San Joaquin Valley Unified Air Pollution Control District

2021 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 $1.7 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 billion, for a total public/private investment of well over $3.8 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 199,132 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.

[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 2021 Annual Demonstration Report. The data also includes 371 District projects and 152 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	2.49	0.22	0.35	0.01	0.00	0.00
2019	82.08	6.04	9.42	0.22	0.02	0.03
2020	974.35	64.76	102.59	2.67	0.18	0.28
2021	1015.56	67.63	107.31	2.78	0.19	0.29
2022	1013.37	67.56	107.14	2.78	0.19	0.29
2023	996.92	66.89	105.77	2.73	0.18	0.29
2024	996.27	66.89	105.76	2.73	0.18	0.29
2025	981.03	66.51	104.91	2.69	0.18	0.29
2026	981.03	66.51	104.91	2.69	0.18	0.29
2027	969.66	65.72	103.64	2.66	0.18	0.28
2028	967.16	65.49	103.29	2.65	0.18	0.28
2029	891.45	59.78	94.47	2.44	0.16	0.26
2030	45.28	3.02	4.71	0.12	0.01	0.01
2031	4.21	0.16	0.00	0.01	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 -2021 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	7122.99	377.45	859.10	19.52	1.03	2.35
2021	6352.38	348.06	755.03	17.40	0.95	2.07
2022	5622.99	314.69	653.73	15.41	0.86	1.79
2023	4976.10	286.83	571.26	13.63	0.79	1.57
2024	4360.32	259.84	469.27	11.95	0.71	1.29
2025	3736.71	232.41	392.41	10.24	0.64	1.08
2026	3307.48	208.62	342.53	9.06	0.57	0.94
2027	2697.49	176.72	277.26	7.39	0.48	0.76
2028	2012.44	132.71	206.35	5.51	0.36	0.57
2029	1083.43	70.46	108.70	2.97	0.19	0.30
2030	129.36	6.48	7.74	0.35	0.02	0.02
2031	88.30	3.62	3.04	0.24	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 2021 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.

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- 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.
- *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.

[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 SIP submittals.

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 – 05/21/2021. 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	1185*	1839*

**As of May 22, 2021*

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	3894*	2926*

**As of May 22, 2021*

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 2020 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 2021 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 – 2020 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 2020 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*	

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 2020 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
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*	

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.

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Table 11: Canceled NRCS Projects Previously Reported

Project Number	Annual Demonstration Report Year	Status	Related Emissions Reductions (total tons/year)
867	2013	Cancelled	1.27

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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 05/22/2020 through 5/21/2021. The data also includes 371 District projects and 152 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	2.49	0.22	0.35	0.01	0.00	0.00	6689.96	288.29	784.01	18.33	0.79	2.15
2019	82.08	6.04	9.42	0.22	0.02	0.03	7038.71	339.65	850.61	19.28	0.93	2.33
2020	974.35	64.76	102.59	2.67	0.18	0.28	7122.99	377.45	859.10	19.52	1.03	2.35
2021	1015.56	67.63	107.31	2.78	0.19	0.29	6352.38	348.06	755.03	17.40	0.95	2.07
2022	1013.37	67.56	107.14	2.78	0.19	0.29	5622.99	314.69	653.73	15.41	0.86	1.79
2023	996.92	66.89	105.77	2.73	0.18	0.29	4976.10	286.83	571.26	13.63	0.79	1.57
2024	996.27	66.89	105.76	2.73	0.18	0.29	4360.32	259.84	469.27	11.95	0.71	1.29
2025	981.03	66.51	104.91	2.69	0.18	0.29	3736.71	232.41	392.41	10.24	0.64	1.08
2026	981.03	66.51	104.91	2.69	0.18	0.29	3307.48	208.62	342.53	9.06	0.57	0.94
2027	969.66	65.72	103.64	2.66	0.18	0.28	2697.49	176.72	277.26	7.39	0.48	0.76
2028	967.16	65.49	103.29	2.65	0.18	0.28	2012.44	132.71	206.35	5.51	0.36	0.57
2029	891.45	59.78	94.47	2.44	0.16	0.26	1083.43	70.46	108.70	2.97	0.19	0.30
2030	45.28	3.02	4.71	0.12	0.01	0.01	129.36	6.48	7.74	0.35	0.02	0.02
2031	4.21	0.16	0.00	0.01	0.00	0.00	88.30	3.62	3.04	0.24	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	2.49	0.22	0.35	0.01	0.00	0.00	6543.73	281.80	774.05	17.93	0.77	2.12
2019	81.97	6.03	9.42	0.22	0.02	0.03	6819.25	330.79	810.80	18.68	0.91	2.22
2020	960.41	64.27	101.83	2.63	0.18	0.28	6876.85	367.83	816.38	18.84	1.01	2.24
2021	1001.47	67.13	106.53	2.74	0.18	0.29	6107.84	338.43	712.42	16.73	0.93	1.95
2022	999.40	67.07	106.37	2.74	0.18	0.29	5394.70	306.02	613.64	14.78	0.84	1.68
2023	992.57	66.73	105.76	2.72	0.18	0.29	4762.25	278.58	532.91	13.05	0.76	1.46
2024	992.06	66.73	105.76	2.72	0.18	0.29	4185.74	252.38	457.33	11.47	0.69	1.25
2025	976.83	66.35	104.91	2.68	0.18	0.29	3634.25	228.44	388.52	9.96	0.63	1.06
2026	976.83	66.35	104.91	2.68	0.18	0.29	3219.13	204.98	339.49	8.82	0.56	0.93
2027	965.45	65.56	103.64	2.65	0.18	0.28	2609.19	173.09	274.22	7.15	0.47	0.75
2028	962.96	65.34	103.29	2.64	0.18	0.28	1924.14	129.08	203.31	5.27	0.35	0.56
2029	887.24	59.62	94.47	2.43	0.16	0.26	995.13	66.83	105.66	2.73	0.18	0.29
2030	41.07	2.86	4.71	0.11	0.01	0.01	41.07	2.86	4.71	0.11	0.01	0.01
2031	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 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	0.11	0.00	0.00	0.00	0.00	0.00	219.46	8.85	39.82	0.60	0.02	0.11
2020	13.94	0.49	0.77	0.04	0.00	0.00	246.15	9.63	42.73	0.67	0.03	0.12
2021	14.08	0.50	0.77	0.04	0.00	0.00	244.53	9.63	42.61	0.67	0.03	0.12
2022	13.97	0.49	0.77	0.04	0.00	0.00	228.30	8.68	40.08	0.63	0.02	0.11
2023	4.35	0.16	0.01	0.01	0.00	0.00	213.85	8.26	38.35	0.59	0.02	0.11
2024	4.21	0.16	0.00	0.01	0.00	0.00	174.58	7.46	11.94	0.48	0.02	0.03
2025	4.21	0.16	0.00	0.01	0.00	0.00	102.47	3.97	3.89	0.28	0.01	0.01
2026	4.21	0.16	0.00	0.01	0.00	0.00	88.34	3.63	3.04	0.24	0.01	0.01
2027	4.21	0.16	0.00	0.01	0.00	0.00	88.30	3.62	3.04	0.24	0.01	0.01
2028	4.21	0.16	0.00	0.01	0.00	0.00	88.30	3.62	3.04	0.24	0.01	0.01
2029	4.21	0.16	0.00	0.01	0.00	0.00	88.30	3.62	3.04	0.24	0.01	0.01
2030	4.21	0.16	0.00	0.01	0.00	0.00	88.30	3.62	3.04	0.24	0.01	0.01
2031	4.21	0.16	0.00	0.01	0.00	0.00	88.30	3.62	3.04	0.24	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]	$86,864,358.18	$94,315,921.69	9,328.98	$9,311.24
Agricultural Pump Repower[1]	$108,320.00	$115,299.63	37.78	$2,867.13
New Electric Agricultural Pump[1]	$0.00	$0.00	0.00	$0.00
Truck Replacement[1]	$100,000.00	$130,753.32	3.65	$27,389.76
Locomotive Repower[2]	$2,015,694.92	$2,669,079.75	76.27	$26,427.03
Locomotive Replacement[2]	$1,243,888.70	$829,259.14	327.32	$3,800.25
Off-Road Agricultural UTV Replacement[2]	$2,296,642.02	$827,499.19	44.68	$51,404.78
Truck Replacement- Agricultural[2]	$6,889,570.54	$3,901,954.70	33.32	$206,789.68
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	29.99	2.28	3.22	0.08	0.01	0.01	3681.41	189.34	416.98	10.09	0.52	1.14
2020	786.13	51.97	80.91	2.15	0.14	0.22	4491.08	243.74	501.61	12.30	0.67	1.37
2021	817.05	53.97	84.17	2.24	0.15	0.23	4324.50	237.12	477.95	11.85	0.65	1.31
2022	814.98	53.92	84.00	2.23	0.15	0.23	3954.65	219.25	425.44	10.83	0.60	1.17

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	808.15	53.58	83.39	2.21	0.15	0.23	3603.29	203.70	380.80	9.87	0.56	1.04
2024	808.15	53.58	83.39	2.21	0.15	0.23	3219.26	186.51	331.92	8.82	0.51	0.91
2025	792.92	53.20	82.54	2.17	0.15	0.23	2852.96	170.89	290.12	7.82	0.47	0.79
2026	792.92	53.20	82.54	2.17	0.15	0.23	2540.31	157.38	255.13	6.96	0.43	0.70
2027	781.54	52.41	81.28	2.14	0.14	0.22	2166.48	139.79	218.70	5.94	0.38	0.60
2028	781.54	52.41	81.28	2.14	0.14	0.22	1658.86	108.59	169.40	4.54	0.30	0.46

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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	26.73	2.19	2.98	0.07	0.01	0.01	3135.48	169.05	370.09	8.59	0.46	1.01
2020	740.59	49.84	77.05	2.03	0.14	0.21	3953.32	223.84	455.14	10.83	0.61	1.25
2021	771.51	51.84	80.30	2.11	0.14	0.22	3813.91	218.11	432.93	10.45	0.60	1.19
2022	771.51	51.84	80.30	2.11	0.14	0.22	3510.40	202.94	386.21	9.62	0.56	1.06
2023	771.51	51.84	80.30	2.11	0.14	0.22	3200.56	188.47	344.51	8.77	0.52	0.94
2024	771.51	51.84	80.30	2.11	0.14	0.22	2932.47	174.82	305.68	8.03	0.48	0.84
2025	771.51	51.84	80.30	2.11	0.14	0.22	2713.61	164.83	276.58	7.43	0.45	0.76
2026	771.51	51.84	80.30	2.11	0.14	0.22	2448.98	153.17	245.98	6.71	0.42	0.67
2027	771.51	51.84	80.30	2.11	0.14	0.22	2101.09	137.07	212.22	5.76	0.38	0.58
2028	771.51	51.84	80.30	2.11	0.14	0.22	1614.78	106.93	165.21	4.42	0.29	0.45

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	3.25	0.10	0.24	0.01	0.00	0.00	140.27	5.65	15.44	0.38	0.02	0.04
2020	26.88	1.50	2.59	0.07	0.00	0.01	147.38	6.38	15.75	0.40	0.02	0.04
2021	26.88	1.50	2.59	0.07	0.00	0.01	144.44	6.30	15.61	0.40	0.02	0.04
2022	24.81	1.44	2.43	0.07	0.00	0.01	93.83	3.89	10.66	0.26	0.01	0.03
2023	17.98	1.11	1.82	0.05	0.00	0.00	82.86	3.40	9.58	0.23	0.01	0.03
2024	17.98	1.11	1.82	0.05	0.00	0.00	49.95	2.19	5.38	0.14	0.01	0.01
2025	16.86	1.08	1.77	0.05	0.00	0.00	32.97	1.58	3.36	0.09	0.00	0.01
2026	16.86	1.08	1.77	0.05	0.00	0.00	20.67	1.12	2.14	0.06	0.00	0.01
2027	9.85	0.56	0.96	0.03	0.00	0.00	12.21	0.59	1.22	0.03	0.00	0.00
2028	9.85	0.56	0.96	0.03	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	4.54	0.29	0.48	0.01	0.00	0.00	176.01	6.84	12.83	0.48	0.02	0.04
2021	4.54	0.29	0.48	0.01	0.00	0.00	159.74	6.18	11.99	0.44	0.02	0.03
2022	4.54	0.29	0.48	0.01	0.00	0.00	154.35	5.95	11.65	0.42	0.02	0.03
2023	4.54	0.29	0.48	0.01	0.00	0.00	130.43	5.41	10.14	0.36	0.01	0.03
2024	4.54	0.29	0.48	0.01	0.00	0.00	75.50	3.86	6.74	0.21	0.01	0.02
2025	4.54	0.29	0.48	0.01	0.00	0.00	47.67	2.90	4.78	0.13	0.01	0.01
2026	4.54	0.29	0.48	0.01	0.00	0.00	30.61	1.90	3.11	0.08	0.01	0.01
2027	0.18	0.01	0.02	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, 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	14.11	0.35	0.80	0.04	0.00	0.00	148.61	7.36	13.16	0.41	0.02	0.04
2021	14.11	0.35	0.80	0.04	0.00	0.00	148.61	7.36	13.16	0.41	0.02	0.04
2022	14.11	0.35	0.80	0.04	0.00	0.00	148.61	7.36	13.16	0.41	0.02	0.04
2023	14.11	0.35	0.80	0.04	0.00	0.00	148.56	7.35	13.15	0.41	0.02	0.04
2024	14.11	0.35	0.80	0.04	0.00	0.00	131.80	6.79	11.55	0.36	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	0.51	0.00	0.00	0.00	0.00	0.00	270.36	0.55	0.00	0.74	0.00	0.00
2020	0.51	0.00	0.00	0.00	0.00	0.00	70.33	0.00	0.00	0.19	0.00	0.00
2021	0.51	0.00	0.00	0.00	0.00	0.00	23.82	0.00	0.00	0.07	0.00	0.00
2022	0.51	0.00	0.00	0.00	0.00	0.00	21.77	0.00	0.00	0.06	0.00	0.00
2023	0.51	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	4.21	0.16	0.00	0.01	0.00	0.00	55.97	2.60	0.00	0.15	0.01	0.00
2021	4.21	0.16	0.00	0.01	0.00	0.00	55.97	2.60	0.00	0.15	0.01	0.00
2022	4.21	0.16	0.00	0.01	0.00	0.00	55.97	2.60	0.00	0.15	0.01	0.00
2023	4.21	0.16	0.00	0.01	0.00	0.00	55.97	2.60	0.00	0.15	0.01	0.00
2024	4.21	0.16	0.00	0.01	0.00	0.00	55.97	2.60	0.00	0.15	0.01	0.00
2025	4.21	0.16	0.00	0.01	0.00	0.00	55.97	2.60	0.00	0.15	0.01	0.00
2026	4.21	0.16	0.00	0.01	0.00	0.00	55.97	2.60	0.00	0.15	0.01	0.00
2027	4.21	0.16	0.00	0.01	0.00	0.00	55.97	2.60	0.00	0.15	0.01	0.00
2028	4.21	0.16	0.00	0.01	0.00	0.00	55.97	2.60	0.00	0.15	0.01	0.00
2029	4.21	0.16	0.00	0.01	0.00	0.00	55.97	2.60	0.00	0.15	0.01	0.00
2030	4.21	0.16	0.00	0.01	0.00	0.00	55.97	2.60	0.00	0.15	0.01	0.00
2031	4.21	0.16	0.00	0.01	0.00	0.00	55.97	2.60	0.00	0.15	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 On-Road 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	0.11	0.00	0.00	0.00	0.00	0.00	41.16	1.20	27.97	0.11	0.00	0.08
2020	9.73	0.34	0.77	0.03	0.00	0.00	55.67	1.60	30.37	0.15	0.00	0.08
2021	9.88	0.34	0.77	0.03	0.00	0.00	54.05	1.60	30.25	0.15	0.00	0.08
2022	9.77	0.34	0.77	0.03	0.00	0.00	37.82	0.66	27.72	0.10	0.00	0.08
2023	0.14	0.00	0.01	0.00	0.00	0.00	23.43	0.24	25.99	0.06	0.00	0.07
2024	0.00	0.00	0.00	0.00	0.00	0.00	0.91	0.01	1.18	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

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	2.49	0.22	0.35	0.01	0.00	0.00	2970.30	138.92	404.63	8.14	0.38	1.11
2019	51.48	3.75	6.20	0.14	0.01	0.02	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	173.77	12.29	20.91	0.48	0.03	0.06	2449.94	129.51	327.12	6.71	0.35	0.90
2021	183.91	13.15	22.37	0.50	0.04	0.06	1894.04	106.74	246.83	5.19	0.29	0.68
2022	183.91	13.15	22.37	0.50	0.04	0.06	1552.78	92.19	200.57	4.25	0.25	0.55
2023	183.91	13.15	22.37	0.50	0.04	0.06	1289.25	80.29	164.47	3.53	0.22	0.45
2024	183.91	13.15	22.37	0.50	0.04	0.06	1084.18	70.72	136.16	2.97	0.19	0.37
2025	183.91	13.15	22.37	0.50	0.04	0.06	827.78	58.93	102.29	2.27	0.16	0.28
2026	183.91	13.15	22.37	0.50	0.04	0.06	619.67	44.52	75.91	1.70	0.12	0.21
2027	183.91	13.15	22.37	0.50	0.04	0.06	475.03	34.33	58.56	1.30	0.09	0.16
2028	181.42	12.93	22.02	0.50	0.04	0.06	297.60	21.52	36.95	0.82	0.06	0.10

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Appendix A
District Incentive Program Project Information

Project Type Off-Road

Description Vehicle Replacement

SJVAPCD Project Data 2021

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-25129-1-A1	Agricultural Tractor	Diesel	2005	91	Tier 2	2019	106	Tier 4 Phase In/Alt NOx	1200			10	Kings
C-26407-1-A1	Agricultural Tractor	Diesel	1979	77	Tier 0	2017	106	Tier 4 Final	200			10	Fresno
C-31040-1-A1	Agricultural Tractor	Diesel	1987	81	Tier 0	2018	115	Tier 4 Final	800			10	Stanislaus
C-37897-1-A1	Agricultural Tractor	Diesel	1996	62	Tier 0	2019	58	Tier 4 Final	900			10	Tulare
C-37899-1-A1	Agricultural Tractor	Diesel	1999	72	Tier 1	2020	73	Tier 4 Final	900			10	Tulare
C-37900-1-A1	Agricultural Tractor	Diesel	1996	81	Tier 0	2019	123	Tier 4 Final	1700			10	Tulare
C-38428-1A	Swathers	Diesel	1996	152	Tier 0	2019	162	Tier 4 Final	500			10	Merced
C-39259-1-A1	Sprayer	Diesel	1998	89	Tier 1	2014	173	Tier 4 Phase In/Alt NOx	1000			10	Kings
C-39491-1-A1	Agricultural Tractor	Diesel	1978	76	Tier 0	2019	114	Tier 4 Final	150			10	Fresno
C-40634-1A	Agricultural Tractor	Diesel	1996	108	Tier 0	2019	61	Tier 4 Final	500			10	Merced
C-45086-1-A1	Agricultural Tractor	Diesel	1980	84	Tier 0	2020	123	Tier 4 Final	250			10	Fresno
C-45455-1-A1	Chopper	Diesel	2007	525	Tier 2	2019	764	Tier 4 Final	850			10	Tulare
C-46003-1-A1	Agricultural Tractor	Diesel	2004	300	Tier 2	2019	123	Tier 4 Final	350			10	Fresno
C-46310-1-A1	Wheel Loader	Diesel	1992	101	Tier 0	2020	93	Tier 4 Final	500			10	Merced
C-46851-1-A1	Wheel Loader	Diesel	1972	200	Tier 0	2019	272	Tier 4 Final	1000			10	Kings
C-46999-1-A1	Agricultural Tractor	Diesel	1968	58	Tier 0	2017	60	Tier 4 Final	100			10	Stanislaus
C-48460-1A	Agricultural Tractor	Diesel	2000	81	Tier 1	2018	100	Tier 4 Final	1000			10	Fresno
C-49088-1-A1	Agricultural Tractor	Diesel	2004	113	Tier 2	2019	114	Tier 4 Final	1000			10	Fresno
C-49381-1-A1	Agricultural Tractor	Diesel	2002	71	Tier 1	2020	73	Tier 4 Final	300			10	Merced
C-51132-1-A1	Wheel Loader	Diesel	2006	129	Tier 2	2019	173	Tier 4 Final	2000			10	Stanislaus
C-51801-1-A1	Wheel Loader	Diesel	1999	125	Tier 1	2020	166	Tier 4 Final	2000			10	Tulare
C-51802-1-A1	Wheel Loader	Diesel	1985	125	Tier 0	2020	166	Tier 4 Final	2000			10	Tulare
C-51893-1-A1	Agricultural Tractor	Diesel	1980	76	Tier 0	2019	106	Tier 4 Phase In/Alt NOx	300			10	Fresno
C-51949-1-A1	Wheel Loader	Diesel	1996	178	Tier 1	2020	231	Tier 4 Final	1600			10	Merced
C-51964-1-A1	Wheel Loader	Diesel	1988	85	Tier 0	2020	152	Tier 4 Final	1400			10	Fresno
C-52121-1-A1	Agricultural Tractor	Diesel	1999	53	Tier 1	2019	115	Tier 4 Final	700			10	Tulare
C-52776-1-A1	Wheel Loader	Diesel	1994	150	Tier 0	2020	192	Tier 4 Final	1800			10	Fresno
C-52809-1-A1	Wheel Loader	Diesel	1999	125	Tier 1	2018	182	Tier 4 Final	1500			10	Stanislaus
C-52922-1-A1	Wheel Loader	Diesel	1996	120	Tier 0	2020	166	Tier 4 Final	1200			10	Kings
C-52944-1-A1	Agricultural Tractor	Diesel	1991	97	Tier 0	2020	135	Tier 4 Final	1200			10	Tulare
C-52969-1-A1	Wheel Loader	Diesel	1997	90	Tier 0	2020	164	Tier 4 Final	1000			10	Madera

Project Type Off-Road

Description Vehicle Replacement

SJVAPCD Project Data 2021

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-52977-1-A1	Agricultural Tractor	Diesel	1996	50	Tier 0	2019	60	Tier 4 Final	750			10	Stanislaus
C-52998-1-A1	Sweeper	Diesel	1995	74	Tier 0	2019	74	Tier 4 Final	400			10	Stanislaus
C-53048-1-A1	Agricultural Tractor	Diesel	1995	270	Tier 0	2019	370	Tier 4 Final	1100			10	Stanislaus
C-53359-1-A1	Agricultural Tractor	Diesel	1988	88	Tier 0	2018	74	Tier 4 Final	500			10	Merced
C-53386-1-A1	Wheel Loader	Diesel	2005	160	Tier 2	2020	170	Tier 4 Final	3000			10	Kings
C-53475-1-A1	Agricultural Tractor	Diesel	2006	210	Tier 2	2020	270	Tier 4 Final	750			10	Fresno
C-53491-1-A1	Skid Loader	Diesel	1963	120	Tier 0	2018	73	Tier 4 Final	1250			10	Kings
C-53707-1-A1	Agricultural Tractor	Diesel	1997	156	Tier 1	2020	175	Tier 4 Final	650			10	Merced
C-53709-1-A1	Agricultural Tractor	Diesel	1996	99	Tier 0	2019	114	Tier 4 Final	450			10	Merced
C-53858-1-A1	Sprayer	Diesel	2007	93	Tier 2	2014	173	Tier 4 Phase In/Alt NOx	1000			10	Kings
C-53872-1-A1	Agricultural Tractor	Diesel	1997	99	Tier 0	2018	114	Tier 4 Final	500			10	Stanislaus
C-53935-1-A1	Wheel Loader	Diesel	2001	172	Tier 1	2020	182	Tier 4 Final	2900			10	Kings
C-53937-1-A1	Wheel Loader	Diesel	2005	153	Tier 2	2020	164	Tier 4 Final	2900			10	Kings
C-53938-1-A1	Wheel Loader	Diesel	2005	153	Tier 2	2018	188	Tier 4 Final	2900			10	Kings
C-54000-1-A1	Agricultural Tractor	Diesel	2004	283	Tier 2	2018	370	Tier 4 Final	1000			10	Kings
C-54082-1-A1	Agricultural Tractor	Diesel	2005	175	Tier 2	2020	230	Tier 4 Final	450			10	Fresno
C-54116-1-A1	Agricultural Tractor	Diesel	1991	88	Tier 0	2019	123	Tier 4 Final	250			10	Kings
C-54122-1-A1	Skid Loader	Diesel	1973	43	Tier 0	2018	73	Tier 4 Final	250			10	Fresno
C-54340-1-A1	Sprayer	Diesel	1982	84	Tier 0	2014	173	Tier 4 Phase In/Alt NOx	1000			10	Kings
C-54419-1-A1	Wheel Loader	Diesel	1988	168	Tier 0	2020	232	Tier 4 Final	1500			10	Tulare
C-54447-1-A1	Agricultural Tractor	Diesel	2006	105	Tier 2	2019	114	Tier 4 Final	420			10	Fresno
C-54543-1-A1	Wheel Loader	Diesel	1976	100	Tier 0	2019	100	Tier 4 Final	300			10	Merced
C-54545-1-A1	Agricultural Tractor	Diesel	1969	58	Tier 0	2016	58	Tier 4 Final	300			10	Merced
C-54585-1-A1	Wheel Loader	Diesel	2004	145	Tier 2	2020	166	Tier 4 Final	550			10	Merced
C-54599-1-A1	Agricultural Tractor	Diesel	1986	90	Tier 0	2017	189	Tier 4 Final	2000			10	Fresno
C-54720-1-A1	Wheel Loader	Diesel	2001	235	Tier 1	2020	307	Tier 4 Final	2000			10	Tulare
C-54726-1-A1	Wheel Loader	Diesel	1974	170	Tier 0	2018	164	Tier 4 Final	2000			10	Tulare
C-54745-1-A1	Agricultural Tractor	Diesel	1989	168	Tier 0	2020	250	Tier 4 Final	600			10	Merced
C-54827-1-A1	Agricultural Tractor	Diesel	2000	325	Tier 2	2019	283	Tier 4 Final	1000			10	Kern
C-54888-1-A1	Back Hoe	Diesel	1971	57	Tier 0	2020	74	Tier 4 Final	200			10	San Joaquin
C-54890-1-A1	Agricultural Tractor	Diesel	1974	25	Tier 0	2019	50	Tier 4 Final	200			10	San Joaquin

Project Type Off-Road

Description Vehicle Replacement

SJVAPCD Project Data 2021

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-54894-1-A1	Agricultural Tractor	Diesel	1967	114	Tier 0	2019	106	Tier 4 Final	375			10	Stanislaus
C-54945-1-A1	Agricultural Tractor	Diesel	2005	91	Tier 2	2019	106	Tier 4 Phase In/Alt NOx	261			10	Tulare
C-54955-1-A1	Agricultural Tractor	Diesel	2001	90	Tier 1	2017	100	Tier 4 Final	1276			10	Tulare
C-55266-1-A1	Agricultural Tractor	Diesel	1974	42	Tier 0	2019	74	Tier 4 Final	250			10	Stanislaus
C-55370-1-A1	Agricultural Tractor	Diesel	2003	210	Tier 2	2019	236	Tier 4 Final	800			10	Merced
C-55889-1-A1	Wheel Loader	Diesel	1986	123	Tier 0	2019	164	Tier 4 Final	1400			10	Tulare
C-55950-1-A1	Harvester	Diesel	2007	757	Tier 2	2017	617	Tier 4 Final	700			10	Tulare
C-55963-1-A1	Agricultural Tractor	Diesel	1980	38	Tier 0	2019	43	Tier 4 Final	1000			10	Kern
C-56287-1-A1	Agricultural Tractor	Diesel	2001	202	Tier 1	2020	236	Tier 4 Final	2000			10	Tulare
C-56638-1-A1	Agricultural Tractor	Diesel	1979	410	Tier 0	2020	123	Tier 4 Final	1500			10	Merced
C-56946-1-A1	Agricultural Tractor	Diesel	1965	46	Tier 0	2019	32	Tier 4 Final	100			10	Tulare
C-57022-1-A1	Agricultural Tractor	Diesel	1986	77	Tier 0	2018	115	Tier 4 Final	400			10	Merced
C-57065-1-A1	Agricultural Tractor	Diesel	1979	37	Tier 0	2018	31	Tier 4 Final	250			10	Fresno
C-57152-1-A1	Wheel Loader	Diesel	1990	135	Tier 0	2018	139	Tier 4 Final	1000			10	Stanislaus
C-57154-1-A1	Agricultural Tractor	Diesel	1990	100	Tier 0	2019	106	Tier 4 Final	800			10	Stanislaus
C-57157-1-A1	Wheel Loader	Diesel	2000	170	Tier 1	2019	183	Tier 4 Final	2100			10	Kern
C-57766-1-A1	Agricultural Tractor	Diesel	1997	81	Tier 0	2019	106	Tier 4 Final	400			10	Merced
C-57783-1-A1	Agricultural Tractor	Diesel	1976	80	Tier 0	2018	95	Tier 4 Final	250			10	Tulare
C-57825-1-A1	Ag Siliage Bagger	Diesel	1994	400	Tier 0	2020	536	Tier 4 Final	600			10	Kings
C-57830-1-A1	Agricultural Tractor	Diesel	1991	109	Tier 0	2019	173	Tier 4 Final	600			10	San Joaquin
C-57831-1-A1	Agricultural Tractor	Diesel	1991	94	Tier 0	2019	153	Tier 4 Final	600			10	San Joaquin
C-57979-1-A1	Forklift	Diesel	2001	80	Tier 1	2012	74	Tier 4 Interim	200			10	Kings
C-58285-1-A1	Agricultural Tractor	Diesel	2005	99	Tier 2	2020	130	Tier 4 Final	500			10	Fresno
C-58344-1-A1	Agricultural Tractor	Diesel	1974	58	Tier 0	2020	75	Tier 4 Final	200			10	Fresno
C-58492-1-A1	Sprayer	Diesel	2008	93	Tier 2	2014	173	Tier 4 Phase In/Alt NOx	1000			10	Kings
C-58495-1-A1	Sprayer	Diesel	2008	93	Tier 2	2014	173	Tier 4 Phase In/Alt NOx	1000			10	Kings
C-58499-1-A1	Sprayer	Diesel	2008	93	Tier 2	2014	173	Tier 4 Phase In/Alt NOx	1000			10	Kings
C-58832-1-A1	Ag Siliage Bagger	Diesel	1990	250	Tier 0	2019	275	Tier 4 Final	800			10	San Joaquin
C-58835-1-A1	Wheel Loader	Diesel	2005	199	Tier 2	2020	231	Tier 4 Final	1500			10	Madera
C-58849-1A	Agricultural Tractor	Diesel	1968	115	Tier 0	2019	123	Tier 4 Final	500			10	Fresno
C-59052-1-A1	Agricultural Tractor	Diesel	1996	120	Tier 0	2016	155	Tier 4 Final	1200			10	San Joaquin

Project Type Off-Road

Description Vehicle Replacement

SJVAPCD Project Data 2021

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-59055-1-A1	Agricultural Tractor	Diesel	1973	93	Tier 0	2019	125	Tier 4 Final	500			10	San Joaquin
C-59056-1-A1	Agricultural Tractor	Diesel	1993	180	Tier 0	2019	245	Tier 4 Final	1000			10	San Joaquin
C-59229-1-A1	Agricultural Tractor	Diesel	1965	140	Tier 0	2019	175	Tier 4 Final	1000			10	San Joaquin
C-59251-1-A1	Agricultural Tractor	Diesel	1964	130	Tier 0	2019	175	Tier 4 Final	1000			10	San Joaquin
C-59651-1-A1	Agricultural Tractor	Diesel	1984	83	Tier 0	2019	114	Tier 4 Final	1000			10	San Joaquin
C-59669-1-A1	Agricultural Tractor	Diesel	1968	76	Tier 0	2020	73	Tier 4 Final	250			10	San Joaquin
C-59828-1-A1	Agricultural Tractor	Diesel	2006	105	Tier 2	2018	123	Tier 4 Final	350			10	Tulare
C-59843-1-A1	Agricultural Tractor	Diesel	1978	44	Tier 0	2019	55	Tier 4 Final	225			10	San Joaquin
C-60267-1-A1	Agricultural Tractor	Diesel	1989	204	Tier 0	2019	250	Tier 4 Final	1800			10	Fresno
C-60268-1-A1	Agricultural Tractor	Diesel	1991	94	Tier 0	2020	123	Tier 4 Final	1800			10	Fresno
C-60270-1-A1	Agricultural Tractor	Diesel	1982	128	Tier 0	2019	158	Tier 4 Final	900			10	Stanislaus
C-60280-1-A1	Agricultural Tractor	Diesel	1993	96	Tier 0	2019	114	Tier 4 Final	400			10	Stanislaus
C-60313-1-A1	Agricultural Tractor	Diesel	1992	103	Tier 0	2019	114	Tier 4 Final	400			10	Stanislaus
C-60395-1-A1	Agricultural Tractor	Diesel	1996	97	Tier 0	2018	125	Tier 4 Final	900			10	Tulare
C-60396-1-A1	Agricultural Tractor	Diesel	1996	97	Tier 0	2019	115	Tier 4 Final	900			10	Tulare
C-60397-1-A1	Shaker	Diesel	2001	125	Tier 1	2019	174	Tier 4 Final	600			10	Stanislaus
C-60446-1-A1	Agricultural Tractor	Diesel	2006	113	Tier 2	2019	123	Tier 4 Final	1000			10	Fresno
C-60447-1-A1	Agricultural Tractor	Diesel	2000	114	Tier 1	2019	123	Tier 4 Final	1000			10	Fresno
C-60748-1-A1	Agricultural Tractor	Diesel	1974	58	Tier 0	2020	106	Tier 4 Phase In/Alt NOx	475			10	Fresno
C-60793-1-A1	Wheel Loader	Diesel	2007	160	Tier 2	2020	192	Tier 4 Final	1800			10	Tulare
C-60847-1-A1	Almond Shaker	Diesel	2005	155	Tier 2	2020	174	Tier 4 Final	600			10	San Joaquin
C-60849-1-A1	Almond Shaker	Diesel	2006	155	Tier 2	2020	174	Tier 4 Final	600			10	San Joaquin
C-60881-1-A1	Agricultural Tractor	Diesel	1983	168	Tier 0	2019	123	Tier 4 Final	250			10	Fresno
C-60888-1-A1	Agricultural Tractor	Diesel	1990	100	Tier 0	2019	114	Tier 4 Final	250			10	Madera
C-60906-1-A1	Forklift	Diesel	2002	46	Tier 1	2019	57	Tier 4 Final	320			10	Tulare
C-60914-1-A1	Agricultural Tractor	Diesel	2001	110	Tier 1	2019	114	Tier 4 Final	320			10	Tulare
C-60948-1-A1	Agricultural Tractor	Diesel	1975	354	Tier 0	2019	420	Tier 4 Final	320			10	Tulare
C-60963-1-A1	Forklift	Diesel	2002	46	Tier 1	2019	57	Tier 4 Final	320			10	Tulare
C-60987-1-A1	Wheel Loader	Diesel	1969	104	Tier 0	2019	152	Tier 4 Final	900			10	Fresno
C-60992-1-A1	Agricultural Tractor	Diesel	1998	118	Tier 1	2019	139	Tier 4 Final	900			10	Stanislaus
C-61087-1-A1	Agricultural Tractor	Diesel	1981	30	Tier 0	2019	66	Tier 4 Final	500			10	Kings

Project Type Off-Road

Description Vehicle Replacement

SJVAPCD Project Data 2021

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-61145-1-A1	Agricultural Tractor	Diesel	2003	283	Tier 2	2020	250	Tier 4 Final	1500			10	Kings
C-61455-1-A1	Spreader	Diesel	1999	300	Tier 1	2018	340	Tier 4 Final	500			10	Madera
C-61535-1-A1	Agricultural Tractor	Diesel	2001	222	Tier 1	2020	626	Tier 4 Final	1000			10	Merced
C-61544-1-A1	Agricultural Tractor	Diesel	2000	90	Tier 1	2019	110	Tier 4 Final	500			10	Tulare
C-61545-1-A1	Agricultural Tractor	Diesel	2005	105	Tier 2	2020	105	Tier 4 Final	500			10	Tulare
C-61546-1-A1	Agricultural Tractor	Diesel	1983	102	Tier 0	2019	120	Tier 4 Final	500			10	Tulare
C-61548-1-A1	Agricultural Tractor	Diesel	2005	105	Tier 2	2019	105	Tier 4 Final	500			10	Tulare
C-61556-1-A1	Agricultural Tractor	Diesel	1998	81	Tier 1	2020	89	Tier 4 Final	500			10	Tulare
C-61601-1-A1	Agricultural Tractor	Diesel	1984	94	Tier 0	2020	106	Tier 4 Phase In/Alt NOx	250			10	Fresno
C-61614-1-A1	Agricultural Tractor	Diesel	2003	199	Tier 2	2020	155	Tier 4 Final	800			10	Merced
C-61615-1-A1	Agricultural Tractor	Diesel	2003	117	Tier 2	2020	155	Tier 4 Final	800			10	Merced
C-61616-1-A1	Agricultural Tractor	Diesel	2000	104	Tier 1	2020	155	Tier 4 Final	800			10	Merced
C-61617-1-A1	Agricultural Tractor	Diesel	1994	120	Tier 0	2020	155	Tier 4 Final	800			10	Merced
C-61618-1-A1	Agricultural Tractor	Diesel	1995	120	Tier 0	2020	155	Tier 4 Final	800			10	Merced
C-61619-1-A1	Agricultural Tractor	Diesel	1974	151	Tier 0	2020	155	Tier 4 Final	800			10	Merced
C-61620-1-A1	Agricultural Tractor	Diesel	1984	102	Tier 0	2020	155	Tier 4 Final	800			10	Merced
C-61626-1-A1	Agricultural Tractor	Diesel	2004	29	Tier 2	2020	40	Tier 4 Final	1100			10	Stanislaus
C-61665-1-A1	Agricultural Tractor	Diesel	1989	63	Tier 0	2020	115	Tier 4 Final	1000			10	Fresno
C-61728-1-A1	Agricultural Tractor	Diesel	1999	92	Tier 1	2020	114	Tier 4 Final	1000			10	Fresno
C-61858-1-A1	Agricultural Tractor	Diesel	2004	86	Tier 2	2019	52	Tier 4 Final	500			10	Tulare
C-61859-1-A1	Agricultural Tractor	Diesel	2004	29	Tier 1	2018	52	Tier 4 Final	315			10	Kern
C-61860-1-A1	Agricultural Tractor	Diesel	2007	51	Tier 2	2019	52	Tier 4 Final	319			10	Tulare
C-61861-1-A1	Agricultural Tractor	Diesel	2007	51	Tier 2	2019	55	Tier 4 Final	700			10	Kern
C-61862-1-A1	Agricultural Tractor	Diesel	2007	51	Tier 2	2018	52	Tier 4 Final	288			10	Tulare
C-61863-1-A1	Agricultural Tractor	Diesel	1995	84	Tier 0	2019	52	Tier 4 Final	43			10	Tulare
C-61864-1-A1	Agricultural Tractor	Diesel	2004	92	Tier 2	2018	106	Tier 4 Phase In/Alt NOx	886			10	Kern
C-61866-1-A1	Agricultural Tractor	Diesel	2001	29	Tier 1	2018	52	Tier 4 Final	500			10	Kern
C-61867-1-A1	Agricultural Tractor	Diesel	2001	29	Tier 1	2018	52	Tier 4 Final	500			10	Kern
C-61868-1-A1	Agricultural Tractor	Diesel	2002	73	Tier 1	2018	52	Tier 4 Final	601			10	Tulare
C-61869-1-A1	Agricultural Tractor	Diesel	2004	51	Tier 2	2018	52	Tier 4 Final	434			10	Kern
C-62030-1-A1	Agricultural Tractor	Diesel	2004	51	Tier 2	2019	52	Tier 4 Final	779			10	Kern

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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)
C-62056-1-A1	Agricultural Tractor	Diesel	2005	259	Tier 2	2018	245	Tier 4 Final	2500			10	Kern
C-62070-1-A1	Agricultural Tractor	Diesel	2004	259	Tier 2	2019	245	Tier 4 Final	1500			10	Kern
C-62198-1-A1	Agricultural Tractor	Diesel	1996	350	Tier 1	2020	545	Tier 4 Final	1000			10	Merced
C-62202-1-A1	Agricultural Tractor	Diesel	1994	400	Tier 0	2018	550	Tier 4 Final	500			10	Merced
C-62219-1-A1	Back Hoe	Diesel	1998	84	Tier 1	2020	68	Tier 4 Final	1500			10	Kern
C-62347-1-A1	Agricultural Tractor	Diesel	1975	151	Tier 0	2019	123	Tier 4 Final	800			10	Fresno
C-62489-1-A1	Agricultural Tractor	Diesel	1986	192	Tier 0	2016	276	Tier 4 Final	700			10	Kings
C-62543-1-A1	Agricultural Tractor	Diesel	2006	91	Tier 2	2019	74	Tier 4 Final	2400			10	Kern
C-62546-1-A1	Agricultural Tractor	Diesel	2006	91	Tier 2	2019	74	Tier 4 Final	2400			10	Kern
C-62566-1-A1	Agricultural Tractor	Diesel	2002	114	Tier 1	2018	74	Tier 4 Final	2400			10	Kern
C-62571-1-A1	Agricultural Tractor	Diesel	2000	114	Tier 1	2018	74	Tier 4 Final	2400			10	Kern
C-62575-1-A1	Agricultural Tractor	Diesel	1997	102	Tier 1	2018	74	Tier 4 Final	2400			10	Kern
C-62577-1-A1	Agricultural Tractor	Diesel	2005	91	Tier 2	2018	74	Tier 4 Final	2400			10	Kern
C-62583-1-A1	Agricultural Tractor	Diesel	1991	109	Tier 0	2019	101	Tier 4 Final	720			10	Merced
C-62666-1-A1	Agricultural Tractor	Diesel	2004	71	Tier 1	2018	106	Tier 4 Phase In/Alt NOx	2378			10	Tulare
C-62673-1-A1	Agricultural Tractor	Diesel	2004	71	Tier 1	2017	98	Tier 4 Phase In/Alt NOx	600			10	Kern
C-62686-1-A1	Agricultural Tractor	Diesel	1978	84	Tier 0	2020	123	Tier 4 Final	500			10	Stanislaus
C-62737-1-A1	Conveyor	Diesel	1985	80	Tier 0	2019	74	Tier 4 Final	400			10	Stanislaus
C-62740-1-A1	Agricultural Tractor	Diesel	1992	84	Tier 0	2019	115	Tier 4 Final	1000			10	Fresno
C-62757-1-A1	Sprayer	Diesel	2005	200	Tier 2	2018	115	Tier 4 Final	500			10	Kern
C-62809-1-A1	Agricultural Tractor	Diesel	1990	77	Tier 0	2020	123	Tier 4 Final	500			10	Stanislaus
C-62810-1-A1	Agricultural Tractor	Diesel	1974	84	Tier 0	2020	123	Tier 4 Final	500			10	Stanislaus
C-62912-1-A1	Wheel Loader	Diesel	1971	130	Tier 0	2018	157	Tier 4 Final	2920			10	Tulare
C-62917-1-A1	Skid Loader	Diesel	2000	74	Tier 1	2019	74	Tier 4 Final	650			10	San Joaquin
C-62938-1-A1	Sprayer	Diesel	2007	93	Tier 2	2014	173	Tier 4 Phase In/Alt NOx	1000			10	Kings
C-62973-1-A1	Skid Loader	Diesel	2004	49	Tier 2	2020	73	Tier 4 Final	600			10	Kings
C-63008-1-A1	Agricultural Tractor	Diesel	1981	45	Tier 0	2019	58	Tier 4 Final	300			10	Fresno
C-63048-1-A1	Agricultural Tractor	Diesel	2006	258	Tier 2	2020	410	Tier 4 Final	1500			10	Stanislaus
C-63113-1-A1	Agricultural Tractor	Diesel	1997	120	Tier 1	2020	155	Tier 4 Final	500			10	Kings
C-63168-1-A1	Wheel Loader	Diesel	2003	111	Tier 2	2019	139	Tier 4 Final	1500			10	Stanislaus
C-63198-1-A1	Almond Shaker	Diesel	1993	115	Tier 0	2020	139	Tier 4 Final	550			10	Fresno

Project Type Off-Road

Description Vehicle Replacement

SJVAPCD Project Data 2021

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-63295-1-A1	Agricultural Tractor	Diesel	1990	110	Tier 0	2019	155	Tier 4 Final	700			10	Kern
C-63318-1-A1	Agricultural Tractor	Diesel	1984	63	Tier 0	2019	73	Tier 4 Final	1920			10	Merced
C-63339-1-A1	Wheel Loader	Diesel	1999	135	Tier 1	2020	166	Tier 4 Final	1500			10	Tulare
C-63344-1-A1	Shaker	Diesel	1998	150	Tier 1	2020	139	Tier 4 Final	400			10	Fresno
C-63476-1-A1	Almond Shaker	Diesel	1995	115	Tier 0	2020	174	Tier 4 Final	300			10	Fresno
C-63477-1-A1	Almond Shaker	Diesel	1998	125	Tier 1	2020	174	Tier 4 Final	300			10	Fresno
C-63478-1-A1	Almond Shaker	Diesel	1999	125	Tier 1	2020	174	Tier 4 Final	300			10	Fresno
C-63512-1-A1	Sprayer	Diesel	2007	93	Tier 2	2014	173	Tier 4 Phase In/Alt NOx	1000			10	Kings
C-63517-1-A1	Agricultural Tractor	Diesel	1994	95	Tier 0	2020	119	Tier 4 Final	480			10	Kings
C-63570-1-A1	Agricultural Tractor	Diesel	1988	198	Tier 0	2020	210	Tier 4 Final	842			10	Kings
C-63611-1-A1	Cotton Picker	Diesel	2002	325	Tier 1	2019	560	Tier 4 Final	750			10	Kings
C-63611-1-A1	Cotton Picker	Diesel	2004	325	Tier 1								Kings
C-63614-1-A1	Agricultural Tractor	Diesel	1997	135	Tier 1	2019	100	Tier 4 Final	750			10	Kings
C-63623-1-A1	Agricultural Tractor	Diesel	2001	175	Tier 1	2020	230	Tier 4 Final	750			10	Kings
C-63649-1-A1	Agricultural Tractor	Diesel	1998	270	Tier 1	2020	310	Tier 4 Final	750			10	Kings
C-63677-1-A1	Shaker	Diesel	1998	125	Tier 1	2019	174	Tier 4 Final	1600			10	Madera
C-63686-1-A1	Shaker	Diesel	2000	125	Tier 1	2019	174	Tier 4 Final	1600			10	Madera
C-63688-1-A1	Shaker	Diesel	2000	125	Tier 1	2019	174	Tier 4 Final	1600			10	Madera
C-63695-1-A1	Agricultural Tractor	Diesel	1990	280	Tier 0	2020	545	Tier 4 Final	300			10	Merced
C-63718-1-A1	Shaker	Diesel	1998	125	Tier 1	2019	174	Tier 4 Final	1600			10	Madera
C-63732-1-A1	Agricultural Tractor	Diesel	2003	425	Tier 2	2020	626	Tier 4 Final	450			10	Merced
C-63736-1-A1	Agricultural Tractor	Diesel	1976	75	Tier 0	2019	114	Tier 4 Final	500			10	Merced
C-63781-1-A1	Agricultural Tractor	Diesel	2005	283	Tier 2	2019	400	Tier 4 Final	1400			10	Kings
C-63785-1-A1	Agricultural Tractor	Diesel	2005	259	Tier 2	2018	375	Tier 4 Final	1400			10	Kings
C-63798-1-A1	Agricultural Tractor	Diesel	2005	231	Tier 2	2018	311	Tier 4 Final	1400			10	Kings
C-63800-1-A1	Agricultural Tractor	Diesel	2005	231	Tier 2	2019	311	Tier 4 Final	1400			10	Kings
C-63911-1-A1	Agricultural Tractor	Diesel	2006	98	Tier 2	2020	106	Tier 4 Final	500			10	Merced
C-63939-1-A1	Forklift	Diesel	2004	80	Tier 2	2020	74	Tier 4 Final	500			10	San Joaquin
C-64013-1-A1	Wheel Loader	Diesel	2001	110	Tier 1	2018	153	Tier 4 Final	2100			10	Merced
C-64024-1-A1	Wheel Loader	Diesel	2000	125	Tier 1	2019	112	Tier 4 Final	2500			10	Merced
C-64166-1-A1	Agricultural Tractor	Diesel	1976	48	Tier 0	2019	73	Tier 4 Final	500			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)
C-64184-1-A1	Agricultural Tractor	Diesel	1998	91	Tier 1	2019	114	Tier 4 Final	500			10	Stanislaus
C-64213-1-A1	Wheel Loader	Diesel	1993	150	Tier 0	2020	170	Tier 4 Final	2800			10	Stanislaus
C-64230-1-A1	Sweeper	Diesel	2003	80	Tier 1	2019	74	Tier 4 Final	400			10	Tulare
C-64294-1-A1	Agricultural Tractor	Diesel	1996	108	Tier 1	2019	114	Tier 4 Final	250			10	Fresno
C-64299-1-A1	Agricultural Tractor	Diesel	1966	96	Tier 0	2019	114	Tier 4 Final	250			10	Fresno
C-64312-1-A1	Agricultural Tractor	Diesel	1985	139	Tier 0	2017	115	Tier 4 Final	500			10	Merced
C-64325-1-A1	Agricultural Tractor	Diesel	1975	103	Tier 0	2018	115	Tier 4 Final	500			10	Merced
C-64339-1-A1	Agricultural Tractor	Diesel	1993	156	Tier 0	2019	115	Tier 4 Final	500			10	Merced
C-64344-1-A1	Agricultural Tractor	Diesel	1979	69	Tier 0	2018	98	Tier 4 Final	600			10	Fresno
C-64351-1-A1	Wheel Loader	Diesel	1988	110	Tier 0	2020	148	Tier 4 Final	2000			10	Tulare
C-64352-1-A1	Wheel Loader	Diesel	1987	110	Tier 0	2020	148	Tier 4 Final	2000			10	Tulare
C-64354-1-A1	Wheel Loader	Diesel	1990	135	Tier 0	2019	164	Tier 4 Final	2000			10	Tulare
C-64369-1-A1	Wheel Loader	Diesel	1989	110	Tier 0	2019	148	Tier 4 Final	2000			10	Tulare
C-64372-1-A1	Wheel Loader	Diesel	1989	110	Tier 0	2019	148	Tier 4 Final	2000			10	Tulare
C-64375-1-A1	Wheel Loader	Diesel	1993	120	Tier 0	2020	148	Tier 4 Final	2000			10	Tulare
C-64376-1-A1	Agricultural Tractor	Diesel	1990	156	Tier 0	2017	115	Tier 4 Final	500			10	Merced
C-64405-1-A1	Agricultural Tractor	Diesel	2005	98	Tier 2	2020	123	Tier 4 Final	1800			10	Kings
C-64408-1-A1	Agricultural Tractor	Diesel	2001	53	Tier 1	2020	50	Tier 4 Final	1400			10	Kings
C-64411-1-A1	Agricultural Tractor	Diesel	1993	102	Tier 0	2019	115	Tier 4 Final	1500			10	Fresno
C-64413-1-A1	Wheel Tractor	Diesel	2001	53	Tier 1	2020	50	Tier 4 Final	1400			10	Kings
C-64438-1-A1	Agricultural Tractor	Diesel	1985	63	Tier 0	2019	74	Tier 4 Final	400			10	San Joaquin
C-64439-1-A1	Agricultural Tractor	Diesel	1969	84	Tier 0	2019	106	Tier 4 Phase In/Alt NOx	250			10	San Joaquin
C-64449-1-A1	Wheel Loader	Diesel	1979	100	Tier 0	2019	115	Tier 4 Final	1000			10	Tulare
C-64467-1-A1	Other Agricultural	Diesel	2005	860	Tier 1	2019	1050	Tier 4 Final	1500			10	San Joaquin
C-64508-1-A1	Swathers	Diesel	2004	186	Tier 2	2016	225	Tier 4 Final	500			10	Stanislaus
C-64510-1-A1	Agricultural Tractor	Diesel	1974	192	Tier 0	2020	233	Tier 4 Final	400			10	Kern
C-64515-1-A1	Wheel Loader	Diesel	1994	120	Tier 0	2020	164	Tier 4 Final	425			10	Merced
C-64595-1-A1	Agricultural Tractor	Diesel	1981	84	Tier 0	2020	114	Tier 4 Final	950			10	Merced
C-64626-1-A1	Agricultural Tractor	Diesel	2006	86	Tier 2	2019	115	Tier 4 Final	500			10	Tulare
C-64643-1-A1	Wheel Loader	Diesel	1990	110	Tier 0	2019	164	Tier 4 Final	1100			10	Fresno
C-64723-1-A1	Agricultural Tractor	Diesel	2005	55	Tier 2	2018	73	Tier 4 Final	500			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)
C-64774-1-A1	Agricultural Tractor	Diesel	1983	216	Tier 0	2020	123	Tier 4 Final	100			10	Madera
C-64909-1-A1	Agricultural Tractor	Diesel	1966	79	Tier 0	2019	100	Tier 4 Final	300			10	Fresno
C-64914-1-A1	Agricultural Tractor	Diesel	1981	84	Tier 0	2020	67	Tier 4 Final	600			10	Tulare
C-64938-1-A1	Agricultural Tractor	Diesel	1976	80	Tier 0	2020	67	Tier 4 Final	600			10	Tulare
C-64939-1-A1	Agricultural Tractor	Diesel	1979	76	Tier 0	2019	52	Tier 4 Final	600			10	Fresno
C-64948-1-A1	Wheel Loader	Diesel	1995	125	Tier 0	2018	166	Tier 4 Final	1200			10	Tulare
C-64961-1-A1	Agricultural Tractor	Diesel	1979	84	Tier 0	2020	67	Tier 4 Final	600			10	Tulare
C-64978-1-A1	Agricultural Tractor	Diesel	1980	80	Tier 0	2020	67	Tier 4 Final	600			10	Tulare
C-64992-1-A1	Agricultural Tractor	Diesel	1997	99	Tier 0	2020	90	Tier 4 Final	600			10	Tulare
C-65005-1-A1	Agricultural Tractor	Diesel	1984	67	Tier 0	2017	106	Tier 4 Final	250			10	Stanislaus
C-65070-1-A1	Agricultural Tractor	Diesel	1982	84	Tier 0	2020	115	Tier 4 Final	800			10	Fresno
C-65179-1-A1	Agricultural Tractor	Diesel	2006	112	Tier 2	2019	123	Tier 4 Final	420			10	Fresno
C-65181-1-A1	Agricultural Tractor	Diesel	2006	112	Tier 2	2019	123	Tier 4 Final	506			10	Fresno
C-65206-1-A1	Wheel Loader	Diesel	1992	105	Tier 0	2019	165	Tier 4 Final	1000			10	Stanislaus
C-65209-1-A1	Agricultural Tractor	Diesel	2002	231	Tier 1	2018	281	Tier 4 Final	1500			10	Madera
C-65214-1-A1	Agricultural Tractor	Diesel	1992	105	Tier 0	2019	120	Tier 4 Final	400			10	Fresno
C-65230-1-A1	Tractor	Diesel	2002	98	Tier 1	2019	114	Tier 4 Final	600			10	Stanislaus
C-65250-1-A1	Agricultural Tractor	Diesel	1999	88	Tier 1	2018	90	Tier 4 Final	1200			10	Kern
C-65268-1-A1	Shaker	Diesel	2004	115	Tier 2	2020	174	Tier 4 Final	800			10	Fresno
C-65318-1-A1	Sweeper	Diesel	1986	74	Tier 0	2019	74	Tier 4 Final	400			10	Kern
C-65337-1-A1	Wheel Loader	Diesel	2007	160	Tier 2	2020	192	Tier 4 Final	2000			10	Stanislaus
C-65341-1-A1	Harvester	Diesel	1981	70	Tier 0	2020	174	Tier 4 Final	600			10	Madera
C-65348-1-A1	Harvester	Diesel	1986	70	Tier 0	2020	174	Tier 4 Final	600			10	Madera
C-65380-1-A1	Almond Shaker	Diesel	1986	104	Tier 0	2018	74	Tier 4 Final	400			10	Kern
C-65381-1-A1	Tractor	Diesel	1977	67	Tier 0	2020	73	Tier 4 Final	600			10	Tulare
C-65382-1-A1	Agricultural Tractor	Diesel	1993	115	Tier 0	2018	114	Tier 4 Final	2000			10	Stanislaus
G-100447-A1	Agricultural Tractor	Diesel	2005	113	Tier 2	2020	123	Tier 4 Final	1000			10	Kern
G-101499-A1	Sweeper	Diesel	2002	80	Tier 2	2020	74	Tier 4 Final	800			10	Kern
G-101505-A1	Sweeper	Diesel	2008	80	Tier 2	2020	74	Tier 4 Final	800			10	Kern
G-65417-A1	Agricultural Tractor	Diesel	1985	81	Tier 0	2015	93	Tier 4 Final	2000			10	Stanislaus
G-65437-A1	Skid Loader	Diesel	2005	56	Tier 2	2016	63	Tier 4 Final	2000			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-65444-A1	Agricultural Tractor	Diesel	1986	69	Tier 0	2015	93	Tier 4 Final	2000			10	Stanislaus
G-65452-A1	Wheel Loader	Diesel	2005	196	Tier 2	2020	249	Tier 4 Final	2000			10	Stanislaus
G-65465-A1	Wheel Loader	Diesel	1991	85	Tier 0	2019	68	Tier 4 Final	2000			10	Stanislaus
G-65470-A1	Excavator	Diesel	2002	181	Tier 1	2020	159	Tier 4 Final	2000			10	Stanislaus
G-65656-A1	Wheel Loader	Diesel	1995	150	Tier 0	2020	192	Tier 4 Final	2300			10	Kern
G-65774-A1	Wheel Loader	Diesel	2005	259	Tier 2	2018	316	Tier 4 Final	1000			10	Merced
G-65775-A1	Agricultural Tractor	Diesel	1981	45	Tier 0	2019	58	Tier 4 Final	400			10	Stanislaus
G-65777-A1	Agricultural Tractor	Diesel	1994	234	Tier 0	2020	248	Tier 4 Final	500			10	Stanislaus
G-65779-A1	Agricultural Tractor	Diesel	2001	75	Tier 1	2018	93	Tier 4 Final	1895			10	Merced
G-65788-A1	Chopper	Diesel	2013	758	Tier 2	2019	912	Tier 4 Final	800			10	Merced
G-65793-A1	Agricultural Tractor	Diesel	1999	110	Tier 1	2019	106	Tier 4 Phase In/Alt NOx	250			10	Fresno
G-65794-A1	Wheel Loader	Diesel	2005	288	Tier 2	2019	316	Tier 4 Final	1250			10	Stanislaus
G-65797-A1	Agricultural Tractor	Diesel	1997	81	Tier 0	2019	106	Tier 4 Final	500			10	San Joaquin
G-65798-A1	Agricultural Tractor	Diesel	2002	73	Tier 1	2019	106	Tier 4 Final	500			10	San Joaquin
G-65799-A1	Agricultural Tractor	Diesel	2002	98	Tier 1	2019	106	Tier 4 Final	500			10	San Joaquin
G-65800-A1	Agricultural Tractor	Diesel	2005	98	Tier 2	2019	106	Tier 4 Final	500			10	San Joaquin
G-65801-A1	Agricultural Tractor	Diesel	2003	73	Tier 1	2019	106	Tier 4 Final	500			10	San Joaquin
G-65802-A1	Agricultural Tractor	Diesel	1976	50	Tier 0	2019	73	Tier 4 Final	500			10	San Joaquin
G-65803-A1	Agricultural Tractor	Diesel	1992	81	Tier 0	2019	106	Tier 4 Final	500			10	San Joaquin
G-65804-A1	Agricultural Tractor	Diesel	2008	99	Tier 2	2019	106	Tier 4 Final	500			10	San Joaquin
G-65805-A1	Agricultural Tractor	Diesel	2007	99	Tier 2	2019	106	Tier 4 Final	500			10	San Joaquin
G-65806-A1	Agricultural Tractor	Diesel	2007	99	Tier 2	2019	106	Tier 4 Final	500			10	San Joaquin
G-65807-A1	Agricultural Tractor	Diesel	1997	81	Tier 0	2019	106	Tier 4 Final	500			10	San Joaquin
G-65808-A1	Agricultural Tractor	Diesel	1997	81	Tier 0	2019	106	Tier 4 Final	500			10	San Joaquin
G-65809-A1	Agricultural Tractor	Diesel	1991	80	Tier 0	2019	106	Tier 4 Final	500			10	San Joaquin
G-65810-A1	Agricultural Tractor	Diesel	2007	99	Tier 2	2019	106	Tier 4 Final	500			10	San Joaquin
G-65811-A1	Agricultural Tractor	Diesel	2001	98	Tier 1	2019	106	Tier 4 Final	500			10	San Joaquin
G-65812-A1	Agricultural Tractor	Diesel	1998	62	Tier 1	2019	73	Tier 4 Final	500			10	San Joaquin
G-65813-A1	Agricultural Tractor	Diesel	1997	51	Tier 0	2019	73	Tier 4 Final	500			10	San Joaquin
G-65912-A1	Forklift	Diesel	1993	62	Tier 0	2018	74	Tier 4 Final	1280			10	Fresno
G-65913-A1	Forklift	Diesel	1987	62	Tier 0	2018	74	Tier 4 Final	1280			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-65915-A1	Forklift	Diesel	1989	62	Tier 0	2018	74	Tier 4 Final	1280			10	Fresno
G-65988-A1	Agricultural Tractor	Diesel	2002	135	Tier 1	2020	123	Tier 4 Final	700			10	Merced
G-65989-A1	Agricultural Tractor	Diesel	2002	331	Tier 2	2020	370	Tier 4 Final	700			10	Merced
G-66007-A1	Agricultural Tractor	Diesel	1983	82	Tier 0	2019	106	Tier 4 Phase In/Alt NOx	1000			10	Merced
G-66054-A1	Back Hoe	Diesel	1978	62	Tier 0	2020	62	Tier 4 Final	300			10	Stanislaus
G-66063-A1	Agricultural Tractor	Diesel	1981	84	Tier 0	2020	67	Tier 4 Final	600			10	Tulare
G-66064-A1	Agricultural Tractor	Diesel	2001	98	Tier 1	2019	106	Tier 4 Final	500			10	Merced
G-66090-A1	Agricultural Tractor	Diesel	1969	144	Tier 0	2020	123	Tier 4 Final	500			10	Merced
G-66093-A1	Agricultural Tractor	Diesel	2006	115	Tier 2	2020	123	Tier 4 Final	1000			10	Madera
G-66096-A1	Agricultural Tractor	Diesel	1994	104	Tier 1	2020	123	Tier 4 Final	1000			10	Madera
G-66097-A1	Agricultural Tractor	Diesel	1994	110	Tier 0	2020	123	Tier 4 Final	1000			10	Madera
G-66099-A1	Agricultural Tractor	Diesel	1986	90	Tier 0	2020	123	Tier 4 Final	1000			10	Madera
G-66102-A1	Back Hoe	Diesel	1979	60	Tier 0	2020	90	Tier 4 Final	700			10	Fresno
G-66104-A1	Wheel Loader	Diesel	1974	115	Tier 0	2018	158	Tier 4 Final	850			10	Stanislaus
G-66105-A1	Chopper	Diesel	2003	601	Tier 2	2020	912	Tier 4 Final	890			10	Merced
G-66107-A1	Agricultural Tractor	Diesel	1977	81	Tier 0	2016	110	Tier 4 Final	200			10	Kern
G-66114-A1	Forklift	Diesel	1998	80	Tier 0	2018	56	Tier 4 Interim	300			10	Fresno
G-66115-A1	Agricultural Tractor	Diesel	1981	156	Tier 0	2020	123	Tier 4 Final	450			10	Fresno
G-66149-A1	Agricultural Tractor	Diesel	1979	156	Tier 0	2020	123	Tier 4 Final	450			10	Fresno
G-66152-A1	Agricultural Tractor	Diesel	1966	115	Tier 0	2019	114	Tier 4 Final	150			10	Fresno
G-66154-A1	Agricultural Tractor	Diesel	1978	228	Tier 0	2019	311	Tier 4 Final	400			10	Merced
G-66158-A1	Agricultural Tractor	Diesel	1988	88	Tier 0	2019	106	Tier 4 Phase In/Alt NOx	300			10	San Joaquin
G-66161-A1	Agricultural Tractor	Diesel	1989	46	Tier 0	2019	74	Tier 4 Final	300			10	San Joaquin
G-66163-A1	Agricultural Tractor	Diesel	1981	80	Tier 0	2018	106	Tier 4 Phase In/Alt NOx	300			10	San Joaquin
G-66171-A1	Agricultural Tractor	Diesel	1962	45	Tier 0	2019	53	Tier 4 Final	350			10	San Joaquin
G-66172-A1	Agricultural Tractor	Diesel	1984	60	Tier 0	2019	99	Tier 4 Final	400			10	Fresno
G-66192-A1	Back Hoe	Diesel	2001	95	Tier 1	2019	96	Tier 4 Final	500			10	Stanislaus
G-66197-A1	Agricultural Tractor	Diesel	1992	88	Tier 0	2018	106	Tier 4 Final	250			10	Stanislaus
G-66209-A1	Swathers	Diesel	2002	182	Tier 1	2020	260	Tier 4 Final	718			10	Stanislaus
G-66210-A1	Swathers	Diesel	2002	182	Tier 1	2020	260	Tier 4 Final	760			10	Stanislaus
G-66242-A1	Forklift	Diesel	2001	76	Tier 1	2020	73	Tier 4 Final	500			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-66244-A1	Bale Wagon	Diesel	1995	210	Tier 0	2019	190	Tier 4 Final	300			10	Merced
G-66292-A1	Agricultural Tractor	Diesel	2000	88	Tier 1	2019	106	Tier 4 Phase In/Alt NOx	800			10	Tulare
G-66293-A1	Agricultural Tractor	Diesel	1980	98	Tier 0	2019	106	Tier 4 Phase In/Alt NOx	750			10	Tulare
G-66295-A1	Agricultural Tractor	Diesel	2000	88	Tier 1	2019	106	Tier 4 Phase In/Alt NOx	800			10	Tulare
G-66297-A1	Agricultural Tractor	Diesel	1988	102	Tier 0	2019	106	Tier 4 Phase In/Alt NOx	700			10	Tulare
G-66299-A1	Agricultural Tractor	Diesel	1988	102	Tier 0	2019	106	Tier 4 Phase In/Alt NOx	700			10	Tulare
G-66330-A1	Agricultural Tractor	Diesel	2003	99	Tier 1	2019	123	Tier 4 Final	1500			10	Fresno
G-66332-A1	Agricultural Tractor	Diesel	2004	97	Tier 2	2019	123	Tier 4 Final	1500			10	Fresno
G-66333-A1	Agricultural Tractor	Diesel	2004	99	Tier 2	2019	123	Tier 4 Final	1500			10	Fresno
G-66338-A1	Agricultural Tractor	Diesel	1982	97	Tier 0	2019	106	Tier 4 Phase In/Alt NOx	850			10	Tulare
G-66339-A1	Agricultural Tractor	Diesel	1987	97	Tier 0	2019	106	Tier 4 Phase In/Alt NOx	700			10	Tulare
G-66341-A1	Agricultural Tractor	Diesel	1984	97	Tier 0	2019	106	Tier 4 Phase In/Alt NOx	700			10	Tulare
G-66342-A1	Agricultural Tractor	Diesel	1975	47	Tier 0	2019	73	Tier 4 Final	600			10	Fresno
G-66343-A1	Agricultural Tractor	Diesel	1975	47	Tier 0	2020	73	Tier 4 Final	600			10	Fresno
G-66345-A1	Agricultural Tractor	Diesel	1977	48	Tier 0	2020	73	Tier 4 Final	600			10	Fresno
G-66349-A1	Agricultural Tractor	Diesel	1974	55	Tier 0	2020	73	Tier 4 Final	650			10	Fresno
G-66526-A1	Wheel Loader	Diesel	1994	210	Tier 0	2019	182	Tier 4 Final	1000			10	Stanislaus
G-66527-A1	Forklift	Diesel	1989	152	Tier 0	2020	173	Tier 4 Final	2500			10	Tulare
G-66528-A1	Forklift	Diesel	1992	152	Tier 0	2020	173	Tier 4 Final	2300			10	Tulare
G-66531-A1	Forklift	Diesel	1994	133	Tier 0	2020	173	Tier 4 Final	1800			10	Tulare
G-66544-A1	Agricultural Tractor	Diesel	1978	60	Tier 0	2019	114	Tier 4 Final	600			10	Merced
G-66633-A1	Back Hoe	Diesel	1978	62	Tier 0	2019	93	Tier 4 Final	750			10	Stanislaus
G-66635-A1	Agricultural Tractor	Diesel	1995	102	Tier 0	2019	114	Tier 4 Final	450			10	Fresno
G-66693-A1	Agricultural Tractor	Diesel	1997	46	Tier 0	2020	73	Tier 4 Final	400			10	Tulare
G-66697-A1	Agricultural Tractor	Diesel	1974	69	Tier 0	2019	70	Tier 4 Final	300			10	Madera
G-66716-A1	Agricultural Tractor	Diesel	2007	96	Tier 2	2018	114	Tier 4 Final	210			10	Kings
G-66718-A1	Wheel Loader	Diesel	2002	128	Tier 1	2020	163	Tier 4 Final	2500			10	Merced
G-66723-A1	Agricultural Tractor	Diesel	2007	96	Tier 2	2019	114	Tier 4 Final	210			10	Kings
G-66724-A1	Agricultural Tractor	Diesel	2004	231	Tier 2	2020	256	Tier 4 Final	320			10	Tulare
G-66726-A1	Agricultural Tractor	Diesel	1965	55	Tier 0	2019	114	Tier 4 Final	500			10	Fresno
G-66764-A1	Agricultural Tractor	Diesel	1997	95	Tier 0	2019	106	Tier 4 Phase In/Alt NOx	800			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-66776-A1	Back Hoe	Diesel	1995	85	Tier 0	2019	96	Tier 4 Final	500			10	Merced
G-66778-A1	Agricultural Tractor	Diesel	1996	99	Tier 0	2020	106	Tier 4 Final	500			10	Merced
G-66786-A1	Agricultural Tractor	Diesel	2002	113	Tier 1	2018	106	Tier 4 Phase In/Alt NOx	700			10	Fresno
G-66793-A1	Agricultural Tractor	Diesel	1983	98	Tier 0	2018	106	Tier 4 Phase In/Alt NOx	700			10	Fresno
G-66800-A1	Agricultural Tractor	Diesel	1976	69	Tier 0	2019	99	Tier 4 Final	600			10	Madera
G-66803-A1	Agricultural Tractor	Diesel	1969	76	Tier 0	2018	106	Tier 4 Phase In/Alt NOx	700			10	Fresno
G-66806-A1	Agricultural Tractor	Diesel	1997	81	Tier 0	2018	106	Tier 4 Phase In/Alt NOx	700			10	Fresno
G-66810-A1	Agricultural Tractor	Diesel	1997	81	Tier 0	2018	106	Tier 4 Phase In/Alt NOx	700			10	Fresno
G-66811-A1	Agricultural Tractor	Diesel	1997	81	Tier 0	2018	106	Tier 4 Phase In/Alt NOx	700			10	Fresno
G-66812-A1	Agricultural Tractor	Diesel	1997	81	Tier 0	2018	106	Tier 4 Phase In/Alt NOx	700			10	Fresno
G-66814-A1	Agricultural Tractor	Diesel	1997	81	Tier 0	2018	106	Tier 4 Phase In/Alt NOx	700			10	Fresno
G-66855-A1	Agricultural Tractor	Diesel	1997	81	Tier 0	2020	106	Tier 4 Final	700			10	Fresno
G-66857-A1	Agricultural Tractor	Diesel	1997	81	Tier 0	2020	106	Tier 4 Final	700			10	Fresno
G-66859-A1	Agricultural Tractor	Diesel	1989	71	Tier 0	2018	106	Tier 4 Phase In/Alt NOx	700			10	Fresno
G-66860-A1	Agricultural Tractor	Diesel	2005	85	Tier 2	2019	108	Tier 4 Final	700			10	Fresno
G-66862-A1	Agricultural Tractor	Diesel	2005	85	Tier 2	2020	106	Tier 4 Final	700			10	Fresno
G-66863-A1	Agricultural Tractor	Diesel	2005	85	Tier 2	2019	114	Tier 4 Final	700			10	Fresno
G-66864-A1	Agricultural Tractor	Diesel	2005	85	Tier 2	2019	106	Tier 4 Final	700			10	Fresno
G-66871-A1	Agricultural Tractor	Diesel	2005	85	Tier 2	2020	114	Tier 4 Final	700			10	Fresno
G-66876-A1	Agricultural Tractor	Diesel	1997	81	Tier 0	2020	106	Tier 4 Final	700			10	Fresno
G-66879-A1	Agricultural Tractor	Diesel	1997	81	Tier 0	2018	106	Tier 4 Phase In/Alt NOx	700			10	Fresno
G-66881-A1	Agricultural Tractor	Diesel	1997	81	Tier 0	2020	106	Tier 4 Final	700			10	Fresno
G-66884-A1	Agricultural Tractor	Diesel	2005	85	Tier 2	2019	114	Tier 4 Final	700			10	Fresno
G-66890-A1	Agricultural Tractor	Diesel	1997	240	Tier 1	2018	221	Tier 4 Final	1642			10	Fresno
G-66892-A1	Agricultural Tractor	Diesel	2002	181	Tier 1	2019	202	Tier 4 Final	2008			10	Fresno
G-66893-A1	Agricultural Tractor	Diesel	1991	69	Tier 0	2017	53	Tier 4 Final	800			10	Fresno
G-66899-A1	Agricultural Tractor	Diesel	1998	71	Tier 1	2018	53	Tier 4 Final	1000			10	Fresno
G-66917-A1	Skid Loader	Diesel	2007	49	Tier 2	2020	63	Tier 4 Final	1000			10	Stanislaus
G-66919-A1	Wheel Loader	Diesel	1999	160	Tier 1	2019	192	Tier 4 Final	1800			10	Madera
G-66920-A1	Wheel Loader	Diesel	2001	125	Tier 1	2019	166	Tier 4 Final	900			10	San Joaquin
G-66923-A1	Wheel Loader	Diesel	2005	177	Tier 2	2018	192	Tier 4 Final	2000			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-66933-A1	Agricultural Tractor	Diesel	1972	162	Tier 0	2020	123	Tier 4 Final	575			10	San Joaquin
G-66940-A1	Agricultural Tractor	Diesel	1980	310	Tier 0	2020	464	Tier 4 Final	1500			10	Kern
G-66967-A1	Agricultural Tractor	Diesel	1988	53	Tier 0	2019	37	Tier 4 Final	250			10	San Joaquin
G-66968-A1	Agricultural Tractor	Diesel	1981	158	Tier 0	2019	115	Tier 4 Final	350			10	Merced
G-66969-A1	Agricultural Tractor	Diesel	2001	98	Tier 1	2019	106	Tier 4 Final	2500			10	Fresno
G-66970-A1	Agricultural Tractor	Diesel	2003	98	Tier 1	2020	106	Tier 4 Final	2485			10	Fresno
G-67017-A1	Agricultural Tractor	Diesel	2003	263	Tier 2	2020	280	Tier 4 Final	1500			10	Kern
G-67025-A1	Agricultural Tractor	Diesel	1987	60	Tier 0	2018	57	Tier 4 Final	400			10	Stanislaus
G-67030-A1	Agricultural Tractor	Diesel	2001	181	Tier 1	2020	230	Tier 4 Final	500			10	Kings
G-67032-A1	Agricultural Tractor	Diesel	1991	65	Tier 0	2018	36	Tier 4 Final	400			10	Stanislaus
G-67051-A1	Agricultural Tractor	Diesel	1997	130	Tier 1	2019	150	Tier 4 Final	1000			10	Kings
G-67052-A1	Agricultural Tractor	Diesel	1989	160	Tier 0	2019	276	Tier 4 Final	350			10	Kings
G-67206-A1	Agricultural Tractor	Diesel	1984	127	Tier 0	2015	130	Tier 4 Final	800			10	Kern
G-67209-A1	Agricultural Tractor	Diesel	1990	88	Tier 0	2019	110	Tier 4 Final	1100			10	Kern
G-67214-A1	Agricultural Tractor	Diesel	1987	34	Tier 0	2020	32	Tier 4 Final	620			10	Merced
G-67215-A1	Wheel Loader	Diesel	1997	101	Tier 1	2020	117	Tier 4 Final	1000			10	Kings
G-67257-A1	Wheel Loader	Diesel	1993	157	Tier 0	2019	192	Tier 4 Final	3500			10	Tulare
G-67479-A1	Agricultural Tractor	Diesel	1994	108	Tier 1	2020	123	Tier 4 Final	1248			10	Madera
G-67548-A1	Chopper	Diesel	2006	601	Tier 2	2019	872	Tier 4 Final	800			10	Merced
G-67551-A1	Agricultural Tractor	Diesel	1997	261	Tier 1	2019	281	Tier 4 Final	500			10	Stanislaus
G-67591-A1	Skid Loader	Diesel	2002	81	Tier 1	2020	73	Tier 4 Final	500			10	Merced
G-67622-A1	Agricultural Tractor	Diesel	1993	174	Tier 0	2019	311	Tier 4 Final	800			10	Merced
G-67625-A1	Agricultural Tractor	Diesel	1996	108	Tier 0	2019	106	Tier 4 Final	250			10	Stanislaus
G-67654-A1	Agricultural Tractor	Diesel	1982	183	Tier 0	2020	123	Tier 4 Final	700			10	Fresno
G-67657-A1	Agricultural Tractor	Diesel	1980	81	Tier 0	2020	123	Tier 4 Final	500			10	Merced
G-67658-A1	Agricultural Tractor	Diesel	1989	204	Tier 0	2019	202	Tier 4 Final	800			10	Merced
G-67661-A1	Agricultural Tractor	Diesel	2006	99	Tier 2	2019	114	Tier 4 Final	800			10	Merced
G-67733-A1	Agricultural Tractor	Diesel	1979	52	Tier 0	2014	45	Tier 4 Final	300			10	Stanislaus
G-67736-A1	Agricultural Tractor	Diesel	1980	63	Tier 0	2019	73	Tier 4 Final	300			10	Stanislaus
G-67737-A1	Agricultural Tractor	Diesel	1992	103	Tier 0	2019	114	Tier 4 Final	300			10	Stanislaus
G-67739-A1	Agricultural Tractor	Diesel	1994	103	Tier 0	2019	114	Tier 4 Final	300			10	Stanislaus

Project Type Off-Road

Description Vehicle Replacement

SJVAPCD Project Data 2021

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-67742-A2	Agricultural Tractor	Diesel	2006	115	Tier 1	2018	115	Tier 4 Final	500			10	Madera
G-67746-A1	Forklift	Diesel	1998	60	Tier 1	2020	74	Tier 4 Final	800			10	Tulare
G-67752-A1	Shaker	Diesel	2001	125	Tier 1	2020	139	Tier 4 Final	700			10	Madera
G-67778-A1	Shaker	Diesel	2006	155	Tier 2	2019	148	Tier 4 Final	600			10	Madera
G-67786-A1	Agricultural Tractor	Diesel	2001	114	Tier 1	2020	114	Tier 4 Final	800			10	Madera
G-67787-A1	Agricultural Tractor	Diesel	1997	102	Tier 1	2020	114	Tier 4 Final	800			10	Madera
G-67788-A1	Agricultural Tractor	Diesel	2005	113	Tier 2	2020	123	Tier 4 Final	800			10	Madera
G-67789-A1	Agricultural Tractor	Diesel	2005	113	Tier 2	2020	123	Tier 4 Final	800			10	Madera
G-67790-A1	Agricultural Tractor	Diesel	2004	113	Tier 2	2020	114	Tier 4 Final	800			10	Madera
G-67810-A1	Agricultural Tractor	Diesel	1979	30	Tier 0	2019	35	Tier 4 Final	500			10	Tulare
G-67813-A1	Agricultural Tractor	Diesel	1997	44	Tier 0	2019	35	Tier 4 Final	500			10	Tulare
G-67831-A1	Wheel Loader	Diesel	2005	149	Tier 2	2018	226	Tier 4 Final	1000			10	Fresno
G-67840-A1	Agricultural Tractor	Diesel	2006	115	Tier 2	2020	123	Tier 4 Final	500			10	Fresno
G-67876-A1	Wheel Loader	Diesel	2003	132	Tier 2	2019	164	Tier 4 Final	3650			10	Merced
G-67879-A1	Agricultural Tractor	Diesel	2006	109	Tier 2	2019	123	Tier 4 Final	600			10	Stanislaus
G-67883-A1	Agricultural Tractor	Diesel	1995	110	Tier 0	2020	123	Tier 4 Final	500			10	Fresno
G-67929-A1	Agricultural Tractor	Diesel	1982	81	Tier 0	2019	106	Tier 4 Phase In/Alt NOx	700			10	Tulare
G-67931-A1	Agricultural Tractor	Diesel	2003	210	Tier 2	2020	230	Tier 4 Final	2900			10	Tulare
G-67933-A1	Wheel Loader	Diesel	1999	190	Tier 1	2019	192	Tier 4 Final	2000			10	Fresno
G-67938-A1	Agricultural Tractor	Diesel	1989	79	Tier 0	2019	99	Tier 4 Final	300			10	Kern
G-68039-A1	Agricultural Tractor	Diesel	2004	99	Tier 2	2019	99	Tier 4 Final	175			10	Fresno
G-68091-A1	Agricultural Tractor	Diesel	1997	83	Tier 0	2019	106	Tier 4 Phase In/Alt NOx	700			10	San Joaquin
G-68219-A1	Agricultural Tractor	Diesel	1989	63	Tier 0	2020	73	Tier 4 Final	1250			10	Fresno
G-68221-A1	Agricultural Tractor	Diesel	1981	132	Tier 0	2020	195	Tier 4 Final	1200			10	Fresno
G-68235-A1	Wheel Loader	Diesel	1988	110	Tier 0	2020	74	Tier 4 Final	500			10	Kern
G-68239-A1	Wheel Loader	Diesel	1989	128	Tier 0	2016	162	Tier 4 Final	1250			10	Tulare
G-68241-A1	Wheel Loader	Diesel	1996	138	Tier 0	2019	162	Tier 4 Final	1250			10	Tulare
G-68258-A1	Nut Sweeper	Diesel	2007	80	Tier 2	2019	142	Tier 4 Final	500			10	Tulare
G-68284-A1	Skid Loader	Diesel	2006	100	Tier 2	2019	97	Tier 4 Final	1000			10	Madera
G-68523-A1	Agricultural Tractor	Diesel	2001	86	Tier 1	2018	106	Tier 4 Final	600			10	Stanislaus
G-68541-A1	Wheel Loader	Diesel	1974	100	Tier 0	2020	163	Tier 4 Final	2000			10	Merced

Project Type Off-Road

Description Vehicle Replacement

SJVAPCD Project Data 2021

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-68542-A1	Agricultural Tractor	Diesel	1998	89	Tier 1	2020	123	Tier 4 Final	400			10	Fresno
G-68544-A1	Agricultural Tractor	Diesel	1993	46	Tier 0	2019	53	Tier 4 Final	500			10	Fresno
G-68550-A1	Agricultural Tractor	Diesel	1991	180	Tier 0	2019	115	Tier 4 Final	300			10	Kings
G-68551-A1	Agricultural Tractor	Diesel	1977	80	Tier 0	2017	98	Tier 4 Final	300			10	Kings
G-68617-A1	Agricultural Tractor	Diesel	2006	109	Tier 2	2019	115	Tier 4 Final	900			10	Kings
G-68714-A1	Agricultural Tractor	Diesel	2007	95	Tier 2	2020	90	Tier 4 Final	1100			10	Fresno
G-68715-A1	Agricultural Tractor	Diesel	2007	95	Tier 2	2020	90	Tier 4 Final	1100			10	Fresno
G-68717-A1	Agricultural Tractor	Diesel	2007	95	Tier 2	2020	90	Tier 4 Final	1100			10	Fresno
G-68743-A1	Agricultural Tractor	Diesel	2007	95	Tier 2	2020	90	Tier 4 Final	1100			10	Fresno
G-68749-A1	Agricultural Tractor	Diesel	2007	95	Tier 2	2020	90	Tier 4 Final	1100			10	Fresno
G-68760-A1	Agricultural Tractor	Diesel	1977	209	Tier 0	2020	123	Tier 4 Final	400			10	Fresno
G-68762-A1	Agricultural Tractor	Diesel	1980	84	Tier 0	2020	114	Tier 4 Final	500			10	Tulare
G-68763-A1	Agricultural Tractor	Diesel	1990	97	Tier 0	2020	114	Tier 4 Final	450			10	Tulare
G-68775-A1	Agricultural Tractor	Diesel	1998	89	Tier 1	2020	123	Tier 4 Final	300			10	Fresno
G-68814-A1	Pistachio Harvester	Diesel	1988	99	Tier 2	2019	121	Tier 4 Final	600			10	Tulare
G-68816-A1	Pistachio Harvester	Diesel	1988	121	Tier 0	2019	148	Tier 4 Final	600			10	Tulare
G-68822-A1	Pistachio Harvester	Diesel	1988	121	Tier 0	2019	148	Tier 4 Final	600			10	Tulare
G-68860-A1	Agricultural Tractor	Diesel	1980	76	Tier 0	2019	123	Tier 4 Final	500			10	Stanislaus
G-68863-A1	Agricultural Tractor	Diesel	1999	95	Tier 1	2018	114	Tier 4 Final	300			10	Kern
G-68866-A1	Agricultural Tractor	Diesel	2007	99	Tier 2	2018	114	Tier 4 Final	300			10	Kern
G-68893-A1	Wheel Loader	Diesel	1979	83	Tier 0	2019	67	Tier 4 Final	750			10	Fresno
G-68896-A1	Back Hoe	Diesel	1979	62	Tier 0	2019	102	Tier 4 Final	1000			10	Stanislaus
G-69033-A1	Agricultural Tractor	Diesel	2006	99	Tier 2	2019	114	Tier 4 Final	1500			10	Fresno
G-69299-A1	Agricultural Backhoe	Diesel	2000	89	Tier 1	2020	93	Tier 4 Final	800			10	Merced
G-69305-A1	Agricultural Tractor	Diesel	1989	81	Tier 0	2019	106	Tier 4 Phase In/Alt NOx	300			10	Stanislaus
G-69340-A1	Agricultural Tractor	Diesel	1989	97	Tier 0	2019	114	Tier 4 Final	200			10	Fresno
G-69343-A1	Agricultural Tractor	Diesel	1993	102	Tier 0	2019	123	Tier 4 Final	500			10	Fresno
G-69346-A1	Agricultural Tractor	Diesel	1973	46	Tier 0	2019	59	Tier 4 Final	200			10	Fresno
G-69351-A1	Other Agricultural Equi	Diesel	1988	110	Tier 0	2020	134	Tier 4 Final	500			10	Tulare
G-69357-A1	Agricultural Tractor	Diesel	2004	450	Tier 2	2020	545	Tier 4 Final	1500			10	Merced
G-69359-A1	Agricultural Tractor	Diesel	2005	283	Tier 2	2020	281	Tier 4 Final	1500			10	Merced

Project Type Off-Road

Description Vehicle Replacement

SJVAPCD Project Data 2021

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-69361-A1	Agricultural Tractor	Diesel	2004	210	Tier 2	2020	281	Tier 4 Final	1500			10	Merced
G-69530-A1	Agricultural Tractor	Diesel	2004	113	Tier 2	2019	123	Tier 4 Final	250			10	Madera
G-69534-A1	Wheel Loader	Diesel	1998	105	Tier 1	2020	166	Tier 4 Final	3000			10	Tulare
G-69538-A1	Agricultural Tractor	Diesel	2003	462	Tier 2	2018	489	Tier 4 Final	900			10	Merced
G-69551-A1	Agricultural Tractor	Diesel	1974	133	Tier 0	2020	114	Tier 4 Final	500			10	Madera
G-69554-A1	Agricultural Tractor	Diesel	1988	97	Tier 0	2018	165	Tier 4 Final	600			10	Merced
G-69555-A1	Agricultural Tractor	Diesel	1983	102	Tier 0	2019	123	Tier 4 Final	300			10	Stanislaus
G-69560-A1	Back Hoe	Diesel	1996	79	Tier 0	2020	99	Tier 4 Final	850			10	Kern
G-69564-A1	Back Hoe	Diesel	1997	124	Tier 1	2020	113	Tier 4 Final	1500			10	Fresno
G-69582-A1	Agricultural Tractor	Diesel	2004	150	Tier 2	2019	123	Tier 4 Final	1800			10	Fresno
G-69586-A1	Agricultural Tractor	Diesel	1988	215	Tier 1	2020	155	Tier 4 Final	1000			10	Fresno
G-69590-A1	Agricultural Tractor	Diesel	1999	175	Tier 1	2020	195	Tier 4 Final	1300			10	Fresno
G-69591-A1	Skid Loader	Diesel	2013	73	Tier 0	2020	73	Tier 4 Final	2500			10	Fresno
G-69592-A1	Agricultural Tractor	Diesel	1993	90	Tier 0	2020	123	Tier 4 Final	800			10	Fresno
G-69593-A1	Agricultural Tractor	Diesel	1972	81	Tier 0	2019	93	Tier 4 Final	600			10	Merced
G-69598-A1	Sweeper	Diesel	1996	80	Tier 0	2019	74	Tier 4 Final	500			10	Kings
G-69626-A1	Agricultural Tractor	Diesel	1965	55	Tier 0	2019	106	Tier 4 Phase In/Alt NOx	600			10	Tulare
G-69721-A1	Agricultural Tractor	Diesel	1994	151	Tier 0	2019	175	Tier 4 Final	600			10	Fresno
G-69726-A1	Agricultural Tractor	Diesel	2005	113	Tier 2	2016	114	Tier 4 Final	250			10	Madera
G-69727-A1	Back Hoe	Diesel	1995	120	Tier 0	2020	113	Tier 4 Final	960			10	Merced
G-69737-A1	Almond Sweeper	Diesel	1993	65	Tier 0	2019	74	Tier 4 Final	400			10	Merced
G-69738-A1	Agricultural Tractor	Diesel	1968	113	Tier 0	2019	101	Tier 4 Final	350			10	Stanislaus
G-69746-A1	Agricultural Tractor	Diesel	1983	72	Tier 0	2020	123	Tier 4 Final	200			10	Fresno
G-69757-A1	Agricultural Tractor	Diesel	2005	500	Tier 2	2020	611	Tier 4 Final	800			10	Merced
G-69817-A1	Agricultural Tractor	Diesel	1978	72	Tier 0	2020	123	Tier 4 Final	80			10	Merced
G-69828-A1	Agricultural Tractor	Diesel	1998	114	Tier 1	2019	114	Tier 4 Final	600			10	Merced
G-69850-A1	Sweeper	Diesel	2006	80	Tier 2	2020	74	Tier 4 Final	350			10	Kings
G-69853-A1	Shaker	Diesel	2004	215	Tier 1	2019	148	Tier 4 Final	350			10	Kings
G-69871-A1	Agricultural Tractor	Diesel	1980	84	Tier 0	2019	106	Tier 4 Phase In/Alt NOx	100			10	Tulare
G-69877-A1	Agricultural Tractor	Diesel	1984	72	Tier 0	2019	106	Tier 4 Phase In/Alt NOx	100			10	Tulare
G-69891-A1	Agricultural Tractor	Diesel	2006	76	Tier 2	2020	125	Tier 4 Final	600			10	Kings

Project Type Off-Road

Description Vehicle Replacement

SJVAPCD Project Data 2021

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-69900-A1	Agricultural Tractor	Diesel	2005	86	Tier 2	2019	106	Tier 4 Phase In/Alt NOx	800			10	Kern
G-69908-A1	Agricultural Tractor	Diesel	1992	81	Tier 0	2019	99	Tier 4 Final	100			10	Fresno
G-69942-A1	Cotton Picker	Diesel	2001	325	Tier 1	2020	560	Tier 4 Final	880			10	Kings
G-69942-A1	Cotton Picker	Diesel	2005	350	Tier 2								Kings
G-70106-A1	Agricultural Tractor	Diesel	2005	98	Tier 2	2016	99	Tier 4 Final	456			10	Fresno
G-70107-A1	Agricultural Tractor	Diesel	2001	98	Tier 1	2016	99	Tier 4 Final	386			10	Madera
G-70109-A1	Agricultural Tractor	Diesel	2005	98	Tier 2	2020	100	Tier 4 Final	421			10	Madera
G-70110-A1	Agricultural Tractor	Diesel	2001	98	Tier 1	2020	100	Tier 4 Final	435			10	Fresno
G-70196-A1	Wheel Loader	Diesel	1990	160	Tier 0	2019	173	Tier 4 Final	2000			10	Merced
G-70201-A1	Wheel Loader	Diesel	1983	155	Tier 0	2019	173	Tier 4 Final	2000			10	Merced
G-70204-A1	Wheel Loader	Diesel	2000	183	Tier 1	2019	173	Tier 4 Final	2000			10	Merced
G-70208-A1	Agricultural Tractor	Diesel	1999	106	Tier 1	2019	125	Tier 4 Final	200			10	Fresno
G-70232-A1	Agricultural Tractor	Diesel	1978	38	Tier 0	2017	35	Tier 4 Final	720			10	Tulare
G-70235-A1	Agricultural Tractor	Diesel	1978	38	Tier 0	2017	35	Tier 4 Final	700			10	Tulare
G-70244-A1	Agricultural Tractor	Diesel	1993	27	Tier 0	2017	35	Tier 4 Final	700			10	Tulare
G-70245-A1	Agricultural Tractor	Diesel	1993	27	Tier 0	2017	35	Tier 4 Final	700			10	Tulare
G-70246-A1	Agricultural Tractor	Diesel	1996	44	Tier 0	2018	35	Tier 4 Final	700			10	Tulare
G-70247-A1	Wheel Loader	Diesel	1998	125	Tier 1	2019	192	Tier 4 Final	1750			10	Stanislaus
G-70262-A1	Forklift	Diesel	2005	100	Tier 2	2018	142	Tier 4 Final	460			10	Stanislaus
G-70273-A1	Agricultural Tractor	Diesel	1974	66	Tier 0	2019	123	Tier 4 Final	300			10	Stanislaus
G-70311-A1	Nut Sweeper	Diesel	1987	100	Tier 1	2019	74	Tier 4 Final	350			10	Kings
G-70609-A1	Wheel Loader	Diesel	1989	85	Tier 0	2020	74	Tier 4 Final	1000			10	Tulare
G-70614-A1	Almond Sweeper	Diesel	2005	80	Tier 2	2020	74	Tier 4 Final	1200			10	Tulare
G-70615-A1	Agricultural Tractor	Diesel	2005	105	Tier 2	2019	123	Tier 4 Final	1500			10	Tulare
G-70618-A1	Agricultural Tractor	Diesel	2005	105	Tier 2	2019	123	Tier 4 Final	1500			10	Tulare
G-70620-A1	Agricultural Tractor	Diesel	1995	100	Tier 0	2019	123	Tier 4 Final	1500			10	Tulare
G-70621-A1	Agricultural Tractor	Diesel	1995	100	Tier 0	2020	123	Tier 4 Final	1500			10	Tulare
G-70642-A1	Back Hoe	Diesel	2004	98	Tier 1	2020	113	Tier 4 Final	400			10	San Joaquin
G-70651-A1	Agricultural Tractor	Diesel	1966	80	Tier 0	2020	123	Tier 4 Final	300			10	San Joaquin
G-70652-A1	Agricultural Tractor	Diesel	1967	80	Tier 0	2020	123	Tier 4 Final	300			10	San Joaquin
G-70658-A1	Agricultural Tractor	Diesel	1982	84	Tier 0	2020	123	Tier 4 Final	300			10	San Joaquin

Project Type Off-Road

Description Vehicle Replacement

SJVAPCD Project Data 2021

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-70662-A1	Agricultural Tractor	Diesel	2005	98	Tier 2	2019	165	Tier 4 Final	1800			10	Stanislaus
G-70665-A1	Agricultural Tractor	Diesel	1971	85	Tier 0	2018	101	Tier 4 Final	400			10	Tulare
G-70667-A1	Shaker	Diesel	1992	130	Tier 0	2019	148	Tier 4 Final	350			10	Madera
G-70673-A1	Skid Loader	Diesel	2007	50	Tier 2	2019	67	Tier 4 Final	2000			10	Tulare
G-70680-A1	Shaker	Diesel	2004	130	Tier 2	2019	174	Tier 4 Final	750			10	Kern
G-70682-A1	Shaker	Diesel	2006	135	Tier 2	2019	174	Tier 4 Final	325			10	Madera
G-70684-A1	Agricultural Tractor	Diesel	2005	258	Tier 2	2019	342	Tier 4 Final	500			10	Merced
G-70820-A1	Agricultural Tractor	Diesel	2006	86	Tier 2	2019	106	Tier 4 Phase In/Alt NOx	1000			10	Kern
G-70821-A1	Agricultural Tractor	Diesel	2005	86	Tier 2	2019	106	Tier 4 Phase In/Alt NOx	1000			10	Kern
G-70822-A1	Agricultural Tractor	Diesel	2004	86	Tier 2	2019	106	Tier 4 Phase In/Alt NOx	1000			10	Kern
G-70824-A1	Agricultural Tractor	Diesel	2004	86	Tier 2	2019	106	Tier 4 Phase In/Alt NOx	1000			10	Kern
G-70828-A1	Agricultural Tractor	Diesel	2004	86	Tier 2	2019	106	Tier 4 Phase In/Alt NOx	1000			10	Kern
G-70829-A1	Agricultural Tractor	Diesel	2006	86	Tier 2	2019	106	Tier 4 Phase In/Alt NOx	1000			10	Kern
G-70830-A1	Agricultural Tractor	Diesel	2007	86	Tier 2	2019	106	Tier 4 Phase In/Alt NOx	1000			10	Kern
G-70833-A1	Agricultural Tractor	Diesel	2007	86	Tier 2	2020	106	Tier 4 Phase In/Alt NOx	1000			10	Kern
G-70839-A1	Agricultural Tractor	Diesel	2003	89	Tier 1	2020	106	Tier 4 Phase In/Alt NOx	1000			10	Kern
G-71009-A1	Wheel Loader	Diesel	1977	100	Tier 0	2018	164	Tier 4 Final	700			10	Fresno
G-71013-A1	Agricultural Tractor	Diesel	1997	100	Tier 1	2020	123	Tier 4 Final	1200			10	Fresno
G-71051-A1	Excavator	Diesel	1986	42	Tier 0	2016	58	Tier 4 Final	800			10	Fresno
G-71057-A1	Agricultural Tractor	Diesel	2001	92	Tier 1	2019	114	Tier 4 Final	480			10	Tulare
G-71157-A1	Cotton Picker	Diesel	2005	350	Tier 2								Kings
G-71157-A1	Cotton Picker	Diesel	2005	350	Tier 2								Kings
G-71347-A1	Agricultural Tractor	Diesel	1984	102	Tier 0	2020	114	Tier 4 Final	500			10	Fresno
G-71365-A1	Agricultural Tractor	Diesel	1984	102	Tier 0	2020	114	Tier 4 Final	500			10	Fresno
G-71372-A1	Agricultural Tractor	Diesel	1993	81	Tier 0	2018	106	Tier 4 Final	100			10	Merced
G-71396-A1	Agricultural Tractor	Diesel	1995	90	Tier 0	2018	108	Tier 4 Final	1000			10	Tulare
G-71425-A1	Agricultural Tractor	Diesel	2002	270	Tier 1	2020	123	Tier 4 Final	1000			10	Fresno
G-71429-A1	Agricultural Tractor	Diesel	1969	114	Tier 0	2019	99	Tier 4 Final	400			10	Kern
G-71443-A1	Agricultural Tractor	Diesel	2003	98	Tier 1	2020	123	Tier 4 Final	500			10	Madera
G-71654-A2	Wheel Loader	Diesel	2002	114	Tier 1	2019	148	Tier 4 Final	1000			10	Stanislaus
G-71655-A1	Agricultural Tractor	Diesel	2004	89	Tier 2	2019	114	Tier 4 Final	500			10	Stanislaus

Project Type Off-Road

Description Vehicle Replacement

SJVAPCD Project Data 2021

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-71713-A1	Back Hoe	Diesel	1994	76	Tier 0	2018	74	Tier 4 Final	300			10	Kings
G-71714-A1	Back Hoe	Diesel	1994	80	Tier 1	2018	74	Tier 4 Final	300			10	Kings
G-71716-A1	Back Hoe	Diesel	2001	80	Tier 1	2018	74	Tier 4 Final	300			10	Kings
G-71721-A1	Chopper	Diesel	2004	601	Tier 2	2018	617	Tier 4 Final	600			10	Madera
G-71725-A1	Agricultural Tractor	Diesel	1977	74	Tier 0	2019	114	Tier 4 Final	400			10	Stanislaus
G-71734-A1	Agricultural Tractor	Diesel	2001	96	Tier 1	2019	114	Tier 4 Final	100			10	Stanislaus
G-71736-A1	Agricultural Tractor	Diesel	2003	209	Tier 2	2019	221	Tier 4 Final	1000			10	Merced
G-71737-A1	Chopper	Diesel	1998	375	Tier 1	2020	912	Tier 4 Final	620			10	San Joaquin
G-71776-A1	Wheel Loader	Diesel	1983	160	Tier 0	2020	192	Tier 4 Final	1200			10	Tulare
G-71791-A1	Wheel Loader	Diesel	2005	119	Tier 2	2020	120	Tier 4 Final	2300			10	Fresno
G-71792-A1	Agricultural Tractor	Diesel	2004	462	Tier 2	2020	611	Tier 4 Final	1200			10	Fresno
G-71793-A1	Agricultural Tractor	Diesel	1989	165	Tier 1	2018	130	Tier 4 Final	1200			10	Fresno
G-71795-A1	Sprayer	Diesel	1993	99	Tier 0	2019	64	Tier 4 Final	200			10	Merced
G-71798-A1	Shaker	Diesel	1979	100	Tier 0	2019	174	Tier 4 Final	475			10	Kern
G-71800-A1	Shaker	Diesel	1979	100	Tier 0	2020	174	Tier 4 Final	475			10	Kern
G-72042-A1	Wheel Loader	Diesel	2004	70	Tier 2	2019	74	Tier 4 Final	1150			10	Fresno
G-72059-A1	Agricultural Tractor	Diesel	1982	82	Tier 0	2019	108	Tier 4 Final	250			10	Fresno
G-72070-A1	Tractor	Diesel	2007	113	Tier 2	2019	125	Tier 4 Final	250			10	Tulare
G-72109-A1	Wheel Loader	Diesel	1999	135	Tier 1	2018	162	Tier 4 Final	1350			10	Fresno
G-72369-A1	Tractor	Diesel	1995	28	Tier 0	2020	32	Tier 4 Final	400			10	Madera
G-72371-A1	Agricultural Tractor	Diesel	1997	114	Tier 1	2019	114	Tier 4 Final	400			10	Madera
G-72418-A1	Back Hoe	Diesel	1996	75	Tier 0	2020	92	Tier 4 Final	1200			10	Fresno
G-72442-A1	Agricultural Tractor	Diesel	2005	91	Tier 2	2020	106	Tier 4 Final	1200			10	San Joaquin
G-72448-A1	Agricultural Tractor	Diesel	2006	115	Tier 2	2019	106	Tier 4 Final	1200			10	San Joaquin
G-72450-A1	Agricultural Tractor	Diesel	2006	91	Tier 2	2020	106	Tier 4 Final	1200			10	San Joaquin
G-72460-A2	Agricultural Tractor	Diesel	1994	285	Tier 0	2019	375	Tier 4 Final	1200			10	Fresno
G-72461-A1	Agricultural Grader	Diesel	1988	150	Tier 0	2020	232	Tier 4 Final	1200			10	Fresno
G-72475-A1	Shaker	Diesel	1989	100	Tier 0	2019	174	Tier 4 Final	475			10	Kern
G-72477-A1	Shaker	Diesel	1984	100	Tier 0	2019	174	Tier 4 Final	475			10	Kern
G-72480-A1	Skid Loader	Diesel	1990	36	Tier 0	2019	67	Tier 4 Final	175			10	Madera
G-72491-A1	Back Hoe	Diesel	1971	66	Tier 0	2020	90	Tier 4 Final	950			10	Madera

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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-72504-A1	Agricultural Tractor	Diesel	1982	75	Tier 0	2019	101	Tier 4 Final	800			10	San Joaquin
G-72590-A1	Skid Loader	Diesel	1991	36	Tier 0	2019	49	Tier 4 Final	200			10	Fresno
G-72607-A1	Agricultural Tractor	Diesel	1968	115	Tier 0	2019	120	Tier 4 Final	300			10	Merced
G-72707-A1	Agricultural Tractor	Diesel	1987	97	Tier 0	2019	100	Tier 4 Final	1100			10	Fresno
G-72716-A1	Agricultural Tractor	Diesel	2001	98	Tier 1	2019	114	Tier 4 Final	300			10	Stanislaus
G-72844-A1	Agricultural Tractor	Diesel	1985	130	Tier 0	2019	123	Tier 4 Final	250			10	Merced
G-72847-A1	Wheel Loader	Diesel	2007	173	Tier 2	2020	192	Tier 4 Final	1500			10	Kings
G-72850-A1	Agricultural Tractor	Diesel	2001	120	Tier 1	2019	123	Tier 4 Final	250			10	Merced
G-72851-A1	Agricultural Tractor	Diesel	1995	114	Tier 0	2017	139	Tier 4 Final	550			10	Stanislaus
G-72990-A1	Advance Travel Electri	Diesel	2006	110	Tier 2	2020	123	Tier 4 Final	500			10	Tulare
G-72992-A1	Sweeper	Diesel	2008	80	Tier 2	2020	142	Tier 4 Final	500			10	Tulare
G-72994-A1	Wheel Loader	Diesel	1998	135	Tier 1	2020	166	Tier 4 Final	800			10	San Joaquin
G-73002-A1	Agricultural Tractor	Diesel	1999	39	Tier 1	2020	61	Tier 4 Final	150			10	Merced
G-73006-A1	Agricultural Tractor	Diesel	2007	99	Tier 2	2019	114	Tier 4 Final	800			10	Merced
G-73014-A1	Wheel Loader	Diesel	1998	142	Tier 1	2018	162	Tier 4 Final	550			10	Merced
G-73020-A1	Agricultural Tractor	Diesel	1995	81	Tier 0	2019	98	Tier 4 Phase In/Alt NOx	600			10	Fresno
G-73024-A1	Agricultural Tractor	Diesel	1974	46	Tier 0	2019	67	Tier 4 Final	310			10	Fresno
G-73039-A1	Agricultural Tractor	Diesel	2007	99	Tier 2	2020	114	Tier 4 Final	325			10	Stanislaus
G-73042-A1	Agricultural Tractor	Diesel	1999	100	Tier 1	2019	106	Tier 4 Phase In/Alt NOx	300			10	Fresno
G-73114-A1	Wheel Loader	Diesel	1990	128	Tier 0	2020	166	Tier 4 Final	2000			10	Stanislaus
G-73152-A1	Agricultural Tractor	Diesel	1970	76	Tier 0	2019	37	Tier 4 Final	400			10	Tulare
G-73156-A1	Wheel Loader	Diesel	1998	142	Tier 1	2020	152	Tier 4 Final	1200			10	Tulare
G-73158-A1	Agricultural Tractor	Diesel	2001	114	Tier 1	2020	123	Tier 4 Final	1200			10	Tulare
G-73159-A1	Agricultural Tractor	Diesel	2002	115	Tier 1	2020	123	Tier 4 Final	1200			10	Tulare
G-73164-A1	Skid Loader	Diesel	2004	81	Tier 2	2019	95	Tier 4 Final	1095			10	Stanislaus
G-73361-A1	Skid Loader	Diesel	1990	58	Tier 0	2020	73	Tier 4 Final	400			10	Stanislaus
G-73363-A1	Skid Loader	Diesel	1999	50	Tier 1	2019	63	Tier 4 Final	250			10	Stanislaus
G-73367-A1	Almond Shaker	Diesel	2005	125	Tier 1	2020	74	Tier 4 Final	250			10	Kern
G-73383-A1	Wheel Loader	Diesel	2007	75	Tier 1	2019	74	Tier 4 Final	1200			10	Tulare
G-73389-A1	Wheel Loader	Diesel	2000	145	Tier 1	2020	192	Tier 4 Final	1200			10	Tulare
G-73390-A1	Wheel Loader	Diesel	2002	170	Tier 1	2020	192	Tier 4 Final	1500			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-73437-A1	Agricultural Tractor	Diesel	1975	54	Tier 0	2019	37	Tier 4 Final	100			10	Stanislaus
G-73444-A1	Agricultural Tractor	Diesel	1986	90	Tier 0	2019	106	Tier 4 Phase In/Alt NOx	500			10	Fresno
G-73823-A1	Agricultural Tractor	Diesel	1976	210	Tier 0	2020	280	Tier 4 Final	1100			10	Tulare
G-73975-A1	Tractor	Diesel	1984	400	Tier 0	2020	470	Tier 4 Final	1100			10	Tulare
G-73979-A1	Agricultural Tractor	Diesel	2004	98	Tier 2	2019	114	Tier 4 Final	800			10	Stanislaus
G-73984-A1	Agricultural Tractor	Diesel	1998	57	Tier 1	2019	73	Tier 4 Final	800			10	Stanislaus
G-73987-A1	Tractor	Diesel	1976	263	Tier 0	2020	280	Tier 4 Final	1100			10	Tulare
G-73988-A1	Tractor	Diesel	1984	360	Tier 0	2020	515	Tier 4 Final	1110			10	Tulare
G-73995-A1	Agricultural Tractor	Diesel	1978	186	Tier 0	2019	236	Tier 4 Final	1050			10	Tulare
G-74005-A1	Agricultural Tractor	Diesel	2007	93	Tier 2	2020	114	Tier 4 Final	340			10	Stanislaus
G-74007-A1	Agricultural Tractor	Diesel	1990	88	Tier 0	2020	114	Tier 4 Final	340			10	Stanislaus
G-74012-A1	Agricultural Tractor	Diesel	1985	97	Tier 0	2018	115	Tier 4 Final	350			10	Kings
G-74025-A1	Back Hoe	Diesel	1993	75	Tier 0	2020	99	Tier 4 Final	250			10	San Joaquin
G-74027-A1	Sweeper	Diesel	2001	80	Tier 1	2020	74	Tier 4 Final	450			10	San Joaquin
G-74032-A1	Agricultural Tractor	Diesel	2000	95	Tier 1	2020	114	Tier 4 Final	500			10	Tulare
G-74033-A1	Agricultural Tractor	Diesel	2000	95	Tier 1	2020	114	Tier 4 Final	500			10	Tulare
G-74034-A1	Skid Loader	Diesel	1990	58	Tier 0	2020	67	Tier 4 Final	160			10	Tulare
G-74076-A1	Forklift	Diesel	1998	67	Tier 1	2020	74	Tier 4 Final	1800			10	Kern
G-74078-A1	Forklift	Diesel	1998	67	Tier 1	2020	74	Tier 4 Final	1800			10	Kern
G-74194-A1	Agricultural Tractor	Diesel	2003	115	Tier 2	2020	123	Tier 4 Final	500			10	Madera
G-74196-A1	Agricultural Tractor	Diesel	2006	84	Tier 2	2020	123	Tier 4 Final	500			10	Merced
G-74213-A1	Excavator	Diesel	2004	205	Tier 2	2019	173	Tier 4 Final	1300			10	Stanislaus
G-74335-A1	Agricultural Tractor	Diesel	1978	158	Tier 0	2020	123	Tier 4 Final	500			10	Fresno
G-74341-A1	Agricultural Tractor	Diesel	1981	158	Tier 0	2020	123	Tier 4 Final	500			10	Fresno
G-74345-A1	Agricultural Tractor	Diesel	1990	71	Tier 0	2018	115	Tier 4 Final	300			10	Merced
G-74352-A1	Agricultural Tractor	Diesel	1990	71	Tier 0	2019	115	Tier 4 Final	300			10	Merced
G-74353-A1	Agricultural Tractor	Diesel	2006	109	Tier 2	2019	114	Tier 4 Final	750			10	Stanislaus
G-74359-A1	Agricultural Tractor	Diesel	2006	109	Tier 2	2019	114	Tier 4 Final	750			10	Stanislaus
G-74361-A1	Agricultural Tractor	Diesel	2006	109	Tier 2	2019	114	Tier 4 Final	750			10	Stanislaus
G-74363-A1	Agricultural Tractor	Diesel	2006	109	Tier 2	2019	114	Tier 4 Final	750			10	Stanislaus
G-74364-A1	Agricultural Tractor	Diesel	1998	108	Tier 1	2019	106	Tier 4 Final	200			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-74365-A1	Agricultural Tractor	Diesel	1975	84	Tier 0	2019	115	Tier 4 Final	400			10	Madera
G-74367-A1	Wheel Loader	Diesel	2004	180	Tier 2	2020	192	Tier 4 Final	1200			10	Kings
G-74377-A1	Agricultural Tractor	Diesel	2006	75	Tier 2	2019	89	Tier 4 Final	1500			10	Madera
G-74405-A1	Wheel Loader	Diesel	1980	160	Tier 0	2020	192	Tier 4 Final	1200			10	Fresno
G-74415-A1	Agricultural Tractor	Diesel	1978	105	Tier 0	2019	125	Tier 4 Final	300			10	Tulare
G-74417-A1	Agricultural Tractor	Diesel	2001	92	Tier 1	2020	114	Tier 4 Final	300			10	Merced
G-74430-A1	Agricultural Tractor	Diesel	1994	114	Tier 0	2019	100	Tier 4 Final	500			10	Kern
G-74865-A1	Agricultural Tractor	Diesel	2004	134	Tier 2	2019	106	Tier 4 Phase In/Alt NOx	500			10	Tulare
G-74872-A1	Agricultural Tractor	Diesel	2002	108	Tier 1	2019	115	Tier 4 Final	600			10	Merced
G-74873-A1	Sprayer	Diesel	1997	114	Tier 1	2020	310	Tier 4 Final	500			10	Fresno
G-74874-A1	Agricultural Tractor	Diesel	2003	175	Tier 2	2020	195	Tier 4 Final	500			10	Fresno
G-74881-A1	Agricultural Tractor	Diesel	2005	98	Tier 2	2020	114	Tier 4 Final	500			10	Stanislaus
G-74885-A1	Agricultural Tractor	Diesel	1997	81	Tier 0	2019	114	Tier 4 Final	800			10	Stanislaus
G-74891-A1	Agricultural Tractor	Diesel	1992	97	Tier 0	2020	123	Tier 4 Final	800			10	Fresno
G-74893-A1	Wheel Loader	Diesel	2004	131	Tier 2	2018	173	Tier 4 Final	1000			10	Kern
G-74898-A1	Wheel Loader	Diesel	1995	125	Tier 0	2018	173	Tier 4 Final	1300			10	Kern
G-74899-A1	Wheel Loader	Diesel	1990	110	Tier 0	2018	173	Tier 4 Final	1000			10	Kern
G-74901-A1	Wheel Loader	Diesel	2002	172	Tier 1	2020	192	Tier 4 Final	1200			10	Kings
G-74906-A1	Agricultural Tractor	Diesel	2003	175	Tier 2	2020	196	Tier 4 Final	500			10	Fresno
G-74907-A1	Agricultural Tractor	Diesel	1984	87	Tier 0	2019	99	Tier 4 Final	250			10	Stanislaus
G-74908-A1	Agricultural Tractor	Diesel	1997	175	Tier 1	2020	196	Tier 4 Final	500			10	Fresno
G-74909-A1	Agricultural Tractor	Diesel	1993	120	Tier 0	2020	123	Tier 4 Final	500			10	Fresno
G-74910-A1	Agricultural Tractor	Diesel	1990	109	Tier 0	2020	123	Tier 4 Final	500			10	Fresno
G-74915-A1	Wheel Loader	Diesel	1971	130	Tier 0	2020	271	Tier 4 Final	1000			10	San Joaquin
G-74920-A1	Agricultural Tractor	Diesel	2004	96	Tier 2	2020	114	Tier 4 Final	800			10	Stanislaus
G-74921-A1	Agricultural Tractor	Diesel	1997	81	Tier 0	2019	114	Tier 4 Final	800			10	Stanislaus
G-74922-A1	Agricultural Tractor	Diesel	1998	89	Tier 1	2019	114	Tier 4 Final	1100			10	Kern
G-74951-A1	Wheel Loader	Diesel	2007	129	Tier 2	2020	152	Tier 4 Final	1500			10	San Joaquin
G-74957-A1	Wheel Loader	Diesel	2004	160	Tier 2	2019	188	Tier 4 Final	1800			10	Merced
G-74970-A1	Wheel Loader	Diesel	2006	153	Tier 2	2020	166	Tier 4 Final	2500			10	Stanislaus
G-74971-A1	Wheel Loader	Diesel	2006	153	Tier 2	2020	166	Tier 4 Final	2500			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-74974-A1	Agricultural Tractor	Diesel	1985	94	Tier 0	2020	114	Tier 4 Final	500			10	Tulare
G-75393-A1	Agricultural Tractor	Diesel	1990	88	Tier 0	2018	108	Tier 4 Final	1000			10	Tulare
G-75397-A1	Agricultural Tractor	Diesel	1986	97	Tier 0	2018	101	Tier 4 Final	500			10	Kings
G-75399-A1	Back Hoe	Diesel	1980	62	Tier 0	2020	91	Tier 4 Final	550			10	Stanislaus
G-75472-A1	Agricultural Tractor	Diesel	1982	81	Tier 0	2019	114	Tier 4 Final	500			10	Tulare
G-75475-A1	Agricultural Tractor	Diesel	1981	132	Tier 0	2019	155	Tier 4 Final	800			10	Kern
G-75476-A1	Agricultural Tractor	Diesel	1998	114	Tier 1	2020	123	Tier 4 Final	250			10	Merced
G-75521-A1	Wheel Loader	Diesel	1985	85	Tier 0	2019	74	Tier 4 Final	500			10	Tulare
G-75577-A2	Agricultural Tractor	Diesel	1998	92	Tier 1	2017	71	Tier 4 Final	800			10	Kern
G-75578-A1	Agricultural Tractor	Diesel	1993	96	Tier 0	2019	125	Tier 4 Final	1000			10	Kern
G-75587-A1	Agricultural Tractor	Diesel	1985	300	Tier 0	2020	250	Tier 4 Final	3400			10	Fresno
G-75596-A1	Agricultural Tractor	Diesel	1994	120	Tier 0	2020	139	Tier 4 Final	405			10	Kern
G-75597-A1	Agricultural Tractor	Diesel	2005	117	Tier 2	2020	139	Tier 4 Final	741			10	Kern
G-75609-A1	Agricultural Tractor	Diesel	1995	110	Tier 0	2019	84	Tier 4 Final	745			10	Kern
G-75611-A1	Agricultural Tractor	Diesel	1998	110	Tier 1	2020	139	Tier 4 Final	568			10	Kern
G-75613-A1	Agricultural Tractor	Diesel	1998	110	Tier 1	2020	139	Tier 4 Final	571			10	Kern
G-75615-A1	Agricultural Tractor	Diesel	1998	110	Tier 1	2020	139	Tier 4 Final	571			10	Kern
G-75616-A1	Agricultural Tractor	Diesel	1998	110	Tier 1	2020	139	Tier 4 Final	579			10	Kern
G-75618-A1	Agricultural Tractor	Diesel	1998	118	Tier 1	2020	139	Tier 4 Final	535			10	Kern
G-75683-A1	Agricultural Tractor	Diesel	1979	72	Tier 0	2019	106	Tier 4 Final	1500			10	Stanislaus
G-75684-A1	Agricultural Tractor	Diesel	1981	73	Tier 0	2020	123	Tier 4 Final	300			10	Stanislaus
G-75742-A1	Back Hoe	Diesel	2006	93	Tier 2	2019	96	Tier 4 Final	400			10	Merced
G-75749-A1	Agricultural Tractor	Diesel	1992	100	Tier 0	2018	119	Tier 4 Final	700			10	Fresno
G-75751-A1	Agricultural Tractor	Diesel	1992	100	Tier 0	2018	119	Tier 4 Final	700			10	Fresno
G-75754-A1	Agricultural Tractor	Diesel	1992	100	Tier 0	2017	104	Tier 4 Final	700			10	Fresno
G-75765-A1	Back Hoe	Diesel	2005	80	Tier 2	2020	90	Tier 4 Final	1225			10	Merced
G-75767-A1	Wheel Loader	Diesel	1995	75	Tier 0	2019	90	Tier 4 Final	1100			10	Merced
G-75769-A1	Wheel Loader	Diesel	1999	148	Tier 1	2020	162	Tier 4 Final	2500			10	Madera
G-75776-A1	Agricultural Tractor	Diesel	1998	135	Tier 1	2020	188	Tier 4 Final	1000			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-75782-A1	Wheel Loader	Diesel	2003	142	Tier 1	2019	152	Tier 4 Final	2000			10	Stanislaus
G-75844-A1	Agricultural Tractor	Diesel	2001	79	Tier 1	2018	101	Tier 4 Final	1500			10	Kern
G-75861-A1	Agricultural Tractor	Diesel	1978	71	Tier 0	2020	99	Tier 4 Final	350			10	Madera
G-75862-A1	Agricultural Tractor	Diesel	1993	120	Tier 0	2020	123	Tier 4 Final	350			10	Madera
G-75900-A1	Agricultural Tractor	Diesel	2007	86	Tier 2	2019	106	Tier 4 Final	500			10	Stanislaus
G-75904-A1	Agricultural Tractor	Diesel	1996	68	Tier 0	2020	123	Tier 4 Final	500			10	Tulare
G-75954-A1	Agricultural Tractor	Diesel	1983	222	Tier 0	2018	270	Tier 4 Final	350			10	Kings
G-75957-A1	Agricultural Tractor	Diesel	1987	210	Tier 0	2017	230	Tier 4 Final	350			10	Kings
G-75963-A1	Agricultural Tractor	Diesel	1976	180	Tier 0	2020	256	Tier 4 Final	1000			10	Tulare
G-75967-A1	Agricultural Tractor	Diesel	2002	148	Tier 1	2020	155	Tier 4 Final	1500			10	Kings
G-75975-A1	Back Hoe	Diesel	1987	69	Tier 0	2020	93	Tier 4 Final	500			10	Fresno
G-76029-A1	Wheel Loader	Diesel	2000	78	Tier 1	2020	93	Tier 4 Final	1000			10	Stanislaus
G-76031-A1	Wheel Loader	Diesel	2004	153	Tier 2	2019	166	Tier 4 Final	1500			10	Stanislaus
G-76032-A1	Wheel Loader	Diesel	2005	153	Tier 2	2019	166	Tier 4 Final	1500			10	Stanislaus
G-76036-A1	Agricultural Tractor	Diesel	1990	109	Tier 0	2020	123	Tier 4 Final	350			10	Fresno
G-76039-A1	Agricultural Tractor	Diesel	1991	109	Tier 0	2016	158	Tier 4 Final	350			10	Fresno
G-76050-A1	Agricultural Tractor	Diesel	2000	46	Tier 1	2020	55	Tier 4 Final	500			10	Tulare
G-76093-A1	Agricultural Tractor	Diesel	2001	118	Tier 1	2020	139	Tier 4 Final	650			10	Kern
G-76101-A1	Ag Forage Harvester	Diesel	1994	505	Tier 0	2019	789	Tier 4 Final	850			10	Stanislaus
G-76146-A1	Agricultural Tractor	Diesel	2004	55	Tier 2	2020	63	Tier 4 Final	2500			10	Fresno
G-76147-A1	Wheel Loader	Diesel	2006	165	Tier 2	2020	184	Tier 4 Final	1600			10	Tulare
G-76149-A1	Wheel Loader	Diesel	2006	160	Tier 2	2020	184	Tier 4 Final	1700			10	Tulare
G-76151-A1	Wheel Loader	Diesel	2004	224	Tier 2	2020	272	Tier 4 Final	1700			10	Tulare
G-76152-A1	Wheel Loader	Diesel	1998	114	Tier 1	2019	148	Tier 4 Final	3600			10	Fresno
G-76171-A1	Agricultural Tractor	Diesel	1991	97	Tier 0	2019	71	Tier 4 Final	900			10	Tulare
G-76183-A1	Agricultural Tractor	Diesel	1999	310	Tier 1	2020	405	Tier 4 Final	2000			10	Kern
G-76184-A1	Agricultural Tractor	Diesel	1959	61	Tier 0	2019	55	Tier 4 Final	100			10	Tulare
G-76263-A1	Agricultural Tractor	Diesel	1966	58	Tier 0	2019	59	Tier 4 Final	100			10	Tulare
G-76264-A1	Agricultural Tractor	Diesel	1998	99	Tier 1	2020	123	Tier 4 Final	400			10	Madera

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-76267-A1	Wheel Tractor	Diesel	1998	109	Tier 1	2020	123	Tier 4 Final	400			10	Madera
G-76274-A1	Agricultural Tractor	Diesel	1949	59	Tier 0	2019	73	Tier 4 Final	120			10	Stanislaus
G-76298-A1	Wheel Tractor	Diesel	2001	109	Tier 1	2020	123	Tier 4 Final	400			10	Madera
G-76309-A1	Wheel Tractor	Diesel	1998	109	Tier 1	2020	123	Tier 4 Final	400			10	Madera
G-76316-A1	Wheel Tractor	Diesel	2005	113	Tier 2	2020	123	Tier 4 Final	400			10	Madera
G-76325-A1	Wheel Tractor	Diesel	2001	109	Tier 1	2020	123	Tier 4 Final	400			10	Madera
G-76382-A1	Agricultural Tractor	Diesel	1975	74	Tier 0	2020	106	Tier 4 Final	500			10	Stanislaus
G-76414-A1	Agricultural Tractor	Diesel	1950	42	Tier 0	2020	45	Tier 4 Final	70			10	Stanislaus
G-76475-A1	Wheel Loader	Diesel	1993	153	Tier 0	2020	166	Tier 4 Final	900			10	Kings
G-76477-A2	Wheel Loader	Diesel	2000	208	Tier 1	2020	272	Tier 4 Final	1400			10	Tulare
G-76478-A1	Wheel Loader	Diesel	1986	110	Tier 0	2020	152	Tier 4 Final	400			10	Stanislaus
G-76480-A1	Wheel Loader	Diesel	2000	208	Tier 1	2020	272	Tier 4 Final	1400			10	Tulare
G-76481-A1	Agricultural Tractor	Diesel	1962	56	Tier 0	2020	66	Tier 4 Final	65			10	Fresno
G-76486-A1	Agricultural Tractor	Diesel	1976	84	Tier 0	2018	74	Tier 4 Final	500			10	Fresno
G-76487-A1	Cotton Picker	Diesel	2003	328	Tier 1	2019	560	Tier 4 Final	700			10	Kings
G-76487-A1	Cotton Picker	Diesel	2004	328	Tier 1								Kings
G-76488-A1	Cotton Picker	Diesel	2004	328	Tier 1	2020	560	Tier 4 Final	700			10	Kings
G-76488-A1	Cotton Picker	Diesel	2004	328	Tier 1								Kings
G-76489-A1	Cotton Picker	Diesel	2004	328	Tier 1	2019	560	Tier 4 Final	700			10	Kings
G-76489-A1	Cotton Picker	Diesel	2005	350	Tier 2								Kings
G-76490-A1	Agricultural Tractor	Diesel	1979	38	Tier 0	2020	73	Tier 4 Final	250			10	Merced
G-76491-A1	Cotton Picker	Diesel	2005	350	Tier 2	2019	560	Tier 4 Final	700			10	Kings
G-76491-A1	Cotton Picker	Diesel	2005	350	Tier 2								Kings
G-76492-A1	Cotton Picker	Diesel	2005	350	Tier 2	2019	560	Tier 4 Final	700			10	Kings
G-76492-A1	Cotton Picker	Diesel	2005	350	Tier 2								Kings
G-76493-A1	Cotton Picker	Diesel	2005	350	Tier 2	2019	560	Tier 4 Final	700			10	Kings
G-76493-A1	Cotton Picker	Diesel	2005	350	Tier 2								Kings
G-76494-A1	Cotton Picker	Diesel	2005	350	Tier 2	2019	560	Tier 4 Final	700			10	Kings
G-76494-A1	Cotton Picker	Diesel	2005	350	Tier 2								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-76495-A1	Cotton Picker	Diesel	2005	350	Tier 2	2019	560	Tier 4 Final	700			10	Kings
G-76495-A1	Cotton Picker	Diesel	2005	350	Tier 2								Kings
G-76507-A1	Wheel Loader	Diesel	2006	153	Tier 2	2020	166	Tier 4 Final	2500			10	Madera
G-76513-A1	Wheel Loader	Diesel	1968	173	Tier 2	2020	166	Tier 4 Final	1000			10	Tulare
G-76522-A1	Agricultural Tractor	Diesel	1996	93	Tier 0	2019	115	Tier 4 Final	500			10	Tulare
G-76526-A1	Agricultural Tractor	Diesel	2002	113	Tier 1	2020	139	Tier 4 Final	690			10	Kern
G-76543-A1	Agricultural Tractor	Diesel	1995	120	Tier 0	2020	139	Tier 4 Final	650			10	Kern
G-76590-A1	Wheel Loader	Diesel	1975	65	Tier 0	2020	99	Tier 4 Final	800			10	Tulare
G-76596-A1	Shaker	Diesel	2003	155	Tier 2	2018	148	Tier 4 Final	500			10	Kern
G-76597-A1	Shaker	Diesel	2003	130	Tier 2	2019	148	Tier 4 Final	500			10	Kern
G-76619-A1	Shaker	Diesel	2006	130	Tier 2	2019	148	Tier 4 Final	500			10	Kern
G-76620-A1	Shaker	Diesel	2006	155	Tier 2	2019	148	Tier 4 Final	500			10	Kern
G-76621-A1	Shaker	Diesel	2007	155	Tier 2	2019	148	Tier 4 Final	500			10	Kern
G-76631-A1	Agricultural Tractor	Diesel	2008	115	Tier 1	2020	125	Tier 4 Final	500			10	Madera
G-76635-A1	Agricultural Tractor	Diesel	2002	89	Tier 1	2019	90	Tier 4 Final	800			10	Kern
G-76636-A1	Agricultural Tractor	Diesel	1997	99	Tier 0	2019	114	Tier 4 Final	800			10	Kern
G-76639-A1	Excavator	Diesel	2006	147	Tier 2	2020	166	Tier 4 Final	1500			10	San Joaquin
G-76643-A1	Agricultural Tractor	Diesel	1992	88	Tier 0	2020	123	Tier 4 Final	1000			10	Madera
G-76768-A2	Agricultural Tractor	Diesel	2006	52	Tier 2	2020	73	Tier 4 Final	275			10	Kings
G-76783-A1	Excavator	Diesel	2005	345	Tier 2	2019	264	Tier 4 Final	2000			10	San Joaquin
G-76789-A1	Nut Sweeper	Diesel	1991	80	Tier 0	2020	74	Tier 4 Final	500			10	Tulare
G-76791-A1	Agricultural Tractor	Diesel	1990	109	Tier 0	2019	114	Tier 4 Final	370			10	Fresno
G-76796-A1	Agricultural Tractor	Diesel	2006	105	Tier 2	2019	115	Tier 4 Final	650			10	Tulare
G-76797-A1	Wheel Loader	Diesel	2006	160	Tier 2	2019	268	Tier 4 Final	2000			10	San Joaquin
G-76799-A1	Agricultural Tractor	Diesel	2002	115	Tier 1	2019	114	Tier 4 Final	700			10	Fresno
G-76800-A1	Agricultural Tractor	Diesel	1993	97	Tier 0	2019	114	Tier 4 Final	500			10	Fresno
G-76802-A1	Agricultural Tractor	Diesel	1997	81	Tier 0	2017	114	Tier 4 Final	500			10	Fresno
G-76803-A1	Agricultural Tractor	Diesel	2002	115	Tier 1	2019	114	Tier 4 Final	700			10	Fresno
G-76805-A1	Agricultural Tractor	Diesel	2002	115	Tier 1	2019	114	Tier 4 Final	700			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-76820-A1	Agricultural Tractor	Diesel	1978	67	Tier 0	2020	40	Tier 4 Final	100			10	Fresno
G-76845-A1	Agricultural Tractor	Diesel	1998	108	Tier 1	2018	74	Tier 4 Final	400			10	Fresno
G-76849-A1	Swathers	Diesel	1999	152	Tier 1	2018	266	Tier 4 Final	750			10	Stanislaus
G-76862-A1	Agricultural Tractor	Diesel	2005	153	Tier 2	2020	123	Tier 4 Final	600			10	Merced
G-76863-A1	Agricultural Tractor	Diesel	1998	109	Tier 1	2019	115	Tier 4 Final	600			10	Kern
G-76866-A1	Wheel Loader	Diesel	2002	142	Tier 1	2020	192	Tier 4 Final	1500			10	Tulare
G-76870-A1	Skid Loader	Diesel	2004	90	Tier 2	2020	73	Tier 4 Final	1500			10	San Joaquin
G-76872-A1	Agricultural Tractor	Diesel	2004	99	Tier 2	2020	101	Tier 4 Final	500			10	Stanislaus
G-76876-A1	Wheel Loader	Diesel	2005	232	Tier 2	2020	192	Tier 4 Final	1600			10	Kern
G-76917-A1	Agricultural Tractor	Diesel	1981	48	Tier 0	2020	40	Tier 4 Final	50			10	Fresno
G-76926-A1	Agricultural Tractor	Diesel	2005	504	Tier 2	2020	611	Tier 4 Final	500			10	Stanislaus
G-77043-A1	Back Hoe	Diesel	1996	92	Tier 0	2019	93	Tier 4 Final	1000			10	Fresno
G-77050-A1	Forklift	Diesel	2001	80	Tier 1	2020	74	Tier 4 Final	1000			10	Fresno
G-77057-A1	Sweeper	Diesel	2002	46	Tier 1	2019	74	Tier 4 Final	400			10	Fresno
G-77105-A1	Shaker	Diesel	2006	80	Tier 2	2019	121	Tier 4 Final	750			10	Madera
G-77110-A1	Pistachio Catcher	Diesel	2006	80	Tier 2	2019	121	Tier 4 Final	750			10	Madera
G-77116-A1	Agricultural Tractor	Diesel	1975	80	Tier 0	2020	114	Tier 4 Final	600			10	Merced
G-77133-A1	Agricultural Tractor	Diesel	1990	34	Tier 0	2019	36	Tier 4 Final	1000			10	Tulare
G-77135-A1	Agricultural Tractor	Diesel	2006	504	Tier 2	2020	515	Tier 4 Final	900			10	Merced
G-77156-A1	Agricultural Tractor	Diesel	1980	97	Tier 0	2018	108	Tier 4 Final	1200			10	Tulare
G-77160-A1	Agricultural Tractor	Diesel	1977	74	Tier 0	2018	108	Tier 4 Final	1200			10	Tulare
G-77183-A1	Agricultural Tractor	Diesel	1987	77	Tier 0	2020	114	Tier 4 Final	250			10	Merced
G-77190-A1	Agricultural Tractor	Diesel	1996	85	Tier 0	2020	123	Tier 4 Final	400			10	Fresno
G-77195-A1	Wheel Loader	Diesel	1993	98	Tier 0	2020	166	Tier 4 Final	850			10	Tulare
G-77367-A1	Wheel Loader	Diesel	1974	93	Tier 0	2018	154	Tier 4 Final	1500			10	Kings
G-77370-A1	Wheel Loader	Diesel	1978	93	Tier 0	2020	124	Tier 4 Final	1500			10	Kings
G-77372-A1	Wheel Loader	Diesel	1995	150	Tier 0	2020	166	Tier 4 Final	1500			10	Kings
G-77922-A1	Agricultural Tractor	Diesel	1993	240	Tier 0	2019	115	Tier 4 Final	1500			10	Fresno
G-77926-A1	Agricultural Tractor	Diesel	1990	240	Tier 0	2020	115	Tier 4 Final	1500			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-77933-A1	Agricultural Tractor	Diesel	1983	130	Tier 0	2019	115	Tier 4 Final	1500			10	Fresno
G-77936-A1	Agricultural Tractor	Diesel	2001	200	Tier 1	2020	250	Tier 4 Final	1200			10	Merced
G-77938-A1	Agricultural Tractor	Diesel	2003	208	Tier 1	2020	340	Tier 4 Final	1200			10	Merced
G-77939-A1	Agricultural Tractor	Diesel	1978	108	Tier 0	2019	115	Tier 4 Final	1500			10	Fresno
G-77986-A1	Agricultural Tractor	Diesel	1994	32	Tier 0	2019	73	Tier 4 Final	550			10	Merced
G-77989-A1	Agricultural Tractor	Diesel	2003	231	Tier 2	2020	282	Tier 4 Final	600			10	Tulare
G-77991-A1	Agricultural Tractor	Diesel	1998	110	Tier 1	2019	153	Tier 4 Final	600			10	Tulare
G-77999-A1	Agricultural Tractor	Diesel	2003	129	Tier 1	2020	139	Tier 4 Final	860			10	Tulare
G-78000-A1	Agricultural Tractor	Diesel	1976	60	Tier 0	2019	73	Tier 4 Final	220			10	San Joaquin
G-78001-A1	Agricultural Tractor	Diesel	1998	205	Tier 1	2020	342	Tier 4 Final	915			10	Tulare
G-78002-A1	Agricultural Tractor	Diesel	1984	154	Tier 0	2020	123	Tier 4 Final	300			10	Merced
G-78004-A1	Agricultural Tractor	Diesel	1988	97	Tier 0	2019	123	Tier 4 Final	300			10	Merced
G-78006-A1	Agricultural Tractor	Diesel	1989	204	Tier 0	2020	123	Tier 4 Final	300			10	Merced
G-78027-A1	Agricultural Tractor	Diesel	1985	168	Tier 0	2020	115	Tier 4 Final	1500			10	Fresno
G-78029-A1	Agricultural Tractor	Diesel	1993	90	Tier 0	2018	115	Tier 4 Final	1500			10	Fresno
G-78030-A1	Agricultural Tractor	Diesel	1987	88	Tier 0	2019	115	Tier 4 Final	1500			10	Fresno
G-78031-A1	Agricultural Tractor	Diesel	1979	132	Tier 0	2020	115	Tier 4 Final	1500			10	Fresno
G-78032-A1	Agricultural Tractor	Diesel	1980	108	Tier 0	2019	115	Tier 4 Final	1500			10	Fresno
G-78033-A1	Agricultural Tractor	Diesel	1978	156	Tier 0	2019	115	Tier 4 Final	1500			10	Fresno
G-78034-A1	Agricultural Tractor	Diesel	1979	156	Tier 0	2019	115	Tier 4 Final	1500			10	Fresno
G-78037-A1	Agricultural Tractor	Diesel	1974	151	Tier 0	2020	115	Tier 4 Final	1500			10	Fresno
G-78050-A1	Almond Sweeper	Diesel	2007	80	Tier 2	2020	74	Tier 4 Final	1200			10	Kern
G-78053-A1	Almond Sweeper	Diesel	2006	80	Tier 2	2020	74	Tier 4 Final	1200			10	Kern
G-78054-A1	Almond Sweeper	Diesel	2007	80	Tier 2	2020	74	Tier 4 Final	1200			10	Kern
G-78055-A1	Almond Sweeper	Diesel	2007	80	Tier 2	2020	74	Tier 4 Final	1200			10	Kern
G-78056-A1	Agricultural Tractor	Diesel	1982	132	Tier 0	2020	115	Tier 4 Final	1500			10	Fresno
G-78057-A1	Agricultural Tractor	Diesel	1995	174	Tier 0	2019	115	Tier 4 Final	1500			10	Fresno
G-78059-A1	Almond Sweeper	Diesel	2007	80	Tier 2	2020	74	Tier 4 Final	1200			10	Kern
G-78060-A1	Almond Shaker	Diesel	2007	170	Tier 2	2019	148	Tier 4 Final	800			10	Kern

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-78061-A1	Almond Shaker	Diesel	2007	170	Tier 2	2019	148	Tier 4 Final	800			10	Kern
G-78062-A1	Almond Shaker	Diesel	2007	170	Tier 2	2019	148	Tier 4 Final	800			10	Kern
G-78065-A1	Almond Shaker	Diesel	2007	170	Tier 2	2019	148	Tier 4 Final	800			10	Kern
G-78066-A1	Almond Shaker	Diesel	2007	170	Tier 2	2019	148	Tier 4 Final	800			10	Kern
G-78068-A1	Almond Shaker	Diesel	2007	170	Tier 2	2019	148	Tier 4 Final	800			10	Kern
G-78070-A1	Almond Shaker	Diesel	2007	170	Tier 2	2019	148	Tier 4 Final	800			10	Kern
G-78071-A1	Almond Shaker	Diesel	2007	170	Tier 2	2019	148	Tier 4 Final	800			10	Kern
G-78077-A1	Almond Sweeper	Diesel	2007	80	Tier 2	2020	74	Tier 4 Final	1200			10	Kern
G-78095-A1	Almond Sweeper	Diesel	2006	80	Tier 2	2020	74	Tier 4 Final	1200			10	Kern
G-78096-A1	Almond Sweeper	Diesel	2006	80	Tier 2	2020	74	Tier 4 Final	1200			10	Kern
G-78097-A1	Almond Sweeper	Diesel	2007	80	Tier 2	2020	74	Tier 4 Final	1200			10	Kern
G-78102-A1	Almond Sweeper	Diesel	2006	80	Tier 2	2020	74	Tier 4 Final	1200			10	Kern
G-78104-A1	Almond Shaker	Diesel	2007	170	Tier 2	2019	148	Tier 4 Final	800			10	Kern
G-78105-A1	Almond Shaker	Diesel	2007	170	Tier 2	2019	148	Tier 4 Final	800			10	Kern
G-78541-A1	Agricultural Tractor	Diesel	1994	120	Tier 0	2019	130	Tier 4 Final	1500			10	Kings
G-78544-A2	Almond Sweeper	Diesel	1996	80	Tier 0	2020	74	Tier 4 Final	180			10	Kern
G-78546-A2	Almond Shaker	Diesel	1982	104	Tier 0	2020	139	Tier 4 Final	160			10	Kern
G-78547-A2	Almond Shaker	Diesel	1992	121	Tier 0	2020	139	Tier 4 Final	220			10	Kern
G-78548-A1	Agricultural Tractor	Diesel	1966	110	Tier 0	2020	114	Tier 4 Final	200			10	Kings
G-78553-A1	Sweeper	Diesel	2003	80	Tier 1	2020	74	Tier 4 Final	500			10	Fresno
G-78554-A1	Sweeper	Diesel	2002	80	Tier 1	2020	74	Tier 4 Final	500			10	Fresno
G-78555-A1	Sweeper	Diesel	2006	80	Tier 1	2020	74	Tier 4 Final	500			10	Fresno
G-78556-A1	Sweeper	Diesel	2003	80	Tier 1	2020	74	Tier 4 Final	500			10	Fresno
G-78557-A1	Sweeper	Diesel	2002	80	Tier 1	2020	74	Tier 4 Final	500			10	Fresno
G-78558-A1	Sweeper	Diesel	2000	80	Tier 1	2019	74	Tier 4 Final	500			10	Fresno
G-78559-A1	Agricultural Tractor	Diesel	1988	144	Tier 0	2019	115	Tier 4 Final	800			10	Kern
G-78560-A1	Sweeper	Diesel	1997	80	Tier 0	2020	74	Tier 4 Final	500			10	Fresno
G-78561-A1	Agricultural Tractor	Diesel	1982	108	Tier 0	2019	115	Tier 4 Final	800			10	Kern
G-78562-A1	Agricultural Tractor	Diesel	1986	90	Tier 0	2019	115	Tier 4 Final	800			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-78563-A1	Agricultural Tractor	Diesel	1999	114	Tier 1	2020	123	Tier 4 Final	750			10	Stanislaus
G-78565-A1	Wheel Loader	Diesel	1992	160	Tier 0	2020	192	Tier 4 Final	1500			10	Tulare
G-78578-A1	Agricultural Tractor	Diesel	1997	121	Tier 1	2018	171	Tier 4 Final	800			10	Kern
G-78581-A1	Agricultural Tractor	Diesel	2006	89	Tier 2	2020	114	Tier 4 Final	600			10	Stanislaus
G-78618-A1	Agricultural Tractor	Diesel	2005	109	Tier 2	2020	114	Tier 4 Final	1250			10	Tulare
G-78620-A1	Agricultural Tractor	Diesel	1992	168	Tier 0	2019	123	Tier 4 Final	600			10	Fresno
G-78699-A1	Forklift	Diesel	1994	52	Tier 0	2019	74	Tier 4 Final	500			10	Fresno
G-78701-A1	Bin Carrier	Diesel	2005	80	Tier 1	2019	74	Tier 4 Final	600			10	Fresno
G-78702-A1	Tomato Harvester	Diesel	2005	225	Tier 2	2020	225	Tier 4 Final	1400			10	Kings
G-78704-A1	Tomato Harvester	Diesel	2006	225	Tier 2	2020	225	Tier 4 Final	1400			10	Kings
G-78713-A1	Agricultural Tractor	Diesel	1977	300	Tier 0	2017	310	Tier 4 Final	2600			10	Fresno
G-78721-A1	Sprayer	Diesel	1975	47	Tier 0	2020	65	Tier 4 Final	225			10	San Joaquin
G-78791-A1	Agricultural Tractor	Diesel	2002	115	Tier 1	2019	115	Tier 4 Final	1000			10	Kern
G-78813-A1	Agricultural Tractor	Diesel	2007	86	Tier 2	2020	123	Tier 4 Final	1000			10	Fresno
G-78815-A1	Agricultural Tractor	Diesel	2004	86	Tier 2	2020	123	Tier 4 Final	1000			10	Fresno
G-78820-A1	Agricultural Tractor	Diesel	2002	115	Tier 1	2019	115	Tier 4 Final	1000			10	Kern
G-78825-A1	Agricultural Tractor	Diesel	2007	86	Tier 2	2020	123	Tier 4 Final	1000			10	Fresno
G-78971-A1	Almond Sweeper	Diesel	1997	42	Tier 0	2020	74	Tier 4 Final	320			10	Fresno
G-78988-A1	Wheel Loader	Diesel	1987	291	Tier 0	2019	269	Tier 4 Final	1500			10	Fresno
G-78992-A1	Agricultural Tractor	Diesel	2004	220	Tier 2	2019	219	Tier 4 Final	900			10	Tulare
G-79000-A1	Agricultural Tractor	Diesel	2003	220	Tier 2	2019	219	Tier 4 Final	900			10	Tulare
G-79116-A1	Wheel Loader	Diesel	1978	80	Tier 0	2019	73	Tier 4 Final	550			10	Kings
G-79316-A1	Agricultural Tractor	Diesel	2003	220	Tier 2	2019	219	Tier 4 Final	900			10	Tulare
G-79317-A1	Agricultural Tractor	Diesel	2005	220	Tier 2	2019	219	Tier 4 Final	900			10	Tulare
G-79324-A1	Agricultural Tractor	Diesel	1997	32	Tier 0	2020	33	Tier 4 Final	170			10	Tulare
G-79326-A1	Agricultural Tractor	Diesel	1997	32	Tier 0	2020	33	Tier 4 Final	172			10	Tulare
G-79330-A1	Agricultural Tractor	Diesel	1997	32	Tier 0	2020	33	Tier 4 Final	175			10	Tulare
G-79332-A1	Agricultural Tractor	Diesel	1997	32	Tier 0	2020	33	Tier 4 Final	182			10	Tulare
G-79334-A1	Agricultural Tractor	Diesel	1997	32	Tier 0	2020	33	Tier 4 Final	127			10	Tulare

Project Type Off-Road

Description Vehicle Replacement

SJVAPCD Project Data 2021

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-79335-A1	Agricultural Tractor	Diesel	1997	32	Tier 0	2020	33	Tier 4 Final	224			10	Tulare
G-79340-A1	Agricultural Tractor	Diesel	1997	32	Tier 0	2020	33	Tier 4 Final	175			10	Tulare
G-79345-A1	Agricultural Tractor	Diesel	1997	32	Tier 0	2020	33	Tier 4 Final	195			10	Tulare
G-79346-A1	Agricultural Tractor	Diesel	1997	32	Tier 0	2020	33	Tier 4 Final	182			10	Tulare
G-79348-A1	Agricultural Tractor	Diesel	1997	32	Tier 0	2020	33	Tier 4 Final	179			10	Tulare
G-79357-A1	Agricultural Tractor	Diesel	1999	92	Tier 1	2018	106	Tier 4 Final	540			10	Tulare
G-79551-A1	Agricultural Tractor	Diesel	1998	110	Tier 1	2020	139	Tier 4 Final	571			10	Kern
G-79601-A1	Agricultural Tractor	Diesel	2003	117	Tier 2	2020	139	Tier 4 Final	406			10	Kern
G-79645-A1	Agricultural Tractor	Diesel	1994	127	Tier 0	2020	114	Tier 4 Final	400			10	Merced
G-79696-A2	Agricultural Tractor	Diesel	2005	283	Tier 2	2020	311	Tier 4 Final	2500			10	Kern
G-79699-A1	Wheel Loader	Diesel	1997	180	Tier 1	2020	182	Tier 4 Final	2900			10	Kern
G-79701-A1	Wheel Loader	Diesel	2003	160	Tier 2	2020	182	Tier 4 Final	2900			10	Kern
G-79706-A1	Agricultural Tractor	Diesel	2005	207	Tier 2	2020	250	Tier 4 Final	1000			10	Madera
G-79718-A1	Wheel Loader	Diesel	2000	101	Tier 1	2019	158	Tier 4 Final	1500			10	Kings
G-79720-A1	Agricultural Tractor	Diesel	1973	76	Tier 0	2019	106	Tier 4 Phase In/Alt NOx	500			10	Fresno
G-79722-A1	Agricultural Tractor	Diesel	2004	160	Tier 2	2019	155	Tier 4 Final	900			10	Merced
G-79790-A1	Agricultural Tractor	Diesel	1997	270	Tier 1	2018	375	Tier 4 Final	460			10	Merced
G-79837-A1	Agricultural Tractor	Diesel	1998	120	Tier 1	2019	110	Tier 4 Final	520			10	Stanislaus
G-79840-A1	Agricultural Tractor	Diesel	1990	110	Tier 0	2019	110	Tier 4 Final	100			10	Stanislaus
G-79844-A1	Agricultural Tractor	Diesel	2004	134	Tier 2	2020	210	Tier 4 Final	1000			10	Tulare
G-79847-A1	Agricultural Tractor	Diesel	1987	63	Tier 0	2019	73	Tier 4 Final	500			10	Tulare
G-79850-A1	Cotton Harvester	Diesel	1993	250	Tier 0	2019	560	Tier 4 Final	600			10	Fresno
G-79850-A1	Cotton Harvester	Diesel	1993	250	Tier 0								Fresno
G-79867-A1	Wheel Tractor	Diesel	1998	89	Tier 1	2020	114	Tier 4 Final	400			10	Madera
G-79870-A1	Chopper	Diesel	1996	496	Tier 1	2018	617	Tier 4 Final	500			10	Kern
G-79874-A1	Agricultural Tractor	Diesel	1982	97	Tier 0	2020	123	Tier 4 Final	300			10	Merced
G-79940-A1	Agricultural Tractor	Diesel	2006	115	Tier 2	2019	123	Tier 4 Final	400			10	Fresno
G-79968-A1	Agricultural Tractor	Diesel	1981	69	Tier 0	2019	98	Tier 4 Phase In/Alt NOx	750			10	Tulare
G-79999-A1	Agricultural Tractor	Diesel	2006	115	Tier 2	2019	123	Tier 4 Final	400			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-80038-A1	Agricultural Tractor	Diesel	2001	100	Tier 1	2020	120	Tier 4 Final	200			10	Fresno
G-80506-A1	Agricultural Tractor	Diesel	2005	92	Tier 2	2019	114	Tier 4 Final	1000			10	Kern
G-80523-A1	Tomato Harvester	Diesel	1990	190	Tier 0	2019	225	Tier 4 Final	500			10	Fresno
G-80543-A1	Agricultural Tractor	Diesel	1960	49	Tier 0	2019	73	Tier 4 Final	200			10	Stanislaus
G-80546-A1	Skid Loader	Diesel	2001	59	Tier 1	2019	73	Tier 4 Final	600			10	Stanislaus
G-80561-A1	Wheel Loader	Diesel	1994	250	Tier 0	2020	307	Tier 4 Final	1300			10	Stanislaus
G-80783-A1	Sprayer	Diesel	1967	63	Tier 0	2020	65	Tier 4 Final	200			10	Stanislaus
G-80784-A1	Shaker	Diesel	2007	165	Tier 2	2020	148	Tier 4 Final	1000			10	Stanislaus
G-80844-A1	Wheel Loader	Diesel	1986	85	Tier 0	2018	164	Tier 4 Final	1200			10	Tulare
G-80870-A1	Agricultural Tractor	Diesel	1988	215	Tier 1	2020	311	Tier 4 Final	3500			10	Tulare
G-80875-A1	Agricultural Tractor	Diesel	2000	135	Tier 1	2020	173	Tier 4 Final	1500			10	Tulare
G-80876-A1	Agricultural Tractor	Diesel	1995	46	Tier 0	2020	123	Tier 4 Final	500			10	Fresno
G-80877-A1	Agricultural Tractor	Diesel	1995	46	Tier 0	2020	123	Tier 4 Final	500			10	Fresno
G-80878-A1	Agricultural Tractor	Diesel	1993	56	Tier 0	2020	123	Tier 4 Final	500			10	Fresno
G-80917-A1	Agricultural Backhoe	Diesel	2005	95	Tier 2	2019	96	Tier 4 Final	500			10	Kern
G-80928-A1	Agricultural Tractor	Diesel	1993	285	Tier 0	2020	340	Tier 4 Final	700			10	Merced
G-80930-A1	Agricultural Tractor	Diesel	2007	95	Tier 2	2019	114	Tier 4 Final	600			10	Kern
G-80934-A1	Agricultural Tractor	Diesel	2006	105	Tier 2	2019	114	Tier 4 Final	600			10	Kern
G-80935-A1	Agricultural Tractor	Diesel	2006	105	Tier 2	2019	114	Tier 4 Final	600			10	Kern
G-80949-A1	Agricultural Tractor	Diesel	1998	100	Tier 1	2020	115	Tier 4 Final	1000			10	Fresno
G-80955-A1	Sweeper	Diesel	1995	85	Tier 0	2020	74	Tier 4 Final	450			10	San Joaquin
G-80956-A1	Agricultural Tractor	Diesel	1977	150	Tier 0	2020	123	Tier 4 Final	500			10	Fresno
G-80959-A1	Agricultural Tractor	Diesel	2004	115	Tier 2	2019	114	Tier 4 Final	2000			10	Kern
G-80981-A1	Agricultural Tractor	Diesel	1978	54	Tier 0	2019	45	Tier 4 Final	1500			10	Tulare
G-80982-A1	Agricultural Tractor	Diesel	1978	102	Tier 0	2018	101	Tier 4 Final	1500			10	Tulare
G-81066-A1	Wheel Loader	Diesel	1994	235	Tier 0	2018	230	Tier 4 Final	2000			10	Kern
G-81162-A1	Windrower	Diesel	2004	108	Tier 2	2019	266	Tier 4 Final	450			10	Kern
G-81169-A1	Windrower	Diesel	2004	108	Tier 2	2019	266	Tier 4 Final	450			10	Kern
G-81170-A1	Agricultural Tractor	Diesel	1983	90	Tier 0	2018	99	Tier 4 Final	500			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-81171-A1	Agricultural Tractor	Diesel	1996	68	Tier 0	2019	99	Tier 4 Final	500			10	Kern
G-81172-A1	Agricultural Tractor	Diesel	1996	90	Tier 0	2019	99	Tier 4 Final	500			10	Kern
G-81174-A1	Agricultural Tractor	Diesel	1996	68	Tier 0	2019	99	Tier 4 Final	500			10	Kern
G-81177-A1	Agricultural Tractor	Diesel	1995	68	Tier 0	2019	99	Tier 4 Final	500			10	Kern
G-81183-A1	Agricultural Tractor	Diesel	1994	90	Tier 0	2019	99	Tier 4 Final	500			10	Kern
G-81185-A1	Agricultural Tractor	Diesel	1996	90	Tier 0	2019	99	Tier 4 Final	500			10	Kern
G-81245-A1	Agricultural Tractor	Diesel	1996	90	Tier 0	2019	99	Tier 4 Final	500			10	Kern
G-81247-A1	Agricultural Tractor	Diesel	1991	88	Tier 0	2019	99	Tier 4 Final	500			10	Kern
G-81249-A1	Agricultural Tractor	Diesel	1983	168	Tier 0	2019	114	Tier 4 Final	500			10	Kern
G-81260-A1	Agricultural Tractor	Diesel	1999	226	Tier 1	2020	245	Tier 4 Final	500			10	Kern
G-81771-A1	Sprayer	Diesel	1990	70	Tier 0	2017	64	Tier 4 Final	300			10	Tulare
G-81807-A1	Agricultural Tractor	Diesel	1987	81	Tier 0	2020	73	Tier 4 Final	150			10	Tulare
G-81808-A1	Agricultural Tractor	Diesel	1985	228	Tier 0	2019	218	Tier 4 Final	800			10	Kern
G-81833-A1	Agricultural Tractor	Diesel	1990	335	Tier 0	2019	570	Tier 4 Final	500			10	Merced
G-81846-A1	Agricultural Tractor	Diesel	1976	100	Tier 0	2019	114	Tier 4 Final	500			10	Kern
G-81848-A1	Agricultural Tractor	Diesel	1993	100	Tier 0	2019	114	Tier 4 Final	500			10	Kern
G-81863-A1	Sprayer	Diesel	1984	62	Tier 0	2020	64	Tier 4 Final	500			10	Kern
G-81882-A1	Agricultural Tractor	Diesel	2003	119	Tier 2	2016	106	Tier 4 Phase In/Alt NOx	750			10	Merced
G-81884-A1	Agricultural Tractor	Diesel	1984	28	Tier 0	2019	30	Tier 4 Final	100			10	Stanislaus
G-81910-A1	Agricultural Tractor	Diesel	1998	180	Tier 1	2020	250	Tier 4 Final	1000			10	Kings
G-81911-A1	Agricultural Tractor	Diesel	1996	100	Tier 0	2020	115	Tier 4 Final	1000			10	Kings
G-81913-A1	Agricultural Tractor	Diesel	1997	114	Tier 1	2020	123	Tier 4 Final	1000			10	Kings
G-81957-A1	Agricultural Tractor	Diesel	1985	130	Tier 0	2020	155	Tier 4 Final	300			10	Kings
G-81961-A1	Agricultural Tractor	Diesel	1982	37	Tier 0	2019	48	Tier 4 Final	275			10	Kern
G-81964-A1	Chopper	Diesel	2013	872	Tier 2	2020	912	Tier 4 Final	1200			10	Stanislaus
G-82015-A1	Agricultural Tractor	Diesel	1984	28	Tier 0	2019	30	Tier 4 Final	100			10	Stanislaus
G-82016-A1	Agricultural Tractor	Diesel	1984	28	Tier 0	2019	30	Tier 4 Final	100			10	Stanislaus
G-82017-A1	Agricultural Tractor	Diesel	1984	28	Tier 0	2019	30	Tier 4 Final	100			10	Stanislaus
G-82018-A1	Agricultural Tractor	Diesel	1979	62	Tier 0	2019	73	Tier 4 Final	200			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-82019-A1	Agricultural Tractor	Diesel	2006	27	Tier 2	2019	37	Tier 4 Final	600			10	Stanislaus
G-82022-A1	Agricultural Tractor	Diesel	1991	30	Tier 0	2020	123	Tier 4 Final	400			10	Fresno
G-82137-A1	Forklift	Diesel	2000	75	Tier 1	2020	74	Tier 4 Final	500			10	Merced
G-82138-A1	Forklift	Diesel	1999	75	Tier 1	2020	74	Tier 4 Final	500			10	Stanislaus
G-82152-A1	Forklift	Diesel	2000	80	Tier 1	2018	74	Tier 4 Final	500			10	Merced
G-82229-A1	Sweeper	Diesel	2001	80	Tier 1	2019	74	Tier 4 Final	300			10	Fresno
G-82500-A1	Wheel Loader	Diesel	2006	199	Tier 2	2020	249	Tier 4 Final	1200			10	Tulare
G-82703-A1	Wheel Loader	Diesel	1987	58	Tier 0	2019	96	Tier 4 Final	500			10	Fresno
G-82707-A1	Back Hoe	Diesel	1990	82	Tier 0	2019	109	Tier 4 Final	700			10	Kings
G-82715-A1	Almond Sweeper	Diesel	1990	40	Tier 0	2019	74	Tier 4 Final	200			10	Fresno
G-82741-A1	Agricultural Tractor	Diesel	2005	115	Tier 1	2020	114	Tier 4 Final	500			10	Fresno
G-82744-A1	Almond Sweeper	Diesel	1996	80	Tier 0	2020	74	Tier 4 Final	650			10	San Joaquin
G-82746-A1	Sweeper	Diesel	1990	80	Tier 0	2020	74	Tier 4 Final	650			10	San Joaquin
G-82754-A1	Wheel Loader	Diesel	1994	120	Tier 0	2020	192	Tier 4 Final	1500			10	Tulare
G-82758-A1	Shaker	Diesel	1998	125	Tier 1	2020	174	Tier 4 Final	500			10	Madera
G-82761-A1	Wheel Loader	Diesel	1978	100	Tier 0	2020	152	Tier 4 Final	1200			10	Tulare
G-82762-A1	Agricultural Tractor	Diesel	1990	240	Tier 0	2020	256	Tier 4 Final	500			10	Tulare
G-82763-A1	Shaker	Diesel	1998	125	Tier 1	2020	174	Tier 4 Final	500			10	Madera
G-82764-A1	Tractor	Diesel	1988	84	Tier 0	2018	106	Tier 4 Final	100			10	Stanislaus
G-82776-A1	Tractor	Diesel	2004	51	Tier 2	2019	56	Tier 4 Final	500			10	Tulare
G-82777-A1	Shaker	Diesel	1999	125	Tier 1	2020	174	Tier 4 Final	500			10	Madera
G-82779-A1	Agricultural Tractor	Diesel	2003	92	Tier 1	2020	114	Tier 4 Final	700			10	Tulare
G-82780-A1	Shaker	Diesel	2002	125	Tier 1	2020	174	Tier 4 Final	500			10	Madera
G-82781-A1	Tractor	Diesel	2001	62	Tier 1	2020	56	Tier 4 Final	500			10	Tulare
G-82782-A1	Agricultural Tractor	Diesel	2004	145	Tier 2	2020	155	Tier 4 Final	900			10	Kern
G-82783-A1	Shaker	Diesel	2002	125	Tier 1	2020	174	Tier 4 Final	500			10	Madera
G-82785-A1	Agricultural Tractor	Diesel	2005	115	Tier 2	2020	123	Tier 4 Final	2200			10	Kings
G-82787-A1	Agricultural Tractor	Diesel	2005	115	Tier 2	2020	123	Tier 4 Final	2200			10	Kings
G-82789-A1	Agricultural Tractor	Diesel	2005	115	Tier 2	2020	123	Tier 4 Final	2200			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-82796-A1	Shaker	Diesel	2002	125	Tier 1	2020	174	Tier 4 Final	500			10	Madera
G-82801-A1	Shaker	Diesel	2007	130	Tier 2	2020	174	Tier 4 Final	500			10	Madera
G-82803-A1	Agricultural Tractor	Diesel	1988	82	Tier 0	2020	123	Tier 4 Final	1500			10	Fresno
G-82804-A1	Shaker	Diesel	2007	130	Tier 2	2020	174	Tier 4 Final	500			10	Madera
G-82805-A1	Shaker	Diesel	1998	125	Tier 1	2020	174	Tier 4 Final	500			10	Madera
G-82854-A1	Agricultural Tractor	Diesel	1989	84	Tier 0	2020	123	Tier 4 Final	250			10	Merced
G-82859-A1	Tractor	Diesel	2005	115	Tier 2	2020	123	Tier 4 Final	2200			10	Kings
G-82867-A1	Wheel Loader	Diesel	1969	100	Tier 0	2019	153	Tier 4 Final	1000			10	Kings
G-82908-A1	Agricultural Backhoe	Diesel	1998	92	Tier 0	2019	62	Tier 4 Final	500			10	Tulare
G-82926-A1	Wheel Loader	Diesel	2002	137	Tier 1	2020	166	Tier 4 Final	1400			10	Tulare
G-82931-A1	Sweeper	Diesel	1984	78	Tier 0	2020	74	Tier 4 Final	400			10	San Joaquin
G-83204-A1	Sweeper	Diesel	1991	74	Tier 0	2020	74	Tier 4 Final	400			10	San Joaquin
G-83205-A1	Sweeper	Diesel	2001	80	Tier 1	2020	74	Tier 4 Final	400			10	San Joaquin
G-83206-A1	Sweeper	Diesel	1993	74	Tier 0	2020	74	Tier 4 Final	400			10	San Joaquin
G-83207-A1	Sweeper	Diesel	1981	70	Tier 0	2020	74	Tier 4 Final	400			10	San Joaquin
G-83208-A1	Sweeper	Diesel	1987	80	Tier 0	2020	74	Tier 4 Final	400			10	San Joaquin
G-83265-A1	Wheel Loader	Diesel	2003	90	Tier 1	2019	148	Tier 4 Final	1800			10	Stanislaus
G-83278-A1	Agricultural Tractor	Diesel	1998	85	Tier 1	2020	114	Tier 4 Final	350			10	Fresno
G-83279-A1	Sweeper	Diesel	1993	38	Tier 0	2020	74	Tier 4 Final	250			10	Fresno
G-83285-A1	Sprayer	Diesel	1984	49	Tier 0	2019	64	Tier 4 Final	650			10	Tulare
G-83314-A1	Agricultural Tractor	Diesel	1995	186	Tier 0	2020	242	Tier 4 Final	1400			10	Merced
G-83321-A1	Agricultural Tractor	Diesel	1997	175	Tier 1	2020	210	Tier 4 Final	250			10	Kings
G-83332-A1	Agricultural Tractor	Diesel	1997	102	Tier 1	2019	115	Tier 4 Final	500			10	Tulare
G-83571-A1	Agricultural Tractor	Diesel	1992	104	Tier 0	2020	106	Tier 4 Final	300			10	Stanislaus
G-83582-A1	Wheel Loader	Diesel	1999	157	Tier 1	2020	170	Tier 4 Final	875			10	Tulare
G-83621-A1	Agricultural Tractor	Diesel	2002	89	Tier 1	2020	114	Tier 4 Final	1300			10	Fresno
G-83622-A1	Agricultural Tractor	Diesel	2000	114	Tier 1	2020	114	Tier 4 Final	1300			10	Fresno
G-83627-A1	Agricultural Tractor	Diesel	1983	140	Tier 0	2020	188	Tier 4 Final	300			10	Merced
G-83788-A1	Agricultural Tractor	Diesel	2003	156	Tier 1	2020	175	Tier 4 Final	500			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-83797-A1	Agricultural Tractor	Diesel	1988	68	Tier 0	2020	114	Tier 4 Final	550			10	Tulare
G-83851-A1	Back Hoe	Diesel	1977	66	Tier 0	2020	74	Tier 4 Final	500			10	San Joaquin
G-83961-A1	Forklift	Diesel	1978	60	Tier 0	2019	74	Tier 4 Final	2000			10	Kern
G-84253-A1	Spreader	Diesel	1992	250	Tier 0	2020	365	Tier 4 Final	1000			10	Fresno
G-84255-A1	Spreader	Diesel	1982	228	Tier 0	2020	365	Tier 4 Final	1000			10	Fresno
G-84256-A1	Agricultural Tractor	Diesel	1977	59	Tier 0	2020	123	Tier 4 Final	300			10	Tulare
G-84257-A1	Agricultural Tractor	Diesel	2006	109	Tier 2	2019	106	Tier 4 Final	1250			10	Tulare
G-84259-A1	Chopper	Diesel	2002	601	Tier 2	2018	617	Tier 4 Final	1000			10	Merced
G-84270-A1	Agricultural Tractor	Diesel	2004	421	Tier 2	2019	345	Tier 4 Final	1750			10	Stanislaus
G-84613-A1	Agricultural Tractor	Diesel	2002	51	Tier 2	2020	56	Tier 4 Final	1000			10	Kings
G-84614-A1	Agricultural Tractor	Diesel	2000	53	Tier 1	2020	73	Tier 4 Final	1000			10	Kings
G-84615-A1	Agricultural Tractor	Diesel	1996	120	Tier 0	2020	130	Tier 4 Final	1000			10	Kings
G-84621-A1	Back Hoe	Diesel	1989	83	Tier 0	2019	96	Tier 4 Final	250			10	Stanislaus
G-84730-A1	Agricultural Tractor	Diesel	1993	180	Tier 0	2019	114	Tier 4 Final	1200			10	Kern
G-84845-A1	Agricultural Tractor	Diesel	2006	105	Tier 2	2020	123	Tier 4 Final	400			10	Fresno
G-84951-A1	Agricultural Tractor	Diesel	1988	228	Tier 0	2018	295	Tier 4 Final	600			10	Tulare
G-84993-A1	Chopper	Diesel	1998	365	Tier 1	2019	532	Tier 4 Final	300			10	Merced
G-85323-A1	Agricultural Tractor	Diesel	1988	81	Tier 0	2020	106	Tier 4 Phase In/Alt NOx	450			10	Fresno
G-85327-A1	Agricultural Tractor	Diesel	1988	81	Tier 0	2020	106	Tier 4 Phase In/Alt NOx	450			10	Fresno
G-86154-A1	Agricultural Tractor	Diesel	1981	126	Tier 0	2015	139	Tier 4 Final	600			10	Tulare
G-87129-A1	Agricultural Tractor	Diesel	1981	72	Tier 0	2019	114	Tier 4 Final	200			10	Stanislaus
G-87154-A1	Agricultural Tractor	Diesel	1996	99	Tier 0	2020	123	Tier 4 Final	750			10	Tulare
G-87157-A1	Agricultural Tractor	Diesel	1998	95	Tier 1	2019	115	Tier 4 Final	150			10	Kern
G-87207-A1	Agricultural Tractor	Diesel	1998	88	Tier 1	2020	90	Tier 4 Final	500			10	Kern
G-87214-A1	Shaker	Diesel	1997	125	Tier 1	2020	148	Tier 4 Final	500			10	Stanislaus
G-87227-A1	Forklift	Diesel	2007	80	Tier 2	2020	74	Tier 4 Final	850			10	Kern
G-87228-A1	Forklift	Diesel	2005	80	Tier 2	2020	74	Tier 4 Final	850			10	Kern
G-87230-A1	Shaker	Diesel	1994	130	Tier 0	2020	148	Tier 4 Final	250			10	San Joaquin
G-87233-A1	Agricultural Tractor	Diesel	2005	139	Tier 2	2020	202	Tier 4 Final	2000			10	Merced

Project Type Off-Road

Description Vehicle Replacement

SJVAPCD Project Data 2021

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-87242-A1	Agricultural Tractor	Diesel	1987	72	Tier 0	2018	74	Tier 4 Final	550			10	Tulare
G-87247-A1	Agricultural Tractor	Diesel	1966	115	Tier 0	2019	114	Tier 4 Final	300			10	Kern
G-87292-A1	Agricultural Tractor	Diesel	2001	98	Tier 1	2019	106	Tier 4 Final	1200			10	Kern
G-87302-A1	Agricultural Tractor	Diesel	1999	92	Tier 1	2020	106	Tier 4 Final	1200			10	Kern
G-87560-A1	Wheel Loader	Diesel	2000	135	Tier 1	2020	154	Tier 4 Final	2000			10	Kern
G-87619-A1	Chopper	Diesel	2000	449	Tier 1	2018	617	Tier 4 Final	600			10	Tulare
G-87632-A1	Chopper	Diesel	2003	601	Tier 2	2020	912	Tier 4 Final	1000			10	Kern
G-87857-A1	Agricultural Tractor	Diesel	1981	136	Tier 0	2020	98	Tier 4 Phase In/Alt NOx	200			10	San Joaquin
G-87944-A1	Agricultural Tractor	Diesel	2009	121	Tier 2	2019	125	Tier 4 Final	800			10	Kings
G-88178-A1	Shaker	Diesel	2006	130	Tier 2	2020	139	Tier 4 Final	500			10	Fresno
G-88179-A1	Forklift	Diesel	1983	52	Tier 0	2019	74	Tier 4 Final	800			10	Kern
G-88180-A1	Forklift	Diesel	1982	52	Tier 0	2019	74	Tier 4 Final	800			10	Kern
G-88181-A1	Agricultural Tractor	Diesel	1997	86	Tier 0	2018	90	Tier 4 Final	600			10	Kern
G-88185-A1	Shaker	Diesel	1993	115	Tier 0	2020	148	Tier 4 Final	250			10	San Joaquin
G-88209-A1	Agricultural Tractor	Diesel	1992	64	Tier 0	2019	106	Tier 4 Phase In/Alt NOx	400			10	Kings
G-88210-A1	Agricultural Tractor	Diesel	1992	64	Tier 0	2019	106	Tier 4 Phase In/Alt NOx	400			10	Kings
G-88244-A1	Agricultural Tractor	Diesel	2005	81	Tier 2	2019	106	Tier 4 Phase In/Alt NOx	350			10	Kern
G-88249-A1	Agricultural Tractor	Diesel	1992	64	Tier 0	2019	106	Tier 4 Phase In/Alt NOx	400			10	Kings
G-88250-A1	Agricultural Tractor	Diesel	1992	64	Tier 0	2019	106	Tier 4 Phase In/Alt NOx	400			10	Kings
G-88400-A1	Wheel Loader	Diesel	2004	152	Tier 2	2019	182	Tier 4 Final	1500			10	Kings
G-88418-A1	Agricultural Tractor	Diesel	2007	90	Tier 2	2019	106	Tier 4 Phase In/Alt NOx	600			10	Tulare
G-88433-A1	Agricultural Tractor	Diesel	2007	86	Tier 2	2019	106	Tier 4 Phase In/Alt NOx	600			10	Tulare
G-88472-A1	Agricultural Tractor	Diesel	1964	114	Tier 0	2020	123	Tier 4 Final	300			10	Tulare
G-88474-A1	Agricultural Tractor	Diesel	2002	340	Tier 2	2020	340	Tier 4 Final	360			10	Tulare
G-88480-A1	Motor Grader	Diesel	1997	170	Tier 1	2020	190	Tier 4 Final	1050			10	Madera
G-88483-A1	Agricultural Tractor	Diesel	2000	52	Tier 1	2019	73	Tier 4 Final	200			10	Merced
G-88500-A1	Wheel Loader	Diesel	1994	118	Tier 0	2017	173	Tier 4 Final	1200			10	Kern
G-88612-A1	Agricultural Tractor	Diesel	1983	83	Tier 0	2019	115	Tier 4 Final	750			10	Stanislaus
G-88619-A1	Sprayer	Diesel	1998	70	Tier 1	2019	74	Tier 4 Final	1000			10	San Joaquin

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-88835-A1	Forklift	Diesel	1983	52	Tier 0	2019	74	Tier 4 Final	800			10	Tulare
G-89170-A1	Agricultural Tractor	Diesel	1975	96	Tier 0	2019	115	Tier 4 Final	800			10	Tulare
G-89173-A1	Agricultural Tractor	Diesel	1999	114	Tier 1	2018	106	Tier 4 Phase In/Alt NOx	800			10	Tulare
G-89174-A1	Agricultural Tractor	Diesel	1994	108	Tier 0	2019	106	Tier 4 Phase In/Alt NOx	800			10	Tulare
G-89299-A1	Agricultural Tractor	Diesel	1999	200	Tier 1	2020	195	Tier 4 Final	1000			10	Kern
G-89308-A1	Agricultural Tractor	Diesel	1987	81	Tier 0	2021	123	Tier 4 Final	500			10	Madera
G-89309-A1	Agricultural Tractor	Diesel	1979	73	Tier 0	2021	123	Tier 4 Final	450			10	Madera
G-89311-A1	Agricultural Tractor	Diesel	1975	67	Tier 0	2021	123	Tier 4 Final	420			10	Madera
G-89884-A1	Agricultural Tractor	Diesel	2006	96	Tier 2	2018	106	Tier 4 Phase In/Alt NOx	1500			10	Tulare
G-89885-A1	Agricultural Tractor	Diesel	2006	96	Tier 2	2019	106	Tier 4 Phase In/Alt NOx	1500			10	Tulare
G-89886-A1	Agricultural Tractor	Diesel	1987	50	Tier 0	2019	58	Tier 4 Final	1000			10	Tulare
G-89892-A1	Agricultural Tractor	Diesel	1978	173	Tier 0	2020	175	Tier 4 Final	1500			10	Kern
G-89894-A1	Agricultural Tractor	Diesel	2006	91	Tier 2	2018	74	Tier 4 Final	1000			10	Tulare
G-89899-A1	Agricultural Tractor	Diesel	2005	45	Tier 1	2020	73	Tier 4 Final	1500			10	Tulare
G-89900-A1	Agricultural Tractor	Diesel	2005	45	Tier 1	2020	73	Tier 4 Final	1500			10	Tulare
G-89901-A1	Agricultural Tractor	Diesel	2005	45	Tier 1	2020	73	Tier 4 Final	1500			10	Tulare
G-89924-A1	Cotton Picker	Diesel	2006	350	Tier 2	2019	560	Tier 4 Final	375			10	Kings
G-89927-A1	Agricultural Tractor	Diesel	1992	134	Tier 0	2020	114	Tier 4 Final	600			10	Fresno
G-89960-A1	Agricultural Tractor	Diesel	2004	225	Tier 2	2020	210	Tier 4 Final	1000			10	Kings
G-89961-A1	Cotton Picker	Diesel	1995	250	Tier 0	2019	560	Tier 4 Final	330			10	Merced
G-89961-A1	Cotton Picker	Diesel	1996	250	Tier 1								Merced
G-90199-A1	Wheel Loader	Diesel	1998	152	Tier 1	2020	188	Tier 4 Final	1400			10	Kern
G-90201-A1	Agricultural Tractor	Diesel	1978	62	Tier 0	2020	106	Tier 4 Final	200			10	Stanislaus
G-90206-A1	Agricultural Tractor	Diesel	2004	231	Tier 2	2018	270	Tier 4 Final	500			10	Tulare
G-90209-A1	Sweeper	Diesel	2006	80	Tier 1	2019	74	Tier 4 Final	1100			10	Kern
G-90258-A1	Agricultural Tractor	Diesel	1991	25	Tier 0	2018	35	Tier 4 Final	600			10	Kern
G-90262-A1	Agricultural Tractor	Diesel	1992	25	Tier 0	2018	35	Tier 4 Final	600			10	Kern
G-90265-A1	Agricultural Tractor	Diesel	1991	25	Tier 0	2019	35	Tier 4 Final	600			10	Kern
G-90269-A1	Agricultural Tractor	Diesel	1991	25	Tier 0	2018	35	Tier 4 Final	600			10	Kern

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-90275-A1	Agricultural Tractor	Diesel	1991	25	Tier 0	2019	35	Tier 4 Final	600			10	Kern
G-90276-A1	Agricultural Tractor	Diesel	1990	25	Tier 0	2018	35	Tier 4 Final	600			10	Kern
G-90278-A1	Agricultural Tractor	Diesel	1992	25	Tier 0	2018	35	Tier 4 Final	600			10	Kern
G-90279-A1	Agricultural Tractor	Diesel	1991	25	Tier 0	2018	35	Tier 4 Final	600			10	Kern
G-90281-A1	Agricultural Tractor	Diesel	1991	25	Tier 0	2018	35	Tier 4 Final	600			10	Kern
G-90283-A1	Agricultural Tractor	Diesel	1992	25	Tier 0	2018	35	Tier 4 Final	600			10	Kern
G-90284-A1	Agricultural Tractor	Diesel	1991	25	Tier 0	2019	35	Tier 4 Final	600			10	Kern
G-90285-A1	Agricultural Tractor	Diesel	1991	25	Tier 0	2018	35	Tier 4 Final	600			10	Kern
G-90286-A1	Agricultural Tractor	Diesel	1991	25	Tier 0	2018	35	Tier 4 Final	600			10	Kern
G-90288-A1	Agricultural Tractor	Diesel	1991	25	Tier 0	2019	35	Tier 4 Final	600			10	Kern
G-90289-A1	Agricultural Tractor	Diesel	1991	25	Tier 0	2018	35	Tier 4 Final	600			10	Kern
G-90290-A1	Agricultural Tractor	Diesel	1991	25	Tier 0	2018	35	Tier 4 Final	600			10	Kern
G-90292-A1	Agricultural Tractor	Diesel	1992	25	Tier 0	2018	35	Tier 4 Final	600			10	Kern
G-90293-A1	Agricultural Tractor	Diesel	1992	25	Tier 0	2019	35	Tier 4 Final	600			10	Kern
G-90294-A1	Agricultural Tractor	Diesel	1990	25	Tier 0	2019	35	Tier 4 Final	600			10	Kern
G-90295-A1	Agricultural Tractor	Diesel	1991	25	Tier 0	2018	35	Tier 4 Final	600			10	Kern
G-90297-A1	Agricultural Tractor	Diesel	1990	25	Tier 0	2019	35	Tier 4 Final	600			10	Kern
G-90339-A1	Wheel Loader	Diesel	1992	118	Tier 0	2019	164	Tier 4 Final	1584			10	Merced
G-90430-A1	Agricultural Tractor	Diesel	1998	114	Tier 1	2020	125	Tier 4 Final	800			10	Kern
G-90540-A1	Back Hoe	Diesel	1997	95	Tier 0	2020	74	Tier 4 Final	600			10	Merced
G-91018-A1	Agricultural Tractor	Diesel	1997	210	Tier 1	2019	115	Tier 4 Final	600			10	Tulare
G-91019-A1	Agricultural Tractor	Diesel	1997	102	Tier 1	2020	106	Tier 4 Phase In/Alt NOx	800			10	Tulare
G-91020-A1	Agricultural Tractor	Diesel	1997	81	Tier 0	2020	123	Tier 4 Final	350			10	Stanislaus
G-91036-A1	Agricultural Tractor	Diesel	1987	280	Tier 0	2018	115	Tier 4 Final	600			10	Kern
G-91061-A1	Wheel Loader	Diesel	1996	120	Tier 0	2020	163	Tier 4 Final	3000			10	Tulare
G-91082-A1	Agricultural Tractor	Diesel	1990	335	Tier 1	2019	295	Tier 4 Final	700			10	Kern
G-91145-A1	Sweeper	Diesel	1992	60	Tier 0	2019	74	Tier 4 Final	1500			10	Kings
G-91266-A1	Tractor Loader	Diesel	1995	75	Tier 0	2019	74	Tier 4 Final	1000			10	Kern
G-91363-A1	Agricultural Tractor	Diesel	1987	97	Tier 0	2020	123	Tier 4 Final	1000			10	Kings

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-91472-A1	Forklift	Diesel	1988	71	Tier 0	2019	48	Tier 4 Final	300			10	Kern
G-91503-A1	Agricultural Tractor	Diesel	2000	400	Tier 1	2020	515	Tier 4 Final	600			10	Merced
G-91529-A1	Agricultural Tractor	Diesel	2001	95	Tier 1	2019	114	Tier 4 Final	500			10	Kern
G-91530-A1	Agricultural Tractor	Diesel	2001	95	Tier 1	2019	114	Tier 4 Final	500			10	Kern
G-91556-A1	Agricultural Tractor	Diesel	2002	110	Tier 1	2019	114	Tier 4 Final	478			10	Kern
G-91558-A1	Agricultural Tractor	Diesel	2001	95	Tier 1	2019	114	Tier 4 Final	500			10	Kern
G-91561-A1	Agricultural Tractor	Diesel	2000	104	Tier 1	2018	90	Tier 4 Final	477			10	Kern
G-91718-A1	Sweeper	Diesel	1996	80	Tier 0	2020	74	Tier 4 Final	300			10	Fresno
G-91746-A1	Shaker	Diesel	2002	125	Tier 1	2018	74	Tier 4 Final	1000			10	Kern
G-91860-A1	Agricultural Tractor	Diesel	1977	52	Tier 0	2020	53	Tier 4 Final	100			10	Kern
G-91864-A1	Agricultural Tractor	Diesel	1985	77	Tier 0	2020	75	Tier 4 Final	100			10	Kern
G-91895-A1	Almond Harvester	Diesel	2005	125	Tier 1	2019	173	Tier 4 Final	523			10	Fresno
G-92256-A1	Agricultural Tractor	Diesel	1998	425	Tier 1	2019	520	Tier 4 Final	1000			10	Fresno
G-92273-A1	Other Agricultural	Diesel	2001	125	Tier 1	2011	130	Tier 3	500			10	Fresno
G-92274-A1	Other Agricultural	Diesel	1998	125	Tier 1	2011	130	Tier 3	500			10	Fresno
G-92275-A1	Other Agricultural	Diesel	2005	125	Tier 1	2011	130	Tier 3	500			10	Fresno
G-92276-A1	Other Agricultural	Diesel	2006	125	Tier 1	2011	130	Tier 3	500			10	Fresno
G-92277-A1	Other Agricultural	Diesel	2004	125	Tier 1	2011	130	Tier 3	500			10	Fresno
G-92278-A1	Other Agricultural	Diesel	2006	125	Tier 1	2011	130	Tier 3	500			10	Fresno
G-92279-A1	Other Agricultural	Diesel	2003	125	Tier 1	2011	130	Tier 3	500			10	Fresno
G-92281-A1	Other Agricultural	Diesel	2007	125	Tier 1	2011	130	Tier 3	500			10	Fresno
G-92282-A1	Other Agricultural	Diesel	2007	125	Tier 1	2011	130	Tier 3	500			10	Fresno
G-92283-A1	Other Agricultural	Diesel	1999	125	Tier 1	2011	130	Tier 3	500			10	Fresno
G-92286-A1	Other Agricultural	Diesel	2004	125	Tier 1	2011	130	Tier 3	500			10	Fresno
G-92287-A1	Other Agricultural	Diesel	2007	125	Tier 1	2011	130	Tier 3	500			10	Fresno
G-92316-A1	Agricultural Tractor	Diesel	2006	95	Tier 2	2020	123	Tier 4 Final	550			10	Tulare
G-92380-A1	Agricultural Tractor	Diesel	1990	335	Tier 0	2021	470	Tier 4 Final	700			10	Kern
G-92447-A1	Wheel Loader	Diesel	1990	135	Tier 0	2019	184	Tier 4 Final	1000			10	Tulare
G-92460-A1	Chopper	Diesel	2012	757	Tier 2	2019	818	Tier 4 Final	900			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-92493-A1	Almond Sweeper	Diesel	1997	80	Tier 0	2020	74	Tier 4 Final	300			10	Kern
G-92494-A1	Almond Sweeper	Diesel	2003	80	Tier 1	2020	74	Tier 4 Final	300			10	Kern
G-92721-A1	Agricultural Tractor	Diesel	1987	60	Tier 0	2020	99	Tier 4 Final	500			10	Kern
G-92724-A1	Agricultural Tractor	Diesel	1990	97	Tier 0	2020	130	Tier 4 Final	500			10	Kern
G-92734-A1	Agricultural Tractor	Diesel	1976	38	Tier 0	2017	35	Tier 4 Final	400			10	Tulare
G-92783-A1	Agricultural Tractor	Diesel	2002	27	Tier 1	2020	33	Tier 4 Final	987			10	Kern
G-92784-A1	Agricultural Tractor	Diesel	2002	31	Tier 1	2020	33	Tier 4 Final	1027			10	Kern
G-92785-A1	Agricultural Tractor	Diesel	2000	42	Tier 1	2020	33	Tier 4 Final	1564			10	Kern
G-92789-A1	Agricultural Tractor	Diesel	2003	90	Tier 1	2019	106	Tier 4 Phase In/Alt NOx	1345			10	Kern
G-92792-A1	Agricultural Tractor	Diesel	2003	90	Tier 1	2019	90	Tier 4 Final	956			10	Kern
G-92795-A1	Agricultural Tractor	Diesel	2001	114	Tier 1	2019	106	Tier 4 Phase In/Alt NOx	1034			10	Kern
G-92799-A1	Agricultural Tractor	Diesel	1998	39	Tier 0	2020	43	Tier 4 Final	1265			10	Kern
G-92823-A1	Agricultural Tractor	Diesel	1975	64	Tier 0	2020	73	Tier 4 Final	500			10	Tulare
G-92831-A1	Agricultural Tractor	Diesel	1999	42	Tier 1	2020	33	Tier 4 Final	1462			10	Kern
G-92961-A1	Agricultural Tractor	Diesel	2005	71	Tier 2	2017	84	Tier 4 Final	900			10	Tulare
G-92962-A1	Agricultural Tractor	Diesel	1976	216	Tier 0	2020	281	Tier 4 Final	900			10	Merced
G-93194-A1	Agricultural Tractor	Diesel	1981	29	Tier 0	2018	35	Tier 4 Final	500			10	Kern
G-93197-A1	Agricultural Tractor	Diesel	1977	37	Tier 0	2018	35	Tier 4 Final	500			10	Kern
G-93208-A1	Agricultural Tractor	Diesel	1981	29	Tier 0	2018	35	Tier 4 Final	500			10	Kern
G-93581-A1	Agricultural Tractor	Diesel	1999	310	Tier 1	2018	540	Tier 4 Final	600			10	Stanislaus
G-93694-A1	Agricultural Tractor	Diesel	1977	37	Tier 0	2018	35	Tier 4 Final	500			10	Kern
G-93695-A1	Agricultural Tractor	Diesel	1980	37	Tier 0	2019	35	Tier 4 Final	500			10	Kern
G-93696-A1	Agricultural Tractor	Diesel	1977	37	Tier 0	2019	35	Tier 4 Final	500			10	Kern
G-93697-A1	Agricultural Tractor	Diesel	1977	37	Tier 0	2018	35	Tier 4 Final	500			10	Kern
G-93707-A1	Agricultural Tractor	Diesel	1998	91	Tier 1	2018	108	Tier 4 Final	750			10	Tulare
G-93723-A1	Agricultural Tractor	Diesel	1979	29	Tier 0	2018	35	Tier 4 Final	500			10	Kern
G-93936-A1	Agricultural Tractor	Diesel	2004	99	Tier 2	2019	106	Tier 4 Phase In/Alt NOx	1200			10	Kern
G-93990-A1	Back Hoe	Diesel	1989	69	Tier 0	2020	102	Tier 4 Final	1000			10	Kern
G-94049-A1	Agricultural Tractor	Diesel	1992	103	Tier 0	2018	99	Tier 4 Final	300			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-94050-A1	Agricultural Tractor	Diesel	1991	234	Tier 0	2020	123	Tier 4 Final	300			10	Tulare
G-94053-A1	Agricultural Tractor	Diesel	2000	110	Tier 1	2018	125	Tier 4 Final	1200			10	Kern
G-94054-A1	Agricultural Tractor	Diesel	2001	110	Tier 1	2019	125	Tier 4 Final	1200			10	Kern
G-94057-A1	Agricultural Tractor	Diesel	1978	80	Tier 0	2018	90	Tier 4 Final	300			10	Tulare
G-94061-A1	Agricultural Tractor	Diesel	1994	115	Tier 0	2019	100	Tier 4 Final	300			10	Tulare
G-94063-A1	Agricultural Tractor	Diesel	2005	105	Tier 2	2019	100	Tier 4 Final	300			10	Tulare
G-94067-A1	Agricultural Tractor	Diesel	1989	43	Tier 0	2019	52	Tier 4 Final	300			10	Tulare
G-94078-A1	Agricultural Tractor	Diesel	1989	43	Tier 0	2020	52	Tier 4 Final	300			10	Tulare
G-94108-A1	Agricultural Tractor	Diesel	2007	110	Tier 2	2019	114	Tier 4 Final	700			10	Kern
G-94129-A1	Wheel Loader	Diesel	1980	102	Tier 0	2018	71	Tier 4 Final	500			10	Tulare
G-94299-A1	Agricultural Tractor	Diesel	1998	109	Tier 1	2020	125	Tier 4 Final	550			10	Kern
G-94300-A1	Agricultural Tractor	Diesel	1996	46	Tier 0	2020	125	Tier 4 Final	451			10	Kern
G-94301-A1	Agricultural Tractor	Diesel	1995	60	Tier 0	2020	125	Tier 4 Final	526			10	Kern
G-94303-A1	Agricultural Tractor	Diesel	2001	93	Tier 1	2020	125	Tier 4 Final	690			10	Kern
G-94304-A1	Agricultural Tractor	Diesel	2002	110	Tier 1	2020	125	Tier 4 Final	526			10	Kern
G-94305-A1	Agricultural Tractor	Diesel	1995	102	Tier 0	2020	125	Tier 4 Final	616			10	Kern
G-94307-A1	Agricultural Tractor	Diesel	1999	81	Tier 1	2020	125	Tier 4 Final	641			10	Kern
G-94308-A1	Agricultural Tractor	Diesel	2000	181	Tier 1	2020	236	Tier 4 Final	730			10	Kern
G-94319-A1	Agricultural Tractor	Diesel	2003	117	Tier 2	2020	139	Tier 4 Final	453			10	Kern
G-94325-A1	Agricultural Tractor	Diesel	2000	181	Tier 1	2020	236	Tier 4 Final	628			10	Kern
G-94326-A1	Agricultural Tractor	Diesel	1992	240	Tier 0	2020	236	Tier 4 Final	674			10	Kern
G-94335-A1	Agricultural Tractor	Diesel	1999	81	Tier 1	2020	125	Tier 4 Final	576			10	Kern
G-94336-A1	Agricultural Tractor	Diesel	1997	156	Tier 1	2020	162	Tier 4 Final	670			10	Kern
G-94337-A1	Agricultural Tractor	Diesel	1999	81	Tier 1	2020	125	Tier 4 Final	564			10	Kern
G-94338-A1	Agricultural Tractor	Diesel	1997	156	Tier 1	2020	162	Tier 4 Final	762			10	Kern
G-94339-A1	Agricultural Tractor	Diesel	1995	120	Tier 0	2020	162	Tier 4 Final	580			10	Kern
G-94341-A1	Agricultural Tractor	Diesel	1998	110	Tier 1	2020	162	Tier 4 Final	730			10	Kern
G-94343-A1	Agricultural Tractor	Diesel	2003	117	Tier 1	2020	162	Tier 4 Final	694			10	Kern
G-94344-A1	Agricultural Tractor	Diesel	2003	117	Tier 1	2020	236	Tier 4 Final	514			10	Kern

Project Type Off-Road

Description Vehicle Replacement

SJVAPCD Project Data 2021

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-94347-A1	Agricultural Tractor	Diesel	2006	145	Tier 2	2020	162	Tier 4 Final	705			10	Kern
G-94349-A1	Agricultural Tractor	Diesel	2006	145	Tier 2	2020	162	Tier 4 Final	654			10	Kern
G-94351-A1	Agricultural Tractor	Diesel	2001	118	Tier 1	2020	139	Tier 4 Final	607			10	Kern
G-94357-A1	Agricultural Tractor	Diesel	1993	120	Tier 0	2020	139	Tier 4 Final	370			10	Kern
G-94359-A1	Agricultural Tractor	Diesel	2004	135	Tier 2	2020	139	Tier 4 Final	628			10	Kern
G-94362-A1	Agricultural Tractor	Diesel	1997	118	Tier 1	2020	139	Tier 4 Final	679			10	Kern
G-94366-A1	Agricultural Tractor	Diesel	1995	120	Tier 0	2020	139	Tier 4 Final	537			10	Kern
G-94369-A1	Agricultural Tractor	Diesel	2004	135	Tier 2	2020	139	Tier 4 Final	633			10	Kern
G-94370-A1	Agricultural Tractor	Diesel	1998	81	Tier 1	2020	125	Tier 4 Final	554			10	Kern
G-94371-A1	Agricultural Tractor	Diesel	1998	81	Tier 1	2020	125	Tier 4 Final	612			10	Kern
G-94372-A1	Agricultural Tractor	Diesel	1998	81	Tier 1	2020	125	Tier 4 Final	646			10	Kern
G-94375-A1	Agricultural Tractor	Diesel	1995	110	Tier 0	2020	125	Tier 4 Final	751			10	Kern
G-94378-A1	Agricultural Tractor	Diesel	2004	75	Tier 2	2020	125	Tier 4 Final	579			10	Kern
G-94379-A1	Agricultural Tractor	Diesel	2004	75	Tier 2	2020	125	Tier 4 Final	646			10	Kern
G-94380-A1	Agricultural Tractor	Diesel	1996	102	Tier 0	2020	125	Tier 4 Final	643			10	Kern
G-94385-A1	Agricultural Tractor	Diesel	2004	93	Tier 2	2020	125	Tier 4 Final	735			10	Kern
G-94387-A1	Agricultural Tractor	Diesel	2004	75	Tier 2	2020	125	Tier 4 Final	633			10	Kern
G-94407-A1	Agricultural Tractor	Diesel	1995	110	Tier 0	2020	125	Tier 4 Final	439			10	Kern
G-94409-A1	Agricultural Tractor	Diesel	1995	110	Tier 0	2020	125	Tier 4 Final	442			10	Kern
G-94410-A1	Agricultural Tractor	Diesel	1991	95	Tier 0	2020	125	Tier 4 Final	535			10	Kern
G-94411-A1	Agricultural Tractor	Diesel	1995	60	Tier 0	2020	125	Tier 4 Final	514			10	Kern
G-94413-A1	Agricultural Tractor	Diesel	1995	60	Tier 0	2020	125	Tier 4 Final	400			10	Kern
G-94421-A1	Agricultural Tractor	Diesel	1989	81	Tier 0	2020	125	Tier 4 Final	393			10	Kern
G-94422-A1	Agricultural Tractor	Diesel	2001	108	Tier 1	2019	106	Tier 4 Phase In/Alt NOx	1200			10	Kern
G-94425-A1	Agricultural Tractor	Diesel	1994	56	Tier 0	2020	125	Tier 4 Final	571			10	Kern
G-94426-A1	Agricultural Tractor	Diesel	1983	97	Tier 0	2019	114	Tier 4 Final	1000			10	Fresno
G-94428-A1	Agricultural Tractor	Diesel	1959	32	Tier 0	2020	50	Tier 4 Final	300			10	Tulare
G-94449-A1	Agricultural Tractor	Diesel	1994	103	Tier 0	2020	123	Tier 4 Final	1000			10	Kings
G-94729-A1	Wheel Loader	Diesel	1990	110	Tier 0	2020	182	Tier 4 Final	2900			10	Kern

Project Type Off-Road

Description Vehicle Replacement

SJVAPCD Project Data 2021

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-94736-A1	Wheel Loader	Diesel	1993	98	Tier 0	2020	182	Tier 4 Final	2900			10	Kern
G-94777-A1	Nut Sweeper	Diesel	2003	80	Tier 1	2019	74	Tier 4 Final	450			10	Kings
G-94787-A1	Agricultural Tractor	Diesel	2005	99	Tier 2	2018	114	Tier 4 Final	500			10	Kern
G-94799-A1	Wheel Loader	Diesel	1969	100	Tier 0	2020	152	Tier 4 Final	1500			10	Tulare
G-94806-A2	Nut Sweeper	Diesel	2005	80	Tier 2	2019	74	Tier 4 Final	450			10	Kings
G-94832-A1	Agricultural Tractor	Diesel	1998	64	Tier 1	2020	114	Tier 4 Final	400			10	Tulare
G-95096-A1	Agricultural Tractor	Diesel	2001	115	Tier 1	2020	123	Tier 4 Final	400			10	Kern
G-95100-A1	Agricultural Tractor	Diesel	1995	115	Tier 0	2020	123	Tier 4 Final	400			10	Kern
G-95102-A1	Back Hoe	Diesel	1986	69	Tier 0	2020	72	Tier 4 Interim	500			10	Kern
G-95131-A1	Agricultural Tractor	Diesel	1999	110	Tier 1	2019	114	Tier 4 Final	400			10	Kern
G-95146-A1	Agricultural Tractor	Diesel	1981	31	Tier 0	2018	35	Tier 4 Final	500			10	Kern
G-95148-A1	Agricultural Tractor	Diesel	1980	31	Tier 0	2018	35	Tier 4 Final	500			10	Kern
G-95209-A1	Back Hoe	Diesel	1983	69	Tier 0	2020	74	Tier 4 Final	400			10	Kern
G-95211-A1	Back Hoe	Diesel	1985	60	Tier 0	2019	74	Tier 4 Final	300			10	Kern
G-95213-A1	Agricultural Tractor	Diesel	1995	84	Tier 0	2019	121	Tier 4 Final	300			10	Tulare
G-95215-A1	Back Hoe	Diesel	1985	82	Tier 0	2020	74	Tier 4 Final	300			10	Kern
G-95217-A1	Back Hoe	Diesel	1983	69	Tier 0	2020	74	Tier 4 Final	500			10	Kern
G-95218-A1	Back Hoe	Diesel	2004	78	Tier 1	2020	74	Tier 4 Final	500			10	Kern
G-95220-A1	Forklift	Diesel	1980	42	Tier 0	2019	74	Tier 4 Final	500			10	Kern
G-95222-A1	Forklift	Diesel	1980	42	Tier 0	2020	74	Tier 4 Final	500			10	Kern
G-95223-A1	Forklift	Diesel	1980	42	Tier 0	2020	74	Tier 4 Final	500			10	Kern
G-95224-A1	Motor Grader	Diesel	1978	145	Tier 0	2019	74	Tier 4 Final	400			10	Kern
G-95316-A1	Wheel Loader	Diesel	1980	80	Tier 0	2020	164	Tier 4 Final	1100			10	Kings
G-95358-A1	Agricultural Tractor	Diesel	2006	95	Tier 2	2019	115	Tier 4 Final	500			10	Kings
G-95362-A1	Agricultural Tractor	Diesel	2006	95	Tier 2	2019	115	Tier 4 Final	500			10	Kings
G-95363-A1	Agricultural Tractor	Diesel	2006	95	Tier 2	2019	115	Tier 4 Final	500			10	Kings
G-95364-A1	Agricultural Tractor	Diesel	2007	95	Tier 2	2019	115	Tier 4 Final	450			10	Kings
G-95430-A1	Other Agricultural Equi	Diesel	2004	110	Tier 2	2020	130	Tier 4 Final	600			10	Kern
G-95438-A1	Wheel Loader	Diesel	2003	160	Tier 2	2020	182	Tier 4 Final	1400			10	Tulare

Project Type Off-Road

Description Vehicle Replacement

SJVAPCD Project Data 2021

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-95490-A1	Agricultural Tractor	Diesel	2006	98	Tier 2	2020	121	Tier 4 Final	600			10	Tulare
G-95669-A1	Agricultural Tractor	Diesel	2005	91	Tier 2	2020	58	Tier 4 Final	400			10	Tulare
G-95672-A1	Agricultural Tractor	Diesel	1974	54	Tier 0	2019	50	Tier 4 Final	300			10	Kern
G-95673-A1	Agricultural Tractor	Diesel	2001	88	Tier 1	2019	100	Tier 4 Final	350			10	Kern
G-95720-A1	Agricultural Tractor	Diesel	2008	109	Tier 2	2020	114	Tier 4 Final	400			10	Tulare
G-95760-A1	Back Hoe	Diesel	1985	63	Tier 0	2020	100	Tier 4 Final	500			10	Tulare
G-95852-A1	Agricultural Tractor	Diesel	1998	92	Tier 1	2019	108	Tier 4 Final	450			10	Tulare
G-95854-A1	Agricultural Tractor	Diesel	2000	105	Tier 1	2017	73	Tier 4 Final	1200			10	Kern
G-95868-A1	Agricultural Tractor	Diesel	1958	225	Tier 0	2020	123	Tier 4 Final	1000			10	Kern
G-95870-A1	Almond Shaker	Diesel	1997	105	Tier 0	2020	139	Tier 4 Final	750			10	Kern
G-95871-A1	Agricultural Tractor	Diesel	1985	60	Tier 0	2020	73	Tier 4 Final	600			10	Kern
G-95872-A1	Agricultural Tractor	Diesel	1979	60	Tier 0	2019	56	Tier 4 Final	600			10	Kern
G-95873-A1	Agricultural Tractor	Diesel	1991	60	Tier 0	2020	73	Tier 4 Final	600			10	Kern
G-95874-A1	Agricultural Tractor	Diesel	1991	60	Tier 0	2020	73	Tier 4 Final	600			10	Kern
G-95875-A1	Agricultural Tractor	Diesel	2008	50	Tier 2	2019	56	Tier 4 Final	600			10	Kern
G-95876-A1	Agricultural Tractor	Diesel	2008	50	Tier 2	2019	56	Tier 4 Final	600			10	Kern
G-95888-A1	Agricultural Tractor	Diesel	2006	35	Tier 2	2019	56	Tier 4 Final	600			10	Kern
G-95890-A1	Agricultural Tractor	Diesel	2006	35	Tier 2	2019	56	Tier 4 Final	600			10	Kern
G-95892-A1	Agricultural Tractor	Diesel	2006	35	Tier 2	2019	56	Tier 4 Final	600			10	Kern
G-95895-A1	Agricultural Tractor	Diesel	2006	35	Tier 2	2019	56	Tier 4 Final	600			10	Kern
G-95896-A1	Agricultural Tractor	Diesel	2005	35	Tier 2	2019	56	Tier 4 Final	600			10	Kern
G-95899-A1	Agricultural Tractor	Diesel	2006	35	Tier 2	2019	56	Tier 4 Final	600			10	Kern
G-95901-A1	Agricultural Tractor	Diesel	2006	35	Tier 2	2019	56	Tier 4 Final	600			10	Kern
G-95910-A1	Sweeper	Diesel	2005	80	Tier 2	2019	74	Tier 4 Final	500			10	Fresno
G-95911-A1	Sweeper	Diesel	2005	80	Tier 1	2019	74	Tier 4 Final	500			10	Fresno
G-95912-A1	Sweeper	Diesel	2004	80	Tier 2	2019	74	Tier 4 Final	500			10	Fresno
G-95913-A1	Sweeper	Diesel	2003	80	Tier 1	2019	74	Tier 4 Final	500			10	Fresno
G-95914-A1	Sweeper	Diesel	2002	80	Tier 1	2019	74	Tier 4 Final	500			10	Fresno
G-95932-A1	Forklift	Diesel	2003	35	Tier 1	2018	39	Tier 4 Final	500			10	Tulare

Project Type Off-Road

Description Vehicle Replacement

SJVAPCD Project Data 2021

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-95940-A1	Agricultural Tractor	Diesel	1972	42	Tier 0	2020	52	Tier 4 Final	200			10	San Joaquin
G-95957-A1	Chopper	Diesel	2012	764	Tier 2	2020	912	Tier 4 Final	1200			10	Kings
G-95958-A1	Chopper	Diesel	2011	764	Tier 2	2020	912	Tier 4 Final	1200			10	Kings
G-95959-A1	Sweeper	Diesel	1994	70	Tier 0	2020	74	Tier 4 Final	1500			10	Kern
G-96051-A1	Back Hoe	Diesel	1976	50	Tier 0	2020	74	Tier 4 Final	500			10	Kern
G-96052-A1	Agricultural Backhoe	Diesel	1978	62	Tier 0	2019	74	Tier 4 Final	500			10	Kern
G-96056-A1	Agricultural Backhoe	Diesel	1987	69	Tier 0	2019	74	Tier 4 Final	500			10	Kern
G-96060-A1	Back Hoe	Diesel	2006	93	Tier 2	2019	74	Tier 4 Final	800			10	Kern
G-96122-A1	Agricultural Tractor	Diesel	1998	100	Tier 1	2020	115	Tier 4 Final	1000			10	Fresno
G-96151-A1	Agricultural Tractor	Diesel	1996	114	Tier 0	2019	106	Tier 4 Phase In/Alt NOx	2200			10	Tulare
G-96153-A1	Agricultural Tractor	Diesel	1977	86	Tier 0	2019	106	Tier 4 Phase In/Alt NOx	2200			10	Tulare
G-96155-A1	Wheel Loader	Diesel	1998	75	Tier 0	2019	74	Tier 4 Final	2500			10	Kern
G-96220-A1	Wheel Loader	Diesel	1999	142	Tier 1	2020	166	Tier 4 Final	500			10	Fresno
G-96286-A1	Almond Shaker	Diesel	1993	120	Tier 0	2020	148	Tier 4 Final	350			10	San Joaquin
G-96349-A1	Agricultural Tractor	Diesel	1985	52	Tier 0	2018	74	Tier 4 Final	200			10	San Joaquin
G-96394-A1	Agricultural Tractor	Diesel	1995	134	Tier 0	2020	188	Tier 4 Final	800			10	Tulare
G-96404-A1	Agricultural Tractor	Diesel	1981	132	Tier 0	2020	123	Tier 4 Final	400			10	Kern
G-96413-A1	Forklift	Diesel	1991	58	Tier 0	2020	74	Tier 4 Final	200			10	Kern
G-96415-A1	Forklift	Diesel	1982	57	Tier 0	2020	74	Tier 4 Final	200			10	Kern
G-96508-A1	Agricultural Tractor	Diesel	1996	102	Tier 0	2019	114	Tier 4 Final	400			10	Kern
G-96514-A1	Forklift	Diesel	1988	65	Tier 0	2019	74	Tier 4 Final	350			10	Kern
G-96516-A1	Agricultural Tractor	Diesel	2000	105	Tier 1	2019	106	Tier 4 Phase In/Alt NOx	1200			10	Kern
G-96517-A1	Agricultural Tractor	Diesel	1999	64	Tier 1	2019	64	Tier 4 Final	1200			10	Kern
G-96518-A1	Wheel Loader	Diesel	1987	52	Tier 0	2020	74	Tier 4 Final	1000			10	Kern
G-96521-A1	Back Hoe	Diesel	1976	50	Tier 0	2020	96	Tier 4 Final	200			10	Tulare
G-96522-A1	Back Hoe	Diesel	2005	95	Tier 2	2020	100	Tier 4 Final	1000			10	Tulare
G-96594-A1	Agricultural Tractor	Diesel	2005	39	Tier 2	2019	51	Tier 4 Final	150			10	Kern
G-96612-A1	Almond Shaker	Diesel	1997	120	Tier 0	2020	148	Tier 4 Final	230			10	Kern
G-96613-A1	Agricultural Tractor	Diesel	1992	350	Tier 0	2020	114	Tier 4 Final	400			10	Kern

Project Type Off-Road

Description Vehicle Replacement

SJVAPCD Project Data 2021

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-96621-A1	Agricultural Tractor	Diesel	1969	114	Tier 0	2019	106	Tier 4 Phase In/Alt NOx	500			10	Kern
G-96633-A1	Agricultural Tractor	Diesel	1999	114	Tier 1	2019	106	Tier 4 Final	600			10	Kern
G-96634-A1	Agricultural Tractor	Diesel	2001	114	Tier 1	2019	106	Tier 4 Phase In/Alt NOx	600			10	Kern
G-96635-A1	Agricultural Tractor	Diesel	1999	114	Tier 1	2019	106	Tier 4 Phase In/Alt NOx	600			10	Kern
G-96636-A1	Agricultural Tractor	Diesel	2004	90	Tier 2	2019	106	Tier 4 Phase In/Alt NOx	600			10	Kern
G-96735-A1	Agricultural Tractor	Diesel	1978	60	Tier 0	2020	65	Tier 4 Final	100			10	Tulare
G-96763-A1	Sweeper	Diesel	1980	86	Tier 0	2019	74	Tier 4 Final	500			10	Tulare
G-96778-A1	Skid Loader	Diesel	2003	82	Tier 1	2019	74	Tier 4 Final	400			10	Kern
G-96779-A1	Agricultural Tractor	Diesel	2006	115	Tier 2	2014	111	Tier 4 Phase In/Alt NOx	500			10	Kern
G-96830-A1	Back Hoe	Diesel	2005	95	Tier 2	2018	96	Tier 4 Final	400			10	Kern
G-96831-A1	Agricultural Tractor	Diesel	1975	151	Tier 0	2018	106	Tier 4 Phase In/Alt NOx	600			10	Kern
G-96833-A1	Agricultural Tractor	Diesel	1992	105	Tier 0	2018	106	Tier 4 Phase In/Alt NOx	600			10	Kern
G-96974-A1	Wheel Loader	Diesel	1990	144	Tier 0	2020	166	Tier 4 Final	3500			10	Fresno
G-97040-A1	Wheel Loader	Diesel	1990	110	Tier 0	2018	173	Tier 4 Final	650			10	Kern
G-97138-A1	Agricultural Tractor	Diesel	1966	25	Tier 0	2020	33	Tier 4 Final	600			10	Kern
G-97140-A1	Agricultural Tractor	Diesel	1991	25	Tier 0	2020	33	Tier 4 Final	600			10	Kern
G-97141-A1	Agricultural Tractor	Diesel	1991	25	Tier 0	2020	33	Tier 4 Final	600			10	Kern
G-97142-A1	Agricultural Tractor	Diesel	1996	25	Tier 0	2020	33	Tier 4 Final	600			10	Kern
G-97152-A1	Agricultural Tractor	Diesel	1993	25	Tier 0	2020	33	Tier 4 Final	600			10	Kern
G-97154-A1	Agricultural Tractor	Diesel	1993	25	Tier 0	2020	33	Tier 4 Final	600			10	Kern
G-97155-A1	Agricultural Tractor	Diesel	1993	25	Tier 0	2020	33	Tier 4 Final	600			10	Kern
G-97156-A1	Agricultural Tractor	Diesel	1993	25	Tier 0	2020	33	Tier 4 Final	600			10	Kern
G-97157-A1	Agricultural Tractor	Diesel	1993	25	Tier 0	2020	33	Tier 4 Final	600			10	Kern
G-97784-A1	Chopper	Diesel	2002	525	Tier 2	2018	617	Tier 4 Final	800			10	Tulare
G-99252-A1	Agricultural Tractor	Diesel	1979	261	Tier 0	2019	173	Tier 4 Final	150			10	Fresno

Project Type Off-Road

Description Engine Repower

SJVAPCD Project Data 2021

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-39126-10-A1	Scraper	Diesel	1976	490	Tier 2	2010	475	Tier 3	2200			3	Fresno
C-40344-2-A1	Crawler Dozer	Diesel	1984	700	Tier 0	2010	740	Tier 3	1500			10	Madera
C-62103-1-A1	Ripper	Diesel	1986	770	Tier 0	2010	932	Tier 2	2000			7	Stanislaus
C-63229-1-A1	Scraper	Diesel	1977	360	Tier 2	2018	355	Tier 4 Final	1900			3	Kern
C-63233-1-A1	Scraper	Diesel	1980	360	Tier 2	2018	355	Tier 4 Final	2000			4	Kern
C-64891-1-A1	Wheel Loader	Diesel	1991	170	Tier 0	2020	174	Tier 4 Final	1200			3	Kern
C-64895-1-A1	Wheel Loader	Diesel	1995	180	Tier 0	2020	174	Tier 4 Final	1200			3	Kern
C-64896-1-A1	Wheel Loader	Diesel	1985	157	Tier 0	2020	174	Tier 4 Final	1200			3	Kern
C-64899-1-A1	Wheel Loader	Diesel	1989	160	Tier 0	2020	174	Tier 4 Final	1200			3	Kern
C-64901-1-A1	Wheel Loader	Diesel	1991	180	Tier 0	2020	174	Tier 4 Final	1200			3	Kern
C-64902-1-A1	Wheel Loader	Diesel	1993	180	Tier 0	2020	174	Tier 4 Final	1200			3	Kern
C-64940-1-A1	Wheel Loader	Diesel	1991	170	Tier 0	2020	174	Tier 4 Final	1200			3	Kern
G-65603-A1	Excavator	Diesel	1997	285	Tier 1	2017	382	Tier 4 Final	1300			5	Tulare
G-72611-A1	Grape Harvester	Diesel	1977	99	Tier 2	2011	84	Tier 3	400			10	Madera
G-77913-A1	Dozer	Diesel	1980	700	Tier 0	2010	693	Tier 3	750			10	Fresno

Project Type Ag Engine

Description Diesel to Diesel

SJVAPCD Project Data 2021

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-58718-1-A1	Irrigation Pump	Diesel	2010	225	Tier 3	2019	225	Tier 4 Final	2500			7	Fresno
C-58721-1-A1	Irrigation Pump	Diesel	2010	173	Tier 3	2019	174	Tier 4 Final	2500			7	Fresno
C-58723-1-A1	Irrigation Pump	Diesel	2010	225	Tier 3	2019	225	Tier 4 Final	2500			7	Fresno
C-58936-1-A1	Irrigation Pump	Diesel	2008	225	Tier 3	2019	225	Tier 4 Final	2500			7	Fresno
C-58998-1-A1	Irrigation Pump	Diesel	2008	173	Tier 3	2019	174	Tier 4 Final	2500			7	Fresno

Project Type Ag Engine

Description Diesel to Electric

SJVAPCD Project Data 2021

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-63277-1-A1	Irrigation Pump	Diesel	2007	190	Tier 3	2018	125		508			10	Fresno

Project Type Yard Truck

Description Replacement

SJVAPCD Project Data 2021

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-83895-A1	Agricultural	Diesel	2003	173	Tier 2	2020			250		43422	5	San Joaquin
G-83896-A1	General On-Road Heavy	Diesel	2003	173	Tier 2	2020			266		43422	5	San Joaquin
G-83897-A1	Agricultural	Diesel	1997	174	Tier 1	2020					43422	5	Stanislaus
G-83898-A1	Agricultural	Diesel	1998	160	Tier 1	2020			1641		43422	5	Fresno
G-83900-A1	General On-Road Heavy	Diesel	1998	160	Tier 1	2020			1641		43422	5	Fresno
G-83980-A1	General On-Road Heavy	Diesel	2003	152	Tier 0	2020					43422	5	Stanislaus
G-83981-A1	Agricultural	Diesel	2002		Tier 2	2019					43422	5	Stanislaus
G-85033-A1	Agricultural	Diesel	1999	170	Tier 1	2020					43422	5	Stanislaus
G-85034-A1	Agricultural	Diesel	2001	215	Tier 1	2020					43422	5	Stanislaus
G-85035-A1	Agricultural	Diesel	2005	200		2020				14962		5	Stanislaus
G-85036-A1	Agricultural	Diesel	2006	200		2020				14962		5	Stanislaus
G-86637-A1	Agricultural	Diesel	2001	155	Tier 1	2020					43422	5	Kern
G-91328-A1	Agricultural	Diesel	2000	225		2020				14962	1463	5	Madera
G-91331-A1	Agricultural	Diesel	2002	200		2020					1463	5	Madera
G-91332-A1	Agricultural	Diesel	2000	148	Tier 1	2020			1641		43422	5	Madera

Project Type On-Road Prop 1B

SJVAPCD Project Data 2021

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)
C-56405-1A	Long Haul Trucking	Diesel	2000	430		2019	400			45982		5	Kern

Project Type Prop 1B

SJVAPCD Project Data 2021

Description Locomotive 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)
C-56774-1-A1	Line Haul	Diesel	2005	4400	Tier 2	2020	4400	Tier 4 Final			173785	15	Fresno

Project Type On-Road

Description Ag Truck Replacement

SJVAPCD Project Data 2021

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-69113-A1	Agricultural	Diesel	2008	410		2018	425			17677		3	Stanislaus
G-69978-A1	Agricultural	Diesel	1994	190		2019	200			3369		3	Kings
G-69979-A1	Agricultural	Diesel	1994	210		2019	200			729		3	Kings
G-69980-A1	Agricultural	Diesel	1994	210		2019	200			153		3	Kings
G-69982-A1	Agricultural	Diesel	1997	190		2019	200			729		3	Kings
G-69998-A1	Agricultural	Diesel	1997	190		2019	200			2971		3	Kings
G-69999-A1	Agricultural	Diesel	1994	190		2019	200			2069		3	Kings
G-70161-A1	Other	Diesel	1990	350		2011	300			1000		3	Tulare
G-71112-A1	Agricultural	Diesel	1999	435		2019	350			34752		3	Merced
G-71244-A1	Agricultural	Diesel	2003	431		2019	405			10000		3	Merced
G-71247-A1	Agricultural	Diesel	1984	400		2019	405			10000		3	Merced
G-71250-A1	Agricultural	Diesel	1988	425		2020	405			10000		3	Merced
G-71259-A1	Agricultural	Diesel	1989	350		2020	405			10000		3	Merced
G-71268-A1	Agricultural	Diesel	1996	370		2019	405			10000		3	Merced
G-71284-A1	Agricultural	Diesel	2002	250		2019	330			10000		3	Fresno
G-71298-A1	Agricultural	Diesel	2003	410		2015	350			10000		3	Stanislaus
G-71305-A1	Agricultural	Diesel	1993	350		2014	300			10000		3	Stanislaus
G-71310-A1	Agricultural	Diesel	1989	444		2020	525			7		3	Merced
G-71323-A1	Agricultural	Diesel	1997	280		2013	350			10000		3	Stanislaus
G-71341-A1	Agricultural	Diesel	1992	195		2019	240			85		3	San Joaquin
G-71346-A1	Agricultural	Diesel	1995	315		2019	350			1137		3	San Joaquin
G-71367-A1	Agricultural	Diesel	1991	210		2018	485			2200		3	Kern
G-71379-A1	Agricultural	Diesel	1981	210		2019	485			38		3	Kern
G-71382-A1	Agricultural	Diesel	1995	275		2019	485			2517		3	Kern
G-71390-A1	Agricultural Air S	Diesel	1994	250		2019	485			5333		3	Kings
G-71395-A1	Agricultural	Diesel	1994	250		2019	485			10988		3	Kings
G-71417-A1	Agricultural	Diesel	2006	300		2020	375			10000		3	Stanislaus
G-71419-A1	Agricultural	Diesel	2006	300		2020	375			7761		3	Stanislaus
G-71422-A1	Agricultural	Diesel	2006	300		2020	375			10000		3	Stanislaus
G-71423-A1	Agricultural	Diesel	2006	300		2020	375			10000		3	Stanislaus
G-71427-A1	Agricultural	Diesel	2006	300		2020	375			10000		3	Stanislaus
G-71436-A1	Agricultural	Diesel	2006	330		2020	375			10000		3	Stanislaus

Project Type On-Road

Description Ag Truck Replacement

SJVAPCD Project Data 2021

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-71438-A1	Agricultural	Diesel	2006	300		2020	375			10012		3	Stanislaus
G-71440-A1	Agricultural	Diesel	1992	330		2013	300			10000		3	Stanislaus
G-71672-A1	Agricultural	Diesel	2008	350		2014	350			1829		3	Stanislaus
G-71673-A1	Agricultural	Diesel	1997	280		2013	350			10000		3	Stanislaus
G-71675-A1	Agricultural	Diesel	1993	330		2013	350			8805		3	Stanislaus
G-71682-A1	Agricultural	Diesel	1995	350		2014	350			10000		3	Stanislaus
G-71684-A1	Agricultural	Diesel	1995	350		2014	350			10000		3	Stanislaus
G-71709-A1	Agricultural	Diesel	1988	425		2020	525			4739		3	Stanislaus
G-71710-A1	Agricultural	Diesel	1999	430		2020	455			10000		3	Stanislaus
G-71711-A1	Agricultural	Diesel	1996	370		2020	455			10000		3	Stanislaus
G-71732-A1	Agricultural	Diesel	1992	275		2013	220			120		3	San Joaquin
G-71733-A1	Agricultural	Diesel	1990	185		2013	250			434		3	San Joaquin
G-72041-A1	Agricultural	Diesel	1997	330		2020	405			10000		3	Merced
G-72044-A1	Agricultural	Diesel	1998	370		2020	430			10000		3	Merced
G-72046-A1	Agricultural	Diesel	1998	455		2020	430			10000		3	Merced
G-72047-A1	Agricultural	Diesel	1997	370		2020	430			10000		3	Merced
G-72066-A1	Agricultural	Diesel	1997	370		2020	430			10000		3	Merced
G-72069-A1	Agricultural	Diesel	1997	370		2020	430			10000		3	Merced
G-72072-A1	Agricultural	Diesel	1996	370		2020	430			10000		3	Merced
G-72074-A1	Agricultural	Diesel	1996	370		2020	430			10000		3	Merced
G-72076-A1	Agricultural	Diesel	1995	350		2020	430			10000		3	Merced
G-72077-A1	Agricultural	Diesel	1996	350		2020	430			10000		3	Merced
G-72078-A1	Agricultural	Diesel	1998	430		2020	430			10000		3	Merced
G-72080-A1	Agricultural	Diesel	1997	370		2020	430			10000		3	Merced
G-72081-A1	Agricultural	Diesel	1998	370		2020	430			10000		3	Merced
G-72083-A1	Agricultural	Diesel	1998	455		2020	430			10000		3	Merced
G-72085-A1	Agricultural	Diesel	1997	370		2020	430			10000		3	Merced
G-72090-A1	Agricultural	Diesel	1998	370		2020	450			10000		3	Merced
G-72093-A1	Agricultural	Diesel	1996	370		2020	450			10000		3	Merced
G-72103-A1	Agricultural	Diesel	2001	410		2019	330			10000		3	San Joaquin
G-72104-A1	Agricultural	Diesel	1994	280		2019	330			10000		3	San Joaquin

Project Type On-Road

Description Ag Truck Replacement

SJVAPCD Project Data 2021

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-72105-A1	Agricultural	Diesel	1994	280		2019	330			10000		3	San Joaquin
G-72106-A1	Agricultural	Diesel	1997	250		2020	300			10000		3	San Joaquin
G-72108-A1	Agricultural	Diesel	1992	330		2020	330			10000		3	San Joaquin
G-72111-A1	Agricultural	Diesel	2005	385		2020	450			10000		3	San Joaquin
G-72112-A1	Agricultural	Diesel	1993	350		2019	330			10000		3	San Joaquin
G-72114-A1	Agricultural	Diesel	2000	370		2015	350			10500		3	Stanislaus
G-72115-A1	Agricultural	Diesel	2000	370		2015	350			9419		3	Stanislaus
G-72399-A1	Agricultural	Diesel	2000	435		2019	450			10000		3	Kings
G-72910-A1	Agricultural	Diesel	2000	450		2020	450			7825		3	Kings

Project Type Off-Road

Description Ag UTV Replacement

SJVAPCD Project Data 2021

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-68886-A1	Ag UTV	Gas	2007	27	Control Technology	2020	30		400			5	Fresno
G-68946-A1	Ag UTV	Gas	2005	20	Control Technology	2020	30		400			5	Fresno
G-68989-A1	Ag UTV	Gas	2008	27	Control Technology	2020	30		700			5	Fresno
G-68991-A1	Ag UTV	Gas	2012	17	Control Technology	2020	30		700			5	Fresno
G-68997-A1	Ag UTV	Gas	2013	14	Control Technology	2020	30		400			5	Fresno
G-69001-A1	Ag UTV	Gas	2007	27	Control Technology	2020	30		700			5	Fresno
G-69108-A1	Ag UTV	Gas	2003	14	Uncontrolled Technology	2020	5		700			5	Fresno
G-69109-A1	Ag UTV	Gas	2007	14	Control Technology	2020	5		700			5	Fresno
G-69126-A1	Ag UTV	Gas	2004	14	Control Technology	2020	30		700			5	Fresno
G-69132-A1	Ag UTV	Gas	2006	14	Control Technology	2020	5		700			5	Fresno
G-72886-A1	Ag UTV	Gas	1986	16	Uncontrolled Technology	2020	30		350			5	Fresno
G-72998-A1	Ag UTV	Gas	2004	16	Control Technology	2020	30		350			5	Fresno
G-73117-A1	Ag UTV	Gas	1998	9	Uncontrolled Technology	2019	22		400			5	Merced
G-73419-A1	Ag UTV	Gas	2007	12	Control Technology	2019	6		400			5	Fresno
G-73422-A1	Ag UTV	Gas	1989	20	Uncontrolled Technology	2019	6		400			5	Fresno
G-73423-A1	Ag UTV	Gas	1999	14	Uncontrolled Technology	2019	6		400			5	Fresno
G-73428-A1	Ag UTV	Gas	1999	14	Uncontrolled Technology	2019	6		400			5	Fresno
G-74219-A1	Ag UTV	Gas	2006	23	Control Technology	2019	6		352			5	Fresno
G-74491-A1	Ag UTV	Gas	2012	7	Control Technology	2019	6		200			5	Kings
G-74508-A1	Ag UTV	Gas	2004	11	Control Technology	2019	22		325			5	Kern
G-74714-A1	Ag UTV	Gas	2009	17	Control Technology	2020	30		1000			5	Kern
G-74857-A1	Ag UTV	Gas	1985	9	Uncontrolled Technology	2019	9		100			5	San Joaquin
G-75825-A1	Ag UTV	Gas	2004	10	Control Technology	2020	22		350			5	Kern
G-76190-A1	Ag UTV	Gas	1999	30	Uncontrolled Technology	2020	36		2000			5	Tulare
G-76671-A1	Ag UTV	Gas	2003	17	Uncontrolled Technology	2021	35		1100			5	Tulare
G-76701-A1	Ag UTV	Gas	1999	15	Uncontrolled Technology	2019	6		150			5	Madera
G-77075-A1	Ag UTV	Gas	2006	33	Control Technology	2020	30		300			5	Fresno
G-77186-A1	Ag UTV	Gas	2000	26	Uncontrolled Technology	2020	36		800			5	Merced
G-77386-A1	Ag UTV	Gas	2007	16	Control Technology	2021	35		1440			5	Tulare
G-77676-A1	Ag UTV	Gas	2007	15	Control Technology	2020	36		1000			5	Kern
G-77689-A1	Ag UTV	Gas	2012	15	Control Technology	2020	38		1000			5	Fresno
G-77691-A1	Ag UTV	Gas	2014	15	Control Technology	2020	22		1000			5	Fresno
G-77695-A1	Ag UTV	Gas	2013	15	Control Technology	2019	6		1000			5	Fresno

Project Type Off-Road

Description Ag UTV Replacement

SJVAPCD Project Data 2021

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-77715-A1	Ag UTV	Gas	2002	20	Uncontrolled Technology	2019	30		50			5	Kern
G-77947-A1	Ag UTV	Gas	1999	14	Uncontrolled Technology	2019	6		200			5	Madera
G-78374-A1	Ag UTV	Gas	2012	19	Control Technology	2020	7		650			5	Tulare
G-78375-A1	Ag UTV	Gas	2004	15	Uncontrolled Technology	2020	30		750			5	Kern
G-78401-A1	Ag UTV	Gas	2017	20	Uncontrolled Technology	2020	30		300			5	Fresno
G-78428-A1	Ag UTV	Gas	1985	14	Uncontrolled Technology	2020	30		500			5	Fresno
G-78878-A1	Ag UTV	Gas	2012	9	Control Technology	2020	30		800			5	Merced
G-78883-A1	Ag UTV	Gas	2008	13	Control Technology	2021	30		250			5	Merced
G-78900-A1	Ag UTV	Gas	2007	9	Control Technology	2021	30		500			5	Merced
G-79024-A1	Ag UTV	Gas	1999	12	Uncontrolled Technology	2019	22		300			5	Stanislaus
G-79034-A1	Ag UTV	Gas	2002	17	Uncontrolled Technology	2021	6		300			5	Fresno
G-79117-A2	Ag UTV	Gas	2018	9	Uncontrolled Technology	2020	6		65			5	Tulare
G-79173-A1	Ag UTV	Gas	1986	23	Uncontrolled Technology	2019	6		400			5	Fresno
G-79500-A1	Ag UTV	Gas	1996	13	Uncontrolled Technology	2020	36		300			5	Merced
G-79501-A1	Ag UTV	Gas	2004	15	Control Technology	2020	36		300			5	Merced
G-79502-A1	Ag UTV	Gas	1995	10	Uncontrolled Technology	2020	36		300			5	Merced
G-79525-A1	Ag UTV	Gas	1997	20	Uncontrolled Technology	2020	12		490			5	Merced
G-79610-A1	Ag UTV	Gas	1991	20	Uncontrolled Technology	2020	30		250			5	Fresno
G-79617-A1	Ag UTV	Gas	1982	20	Uncontrolled Technology	2021	72		200			5	San Joaquin
G-79640-A1	Ag UTV	Gas	1995	33	Uncontrolled Technology	2021	30		500			5	San Joaquin
G-79861-A1	Ag UTV	Gas	2001	32	Uncontrolled Technology	2020	23		1000			5	Kern
G-79906-A1	Ag UTV	Gas	2007	46	Control Technology	2021	6		100			5	Merced
G-79907-A1	Ag UTV	Gas	2007	46	Control Technology	2021	6		100			5	Merced
G-79928-A1	Ag UTV	Gas	2001	15	Uncontrolled Technology	2021	30		100			5	Merced
G-79978-A1	Ag UTV	Gas	1988	20	Uncontrolled Technology	2021	30		400			5	Madera
G-79980-A1	Ag UTV	Gas	2003	22	Uncontrolled Technology	2021	6		400			5	Tulare
G-79988-A1	Ag UTV	Gas	1991	9	Uncontrolled Technology	2020	38		250			5	Stanislaus
G-80013-A1	Ag UTV	Gas	1981	16	Uncontrolled Technology	2019	6		500			5	Madera
G-80023-A1	Ag UTV	Gas	2006	10	Control Technology	2020	6		100			5	Tulare
G-80025-A1	Ag UTV	Gas	1988	20	Uncontrolled Technology	2021	30		33			5	Fresno
G-80031-A1	Ag UTV	Gas	2013	27	Control Technology	2020	22		1040			5	Stanislaus
G-80037-A1	Ag UTV	Gas	2001	10	Uncontrolled Technology	2021	30		100			5	Fresno
G-80045-A1	Ag UTV	Gas	1986	17	Uncontrolled Technology	2019	6		250			5	Fresno

Project Type Off-Road

Description Ag UTV Replacement

SJVAPCD Project Data 2021

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-80048-A1	Ag UTV	Gas	1988	19	Uncontrolled Technology	2019	6		500			5	Fresno
G-80049-A1	Ag UTV	Gas	2005	41	Control Technology	2019	6		500			5	Madera
G-80090-A1	Ag UTV	Gas	1997	19	Uncontrolled Technology	2021	12		350			5	Stanislaus
G-80093-A1	Ag UTV	Gas	1997	12	Uncontrolled Technology	2020	22		400			5	Merced
G-80095-A1	Ag UTV	Gas	2013	27	Control Technology	2019	22		200			5	Stanislaus
G-80115-A1	Ag UTV	Gas	2006	15	Control Technology	2019	7		650			5	Kern
G-80144-A1	Ag UTV	Gas	2001	16	Uncontrolled Technology	2020	23		300			5	Stanislaus
G-80160-A1	Ag UTV	Gas	2007	20	Control Technology	2020	30		900			5	Kern
G-80164-A1	Ag UTV	Gas	1984	16	Uncontrolled Technology	2021	30		200			5	San Joaquin
G-80165-A1	Ag UTV	Gas	2007	27	Control Technology	2021	30		700			5	San Joaquin
G-80167-A1	Ag UTV	Gas	2006	16	Control Technology	2020	6		200			5	Fresno
G-80170-A1	Ag UTV	Gas	2011	20	Control Technology	2019	30		1000			5	Fresno
G-80171-A1	Ag UTV	Gas	2010	20	Control Technology	2021	30		1000			5	Fresno
G-80172-A1	Ag UTV	Gas	2005	21	Control Technology	2021	30		1000			5	Fresno
G-80187-A1	Ag UTV	Gas	1985	7	Uncontrolled Technology	2019	6		500			5	Fresno
G-80202-A1	Ag UTV	Gas	1974	6	Uncontrolled Technology	2021	6		250			5	Fresno
G-80204-A1	Ag UTV	Gas	2010	45	Control Technology	2021	6		400			5	Merced
G-80342-A1	Ag UTV	Gas	1989	41	Uncontrolled Technology	2021	6		950			5	Fresno
G-80378-A1	Ag UTV	Gas	2001	22	Uncontrolled Technology	2021	6		600			5	San Joaquin
G-80387-A1	Ag UTV	Gas	2004	15	Control Technology	2019	6		350			5	Fresno
G-80413-A1	Ag UTV	Gas	1981	13	Uncontrolled Technology	2021	6		200			5	Fresno
G-80414-A1	Ag UTV	Gas	2004	17	Control Technology	2019	6		500			5	Madera
G-80475-A1	Ag UTV	Gas	1993	19	Uncontrolled Technology	2019	6		500			5	Madera
G-80480-A1	Ag UTV	Gas	2002	22	Uncontrolled Technology	2021	35		300			5	Fresno
G-80513-A1	Ag UTV	Gas	1995	27	Uncontrolled Technology	2020	36		500			5	Stanislaus
G-80517-A1	Ag UTV	Gas	1998	14	Uncontrolled Technology	2021	30		100			5	Fresno
G-80522-A1	Ag UTV	Gas	2003	17	Uncontrolled Technology	2019	4		500			5	San Joaquin
G-80608-A1	Ag UTV	Gas	2007	31	Control Technology	2020	6		75			5	Tulare
G-80668-A1	Ag UTV	Gas	2008	26	Control Technology	2019	6		500			5	Kern
G-80669-A1	Ag UTV	Gas	2012	15	Control Technology	2019	6		500			5	Kern
G-80687-A1	Ag UTV	Gas	1980	8	Uncontrolled Technology	2020	30		500			5	Stanislaus
G-80722-A1	Ag UTV	Gas	1985	15	Uncontrolled Technology	2021	30		210			5	Madera
G-80723-A1	Ag UTV	Gas	2012	17	Control Technology	2021	35		230			5	Madera

Project Type Off-Road

Description Ag UTV Replacement

SJVAPCD Project Data 2021

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-80726-A1	Ag UTV	Gas	2006	30	Control Technology	2021	35		215			5	Madera
G-80734-A1	Ag UTV	Gas	2005	10	Control Technology	2021	30		1060			5	San Joaquin
G-80744-A1	Ag UTV	Gas	2011	7	Control Technology	2019	6		400			5	Fresno
G-80748-A1	Ag UTV	Gas	2011	30	Control Technology	2019	6		200			5	Fresno
G-80785-A1	Ag UTV	Gas	1989	9	Uncontrolled Technology	2020	6		250			5	Tulare
G-80960-A1	Ag UTV	Gas	2004	28	Control Technology	2019	36		200			5	Merced
G-80972-A1	Ag UTV	Gas	1992	20	Uncontrolled Technology	2020	7		650			5	Kern
G-81009-A1	Ag UTV	Gas	2001	8	Uncontrolled Technology	2021	30		100			5	San Joaquin
G-81010-A1	Ag UTV	Gas	1982	8	Uncontrolled Technology	2021	35		100			5	San Joaquin
G-81053-A1	Ag UTV	Gas	2004	17	Uncontrolled Technology	2021	35		400			5	Tulare
G-81074-A1	Ag UTV	Diesel	1979	16	Tier 0	2019	6		300			5	Merced
G-81076-A1	Ag UTV	Diesel	1979	16	Tier 0	2019	6		300			5	Merced
G-81082-A1	Ag UTV	Gas	2000	17	Uncontrolled Technology	2021	35		120			5	Fresno
G-81083-A1	Ag UTV	Gas	2002	13	Uncontrolled Technology	2021	35		1500			5	Stanislaus
G-81120-A1	Ag UTV	Gas	1992	10	Uncontrolled Technology	2020	40		700			5	Kern
G-81251-A1	Ag UTV	Gas	2001	27	Uncontrolled Technology	2020	36		3600			5	Stanislaus
G-81253-A1	Ag UTV	Gas	2006	42	Control Technology	2020	36		450			5	San Joaquin
G-81288-A1	Ag UTV	Diesel	2009	22	Tier 4 Interim	2019	30		1000			5	Fresno
G-81398-A1	Ag UTV	Gas	2001	22	Uncontrolled Technology	2021	22		500			5	San Joaquin
G-81399-A1	Ag UTV	Gas	2005	23	Control Technology	2021	35		700			5	Stanislaus
G-81496-A1	Ag UTV	Gas	1981	13	Uncontrolled Technology	2021	30		2000			5	Fresno
G-81567-A1	Ag UTV	Gas	1998	40	Uncontrolled Technology	2020	38		300			5	San Joaquin
G-81570-A1	Ag UTV	Gas	2012	41	Uncontrolled Technology	2021	35		1460			5	Fresno
G-81621-A1	Ag UTV	Gas	1986	5	Uncontrolled Technology	2021	35		60			5	San Joaquin
G-81631-A1	Ag UTV	Gas	2003	33	Uncontrolled Technology	2021	35		200			5	Merced
G-81633-A1	Ag UTV	Gas	2001	22	Uncontrolled Technology	2021	30		400			5	San Joaquin
G-81636-A1	Ag UTV	Gas	2004	19	Control Technology	2021	35		600			5	San Joaquin
G-81642-A1	Ag UTV	Gas	2005	18	Control Technology	2021	6		1500			5	Kern
G-81744-A1	Ag UTV	Gas	2008	34	Control Technology	2021	35		900			5	Stanislaus
G-81847-A1	Ag UTV	Gas	1998	14	Uncontrolled Technology	2021	35		100			5	Tulare
G-81868-A1	Ag UTV	Gas	2003	15	Uncontrolled Technology	2019	4		200			5	Tulare
G-81959-A1	Ag UTV	Gas	2002	40	Uncontrolled Technology	2020	6		200			5	Stanislaus
G-81968-A1	Ag UTV	Gas	2006	10	Control Technology	2019	6		500			5	Madera

Project Type Off-Road

Description Ag UTV Replacement

SJVAPCD Project Data 2021

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-82000-A1	Ag UTV	Gas	1988	10	Uncontrolled Technology	2020	6		100			5	Fresno
G-82005-A1	Ag UTV	Gas	1986	14	Uncontrolled Technology	2021	35		500			5	Stanislaus
G-82010-A1	Ag UTV	Gas	2005	60	Control Technology	2021	35		500			5	Stanislaus
G-82036-A1	Ag UTV	Gas	2002	10	Uncontrolled Technology	2021	35		100			5	Fresno
G-82039-A1	Ag UTV	Gas	2015	8	Control Technology	2021	35		300			5	San Joaquin
G-82131-A1	Ag UTV	Gas	2003	22	Uncontrolled Technology	2021	35		50			5	Stanislaus
G-82166-A1	Ag UTV	Gas	1986	17	Uncontrolled Technology	2021	35		150			5	San Joaquin
G-82173-A1	Ag UTV	Gas	2012	17	Control Technology	2021	35		250			5	Fresno
G-82179-A1	Ag UTV	Gas	2002	20	Uncontrolled Technology	2021	30		300			5	Stanislaus
G-82183-A1	Ag UTV	Gas	2009	11	Control Technology	2021	35		500			5	San Joaquin
G-82263-A1	Ag UTV	Gas	1986	13	Uncontrolled Technology	2021	30		250			5	Stanislaus
G-82295-A1	Ag UTV	Gas	1991	19	Uncontrolled Technology	2021	35		25			5	Fresno
G-82394-A1	Ag UTV	Gas	1997	20	Uncontrolled Technology	2021	35		550			5	Fresno
G-82395-A1	Ag UTV	Gas	1990	20	Uncontrolled Technology	2021	30		640			5	Fresno
G-82396-A1	Ag UTV	Gas	1987	15	Uncontrolled Technology	2020	6		580			5	Fresno
G-82564-A1	Ag UTV	Gas	1998	19	Uncontrolled Technology	2020	6		5703			5	San Joaquin
G-82618-A1	Ag UTV	Gas	1985	13	Uncontrolled Technology	2021	35		70			5	Fresno
G-82632-A1	Ag UTV	Gas	2016	16	Control Technology	2019	6		1000			5	Kern
G-82633-A1	Ag UTV	Gas	2016	15	Control Technology	2019	6		690			5	Kern
G-82637-A1	Ag UTV	Gas	2008	16	Control Technology	2019	6		595			5	Kern
G-82641-A1	Ag UTV	Gas	2008	26	Control Technology	2019	6		725			5	Kern
G-82665-A1	Ag UTV	Gas	2005	44	Control Technology	2019	6		300			5	Merced
G-82666-A1	Ag UTV	Gas	2004	27	Control Technology	2019	6		300			5	Merced
G-82670-A1	Ag UTV	Gas	2010	12	Control Technology	2019	6		8100			5	Fresno
G-82671-A1	Ag UTV	Gas	2010	12	Control Technology	2019	6		8100			5	Fresno
G-82686-A1	Ag UTV	Gas	2010	12	Control Technology	2019	6		8100			5	Fresno
G-82687-A1	Ag UTV	Gas	2010	12	Control Technology	2019	6		8100			5	Fresno
G-82688-A1	Ag UTV	Gas	2010	12	Control Technology	2019	6		8100			5	Fresno
G-82689-A1	Ag UTV	Gas	2010	12	Control Technology	2019	6		8100			5	Fresno
G-82691-A1	Ag UTV	Gas	2010	12	Control Technology	2019	6		8100			5	Fresno
G-82692-A1	Ag UTV	Gas	2010	12	Control Technology	2019	6		8100			5	Fresno
G-82693-A1	Ag UTV	Gas	2005	17	Control Technology	2021	35		60			5	Stanislaus
G-82694-A1	Ag UTV	Gas	1995	20	Uncontrolled Technology	2021	30		400			5	Fresno

Project Type Off-Road

Description Ag UTV Replacement

SJVAPCD Project Data 2021

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-82814-A1	Ag UTV	Diesel	2006	22	Tier 2	2021	35		630			5	Tulare
G-82868-A1	Ag UTV	Gas	2000	22	Uncontrolled Technology	2021	35		1600			5	Stanislaus
G-82869-A1	Ag UTV	Gas	2004	25	Control Technology	2021	35		1800			5	Stanislaus
G-82918-A1	Ag UTV	Gas	1995	19	Uncontrolled Technology	2021	35		100			5	San Joaquin
G-82919-A1	Ag UTV	Gas	2002	18	Uncontrolled Technology	2021	30		300			5	Madera
G-82923-A1	Ag UTV	Gas	2002	15	Uncontrolled Technology	2020	10		400			5	San Joaquin
G-82924-A1	Ag UTV	Gas	1989	20	Uncontrolled Technology	2020	10		400			5	San Joaquin
G-83034-A1	Ag UTV	Gas	1986	16	Uncontrolled Technology	2020	36		300			5	San Joaquin
G-83079-A1	Ag UTV	Gas	1985	15	Uncontrolled Technology	2021	30		150			5	Merced
G-83195-A1	Ag UTV	Gas	1999	33	Uncontrolled Technology	2021	30		780			5	Madera
G-83224-A1	Ag UTV	Gas	1998	10	Uncontrolled Technology	2020	6		200			5	Fresno
G-83237-A1	Ag UTV	Gas	2005	13	Control Technology	2021	35		750			5	Merced
G-83283-A1	Ag UTV	Gas	2006	23	Control Technology	2021	30		30			5	Tulare
G-83496-A1	Ag UTV	Gas	2007	12	Control Technology	2021	35		100			5	Stanislaus
G-83633-A1	Ag UTV	Gas	2005	16	Control Technology	2021	30		100			5	San Joaquin
G-83743-A1	Ag UTV	Gas	1995	9	Uncontrolled Technology	2021	35		800			5	Kings
G-83830-A1	Ag UTV	Gas	2007	10	Control Technology	2020	6		450			5	San Joaquin
G-83912-A1	Ag UTV	Gas	1982	13	Uncontrolled Technology	2021	13		500			5	Tulare
G-98027-A1	Ag UTV	Gas	2006	33	Control Technology	2021	35		1000			5	Fresno
G-98070-A1	Ag UTV	Gas	1995	20	Uncontrolled Technology	2021	35		20			5	Kern
G-98075-A1	Ag UTV	Gas	2002	15	Uncontrolled Technology	2021	35		200			5	Stanislaus
G-98135-A1	Ag UTV	Gas	1984	15	Uncontrolled Technology	2019	6		100			5	San Joaquin
G-98144-A1	Ag UTV	Gas	2002	41	Uncontrolled Technology	2021	35		600			5	Merced
G-98178-A1	Ag UTV	Gas	1999	19	Uncontrolled Technology	2021	35		80			5	Tulare
G-98239-A1	Ag UTV	Gas	2004	15	Control Technology	2021	35		175			5	Fresno
G-98258-A1	Ag UTV	Gas	1990	14	Uncontrolled Technology	2021	30		300			5	Fresno
G-98372-A1	Ag UTV	Gas	2007	16	Control Technology	2021	30		1500			5	Fresno
G-98406-A1	Ag UTV	Gas	1998	29	Uncontrolled Technology	2021	35		950			5	Fresno
G-99323-A1	Ag UTV	Gas	2005	33	Control Technology	2021	35		100			5	Fresno
G-99774-A1	Ag UTV	Gas	1989	19	Uncontrolled Technology	2020	30		300			5	Stanislaus

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Appendix B
NRCS Combustion System Improvement Program Project Information

Project Type NRCS EQIP

Description Vehicle Replacement

NRCS Project Data 2021

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)
3368	Tractor	Diesel	1964	57	Non-Tier	2016	53	Tier 4 Final	300			10	San Joaquin
3369	Tractor	Diesel	1969	107	Non-Tier	2018	115	Tier 4 Final	500			10	Madera
3370	Tractor	Diesel	1969	76	Non-Tier	2018	75	Tier 4 Final	800			10	Madera
3371	Tractor	Diesel	1984	45	Non-Tier	2019	49	Tier 4 Final	800			10	Madera
3372	Tractor	Diesel	1979	98	Non-Tier	2019	114	Tier 4 Final	800			10	Madera
3373	Tractor	Diesel	2007	98	Tier 2	2019	115	Tier 4 Final	800			10	Madera
3374	Tractor	Diesel	1981	69	Non-Tier	2018	70	Tier 4 Final	250			10	Madera
3375	Tractor	Diesel	1989	60	Non-Tier	2018	75	Tier 4 Final	900			10	Madera
3376	Shaker	Diesel	2007	125	Tier 1	2019	174	Tier 4 Final	720			10	Madera
3377	Tractor	Diesel	1995	120	Non-Tier	2019	125	Tier 4 Final	550			10	Madera
3378	Tractor	Diesel	1986	31	Non-Tier	2017	39	Tier 4 Final	500			10	Madera
3379	Tractor	Diesel	1999	100	Tier 1	2019	115	Tier 4 Final	700			10	Madera
3380	Tractor	Diesel	1975	67	Non-Tier	2019	65	Tier 4 Final	1,200			10	Madera
3381	Tractor	Diesel	1988	97	Non-Tier	2019	120	Tier 4 Final	1,200			10	Madera
3382	Tractor	Diesel	1967	54	Non-Tier	2019	32	Tier 4 Final	400			10	Madera
3383	Tractor	Diesel	2003	60	Tier 1	2019	50	Tier 4 Final	900			10	Madera
3384	Tractor	Diesel	2003	60	Tier 1	2019	75	Tier 4 Final	800			10	Madera
3385	Tractor	Diesel	1979	133	Non-Tier	2019	125	Tier 4 Final	300			10	Madera
3386	Loader	Diesel	1975	48	Non-Tier	2019	48	Tier 4 Final	400			10	Madera
3387	Tractor	Diesel	1985	96	Non-Tier	2019	106	Tier 4 Final	740			10	Madera
3388	Tractor	Diesel	1991	94	Non-Tier	2018	115	Tier 4 Final	500			10	Madera
3389	Tractor	Diesel	1968	121	Non-Tier	2017	117	Tier 4 Final	550			10	Madera
3390	Tractor	Diesel	1971	90	Non-Tier	2019	115	Tier 4 Final	80			10	Madera
3391	Tractor	Diesel	2001	92	Tier 1	2016	99	Tier 4 Final	520			10	Madera
3392	Tractor	Diesel	1997	95	Non-Tier	2018	117	Tier 4 Final	1,100			10	Madera
3393	Tractor	Diesel	1984	75	Non-Tier	2019	87	Tier 4 Final	640			10	Madera
3394	Tractor	Diesel	1984	82	Non-Tier	2015	92	Tier 4 Final	400			10	Madera
3395	Tractor	Diesel	1978	157	Non-Tier	2019	115	Tier 4 Final	150			10	Madera
3396	Tractor	Diesel	1970	131	Non-Tier	2020	115	Tier 4 Final	250			10	Madera
3397	Tractor	Diesel	1976	145	Non-Tier	2020	115	Tier 4 Final	250			10	Madera
3398	Tractor	Diesel	1965	56	Non-Tier	2019	75	Tier 4 Final	400			10	San Joaquin
3399	Tractor	Diesel	1976	217	Non-Tier	2019	250	Tier 4 Final	400			10	San Joaquin
3400	Tractor	Diesel	1978	109	Non-Tier	2018	109	Tier 4 Final	120			10	San Joaquin

Project Type NRCS EQIP

Description Vehicle Replacement

NRCS Project Data 2021

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)
3401	Tractor	Diesel	1993	96	Non-Tier	2017	120	Tier 4 Final	1,200			10	San Joaquin
3402	Tractor	Diesel	1953	39	Non-Tier	2019	37	Tier 4 Final	250			10	San Joaquin
3403	Tractor	Diesel	1978	96	Non-Tier	2018	107	Tier 4 Final	250			10	San Joaquin
3404	Tractor	Diesel	1980	75	Non-Tier	2019	74	Tier 4 Final	500			10	San Joaquin
3405	Tractor	Diesel	1976	109	Non-Tier	2019	125	Tier 4 Final	750			10	San Joaquin
3406	Tractor	Diesel	1959	225	Non-Tier	2018	270	Tier 4 Final	2,000			10	San Joaquin
3407	Tractor	Diesel	1998	310	Tier 1	2020	370	Tier 4 Final	400			10	San Joaquin
3408	Tractor	Diesel	1986	88	Non-Tier	2019	105	Tier 4 Final	88			10	San Joaquin
3409	Tractor	Diesel	1983	80	Non-Tier	2018	47	Tier 4 Final	40			10	San Joaquin
3410	Tractor	Diesel	1978	80	Non-Tier	2019	100	Tier 4 Final	350			10	San Joaquin
3411	Tractor	Diesel	1971	174	Non-Tier	2018	175	Tier 4 Final	145			10	San Joaquin
3412	Tractor	Diesel	1977	84	Non-Tier	2019	100	Tier 4 Final	200			10	San Joaquin
3413	Backhoe Loader	Diesel	1980	58	Non-Tier	2019	63	Tier 4 Final	500			10	San Joaquin
3414	Tractor	Diesel	1962	55	Non-Tier	2019	50	Tier 4 Final	300			10	San Joaquin
3415	Tractor	Diesel	1959	61	Non-Tier	2019	74	Tier 4 Final	510			10	San Joaquin
3416	Tractor	Diesel	1976	187	Non-Tier	2019	114	Tier 4 Final	500			10	San Joaquin
3417	Backhoe Loader	Diesel	1976	50	Non-Tier	2019	63	Tier 4 Final	475			10	San Joaquin
3418	Tractor	Diesel	1975	90	Non-Tier	2019	105	Tier 4 Final	480			10	San Joaquin
3419	Tractor	Diesel	1986	80	Non-Tier	2020	100	Tier 4 Final	450			10	San Joaquin
3420	Tractor	Diesel	1986	58	Non-Tier	2020	73	Tier 4 Final	500			10	San Joaquin
3421	Tractor	Diesel	1970	58	Non-Tier	2020	66	Tier 4 Final	300			10	San Joaquin
3422	Tractor	Diesel	1978	79	Non-Tier	2019	95	Tier 4 Final	575			10	San Joaquin
3423	Tractor	Diesel	1982	126	Non-Tier	2019	117	Tier 4 Final	250			10	San Joaquin
3424	Sweeper	Diesel	1997	78	Non-Tier	2018	74	Tier 4 Final	215			10	San Joaquin
3425	Tractor	Diesel	1967	84	Non-Tier	2019	106	Tier 4 Final	500			10	San Joaquin
3426	Tractor	Diesel	2004	110	Tier 2	2019	114	Tier 4 Final	500			10	San Joaquin
3427	Tractor	Diesel	1988	81	Non-Tier	2018	74	Tier 4 Final	140			10	San Joaquin
3428	Tractor	Diesel	1968	139	Non-Tier	2018	100	Tier 4 Final	500			10	San Joaquin
3429	Tractor	Diesel	1979	80	Non-Tier	2019	100	Tier 4 Final	80			10	San Joaquin
3430	Tractor	Diesel	1957	62	Non-Tier	2019	75	Tier 4 Final	375			10	San Joaquin
3431	Tractor	Diesel	1999	210	Tier 1	2017	260	Tier 4 Final	925			10	San Joaquin
3432	Tractor	Diesel	1980	48	Non-Tier	2019	56	Tier 4 Final	500			10	San Joaquin
3433	Tractor	Diesel	1974	68	Non-Tier	2019	75	Tier 4 Final	350			10	San Joaquin

Project Type NRCS EQIP

Description Vehicle Replacement

NRCS Project Data 2021

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)
3434	Tractor	Diesel	1971	65	Non-Tier	2019	74	Tier 4 Final	245			10	San Joaquin
3435	Tractor	Diesel	1992	310	Non-Tier	2015	402	Tier 4 Final	1,300			10	San Joaquin
3436	Tractor	Diesel	1977	132	Non-Tier	2020	115	Tier 4 Final	150			10	Madera
3437	Skid Steer Loader	Diesel	2005	81	Tier 2	2019	92	Tier 4 Final	380			10	San Joaquin
3438	Tractor	Diesel	2003	92	Tier 1	2019	115	Tier 4 Final	350			10	San Joaquin
3439	Tractor	Diesel	1974	67	Non-Tier	2020	75	Tier 4 Final	200			10	San Joaquin
3440	Tractor	Diesel	1975	164	Non-Tier	2019	115	Tier 4 Final	1,000			10	San Joaquin
3441	Tractor	Diesel	1976	103	Non-Tier	2020	115	Tier 4 Final	1,200			10	San Joaquin
3442	Tractor	Diesel	1971	58	Non-Tier	2020	73	Tier 4 Final	200			10	San Joaquin
3443	Tractor	Diesel	1977	126	Non-Tier	2019	105	Tier 4 Final	575			10	San Joaquin
3444	Tractor	Diesel	2000	45	Tier 1	2019	53	Tier 4 Final	257			10	San Joaquin
3445	Tractor	Diesel	1968	168	Non-Tier	2020	155	Tier 4 Final	500			10	Tulare
3446	Tractor	Diesel	1989	60	Non-Tier	2018	74	Tier 4 Final	300			10	Tulare
3447	Tractor	Diesel	1984	67	Non-Tier	2019	75	Tier 4 Final	450			10	Tulare
3448	Tractor	Diesel	1981	154	Non-Tier	2017	125	Tier 4 Final	400			10	Tulare
3449	Tractor	Diesel	1980	31	Non-Tier	2019	32	Tier 4 Final	1,000			10	Tulare
3450	Tractor	Diesel	1983	26	Non-Tier	2018	25	Tier 4 Final	1,000			10	Tulare
3451	Tractor	Diesel	1963	45	Non-Tier	2019	55	Tier 4 Final	1,000			10	Tulare
3452	Tractor	Diesel	1976	124	Non-Tier	2019	115	Tier 4 Final	500			10	Tulare
3453	Tractor	Diesel	1965	63	Non-Tier	2019	74	Tier 4 Final	600			10	Tulare
3454	Tractor	Diesel	1987	86	Non-Tier	2019	106	Tier 4 Final	500			10	Tulare
3455	Tractor	Diesel	1992	102	Non-Tier	2018	115	Tier 4 Final	500			10	Tulare
3456	Tractor	Diesel	1984	63	Non-Tier	2019	73	Tier 4 Final	600			10	Tulare
3457	Tractor	Diesel	1996	78	Non-Tier	2019	95	Tier 4 Final	450			10	Tulare
3458	Tractor	Diesel	1976	80	Non-Tier	2018	100	Tier 4 Final	500			10	Tulare
3459	Tractor	Diesel	1980	45	Non-Tier	2019	55	Tier 4 Final	400			10	Tulare
3460	Tractor	Diesel	1979	84	Non-Tier	2016	86	Tier 4 Final	400			10	Tulare
3461	Tractor	Diesel	1996	91	Non-Tier	2017	100	Tier 4 Final	700			10	Tulare
3462	Tractor	Diesel	1988	97	Non-Tier	2019	115	Tier 4 Final	200			10	Tulare
3463	Tractor	Diesel	1983	26	Non-Tier	2019	31	Tier 4 Final	1,000			10	Tulare
3464	Tractor	Diesel	1987	96	Non-Tier	2019	100	Tier 4 Final	1,000			10	Tulare
3465	Tractor	Diesel	1986	29	Non-Tier	2019	32	Tier 4 Final	1,000			10	Tulare
3466	Tractor	Diesel	2006	115	Tier 2	2019	125	Tier 4 Final	800			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)
3467	Tractor	Diesel	1981	63	Non-Tier	2018	70	Tier 4 Final	250			10	Tulare
3468	Tractor	Diesel	1994	245	Non-Tier	2019	295	Tier 4 Final	800			10	Tulare
3469	Tractor	Diesel	1978	31	Non-Tier	2019	32	Tier 4 Final	250			10	Tulare
3470	Tractor	Diesel	1980	37	Non-Tier	2019	32	Tier 4 Final	250			10	Tulare
3471	Tractor	Diesel	1946	68	Non-Tier	2019	32	Tier 4 Final	250			10	Tulare
3472	Tractor	Diesel	1996	97	Non-Tier	2019	120	Tier 4 Final	600			10	Tulare
3473	Tractor	Diesel	1960	72	Non-Tier	2020	90	Tier 4 Final	180			10	Tulare
3474	Sweeper	Diesel	2003	130	Tier 2	2019	174	Tier 4 Final	600			10	Tulare
3475	Tractor	Diesel	1997	140	Tier 1	2017	155	Tier 4 Final	1,200			10	Tulare
3476	Tractor	Diesel	1976	146	Non-Tier	2019	132	Tier 4 Final	1,000			10	Tulare
3477	Tractor	Diesel	1986	93	Non-Tier	2019	74	Tier 4 Final	1,000			10	Tulare
3478	Tractor	Diesel	2007	92	Tier 2	2018	108	Tier 4 Final	500			10	Tulare
3479	Tractor	Diesel	1979	61	Non-Tier	2018	74	Tier 4 Final	400			10	Tulare
3480	Tractor	Diesel	1974	216	Non-Tier	2019	135	Tier 4 Final	1,800			10	Tulare
3481	Tractor	Diesel	1991	95	Non-Tier	2019	98	Tier 4 Final	700			10	Tulare
3482	Tractor	Diesel	1990	90	Non-Tier	2018	105	Tier 4 Final	300			10	Tulare
3483	Tractor	Diesel	1983	96	Non-Tier	2018	119	Tier 4 Final	500			10	Tulare
3484	Tractor	Diesel	1981	83	Non-Tier	2019	100	Tier 4 Final	550			10	Tulare
3485	Tractor	Diesel	1990	186	Non-Tier	2019	180	Tier 4 Final	600			10	Tulare
3486	Tractor	Diesel	1988	69	Non-Tier	2019	75	Tier 4 Final	400			10	Tulare
3487	Tractor	Diesel	1982	98	Non-Tier	2018	108	Tier 4 Final	400			10	Tulare
3488	Tractor	Diesel	1980	97	Non-Tier	2019	74	Tier 4 Final	415			10	Tulare
3489	Tractor	Diesel	1985	105	Non-Tier	2019	117	Tier 4 Final	700			10	Tulare
3490	Tractor	Diesel	1974	63	Non-Tier	2019	74	Tier 4 Final	300			10	Tulare
3491	Tractor	Diesel	1997	72	Non-Tier	2019	74	Tier 4 Final	290			10	Tulare
3492	Tractor	Diesel	1998	114	Tier 1	2018	115	Tier 4 Final	1,500			10	Tulare
3493	Tractor	Diesel	1995	84	Non-Tier	2020	100	Tier 4 Final	250			10	Tulare
3494	Tractor	Diesel	1990	207	Non-Tier	2018	245	Tier 4 Final	1500			10	Tulare
3495	Tractor	Diesel	1987	77	Non-Tier	2020	92	Tier 4 Final	200			10	Tulare
3496	Tractor	Diesel	1975	110	Non-Tier	2019	125	Tier 4 Final	250			10	Tulare
3497	Tractor	Diesel	1981	74	Non-Tier	2019	73	Tier 4 Final	300			10	Tulare
3498	Tractor	Diesel	1973	68	Non-Tier	2019	82	Tier 4 Final	400			10	Tulare
3499	Tractor	Diesel	1998	168	Tier 1	2018	210	Tier 4 Final	900			10	Tulare

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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)
3500	Tractor	Diesel	1976	73	Non-Tier	2019	90	Tier 4 Final	250			10	Tulare
3501	Tractor	Diesel	1992	105	Non-Tier	2019	114	Tier 4 Final	650			10	Tulare
3502	Tractor	Diesel	1978	60	Non-Tier	2019	70	Tier 4 Final	350			10	Tulare
3503	Tractor	Diesel	2007	91	Tier 2	2019	98	Tier 4 Final	500			10	Fresno
3504	Tractor	Diesel	1998	72	Tier 1	2018	86	Tier 4 Final	700			10	Fresno
3505	Tractor	Diesel	2001	89	Tier 1	2019	100	Tier 4 Final	1,500			10	Tulare
3506	Tractor	Diesel	1980	28	Non-Tier	2019	35	Tier 4 Final	50			10	Tulare
3507	Tractor	Diesel	1981	63	Non-Tier	2019	73	Tier 4 Final	300			10	Tulare
3508	Tractor	Diesel	1997	99	Non-Tier	2019	115	Tier 4 Final	200			10	Fresno
3509	Tractor	Diesel	1968	130	Non-Tier	2016	140	Tier 4 Final	500			10	Fresno
3510	Tractor	Diesel	1978	27	Non-Tier	2020	32	Tier 4 Final	200			10	Fresno
3511	Tractor	Diesel	1962	77	Non-Tier	2018	65	Tier 4 Final	380			10	Fresno
3512	Tractor	Diesel	1981	60	Non-Tier	2020	74	Tier 4 Final	500			10	Fresno
3513	Tractor	Diesel	1982	84	Non-Tier	2019	105	Tier 4 Final	310			10	Fresno
3514	Tractor	Diesel	1992	51	Non-Tier	2019	52	Tier 4 Final	275			10	Fresno
3515	Tractor	Diesel	1982	370	Non-Tier	2019	420	Tier 4 Final	500			10	Fresno
3516	Tractor	Diesel	1971	71	Non-Tier	2018	73	Tier 4 Final	700			10	Fresno
3517	Tractor	Diesel	1984	81	Non-Tier	2019	70	Tier 4 Final	200			10	Fresno
3518	Tractor	Diesel	1982	73	Non-Tier	2019	90	Tier 4 Final	300			10	Fresno
3519	Tractor	Diesel	1997	92	Non-Tier	2019	114	Tier 4 Final	500			10	Fresno
3520	Tractor	Diesel	1987	65	Non-Tier	2020	74	Tier 4 Final	400			10	Fresno
3521	Tractor	Diesel	1982	82	Non-Tier	2019	100	Tier 4 Final	350			10	Fresno
3522	Tractor	Diesel	1993	49	Non-Tier	2019	58	Tier 4 Final	2,000			10	Fresno
3523	Shaker	Diesel	1987	149	Non-Tier	2019	174	Tier 4 Final	250			10	Fresno
3524	Tractor	Diesel	1978	250	Non-Tier	2019	125	Tier 4 Final	1,800			10	Fresno
3525	Nut Harvester	Diesel	1987	149	Non-Tier	2019	174	Tier 4 Final	500			10	Fresno
3526	Tractor	Diesel	1993	81	Non-Tier	2018	80	Tier 4 Final	360			10	Fresno
3527	Tractor	Diesel	1981	72	Non-Tier	2020	90	Tier 4 Final	600			10	Fresno
3528	Tractor	Diesel	1990	61	Non-Tier	2019	74	Tier 4 Final	250			10	Fresno
3529	Tractor	Diesel	1962	39	Non-Tier	2019	39	Tier 4 Final	325			10	Fresno
3530	Backhoe Loader	Diesel	1980	90	Non-Tier	2019	62	Tier 4 Final	150			10	Kern
3531	Tractor	Diesel	1974	58	Non-Tier	2019	70	Tier 4 Final	100			10	Fresno
3532	Tractor	Diesel	1981	97	Non-Tier	2019	115	Tier 4 Final	300			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)
3533	Tractor	Diesel	1993	81	Non-Tier	2019	100	Tier 4 Final	400			10	Fresno
3534	Tractor	Diesel	1981	77	Non-Tier	2019	90	Tier 4 Final	300			10	Fresno
3535	Tractor	Diesel	1988	72	Non-Tier	2015	80	Tier 4 Final	300			10	Kern
3536	Tractor	Diesel	1985	86	Non-Tier	2018	100	Tier 4 Final	600			10	Kern
3537	Tractor	Diesel	2005	89	Tier 2	2018	100	Tier 4 Final	600			10	Kern
3538	Tractor	Diesel	1998	64	Tier 1	2017	73	Tier 4 Final	600			10	Kern
3539	Tractor	Diesel	1997	95	Non-Tier	2016	115	Tier 4 Final	750			10	Kern
3540	Tractor	Diesel	2005	45	Tier 2	2019	53	Tier 4 Final	240			10	San Joaquin
3541	Tractor	Diesel	1979	80	Non-Tier	2018	74	Tier 4 Final	600			10	Kern
3543	Tractor	Diesel	2005	225	Tier 2	2015	250	Tier 4 Final	800			10	Tulare
3544	Tractor	Diesel	2005	89	Tier 2	2019	98	Tier 4 Final	1,000			10	Fresno
3545	Tractor	Diesel	1967	92	Non-Tier	2019	98	Tier 4 Final	500			10	Fresno
3546	Tractor	Diesel	2004	53	Tier 2	2019	65	Tier 4 Final	500			10	Fresno
3547	Tractor	Diesel	1986	97	Non-Tier	2019	105	Tier 4 Final	1,350			10	Fresno
3548	Tractor	Diesel	1973	80	Non-Tier	2018	90	Tier 4 Final	400			10	Fresno
3549	Sweeper	Diesel	1984	75	Non-Tier	2018	74	Tier 4 Final	400			10	Fresno
3550	Shaker	Diesel	1982	80	Non-Tier	2019	74	Tier 4 Final	400			10	Fresno
3551	Tractor	Diesel	2003	85	Tier 1	2018	100	Tier 4 Final	500			10	Fresno
3552	Tractor	Diesel	1997	260	Tier 1	2018	270	Tier 4 Final	2500			10	Tulare
3553	Tractor	Diesel	2003	95	Tier 1	2020	100	Tier 4 Final	400			10	Tulare
3554	Tractor	Diesel	1970	92	Non-Tier	2020	113	Tier 4 Final	480			10	Kern
3555	Tractor	Diesel	1980	40	Non-Tier	2020	45	Tier 4 Final	400			10	Kern
3556	Tractor	Diesel	1994	90	Non-Tier	2019	100	Tier 4 Final	200			10	Fresno
3557	Tractor	Diesel	1982	97	Non-Tier	2016	105	Tier 4 Final	200			10	Fresno
3558	Tractor	Diesel	1974	91	Non-Tier	2019	98	Tier 4 Final	95			10	Fresno
3559	Tractor	Diesel	1999	85	Tier 1	2018	100	Tier 4 Final	300			10	Fresno
3560	Tractor	Diesel	1995	124	Non-Tier	2019	100	Tier 4 Final	200			10	Fresno
3561	Tractor	Diesel	1980	80	Non-Tier	2016	99	Tier 4 Final	120			10	Fresno
3562	Tractor	Diesel	1999	50	Tier 1	2020	53	Tier 4 Final	230			10	Fresno
3563	Tractor	Diesel	1982	82	Non-Tier	2019	100	Tier 4 Final	320			10	Fresno
3564	Tractor	Diesel	1980	63	Non-Tier	2020	74	Tier 4 Final	100			10	Fresno
3565	Tractor	Diesel	1987	96	Non-Tier	2019	115	Tier 4 Final	300			10	Fresno
3566	Tractor	Diesel	1999	110	Tier 1	2019	115	Tier 4 Final	1500			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)
3567	Shaker	Diesel	1980	120	Non-Tier	2019	148	Tier 4 Final	900			10	Tulare
3568	Tractor	Diesel	1974	186	Non-Tier	2019	115	Tier 4 Final	1500			10	Tulare
3569	Tractor	Diesel	2007	94	Tier 2	2019	115	Tier 4 Final	1200			10	Tulare
3570	Tractor	Diesel	2006	94	Tier 2	2019	115	Tier 4 Final	1200			10	Tulare
3571	Tractor	Diesel	2007	94	Tier 2	2019	115	Tier 4 Final	1200			10	Tulare
3572	Tractor	Diesel	1969	75	Non-Tier	2020	74	Tier 4 Final	500			10	Fresno
3573	Tractor	Diesel	1979	84	Non-Tier	2019	74	Tier 4 Final	1,000			10	Fresno
3574	Tractor	Diesel	1991	72	Non-Tier	2018	90	Tier 4 Final	550			10	Fresno
3575	Tractor	Diesel	1996	95	Non-Tier	2019	100	Tier 4 Final	700			10	Fresno
3576	Tractor	Diesel	1969	55	Non-Tier	2018	47	Tier 4 Final	200			10	Fresno
3577	Tractor	Diesel	1977	128	Non-Tier	2019	120	Tier 4 Final	250			10	Fresno
3578	Tractor	Diesel	1969	60	Non-Tier	2018	65	Tier 4 Final	300			10	Fresno
3579	Tractor	Diesel	1987	97	Non-Tier	2019	114	Tier 4 Final	1,000			10	Fresno
3580	Tractor	Diesel	1994	104	Non-Tier	2019	115	Tier 4 Final	1000			10	Fresno
3581	Tractor	Diesel	1967	58	Non-Tier	2019	71	Tier 4 Final	1,200			10	Fresno
3582	Tractor	Diesel	1972	145	Non-Tier	2019	115	Tier 4 Final	550			10	Fresno
3583	Tractor	Diesel	2004	105	Tier 2	2020	64	Tier 4 Final	1500			10	Tulare
3584	Tractor	Diesel	1978	98	Non-Tier	2019	100	Tier 4 Final	700			10	Merced
3585	Tractor	Diesel	1998	110	Tier 1	2019	105	Tier 4 Final	400			10	Madera
3586	Tractor	Diesel	1975	72	Non-Tier	2020	90	Tier 4 Final	300			10	Madera
3587	Tractor	Diesel	1982	90	Non-Tier	2020	115	Tier 4 Final	180			10	Madera
3588	Tractor	Diesel	1999	95	Tier 1	2020	115	Tier 4 Final	350			10	Madera
3589	Loader	Diesel	1981	59	Non-Tier	2019	70	Tier 4 Final	750			10	Madera
3590	Tractor	Diesel	1971	46	Non-Tier	2020	45	Tier 4 Final	300			10	Madera
3591	Nut Harvester	Diesel	1990	140	Non-Tier	2020	174	Tier 4 Final	250			10	Madera
3592	Tractor	Diesel	1980	157	Non-Tier	2018	125	Tier 4 Final	800			10	Madera
3593	Tractor	Diesel	1981	96	Non-Tier	2018	125	Tier 4 Final	800			10	Madera
3594	Tractor	Diesel	1987	97	Non-Tier	2016	105	Tier 4 Final	400			10	Merced
3595	Tractor	Diesel	1992	91	Non-Tier	2017	92	Tier 4 Final	160			10	Merced
3596	Loader	Diesel	1975	151	Non-Tier	2018	214	Tier 4 Final	200			10	Merced
3597	Tractor	Diesel	1999	104	Tier 1	2020	115	Tier 4 Final	500			10	Merced
3598	Tractor	Diesel	1992	92	Non-Tier	2019	93	Tier 4 Final	200			10	Merced
3599	Sweeper	Diesel	1994	139	Non-Tier	2019	48	Tier 4 Final	1,400			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)
3600	Tractor	Diesel	1976	126	Non-Tier	2018	115	Tier 4 Final	150			10	Madera
3601	Tractor	Diesel	2003	103	Tier 1	2020	115	Tier 4 Final	300			10	Merced
3602	Tractor	Diesel	1978	158	Non-Tier	2020	115	Tier 4 Final	500			10	Merced
3603	Tractor	Diesel	1977	84	Non-Tier	2019	98	Tier 4 Final	200			10	Tulare
3604	Tractor	Diesel	1998	100	Tier 1	2019	115	Tier 4 Final	500			10	Kings
3605	Tractor	Diesel	2000	92	Tier 1	2019	106	Tier 4 Final	1050			10	Kings
3606	Tractor	Diesel	2007	99	Tier 2	2019	117	Tier 4 Final	300			10	Kings
3607	Tractor	Diesel	2007	99	Tier 2	2019	117	Tier 4 Final	300			10	Kings
3608	Tractor	Diesel	1963	54	Non-Tier	2019	60	Tier 4 Final	100			10	Kings
3609	Tractor	Diesel	2002	208	Tier 1	2018	245	Tier 4 Final	2,000			10	Kings
3610	Tractor	Diesel	1994	300	Non-Tier	2018	370	Tier 4 Final	1,000			10	Kings
3611	Tractor	Diesel	2004	110	Tier 2	2019	130	Tier 4 Final	1085			10	Kings
3612	Tractor	Diesel	1975	94	Non-Tier	2020	113	Tier 4 Final	450			10	Kings
3613	Loader	Diesel	1999	95	Tier 1	2018	109	Tier 4 Final	600			10	Kings
3614	Tractor	Diesel	1963	61	Non-Tier	2020	75	Tier 4 Final	500			10	Kings
3615	Tractor	Diesel	1973	58	Non-Tier	2018	73	Tier 4 Final	100			10	Fresno
3616	Tractor	Diesel	1968	52	Non-Tier	2020	58	Tier 4 Final	150			10	Tulare
3617	Tractor	Diesel	1997	36	Non-Tier	2018	39	Tier 4 Final	400			10	Fresno
3618	Tractor	Diesel	1975	80	Non-Tier	2019	100	Tier 4 Final	250			10	Tulare
3619	Tractor	Diesel	1983	98	Non-Tier	2018	107	Tier 4 Final	200			10	Fresno
3620	Tractor	Diesel	1990	36	Non-Tier	2018	39	Tier 4 Final	400			10	Fresno
3621	Tractor	Diesel	1979	55	Non-Tier	2020	50	Tier 4 Final	600			10	Fresno
3622	Tractor	Diesel	1999	95	Tier 1	2020	115	Tier 4 Final	300			10	Fresno
3623	Tractor	Diesel	1997	103	Tier 1	2019	115	Tier 4 Final	300			10	Fresno
3624	Tractor	Diesel	1979	100	Non-Tier	2019	100	Tier 4 Final	165			10	Fresno
3625	Tractor	Diesel	2000	27	Tier 1	2018	34	Tier 4 Final	500			10	Fresno
3626	Tractor	Diesel	2006	114	Tier 2	2020	125	Tier 4 Final	200			10	Fresno
3627	Tractor	Diesel	1967	69	Non-Tier	2019	74	Tier 4 Final	350			10	Fresno
3628	Tractor	Diesel	2000	104	Tier 1	2019	123	Tier 4 Final	900			10	Fresno
3629	Tractor	Diesel	1970	75	Non-Tier	2018	85	Tier 4 Final	250			10	Fresno
3630	Tractor	Diesel	1964	58	Non-Tier	2020	55	Tier 4 Final	500			10	Fresno
3631	Tractor	Diesel	1968	58	Non-Tier	2019	55	Tier 4 Final	500			10	Fresno
3632	Tractor	Diesel	1980	76	Non-Tier	2019	98	Tier 4 Final	150			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)
3633	Tractor	Diesel	1985	25	Non-Tier	2019	32	Tier 4 Final	1,600			10	Fresno
3634	Tractor	Diesel	1969	75	Non-Tier	2019	73	Tier 4 Final	700			10	Fresno
3635	Tractor	Diesel	1989	63	Non-Tier	2019	75	Tier 4 Final	120			10	Fresno
3636	Tractor	Diesel	2001	89	Tier 1	2016	106	Tier 4 Final	300			10	Fresno
3637	Tractor	Diesel	1973	80	Non-Tier	2020	74	Tier 4 Final	300			10	Fresno
3638	Tractor	Diesel	2004	92	Tier 2	2019	105	Tier 4 Final	1200			10	Fresno
3639	Tractor	Diesel	1973	58	Non-Tier	2019	70	Tier 4 Final	150			10	Fresno
3640	Tractor	Diesel	1990	65	Non-Tier	2019	75	Tier 4 Final	500			10	Fresno
3641	Shaker	Diesel	1984	117	Non-Tier	2019	142	Tier 4 Final	440			10	Fresno
3642	Tractor	Diesel	1994	103	Non-Tier	2020	115	Tier 4 Final	350			10	Fresno
3643	Tractor	Diesel	1987	84	Non-Tier	2016	100	Tier 4 Final	1,000			10	Stanislaus
3644	Tractor	Diesel	1997	108	Tier 1	2018	74	Tier 4 Final	500			10	Stanislaus
3645	Tractor	Diesel	1968	115	Non-Tier	2019	114	Tier 4 Final	300			10	Stanislaus
3646	Tractor	Diesel	1976	51	Non-Tier	2019	58	Tier 4 Final	500			10	Stanislaus
3647	Tractor	Diesel	1995	95	Non-Tier	2018	101	Tier 4 Final	450			10	Stanislaus
3648	Tractor	Diesel	1986	53	Non-Tier	2018	59	Tier 4 Final	500			10	Stanislaus
3649	Tractor	Diesel	2006	114	Tier 2	2020	115	Tier 4 Final	600			10	Stanislaus
3650	Tractor	Diesel	2005	98	Tier 2	2019	115	Tier 4 Final	517			10	Stanislaus
3651	Tractor	Diesel	2004	90	Tier 2	2017	100	Tier 4 Final	660			10	Stanislaus
3652	Tractor	Diesel	1986	81	Non-Tier	2016	100	Tier 4 Final	500			10	Stanislaus
3653	Tractor	Diesel	1969	76	Non-Tier	2020	66	Tier 4 Final	100			10	Stanislaus
3654	Tractor	Diesel	1975	121	Non-Tier	2020	123	Tier 4 Final	400			10	Stanislaus
3655	Tractor	Diesel	1979	94	Non-Tier	2020	106	Tier 4 Final	600			10	Stanislaus
3656	Tractor	Diesel	1964	61	Non-Tier	2019	67	Tier 4 Final	25			10	Stanislaus
3657	Shaker	Diesel	2001	125	Tier 1	2020	148	Tier 4 Final	350			10	Stanislaus
3658	Tractor	Diesel	2002	115	Tier 2	2020	115	Tier 4 Final	1000			10	Stanislaus
3659	Tractor	Diesel	1949	86	Non-Tier	2019	100	Tier 4 Final	300			10	Stanislaus
3660	Tractor	Diesel	2000	71	Tier 1	2019	74	Tier 4 Final	500			10	Stanislaus
3661	Tractor	Diesel	1974	25	Non-Tier	2018	35	Tier 4 Final	300			10	Fresno
3662	Tractor	Diesel	1995	81	Non-Tier	2020	100	Tier 4 Final	1075			10	Fresno
3663	Tractor	Diesel	1991	60	Non-Tier	2019	74	Tier 4 Final	300			10	Fresno
3664	Tractor	Diesel	1977	45	Non-Tier	2019	54	Tier 4 Final	400			10	Fresno
3665	Tractor	Diesel	1988	88	Non-Tier	2019	100	Tier 4 Final	300			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)
3666	Tractor	Diesel	1996	81	Non-Tier	2019	100	Tier 4 Final	290			10	Fresno
3667	Tractor	Diesel	1972	58	Non-Tier	2018	73	Tier 4 Final	450			10	San Joaquin
3668	Tractor	Diesel	1971	174	Non-Tier	2020	210	Tier 4 Final	750			10	San Joaquin
3669	Tractor	Diesel	1998	89	Tier 1	2016	105	Tier 4 Final	1,000			10	San Joaquin
3670	Tractor	Diesel	1972	112	Non-Tier	2019	73	Tier 4 Final	150			10	San Joaquin
3671	Tractor	Diesel	1987	65	Non-Tier	2020	72	Tier 4 Final	600			10	San Joaquin
3672	Tractor	Diesel	1975	45	Non-Tier	2019	47	Tier 4 Final	400			10	San Joaquin
3673	Tractor	Diesel	1953	86	Non-Tier	2019	92	Tier 4 Final	400			10	San Joaquin
3674	Tractor	Diesel	1967	90	Non-Tier	2020	99	Tier 4 Final	200			10	San Joaquin
3675	Tractor	Diesel	1973	76	Non-Tier	2020	74	Tier 4 Final	100			10	San Joaquin
3676	Tractor	Diesel	1984	75	Non-Tier	2019	74	Tier 4 Final	200			10	San Joaquin
3677	Tractor	Diesel	1975	151	Non-Tier	2020	123	Tier 4 Final	600			10	San Joaquin
3678	Tractor	Diesel	1988	107	Non-Tier	2018	125	Tier 4 Final	600			10	Kings
3679	Tractor	Diesel	2004	92	Tier 2	2020	114	Tier 4 Final	1000			10	Kings
3680	Tractor	Diesel	2002	92	Tier 1	2020	114	Tier 4 Final	1000			10	Kings
3681	Tractor	Diesel	2005	95	Tier 2	2019	90	Tier 4 Final	900			10	Kings
3682	Tractor	Diesel	2005	95	Tier 2	2019	90	Tier 4 Final	900			10	Kings
3683	Tractor	Diesel	1996	83	Non-Tier	2016	100	Tier 4 Final	450			10	Stanislaus
3684	Tractor	Diesel	1998	100	Tier 1	2018	117	Tier 4 Final	500			10	Stanislaus
3685	Tractor	Diesel	2002	85	Tier 1	2018	100	Tier 4 Final	150			10	Stanislaus
3686	Tractor	Diesel	2001	92	Tier 1	2017	114	Tier 4 Final	1,500			10	Stanislaus
3687	Tractor	Diesel	1995	95	Non-Tier	2019	100	Tier 4 Final	400			10	Stanislaus
3688	Tractor	Diesel	1980	80	Non-Tier	2019	100	Tier 4 Final	350			10	Stanislaus
3689	Tractor	Diesel	1988	97	Non-Tier	2017	115	Tier 4 Final	250			10	Stanislaus
3690	Tractor	Diesel	1994	81	Non-Tier	2017	92	Tier 4 Final	600			10	Stanislaus
3691	Tractor	Diesel	1988	95	Non-Tier	2018	92	Tier 4 Final	600			10	Stanislaus
3692	Skid Steer Loader	Diesel	1998	105	Tier 1	2019	92	Tier 4 Final	360			10	Stanislaus
3693	Tractor	Diesel	1993	81	Non-Tier	2019	100	Tier 4 Final	400			10	Stanislaus
3694	Tractor	Diesel	2005	92	Tier 2	2019	115	Tier 4 Final	575			10	Stanislaus
3695	Backhoe Loader	Diesel	2006	78	Tier 2	2018	97	Tier 4 Final	700			10	Stanislaus
3696	Tractor	Diesel	2007	38	Tier 2	2020	45	Tier 4 Final	500			10	Fresno
3697	Tractor	Diesel	1973	76	Non-Tier	2020	90	Tier 4 Final	150			10	Madera
3698	Tractor	Diesel	1977	45	Non-Tier	2018	50	Tier 4 Final	300			10	Madera

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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)
3699	Tractor	Diesel	1992	88	Non-Tier	2019	100	Tier 4 Final	250			10	Madera
3700	Tractor	Diesel	2000	100	Tier 1	2020	120	Tier 4 Final	350			10	Madera
3701	Tractor	Diesel	2001	99	Tier 1	2019	100	Tier 4 Final	270			10	Madera
3702	Tractor	Diesel	1982	84	Non-Tier	2019	100	Tier 4 Final	250			10	Madera
3703	Tractor	Diesel	1973	120	Non-Tier	2020	115	Tier 4 Final	600			10	Madera
3704	Tractor	Diesel	2004	122	Tier 2	2020	131	Tier 4 Final	1460			10	Madera
3705	Skid Steer Loader	Diesel	2007	75	Tier 2	2019	74	Tier 4 Final	1825			10	Madera
3706	Tractor	Diesel	1975	96	Non-Tier	2020	115	Tier 4 Final	500			10	Madera
3707	Tractor	Diesel	1991	100	Non-Tier	2019	120	Tier 4 Final	300			10	Madera
3708	Tractor	Diesel	1997	78	Non-Tier	2019	90	Tier 4 Final	150			10	Merced
3709	Tractor	Diesel	1979	69	Non-Tier	2019	74	Tier 4 Final	600			10	Merced
3710	Tractor	Diesel	1977	90	Non-Tier	2019	105	Tier 4 Final	120			10	Merced
3711	Tractor	Diesel	2000	98	Tier 1	2019	101	Tier 4 Final	200			10	Tulare
3712	Tractor	Diesel	1965	41	Non-Tier	2019	49	Tier 4 Final	300			10	Tulare
3713	Tractor	Diesel	1968	66	Non-Tier	2019	72	Tier 4 Final	70			10	Tulare
3714	Tractor	Diesel	1979	77	Non-Tier	2019	66	Tier 4 Final	1100			10	Tulare
3715	Tractor	Diesel	1996	49	Non-Tier	2019	57	Tier 4 Final	300			10	Tulare
3716	Tractor	Diesel	2002	101	Tier 1	2020	125	Tier 4 Final	300			10	Tulare
3717	Tractor	Diesel	1988	60	Non-Tier	2020	73	Tier 4 Final	300			10	Tulare
3718	Tractor	Diesel	1993	186	Non-Tier	2018	175	Tier 4 Final	1,200			10	Tulare
3719	Tractor	Diesel	1984	63	Non-Tier	2019	70	Tier 4 Final	320			10	Tulare
3720	Tractor	Diesel	1984	98	Non-Tier	2018	90	Tier 4 Final	1200			10	San Joaquin
3721	Tractor	Diesel	1996	88	Non-Tier	2019	105	Tier 4 Final	800			10	San Joaquin
3722	Tractor	Diesel	1984	127	Non-Tier	2019	115	Tier 4 Final	250			10	San Joaquin
3723	Tractor	Diesel	1965	52	Non-Tier	2019	64	Tier 4 Final	500			10	San Joaquin
3724	Tractor	Diesel	1979	38	Non-Tier	2019	40	Tier 4 Final	400			10	Stanislaus
3725	Tractor	Diesel	2000	92	Tier 1	2018	114	Tier 4 Final	700			10	Stanislaus
3726	Tractor	Diesel	1975	55	Non-Tier	2020	67	Tier 4 Final	250			10	San Joaquin
3727	Tractor	Diesel	1978	216	Non-Tier	2019	250	Tier 4 Final	600			10	San Joaquin
3728	Tractor	Diesel	1984	98	Non-Tier	2019	90	Tier 4 Final	1200			10	San Joaquin
3729	Tractor	Diesel	1991	60	Non-Tier	2020	75	Tier 4 Final	100			10	San Joaquin
3730	Tractor	Diesel	1982	49	Non-Tier	2020	40	Tier 4 Final	350			10	San Joaquin
3731	Tractor	Diesel	1974	58	Non-Tier	2019	38	Tier 4 Final	200			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)
3732	Tractor	Diesel	1977	97	Non-Tier	2018	106	Tier 4 Final	650			10	San Joaquin
3733	Tractor	Diesel	1984	67	Non-Tier	2018	80	Tier 4 Final	400			10	San Joaquin
3734	Tractor	Diesel	1973	43	Non-Tier	2019	49	Tier 4 Final	450			10	San Joaquin
3735	Tractor	Diesel	2003	255	Tier 2	2020	310	Tier 4 Final	700			10	San Joaquin
3736	Tractor	Diesel	1997	260	Tier 1	2020	250	Tier 4 Final	500			10	San Joaquin
3737	Tractor	Diesel	2004	477	Tier 2	2020	575	Tier 4 Final	3,500			10	San Joaquin
3738	Tractor	Diesel	1960	61	Non-Tier	2019	55	Tier 4 Final	3000			10	San Joaquin
3739	Tractor	Diesel	1964	54	Non-Tier	2020	56	Tier 4 Final	300			10	San Joaquin
3740	Tractor	Diesel	1982	216	Non-Tier	2019	270	Tier 4 Final	700			10	San Joaquin
3741	Tractor	Diesel	2004	90	Tier 2	2019	114	Tier 4 Final	500			10	Stanislaus
3742	Tractor	Diesel	2004	92	Tier 2	2019	106	Tier 4 Final	135			10	Stanislaus
3743	Loader	Diesel	1997	90	Non-Tier	2020	75	Tier 4 Final	1000			10	Stanislaus
3744	Tractor	Diesel	1960	47	Non-Tier	2020	58	Tier 4 Final	120			10	Stanislaus
3745	Tractor	Diesel	1977	98	Non-Tier	2019	115	Tier 4 Final	750			10	Stanislaus
3746	Tractor	Diesel	2003	42	Tier 2	2019	105	Tier 4 Final	450			10	Stanislaus
3747	Tractor	Diesel	1975	58	Non-Tier	2020	66	Tier 4 Final	150			10	Stanislaus
3748	Sweeper	Diesel	1991	80	Non-Tier	2020	74	Tier 4 Final	400			10	Stanislaus
3749	Tractor	Diesel	1991	88	Non-Tier	2019	105	Tier 4 Final	500			10	Stanislaus
3750	Tractor	Diesel	1992	97	Non-Tier	2019	114	Tier 4 Final	200			10	Stanislaus
3751	Tractor	Diesel	1987	54	Non-Tier	2020	66	Tier 4 Final	1000			10	Stanislaus
3752	Tractor	Diesel	1999	97	Tier 1	2020	115	Tier 4 Final	250			10	Stanislaus
3753	Tractor	Diesel	1981	56	Non-Tier	2018	45	Tier 4 Final	200			10	Stanislaus
3754	Tractor	Diesel	1988	84	Non-Tier	2020	100	Tier 4 Final	200			10	Stanislaus
3755	Tractor	Diesel	1976	80	Non-Tier	2020	74	Tier 4 Final	500			10	Stanislaus
3756	Tractor	Diesel	1986	46	Non-Tier	2019	53	Tier 4 Final	400			10	Fresno
3757	Tractor	Diesel	1968	105	Non-Tier	2019	113	Tier 4 Final	400			10	Fresno
3758	Tractor	Diesel	1997	35	Non-Tier	2018	39	Tier 4 Final	400			10	Fresno
3759	Tractor	Diesel	1974	45	Non-Tier	2019	53	Tier 4 Final	250			10	Fresno
3760	Tractor	Diesel	1980	98	Non-Tier	2020	105	Tier 4 Final	200			10	Fresno
3761	Tractor	Diesel	1966	45	Non-Tier	2018	50	Tier 4 Final	1050			10	Tulare
3762	Tractor	Diesel	1975	47	Non-Tier	2019	58	Tier 4 Final	500			10	San Joaquin
3763	Tractor	Diesel	1988	139	Non-Tier	2020	123	Tier 4 Final	600			10	San Joaquin
3765	Shuttle	Diesel	1985	120	Non-Tier	2020	142	Tier 4 Final	900			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)
3766	Tractor	Diesel	1982	78	Non-Tier	2019	71	Tier 4 Final	2000			10	Fresno
3767	Tractor	Diesel	1992	62	Non-Tier	2019	74	Tier 4 Final	50			10	Fresno
3768	Tractor	Diesel	1993	96	Non-Tier	2020	106	Tier 4 Final	2000			10	Tulare
3769	Tractor	Diesel	1999	110	Tier 1	2017	98	Tier 4 Final	1,200			10	Fresno
3770	Tractor	Diesel	1990	105	Non-Tier	2020	114	Tier 4 Final	1500			10	Fresno
3771	Tractor	Diesel	1978	97	Non-Tier	2020	100	Tier 4 Final	600			10	Fresno
3772	Tractor	Diesel	1984	78	Non-Tier	2019	80	Tier 4 Final	500			10	Tulare
3773	Tractor	Diesel	2003	96	Tier 1	2020	115	Tier 4 Final	500			10	Tulare
3774	Tractor	Diesel	1979	72	Non-Tier	2020	62	Tier 4 Final	400			10	Tulare
3775	Tractor	Diesel	1982	98	Non-Tier	2020	115	Tier 4 Final	720			10	Madera
3776	Tractor	Diesel	1978	84	Non-Tier	2019	100	Tier 4 Final	1000			10	Madera
3777	Tractor	Diesel	2002	114	Tier 1	2020	125	Tier 4 Final	250			10	Madera

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