag UTV	Gasoline	1984	14	Uncontrolled Technology	-	12	-	475	0	0	5	Merced
G-82696-A1	Ag UTV	Gasoline	2008	13	Control Technology	-	12	-	520	0	0	5	Merced
G-82700-A1	Ag UTV	Gasoline	2006	18	Control Technology	-	12	-	525	0	0	5	Merced
G-82709-A1	Ag UTV	Gasoline	2006	18	Control Technology	-	12	-	520	0	0	5	Merced
G-97949-A1	Ag UTV	Gasoline	2005	28	Control Technology	-	35	-	200	0	0	5	Stanislaus
G-98104-A1	Ag UTV	Gasoline	2004	22	Control Technology	-	30	-	150	0	0	5	Stanislaus
G-98412-A1	Ag UTV	Gasoline	1999	11	Uncontrolled Technology	-	35	-	600	0	0	5	Merced
G-81579-A1	Ag UTV	Gasoline	1988	20	Uncontrolled Technology	-	35	-	650	0	0	5	Tulare
G-81580-A1	Ag UTV	Gasoline	2014	22	Control Technology	-	35	-	650	0	0	5	Tulare
G-98123-A1	Ag UTV	Gasoline	1995	18	Uncontrolled Technology	-	6	-	250	0	0	5	Merced
G-98129-A1	Ag UTV	Gasoline	1999	14	Uncontrolled Technology	-	35	-	150	0	0	5	San Joaquin
G-81544-A1	Ag UTV	Gasoline	2006	27	Control Technology	-	36	-	1500	0	0	5	San Joaquin
G-98092-A1	Ag UTV	Gasoline	2006	27	Control Technology	-	30	-	800	0	0	5	Stanislaus
G-81065-A1	Ag UTV	Gasoline	2003	45	Uncontrolled Technology	-	30	-	550	0	0	5	Stanislaus
G-98504-A1	Ag UTV	Gasoline	2004	26	Control Technology	-	35	-	500	0	0	5	Kern
G-82037-A1	Ag UTV	Diesel	1995	18	Tier 0	-	35	-	165	0	0	5	Stanislaus
G-83105-A1	Ag UTV	Gasoline	1988	20	Uncontrolled Technology	-	30	-	100	0	0	5	Stanislaus
G-98228-A1	Ag UTV	Gasoline	2013	30	Uncontrolled Technology	-	35	-	900	0	0	5	Stanislaus
G-98451-A1	Ag UTV	Gasoline	2004	80	Control Technology	-	35	-	200	0	0	5	Merced
G-98106-A1	Ag UTV	Gasoline	1997	33	Uncontrolled Technology	-	30	-	150	0	0	5	Stanislaus
G-98083-A1	Ag UTV	Gasoline	2010	20	Control Technology	-	30	-	1000	0	0	5	Merced
G-98521-A1	Ag UTV	Gasoline	1999	16	Uncontrolled Technology	-	35	-	1000	0	0	5	Fresno

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Project #	Primary Function	Fuel Type	Baseline Yr	Old HP	Old Tier	New Eng Yr	New HP	New Tier	Annual Usage	Annual Usage	Annual Usage (Fuel)	Project Life (Yrs)	Location (County)
G-98246-A1	Ag UTV	Gasoline	1990	16	Uncontrolled Technology	-	35	-	600	0	0	5	Fresno
G-98247-A1	Ag UTV	Gasoline	2006	7	Control Technology	-	35	-	600	0	0	5	Fresno
G-84064-A1	Ag UTV	Gasoline	1995	19	Uncontrolled Technology	-	30	-	300	0	0	5	Stanislaus
G-83420-A1	Ag UTV	Gasoline	2011	15	Control Technology	-	6	-	800	0	0	5	Kings
G-83421-A1	Ag UTV	Gasoline	2004	15	Control Technology	-	30	-	800	0	0	5	Kings
G-98280-A1	Ag UTV	Gasoline	2008	44	Control Technology	-	30	-	150	0	0	5	Kings
G-82668-A1	Ag UTV	Gasoline	1994	12	Uncontrolled Technology	-	35	-	1400	0	0	5	Kings
G-98125-A1	Ag UTV	Gasoline	1987	16	Uncontrolled Technology	-	35	-	300	0	0	5	Stanislaus
G-81063-A1	Ag UTV	Gasoline	1998	20	Uncontrolled Technology	-	6	-	100	0	0	5	Merced
G-98147-A1	Ag UTV	Gasoline	2006	10	Control Technology	-	35	-	1300	0	0	5	Kings
G-98541-A1	Ag UTV	Gasoline	2014	16	Control Technology	-	6	-	1000	0	0	5	Madera
G-98349-A1	Ag UTV	Gasoline	1986	6	Uncontrolled Technology	-	6	-	100	0	0	5	Tulare
G-98118-A1	Ag UTV	Gasoline	1984	7	Uncontrolled Technology	-	35	-	75	0	0	5	Fresno
G-98126-A1	Ag UTV	Gasoline	1994	23	Uncontrolled Technology	-	35	-	75	0	0	5	Fresno
G-98297-A1	Ag UTV	Gasoline	2016	15	Control Technology	-	30	-	900	0	0	5	Tulare
G-98348-A1	Ag UTV	Gasoline	1990	35	Uncontrolled Technology	-	35	-	350	0	0	5	Kern
G-82251-A1	Ag UTV	Gasoline	2005	24	Control Technology	-	35	-	300	0	0	5	Kings
G-98573-A1	Ag UTV	Gasoline	1998	18	Uncontrolled Technology	-	22	-	125	0	0	5	Stanislaus
G-83965-A1	Ag UTV	Gasoline	2007	13	Control Technology	-	30	-	1095	0	0	5	Kern
G-81462-A1	Ag UTV	Gasoline	2002	22	Uncontrolled Technology	-	6	-	1000	0	0	5	Madera
G-98391-A1	Ag UTV	Gasoline	2006	25	Control Technology	-	35	-	600	0	0	5	Fresno
G-98393-A1	Ag UTV	Gasoline	2010	35	Control Technology	-	35	-	600	0	0	5	Fresno
G-98038-A1	Ag UTV	Gasoline	2006	18	Control Technology	-	35	-	500	0	0	5	Fresno
G-83078-A1	Ag UTV	Gasoline	2006	22	Control Technology	-	35	-	950	0	0	5	San Joaquin
G-98304-A1	Ag UTV	Gasoline	1970	10	Uncontrolled Technology	-	11	-	312	0	0	5	Stanislaus
G-80510-A1	Ag UTV	Gasoline	2005	20	Control Technology	-	30	-	200	0	0	5	Tulare
G-98120-A1	Ag UTV	Gasoline	1982	7	Uncontrolled Technology	-	35	-	256	0	0	5	Tulare
G-83088-A1	Ag UTV	Gasoline	2006	22	Control Technology	-	6	-	1000	0	0	5	Kern
G-98547-A1	Ag UTV	Gasoline	2007	20	Control Technology	-	35	-	250	0	0	5	Madera
G-81397-A1	Ag UTV	Gasoline	1992	20	Uncontrolled Technology	-	35	-	140	0	0	5	Merced

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Project #	Primary Function	Fuel Type	Baseline Yr	Old HP	Old Tier	New Eng Yr	New HP	New Tier	Annual Usage	Annual Usage	Annual Usage (Fuel)	Project Life (Yrs)	Location (County)
G-82386-A1	Ag UTV	Gasoline	1999	25	Uncontrolled Technology	-	12	-	470	0	0	5	Merced
G-98284-A1	Ag UTV	Gasoline	1995	13	Uncontrolled Technology	-	35	-	350	0	0	5	Tulare
G-80175-A1	Ag UTV	Gasoline	2008	20	Control Technology	-	35	-	200	0	0	5	Fresno
G-83062-A1	Ag UTV	Gasoline	1995	20	Uncontrolled Technology	-	6	-	500	0	0	5	Merced
G-81626-A1	Ag UTV	Gasoline	2010	37	Control Technology	-	35	-	300	0	0	5	Stanislaus
G-83963-A1	Ag UTV	Gasoline	2012	33	Control Technology	-	35	-	300	0	0	5	Tulare
G-81514-A1	Ag UTV	Gasoline	1981	13	Uncontrolled Technology	-	6	-	500	0	0	5	Madera
G-83036-A1	Ag UTV	Gasoline	2007	44	Control Technology	-	35	-	170	0	0	5	Stanislaus
G-98101-A1	Ag UTV	Gasoline	2006	15	Control Technology	-	6	-	500	0	0	5	Madera
G-98103-A1	Ag UTV	Gasoline	2013	15	Control Technology	-	6	-	500	0	0	5	Madera
G-98308-A1	Ag UTV	Gasoline	2007	6	Control Technology	-	30	-	60	0	0	5	Tulare
G-79036-A1	Ag UTV	Gasoline	1980	15	Uncontrolled Technology	-	30	-	120	0	0	5	Tulare
G-98340-A1	Ag UTV	Gasoline	1991	5	Uncontrolled Technology	-	30	-	325	0	0	5	Fresno
G-98269-A1	Ag UTV	Gasoline	1996	28	Uncontrolled Technology	-	30	-	120	0	0	5	Stanislaus
G-98085-A1	Ag UTV	Gasoline	1987	19	Uncontrolled Technology	-	35	-	300	0	0	5	Tulare
G-98024-A1	Ag UTV	Gasoline	1994	20	Uncontrolled Technology	-	30	-	20	0	0	5	Fresno
G-98458-A1	Ag UTV	Gasoline	1999	21	Uncontrolled Technology	-	30	-	390	0	0	5	Madera
G-81569-A1	Ag UTV	Gasoline	2001	14	Uncontrolled Technology	-	6	-	230	0	0	5	Tulare
G-98084-A1	Ag UTV	Gasoline	2010	20	Control Technology	-	35	-	1000	0	0	5	Merced
G-83043-A1	Ag UTV	Gasoline	2002	44	Uncontrolled Technology	-	35	-	500	0	0	5	Merced
G-98568-A1	Ag UTV	Gasoline	1988	30	Uncontrolled Technology	-	35	-	100	0	0	5	San Joaquin
G-82184-A1	Ag UTV	Gasoline	2001	30	Uncontrolled Technology	-	35	-	600	0	0	5	Fresno
G-98234-A1	Ag UTV	Gasoline	1996	10	Uncontrolled Technology	-	35	-	500	0	0	5	Tulare
G-83640-A1	Ag UTV	Gasoline	2001	40	Uncontrolled Technology	-	35	-	200	0	0	5	Merced
G-82558-A1	Ag UTV	Gasoline	2000	23	Uncontrolled Technology	-	35	-	250	0	0	5	Merced
G-98494-A1	Ag UTV	Gasoline	1984	7	Uncontrolled Technology	-	35	-	300	0	0	5	Tulare
G-80252-A1	Ag UTV	Gasoline	1988	19	Uncontrolled Technology	-	35	-	1000	0	0	5	Merced
G-98180-A1	Ag UTV	Gasoline	2006	44	Control Technology	-	35	-	500	0	0	5	Fresno
G-98572-A1	Ag UTV	Gasoline	2014	16	Control Technology	-	35	-	250	0	0	5	Stanislaus
G-82560-A1	Ag UTV	Gasoline	2003	15	Uncontrolled Technology	-	35	-	400	0	0	5	Merced

Project Type Off-Road

Description Ag UTV Replacement

SJVAPCD Project Data 2022

Project #	Primary Function	Fuel Type	Baseline Yr	Old HP	Old Tier	New Eng Yr	New HP	New Tier	Annual Usage	Annual Usage	Annual Usage (Fuel)	Project Life (Yrs)	Location (County)
G-98139-A1	Ag UTV	Gasoline	2007	16	Control Technology	-	6	-	700	0	0	5	Fresno
G-81733-A1	Ag UTV	Gasoline	1980	12	Uncontrolled Technology	-	35	-	230	0	0	5	Tulare
G-81736-A1	Ag UTV	Gasoline	1998	40	Uncontrolled Technology	-	35	-	300	0	0	5	Tulare
G-82383-A1	Ag UTV	Gasoline	1998	17	Uncontrolled Technology	-	38	-	115	0	0	5	Merced
G-97950-A1	Ag UTV	Gasoline	2006	9	Control Technology	-	35	-	185	0	0	5	Merced
G-98470-A1	Ag UTV	Gasoline	2001	16	Uncontrolled Technology	-	35	-	1200	0	0	5	Kings
G-98453-A1	Ag UTV	Gasoline	2007	16	Control Technology	-	30	-	650	0	0	5	Kings
G-81659-A1	Ag UTV	Gasoline	2001	41	Uncontrolled Technology	-	38	-	1000	0	0	5	Stanislaus

Appendix B
NRCS Combustion System Improvement Program Project Information

Project Type NRCS EQIP

Description Vehicle Replacement

NRCS Project Data 2022

Project #	Primary Function	Fuel Type	Baseline Yr	Old HP	Old Tier	New Eng Yr	New HP	New Tier	Annual Usage (Hours)	Annual Usage (Miles)	Annual Usage (Fuel)	Project Life (Yrs)	Location (County)
3778	Tractor	Diesel	1965	69	Non-Tier	2020	75	Tier 4 Final	150			10	Fresno
3779	Tractor	Diesel	1993	103	Non-Tier	2018	125	Tier 4 Final	2500			10	Fresno
3780	Tractor	Diesel	1982	84	Non-Tier	2020	75	Tier 4 Final	100			10	Fresno
3781	Tractor	Diesel	1990	55	Non-Tier	2020	68	Tier 4 Final	1200			10	Tulare
3782	Tractor	Diesel	1996	50	Non-Tier	2020	55	Tier 4 Final	400			10	Fresno
3783	Tractor	Diesel	2007	38	Tier 2	2019	46	Tier 4 Final	400			10	Fresno
3784	Tractor	Diesel	1975	55	Non-Tier	2020	65	Tier 4 Final	400			10	Tulare
3785	Tractor	Diesel	1989	60	Non-Tier	2020	74	Tier 4 Final	400			10	San Joaquin
3786	Tractor	Diesel	1967	44	Non-Tier	2020	55	Tier 4 Final	800			10	San Joaquin
3787	Tractor	Diesel	1974	98	Non-Tier	2019	106	Tier 4 Final	2080			10	Tulare
3788	Tractor	Diesel	2000	120	Tier 1	2020	125	Tier 4 Final	500			10	Tulare
3789	Tractor	Diesel	1980	78	Non-Tier	2019	91	Tier 4 Final	675			10	San Joaquin
3790	Tractor	Diesel	1967	115	Non-Tier	2019	117	Tier 4 Final	300			10	Fresno
3791	Tractor	Diesel	2006	103	Tier 2	2020	115	Tier 4 Final	600			10	Madera
3792	Tractor	Diesel	1977	126	Non-Tier	2020	125	Tier 4 Final	500			10	Madera
3793	Tractor	Diesel	1999	55	Tier 1	2020	60	Tier 4 Final	1000			10	Fresno
3794	Tractor	Diesel	1998	89	Tier 1	2019	90	Tier 4 Final	900			10	Fresno
3795	Tractor	Diesel	1990	97	Non-Tier	2021	115	Tier 4 Final	300			10	Fresno
3796	Tractor	Diesel	2003	75	Tier 1	2021	92	Tier 4 Final	700			10	Fresno
3797	Tractor	Diesel	2006	112	Tier 2	2020	120	Tier 4 Final	500			10	Fresno
3798	Tractor	Diesel	2006	112	Tier 2	2019	106	Tier 4 Final	1500			10	Fresno
3799	Tractor	Diesel	1975	58	Non-Tier	2020	65	Tier 4 Final	430			10	Fresno
3800	Tractor	Diesel	1982	98	Non-Tier	2021	115	Tier 4 Final	540			10	Fresno
3801	Tractor	Diesel	1976	124	Non-Tier	2020	123	Tier 4 Final	525			10	San Joaquin
3802	Tractor	Diesel	1998	98	Tier 1	2019	75	Tier 4 Final	1900			10	San Joaquin
3803	Tractor	Diesel	1990	96	Non-Tier	2021	105	Tier 4 Final	500			10	San Joaquin
3804	Tractor	Diesel	1980	56	Non-Tier	2019	70	Tier 4 Final	500			10	San Joaquin
3805	Tractor	Diesel	2006	98	Tier 2	2019	107	Tier 4 Final	600			10	San Joaquin
3806	Tractor	Diesel	1998	64	Tier 1	2020	75	Tier 4 Final	150			10	Fresno
3807	Tractor	Diesel	1987	78	Non-Tier	2019	90	Tier 4 Final	320			10	Fresno
3808	Tractor	Diesel	2005	29	Tier 2	2020	35	Tier 4 Final	250			10	Fresno

Project Type NRCS EQIP

Description Vehicle Replacement

NRCS Project Data 2022

Project #	Primary Function	Fuel Type	Baseline Yr	Old HP	Old Tier	New Eng Yr	New HP	New Tier	Annual Usage (Hours)	Annual Usage (Miles)	Annual Usage (Fuel)	Project Life (Yrs)	Location (County)
3809	Tractor	Diesel	1983	94	Non-Tier	2020	115	Tier 4 Final	400			10	Fresno
3810	Tractor	Diesel	1968	61	Non-Tier	2020	72	Tier 4 Final	250			10	Fresno
3811	Tractor	Diesel	1966	55	Non-Tier	2020	65	Tier 4 Final	400			10	Fresno
3812	Tractor	Diesel	1981	60	Non-Tier	2020	74	Tier 4 Final	220			10	Fresno
3813	Tractor	Diesel	1994	84	Non-Tier	2019	105	Tier 4 Final	250			10	Fresno
3814	Tractor	Diesel	1977	38	Non-Tier	2019	41	Tier 4 Final	150			10	Fresno
3815	Tractor	Diesel	2000	64	Tier 1	2019	74	Tier 4 Final	600			10	Fresno
3816	Tractor	Diesel	1966	58	Non-Tier	2019	55	Tier 4 Final	500			10	Fresno
3817	Tractor	Diesel	1969	58	Non-Tier	2019	55	Tier 4 Final	500			10	Fresno
3818	Tractor	Diesel	1969	58	Non-Tier	2019	55	Tier 4 Final	500			10	Fresno
3819	Tractor	Diesel	1991	104	Non-Tier	2020	106	Tier 4 Final	200			10	San Joaquin
3820	Tractor	Diesel	1967	111	Non-Tier	2020	106	Tier 4 Final	160			10	Tulare
3821	Tractor	Diesel	1980	110	Non-Tier	2020	115	Tier 4 Final	600			10	Tulare
3822	Tractor	Diesel	1995	71	Non-Tier	2020	74	Tier 4 Final	300			10	Tulare
3823	Tractor	Diesel	1969	46	Non-Tier	2019	54	Tier 4 Final	40			10	San Joaquin
3824	Tractor	Diesel	1997	86	Non-Tier	2019	74	Tier 4 Final	60			10	San Joaquin
3825	Tractor	Diesel	2005	225	Tier 2	2020	235	Tier 4 Final	500			10	San Joaquin
3826	Tractor	Diesel	1990	96	Non-Tier	2019	105	Tier 4 Final	800			10	San Joaquin
3827	Forklift	Diesel	2000	72	Tier 1	2020	74	Tier 4 Final	700			10	Tulare
3828	Tractor	Diesel	1997	106	Tier 1	2021	125	Tier 4 Final	500			10	Tulare
3829	Tractor	Diesel	1998	240	Tier 1	2020	275	Tier 4 Final	2000			10	San Joaquin
3830	Tractor	Diesel	1987	77	Non-Tier	2019	90	Tier 4 Final	800			10	San Joaquin
3831	Tractor	Diesel	2006	99	Tier 2	2020	123	Tier 4 Final	1000			10	San Joaquin
3832	Tractor	Diesel	2001	54	Tier 1	2020	67	Tier 4 Final	1000			10	San Joaquin
3833	Tractor	Diesel	1973	200	Non-Tier	2020	240	Tier 4 Final	2500			10	San Joaquin
3834	Tractor	Diesel	1972	210	Non-Tier	2020	99	Tier 4 Final	200			10	San Joaquin
3835	Tractor	Diesel	1999	88	Tier 1	2019	106	Tier 4 Final	500			10	Tulare
3836	Tractor	Diesel	2002	190	Tier 2	2020	220	Tier 4 Final	1250			10	San Joaquin
3837	Sweeper	Diesel	1997	70	Non-Tier	2020	74	Tier 4 Final	480			10	San Joaquin
3838	Tractor	Diesel	1981	130	Non-Tier	2020	117	Tier 4 Final	250			10	San Joaquin
3839	Shaker	Diesel	1998	125	Tier 1	2019	157	Tier 4 Final	800			10	San Joaquin

Project Type NRCS EQIP

Description Vehicle Replacement

NRCS Project Data 2022

Project #	Primary Function	Fuel Type	Baseline Yr	Old HP	Old Tier	New Eng Yr	New HP	New Tier	Annual Usage (Hours)	Annual Usage (Miles)	Annual Usage (Fuel)	Project Life (Yrs)	Location (County)
3840	Tractor	Diesel	1988	97	Non-Tier	2020	114	Tier 4 Final	750			10	Stanislaus
3841	Tractor	Diesel	1976	81	Non-Tier	2019	74	Tier 4 Final	300			10	Stanislaus
3842	Tractor	Diesel	1997	110	Tier 1	2020	114	Tier 4 Final	750			10	Stanislaus
3843	Tractor	Diesel	1978	60	Non-Tier	2020	75	Tier 4 Final	100			10	Stanislaus
3844	Tractor	Diesel	1987	97	Non-Tier	2019	114	Tier 4 Final	700			10	Stanislaus
3845	Tractor	Diesel	1965	62	Non-Tier	2020	73	Tier 4 Final	500			10	Stanislaus
3846	Tractor	Diesel	1972	67	Non-Tier	2019	74	Tier 4 Final	120			10	Stanislaus
3847	Tractor	Diesel	2006	99	Tier 2	2020	99	Tier 4 Final	400			10	Stanislaus
3848	Tractor	Diesel	2006	70	Tier 2	2019	74	Tier 4 Final	500			10	Stanislaus
3849	Tractor	Diesel	2003	504	Tier 2	2020	570	Tier 4 Final	800			10	Merced
3850	Tractor	Diesel	1983	290	Non-Tier	2020	125	Tier 4 Final	350			10	Merced
3851	Tractor	Diesel	1989	82	Non-Tier	2020	71	Tier 4 Final	520			10	Merced
3852	Tractor	Diesel	1968	45	Non-Tier	2020	53	Tier 4 Final	240			10	Merced
3853	Tractor	Diesel	1989	#REF!	Non-Tier	2019	92	Tier 4 Final	250			10	Merced
3854	Tractor	Diesel	2003	175	Tier 2	2020	210	Tier 4 Final	2100			10	Merced
3855	Tractor	Diesel	2002	52	Tier 1	2020	58	Tier 4 Final	800			10	Merced
3856	Tractor	Diesel	1969	67	Non-Tier	2019	74	Tier 4 Final	100			10	Merced
3857	Tractor	Diesel	1983	72	Non-Tier	2019	92	Tier 4 Final	300			10	Merced
3858	Tractor	Diesel	2005	90	Tier 2	2020	101	Tier 4 Final	200			10	Tulare
3859	Tractor	Diesel	1975	75	Non-Tier	2020	75	Tier 4 Final	400			10	Tulare
3860	Tractor	Diesel	1994	205	Non-Tier	2020	250	Tier 4 Final	800			10	Tulare
3861	Tractor	Diesel	1975	159	Non-Tier	2019	195	Tier 4 Final	1000			10	Tulare
3862	Tractor	Diesel	1994	355	Non-Tier	2020	420	Tier 4 Final	1500			10	Tulare
3863	Tractor	Diesel	2001	90	Tier 1	2019	105	Tier 4 Final	2000			10	Tulare
3864	Tractor	Diesel	1979	215	Non-Tier	2021	135	Tier 4 Final	450			10	Tulare
3865	Tractor	Diesel	1986	80	Non-Tier	2020	42	Tier 4 Final	2000			10	Tulare
3866	Tractor	Diesel	2005	80	Tier 2	2020	92	Tier 4 Final	2000			10	Tulare
3867	Tractor	Diesel	1983	72	Non-Tier	2018	70	Tier 4 Final	750			10	Tulare
3868	Tractor	Diesel	2003	102	Tier 1	2018	125	Tier 4 Final	700			10	Tulare
3869	Tractor	Diesel	1984	27	Non-Tier	2019	33	Tier 4 Final	225			10	Tulare
3870	Tractor	Diesel	1990	58	Non-Tier	2020	64	Tier 4 Final	150			10	Tulare

Project Type NRCS EQIP

Description Vehicle Replacement

NRCS Project Data 2022

Project #	Primary Function	Fuel Type	Baseline Yr	Old HP	Old Tier	New Eng Yr	New HP	New Tier	Annual Usage (Hours)	Annual Usage (Miles)	Annual Usage (Fuel)	Project Life (Yrs)	Location (County)
3871	Tractor	Diesel	1968	45	Non-Tier	2020	54	Tier 4 Final	500			10	Kings
3872	Tractor	Diesel	1985	110	Non-Tier	2020	125	Tier 4 Final	900			10	Kings
3873	Tractor	Diesel	1980	192	Non-Tier	2018	240	Tier 4 Final	300			10	Merced
3874	Tractor	Diesel	1972	50	Non-Tier	2019	53	Tier 4 Final	250			10	Tulare
3875	Tractor	Diesel	1978	48	Non-Tier	2019	59	Tier 4 Final	600			10	Kings
3876	Tractor	Diesel	1974	64	Non-Tier	2021	65	Tier 4 Final	800			10	Kings
3877	Crawler Tractor/Dozer	Diesel	2005	305	Tier 2	2019	375	Tier 4 Final	933			10	Kings
3878	Tractor	Diesel	1973	47	Non-Tier	2020	55	Tier 4 Final	235			10	Fresno
3879	Tractor	Diesel	1994	95	Non-Tier	2020	117	Tier 4 Final	400			10	Fresno
3880	Tractor	Diesel	1964	49	Non-Tier	2021	58	Tier 4 Final	300			10	Fresno
3881	Tractor	Diesel	1962	55	Non-Tier	2020	65	Tier 4 Final	550			10	Fresno
3882	Tractor	Diesel	1974	132	Non-Tier	2019	115	Tier 4 Final	120			10	Madera
3883	Tractor	Diesel	1995	27	Non-Tier	2020	35	Tier 4 Final	275			10	Madera
3884	Tractor	Diesel	1978	79	Non-Tier	2021	73	Tier 4 Final	250			10	Madera
3885	Tractor	Diesel	1987	73	Non-Tier	2019	75	Tier 4 Final	500			10	Merced
3886	Tractor	Diesel	1975	140	Non-Tier	2020	120	Tier 4 Final	400			10	Merced
3887	Forklift	Diesel	1983	75	Non-Tier	2021	74	Tier 4 Final	600			10	Tulare
3888	Tractor	Diesel	1997	75	Non-Tier	2020	74	Tier 4 Final	600			10	Tulare
3889	Forklift	Diesel	2000	75	Tier 1	2020	74	Tier 4 Final	600			10	Tulare
3890	Forklift	Diesel	1995	75	Non-Tier	2021	74	Tier 4 Final	600			10	Tulare
3891	Tractor	Diesel	2004	41	Tier 1	2018	47	Tier 4 Final	1460			10	Tulare
3892	Tractor	Diesel	1972	84	Non-Tier	2020	73	Tier 4 Final	800			10	Tulare
3893	Tractor	Diesel	2007	88	Tier 2	2021	100	Tier 4 Final	450			10	Tulare
3894	Tractor	Diesel	1994	188	Non-Tier	2021	230	Tier 4 Final	500			10	Tulare
3895	Tractor	Diesel	1983	129	Non-Tier	2021	123	Tier 4 Final	375			10	San Joaquin
3896	Tractor	Diesel	1966	110	Non-Tier	2021	123	Tier 4 Final	375			10	San Joaquin
3897	Tractor	Diesel	1972	114	Non-Tier	2019	107	Tier 4 Final	550			10	San Joaquin
3898	Tractor	Diesel	1976	48	Non-Tier	2019	55	Tier 4 Final	350			10	Tulare
3899	Tractor	Diesel	1985	75	Non-Tier	2019	86	Tier 4 Final	750			10	Tulare
3900	Tractor	Diesel	2006	105	Tier 2	2020	94	Tier 4 Final	380			10	Tulare
3901	Tractor	Diesel	1966	59	Non-Tier	2020	55	Tier 4 Final	250			10	Tulare

Project Type NRCS EQIP

Description Vehicle Replacement

NRCS Project Data 2022

Project #	Primary Function	Fuel Type	Baseline Yr	Old HP	Old Tier	New Eng Yr	New HP	New Tier	Annual Usage (Hours)	Annual Usage (Miles)	Annual Usage (Fuel)	Project Life (Yrs)	Location (County)
3902	Tractor	Diesel	2005	105	Tier 2	2020	106	Tier 4 Final	3300			10	Tulare
3903	Tractor	Diesel	2010	95	Tier 3	2020	106	Tier 4 Final	3500			10	Tulare
3904	Tractor	Diesel	1980	63	Non-Tier	2020	74	Tier 4 Final	200			10	San Joaquin
3905	Tractor	Diesel	1965	47	Non-Tier	2020	58	Tier 4 Final	300			10	San Joaquin
3906	Tractor	Diesel	1964	54	Non-Tier	2019	49	Tier 4 Final	800			10	San Joaquin
3907	Tractor	Diesel	1993	69	Non-Tier	2020	74	Tier 4 Final	350			10	San Joaquin
3908	Tractor	Diesel	1977	98	Non-Tier	2020	105	Tier 4 Final	585			10	San Joaquin
3909	Tractor	Diesel	1985	132	Non-Tier	2020	114	Tier 4 Final	800			10	San Joaquin
3910	Tractor	Diesel	2003	51	Tier 1	2020	57	Tier 4 Final	500			10	San Joaquin
3911	Tractor	Diesel	1986	48	Non-Tier	2020	51	Tier 4 Final	300			10	San Joaquin
3912	Tractor	Diesel	1977	96	Non-Tier	2018	117	Tier 4 Final	650			10	San Joaquin
3913	Tractor	Diesel	1989	222	Non-Tier	2021	230	Tier 4 Final	900			10	Tulare
3914	Tractor	Diesel	1980	34	Non-Tier	2020	37	Tier 4 Final	200			10	San Joaquin
3915	Crawler Tractor/Dozer	Diesel	1957	39	Non-Tier	2020	47	Tier 4 Final	200			10	San Joaquin
3916	Tractor	Diesel	1978	30	Non-Tier	2020	33	Tier 4 Final	205			10	San Joaquin
3917	Tractor	Diesel	1992	40	Non-Tier	2021	47	Tier 4 Final	250			10	San Joaquin
3918	Sweeper	Diesel	1979	68	Non-Tier	2019	74	Tier 4 Final	420			10	San Joaquin
3919	Tractor	Diesel	1987	90	Non-Tier	2021	100	Tier 4 Final	240			10	Tulare
3920	Tractor	Diesel	1992	71	Non-Tier	2021	55	Tier 4 Final	1500			10	Tulare
3921	Tractor	Diesel	2000	33	Tier 1	2018	34	Tier 4 Final	350			10	Tulare
3922	Tractor	Diesel	1970	62	Non-Tier	2019	70	Tier 4 Final	75			10	Tulare
3923	Tractor	Diesel	1973	75	Non-Tier	2021	92	Tier 4 Final	120			10	Tulare
3924	Tractor	Diesel	2000	106	Tier 1	2020	106	Tier 4 Final	3500			10	Tulare
3925	Tractor	Diesel	2001	104	Tier 1	2020	106	Tier 4 Final	3100			10	Tulare
3926	Tractor	Diesel	1979	97	Non-Tier	2020	115	Tier 4 Final	300			10	Tulare
3927	Tractor	Diesel	1974	62	Non-Tier	2021	70	Tier 4 Final	300			10	Tulare
3928	Tractor	Diesel	2002	155	Tier 1	2021	168	Tier 4 Final	1000			10	Tulare
3929	Tractor	Diesel	2005	150	Tier 2	2021	168	Tier 4 Final	1000			10	Tulare
3930	Tractor	Diesel	1978	150	Non-Tier	2021	125	Tier 4 Final	500			10	Tulare
3931	Tractor	Diesel	1960	61	Non-Tier	2021	74	Tier 4 Final	800			10	Tulare
3932	Tractor	Diesel	1991	84	Non-Tier	2019	100	Tier 4 Final	1500			10	Tulare

Project Type NRCS EQIP

Description Vehicle Replacement

NRCS Project Data 2022

Project #	Primary Function	Fuel Type	Baseline Yr	Old HP	Old Tier	New Eng Yr	New HP	New Tier	Annual Usage (Hours)	Annual Usage (Miles)	Annual Usage (Fuel)	Project Life (Yrs)	Location (County)
3933	Tractor	Diesel	1975	46	Non-Tier	2020	33	Tier 4 Final	250			10	Tulare
3934	Tractor	Diesel	2003	96	Tier 1	2021	115	Tier 4 Final	300			10	Tulare
3935	Tractor	Diesel	1979	75	Non-Tier	2021	74	Tier 4 Final	450			10	Tulare
3936	Tractor	Diesel	2002	106	Tier 1	2021	130	Tier 4 Final	1200			10	Tulare
3937	Tractor	Diesel	1996	87	Non-Tier	2020	100	Tier 4 Final	1200			10	Tulare
3938	Tractor	Diesel	1977	84	Non-Tier	2021	100	Tier 4 Final	950			10	Fresno
3939	Tractor	Diesel	1977	98	Non-Tier	2021	114	Tier 4 Final	450			10	Tulare
3940	Tractor	Diesel	1972	96	Non-Tier	2021	115	Tier 4 Final	700			10	Fresno
3941	Tractor	Diesel	1973	76	Non-Tier	2018	90	Tier 4 Final	500			10	Fresno
3942	Tractor	Diesel	1980	84	Non-Tier	2020	99	Tier 4 Final	300			10	Fresno
3943	Tractor	Diesel	1972	85	Non-Tier	2020	100	Tier 4 Final	150			10	Fresno
3944	Tractor	Diesel	1987	37	Non-Tier	2020	50	Tier 4 Final	225			10	Fresno
3945	Sweeper	Diesel	1985	75	Non-Tier	2021	74	Tier 4 Final	600			10	Fresno
3946	Tractor	Diesel	1993	104	Non-Tier	2021	123	Tier 4 Final	250			10	Madera
3947	Tractor	Diesel	1968	75	Non-Tier	2021	90	Tier 4 Final	150			10	Madera
3948	Tractor	Diesel	1980	178	Non-Tier	2021	123	Tier 4 Final	1150			10	Madera
3949	Tractor	Diesel	1991	97	Non-Tier	2021	114	Tier 4 Final	350			10	Madera
3950	Tractor	Diesel	2000	114	Tier 1	2020	117	Tier 4 Final	1300			10	Madera
3951	Tractor	Diesel	2004	114	Tier 2	2020	117	Tier 4 Final	1300			10	Madera
3952	Tractor	Diesel	2005	92	Tier 2	2021	114	Tier 4 Final	190			10	Madera
3953	Shaker	Diesel	1989	150	Non-Tier	2020	174	Tier 4 Final	1500			10	Madera
3954	Shaker	Diesel	2001	125	Tier 1	2021	147	Tier 4 Final	200			10	Madera
3955	Tractor	Diesel	1962	48	Non-Tier	2021	58	Tier 4 Final	300			10	Madera
3956	Tractor	Diesel	1976	157	Non-Tier	2021	125	Tier 4 Final	500			10	Madera
3957	Tractor	Diesel	1980	126	Non-Tier	2021	115	Tier 4 Final	150			10	Madera
3958	Tractor	Diesel	1998	104	Tier 1	2019	114	Tier 4 Final	200			10	Madera
3959	Tractor	Diesel	1980	38	Non-Tier	2021	34	Tier 4 Final	250			10	Fresno
3960	Tractor	Diesel	1989	95	Non-Tier	2021	114	Tier 4 Final	750			10	Fresno
3961	Tractor	Diesel	1972	89	Non-Tier	2021	100	Tier 4 Final	460			10	Fresno
3962	Tractor	Diesel	2003	110	Tier 2	2021	125	Tier 4 Final	400			10	Madera
3963	Tractor	Diesel	1963	51	Non-Tier	2020	59	Tier 4 Final	1400			10	Fresno

Project Type NRCS EQIP

Description Vehicle Replacement

NRCS Project Data 2022

Project #	Primary Function	Fuel Type	Baseline Yr	Old HP	Old Tier	New Eng Yr	New HP	New Tier	Annual Usage (Hours)	Annual Usage (Miles)	Annual Usage (Fuel)	Project Life (Yrs)	Location (County)
3964	Tractor	Diesel	1970	120	Non-Tier	2021	115	Tier 4 Final	500			10	Madera
3965	Tractor	Diesel	1973	43	Non-Tier	2021	47	Tier 4 Final	200			10	Fresno
3966	Shaker	Diesel	1997	143	Tier 1	2020	174	Tier 4 Final	350			10	Fresno
3967	Tractor	Diesel	1990	90	Non-Tier	2021	100	Tier 4 Final	500			10	Madera
3968	Tractor	Diesel	1996	100	Non-Tier	2021	125	Tier 4 Final	325			10	Madera
3969	Tractor	Diesel	2006	99	Tier 2	2021	73	Tier 4 Final	300			10	Fresno
3970	Tractor	Diesel	1976	25	Non-Tier	2021	35	Tier 4 Final	100			10	Fresno
3971	Tractor	Diesel	1987	97	Non-Tier	2019	115	Tier 4 Final	600			10	Fresno
3972	Tractor	Diesel	1990	107	Non-Tier	2019	114	Tier 4 Final	700			10	Fresno
3973	Tractor	Diesel	1975	145	Non-Tier	2021	100	Tier 4 Final	200			10	Fresno
3974	Tractor	Diesel	1973	76	Non-Tier	2021	74	Tier 4 Final	200			10	Fresno
3975	Tractor	Diesel	1989	78	Non-Tier	2021	74	Tier 4 Final	100			10	Fresno
3976	Tractor	Diesel	1999	110	Tier 1	2018	107	Tier 4 Final	750			10	Fresno
3977	Tractor	Diesel	1980	45	Non-Tier	2019	54	Tier 4 Final	300			10	Fresno