

Priority Climate Action Plan (PCAP)

March 1, 2024

POLICY

Washington State Department of Commerce has partnered with the following individuals to produce this Priority Climate Action Plan (PCAP) to support investment in policies, practices, and technologies that reduce pollutant emissions, create high-quality jobs, spur economic growth, and enhance the quality of life for all Washingtonians. We thank you for your time, expertise, and commitment to climate action planning in Washington.

Acknowledgments

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Coordination and outreach

In the development of this PCAP, Washington collaborated with various tribal governments, state and local governments, and representatives of the entities, groups, and individuals who may be impacted by implementation of this PCAP. These included, without limitation:

- Tribal governments
- Other state agencies
- Metropolitan planning organizations
- Economic development organizations
- Environmental advocates
- Industrial associations
- Automotive associations
- Utilities
- Agricultural associations
- Waste management organizations
- Industrial organizations
- Consumer advocates
- Local elected officials
- Community-based organizations
- Chambers of commerce
- Residents of Washington state
- Other interested organizations

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Key Terms, Abbreviations, Acronyms and Definitions

Climate: the "average weather" generally over a period of three decades. Measures of climate include temperature, precipitation, and wind.

Climate change: any significant change in measures of climate (such as temperature, precipitation, or wind) lasting for an extended period of time (decades or longer). Climate change may result from natural factors and processes and from human activities that change the atmosphere's composition and land surface.

Climate Pollution Reduction Grant (CRPG): one of many federal funding opportunities created through the Inflation Reduction Act (IRA) and run through the U.S. Environmental Protection Agency (EPA). This program provides grants to states, local governments, tribes, and territories to develop and implement plans for reducing greenhouse gas (GHG) emissions and other harmful air pollution.

Commerce: The Washington State Department of Commerce.

Comprehensive Climate Action Plan (CCAP): a narrative report that provides an overview of the grantees' significant GHG sources/sinks and sectors, establishes near-term and long-term GHG emission reduction goals, and provides strategies and identifies measures that address the highest priority sectors to help the grantees meet those goals.

Environmental Justice (EJ): according to RCW 70A.02.010 (8) means the fair treatment and meaningful involvement of all people regardless of race, color, national origin, or income with respect to the development, implementation, and enforcement of environmental laws, rules, and policies. Environmental justice includes addressing disproportionate environmental and health impacts in all laws, rules, and policies with environmental impacts by prioritizing vulnerable populations and overburdened communities, the equitable distribution of resources and benefits, and eliminating harm.

Ecology: The Washington State Department of Ecology.

Global warming: average increase in the temperature of the atmosphere, which can contribute to changes in global climate patterns. Global warming can occur from a variety of causes, both natural and human induced.

Greenhouse gas (GHG): any gas that absorbs infrared radiation in the atmosphere; examples include carbon dioxide, methane, nitrous oxide, ozone, and water vapor.

Low-Income/Disadvantaged Community (LIDAC): communities with residents that have low incomes, limited access to resources, and disproportionate exposure to environmental or climate burdens. EPA strongly recommends CPRG grantees use the Climate and Economic Justice Screening Tool (CEJST) and the Environmental Justice Screening and Mapping Tool (EJScreen) to identify LIDACs in their communities. These tools identify LIDACs by assessing and combining indicators such as: pollution exposure, climate change risks, environmental hazards, health impacts, socioeconomic factors, and more. Terms from Washington environmental justice laws include vulnerable populations and overburdened communities.

Metropolitan Statistical Area (MSA): metropolitan statistical areas as defined by the U.S. Census 2020 MSA population.

Overburdened Community: according to <u>RCW 70A.02.010 (11)</u> means a geographic area where vulnerable populations face combined, multiple environmental harms and health impacts, and includes, but is not limited to, highly impacted communities as defined in <u>RCW 19.405.020</u>.

Priority Climate Action Plan (PCAP): a narrative report that includes a focused list of near-term, high-priority, and implementation-ready measures to reduce GHG pollution and an analysis of GHG emissions reductions.

Vulnerable Populations: according to <u>RCW 70A.02.010(14)</u> means population groups that are more likely to be at higher risk for poor health outcomes in response to environmental harms, due to: adverse socioeconomic factors, such as unemployment, high housing and transportation costs relative to income, limited access to nutritious food and adequate health care, linguistic isolation, and other factors that negatively affect health outcomes and increase vulnerability to the effects of environmental harms; and sensitivity factors, such as low birth weight and higher rates of hospitalization. Vulnerable populations includes but is not limited to: racial or ethnic minorities; low-income populations; populations disproportionately impacted by environmental harms; and populations of workers experiencing environmental harms.

WSDOT: The Washington State Department of Transportation.

Executive Summary

The State of Washington (Washington) received funding through the U.S. Environmental Protection Agency (EPA) Climate Pollution Reduction Grant (CPRG) to develop plans to reduce greenhouse gas (GHG) emissions and other harmful air pollution. The CPRG planning grant enables states, metropolitan statistical areas (MSAs), and tribal governments to develop a Priority Climate Action Plan (PCAP), followed by a Comprehensive Climate Action Plan (CCAP) and Status Report (state and MSAs only), over a four-year period through 2027. EPA requires that all PCAPs include a GHG Inventory, quantified GHG reduction measures, a Low Income and Disadvantaged Communities (LIDAC) Benefits Analysis, as well as a review of authority to implement each measure.

Washington also received funding for an MSA grant. The Puget Sound Clean Air Agency (Agency or PSCAA) is serving as the Lead Entity for the Phase 1 CPRG Planning Grant on behalf of the Seattle-Tacoma-Bellevue MSA, which covers all cities and counties in the four-county region of King, Kitsap, Pierce, and Snohomish counties. Skamania and Clark counties are included in the Portland, OR metro area MSA grant.

The Washington PCAP presents a focused list of measures to reduce GHG emissions and harmful air pollution and maximize the benefits of climate action in overburdened communities in Washington. Many of the quantified priority measures contained in this PCAP are based on existing state, local and tribal, climate and clean energy plans and programs.

The Department of Commerce (Commerce) was responsible for developing the PCAP, in partnership with the entities named in the Acknowledgements section. Commerce is aware that that are many additional priority actions for each sector that could be included in this PCAP and acknowledges that the list of priority measures included in Section 2.2 is not intended to be inclusive of all possible priority actions available to tribes, state agencies and local jurisdictions. Instead, these priority actions focus on measures for which an eligible entity is planning to seek Phase 2 CPRG funding, rather than an exhaustive list of all possible priority measures available to reduce emissions in the state. Commerce and the Washington State Department of Ecology (Ecology) will develop a comprehensive list of GHG measures in the CCAP, based on informal comments received on the PCAP, as well as existing state plans and other sources. A summary of measures that will be explored further in the CCAP can be found in Appendix C. Commerce also coordinated closely with the PSCAA, state agencies, and the Governor's Office, in the creation of the PCAP.

This PCAP was informed by, and is a continuation of, the many climate planning efforts already underway by state, regional, county, and local jurisdictions across Washington. This PCAP serves as a resource and guide for implementing near-term priority GHG reduction strategies and actions in furtherance of CPRG Phase 2 Implementation Grants for tribes, state agencies and local communities in Washington.

1. Introduction

Washington is widely recognized for its leadership in climate and environmental practices. The Climate Pollution Reduction Grant (CPRG) offers an opportunity to enhance the state's climate action goals by identifying policies, practices and technologies to reduce greenhouse gas (GHG) emissions, address environmental injustices through community-driven solutions, stimulate the economy by creating high-quality jobs, and improve air quality for all residents. The Priority Climate Action Plan (PCAP) presented here marks the initial steps toward a state Comprehensive Climate Action Plan (CCAP), scheduled to be completed by the summer of 2025. Collaboration with state and local agencies, tribes, subject matter experts, and the public has been integral to identifying priority measures that are ready for implementation in the PCAP.

This section offers an overview of the CPRG, outlines the PCAP elements, and discusses the scope and development of Washington's PCAP.

1.1 Climate Pollution Reduction Program overview

The CPRG program provides \$5 billion in grants to states, local governments, tribes, and territories to develop and implement ambitious plans for reducing GHG emissions and other harmful air pollution. Authorized under Section 60114 of the Inflation Reduction Act (IRA), this two-phase program provides \$250 million for noncompetitive planning grants, and approximately \$4.6 billion for competitive implementation grants.

Phase 1 of the CPRG program supports states, local governments, tribes, and territories regardless of where they are in their climate planning and implementation process. Planning grant recipients are using the funding to design climate action plans that incorporate a variety of measures to reduce GHG emissions from across their economies in six key sectors (electricity generation, industry, transportation, buildings, agriculture/natural and working lands, and waste management). The required deliverables include:

- 1. Priority Climate Action Plan (PCAP): due March 1, 2024
- 2. Comprehensive Climate Action Plan (CCAP): due Summer 2025
- 3. Status Report: due mid 2027

1.2 PCAP Overview

The Washington PCAP is focused on near-term, high-priority, implementation-ready measures to reduce GHG pollution and an analysis of GHG emissions reduction that could be achieved by 2030. The PCAP is not a comprehensive approach to Washington's GHG reduction strategy; that strategy will be addressed in the CCAP.

This PCAP is organized into the following sections according to the requirements from EPA:

- 1. Introduction
- 2. PCAP Elements
 - a. Greenhouse Gas Inventory
 - b. Greenhouse Gas Reduction Measures
 - c. Low Income Disadvantaged Communities Benefits Analysis (including Community Engagement)
 - d. Workforce Planning Analysis
- 3. Next Steps: Comprehensive Climate Action Plan

1.3 Scope of the PCAP

Washington's PCAP includes a list of GHG reduction measures collected from existing state plans and programs, identified as priority measures for the purposes of pursuing funding through CPRG implementation grants. These measures are not exhaustive of Washington's priorities; instead, these listed measures meet specific criteria, including:

- The measure is implementation ready: the design work for the policy, program, or project is complete
 enough that a full scope of work and budget can be included in a CPRG implementation grant
 application.
- The measure can be completed in the near term: all funds will be expended, and the project completed, within the five-year performance period for the CPRG implementation grants.
- The measure advances state greenhouse gas (GHG) reduction mandates in RCW 70A.45.020.

Public feedback on these measures was gathered through a survey from December 19, 2023 through January 12, 2024. For further details on GHG measures that were provided through public feedback, but not used in this PCAP, refer to Appendix C.

Details on Washington's authority for reducing GHG emissions related to these measures can be found in specific statewide laws, including:

- Statutory Emissions Limits
- Clean Energy Transformation Act
- Motor Vehicle Emission Standards
- Climate Commitment Act
- Healthy Environment for All (HEAL) Act
- Clean Fuel Standard
- Hydrofluorocarbons (HFC) Emission Reductions
- Move Ahead Washington
- Amending the Growth Management Act to address climate change and GHG emissions reductions

1.4 Approach to developing the PCAP

Initial GHG reduction measures were identified by surveying existing plans, laws, resources, and projects. Collaboration with state agencies, local governments, subject matter experts, tribes, and the public narrowed down the list to priority implementation-ready measures. The draft priority measures received public input, input from the Governor's office and other key state stakeholders and deeper collaboration with contributors to ensure competitiveness for EPA's Phase 2 CPRG Implementation Grant General Competition provides more information on requirements.

1.5 State climate policies

Washington has an extensive body of legislative support and statewide strategies to mitigate and respond to climate change:

In 2020, the Washington Legislature set <u>new GHG emission limits</u> (RCW 70A.45.020) in order to combat climate change. Under the law, the state is required to reduce emissions levels:

- O 2030: 45% below 1990 levels
- 2040: 70% below 1990 levels
- 2050: 95% below 1990 levels and achieve net zero emissions

Meeting these limits will be achieved through the following laws and programs:

On May 7, 2019, Governor Jay Inslee signed into law the <u>Clean Energy Transformation Act (CETA)</u> (Chapter 299, laws of 2019), which requires Washington's electric utilities to eliminate carbon emissions from their energy resources. CETA requires that all electric utilities eliminate coal-fired generation serving Washington state customers by the end of 2025, be GHG neutral by 2030, and generate 100% of their power from renewable or zero-carbon resources by 2045. This law helped set Washington on the road to becoming a national leader in climate action policies.

In 2020, the Legislature passed the <u>Motor Vehicle Emission Standards</u> directing Washington to adopt California's vehicle emission standards. This includes new requirements to gradually increase the number of new zero-emission vehicles (ZEV) sold in Washington, until all new vehicles meet the ZEV standard starting in 2035. In 2021, the Legislature adopted new zero-emission and low-emission vehicle standards which will take effect in 2024, with the release of model year 2025 vehicles.

The <u>Climate Commitment Act (CCA)</u> (Chapter 310, Laws of 2021) caps and reduces GHG emissions from Washington's largest emitting sources and industries, allowing businesses to find the most efficient path to lower carbon emissions. This program works alongside other critical climate laws and policies to help Washington achieve its commitment to reducing GHG emissions by 95% by 2050. The CCA also puts environmental justice and equity at the center of climate policy, making sure communities that bear the greatest burdens from air pollution today breathe cleaner, healthier air as the state cuts GHGs. Finally, funds from the auction of emission allowances support new investments in climate-resiliency programs, fund clean transportation, and address health disparities across the state.

The passage of the <u>Healthy Environment for All (HEAL) Act</u> (Chapter 314, Laws of 2021) was a groundbreaking step toward eliminating environmental and health disparities among communities of color and low-income households. It is the first statewide law in Washington to create a coordinated state agency approach to environmental justice. The law requires Commerce and the state departments of Agriculture, Ecology, Health, Natural Resources, and Transportation, and the Puget Sound Partnership to identify and address environmental health disparities in overburdened communities and for vulnerable populations.

In 2021, the Legislature also adopted the <u>Clean Fuel Standard</u> (Chapter 317, Laws of 2021) a law requiring fuel suppliers to gradually reduce the carbon intensity of transportation fuels to 20% below 2017 levels by 2034. The Clean Fuel Standard is designed to decrease the carbon intensity of Washington's transportation fuels by providing an increasing range of low-carbon and renewable alternatives that reduce dependency on petroleum and improve air quality.

Also in 2021, the Legislature passed the Hydrofluorocarbons (HFC) Emissions Reduction Law (<u>Chapter 70A.60 RCW</u>), which bans the sale and purchase of certain HFC refrigerants with high-global-warming potential. <u>The law requires Ecology</u> to establish maximum global warming potential (GWP) thresholds for new stationary refrigeration and air conditioning equipment sold in Washington and to establish <u>a refrigerant management program</u> to reduce HFC leakage.

<u>In 2022, Washington enacted Move Ahead WA</u>, a transformational 16-year package that creates a sustainable, achievable future for our transportation sector. The \$3 billion funding package adds support to existing programs and creates new programs to reduce climate pollution, create jobs and improve public health.

In 2023, the Legislature signed a law (<u>HB 1181</u>) that adds a climate goal to the Growth Management Act (GMA, <u>Chapter 36.70A RCW</u>) and requires local comprehensive plans to have a climate element with resilience and greenhouse gas emissions mitigation sub-elements.

- The resilience sub-element must include goals and polices to improve climate preparedness, response and recovery efforts. This is mandatory for all counties and cities fully planning under the GMA and encouraged for others.
- The greenhouse gas emissions sub-element must include goals and policies to reduce emissions and vehicle miles traveled. This sub-element is mandatory for the state's 11 largest counties and the cities within those counties.
- Climate elements must maximize economic, environmental, and social co-benefits and prioritize environmental justice in order to avoid worsening environmental health disparities.

In addition to legislation, Washington has been directed by the Legislature to develop extensive plans to implement these laws and emissions limits. The following plans were used to develop the PCAP, including:

- Washington State Energy Strategy
- Transportation Electrification Strategy
- Washington State Transportation Carbon Reduction Strategy
- Use Food Well Washington Plan
- Refrigerant Management Program
- Washington Ferry Electrification Plan
- Green Transportation Capital grant program
- Washington State Active Transportation Plan

The <u>2021 State Energy Strategy</u> is designed to provide a roadmap for meeting the state's GHG emission limits by using a "deep decarbonization pathway" analysis, which searches for the lowest cost path to reduce emissions based on known technologies, costs, and markets. The strategy is required to be updated every seven years and includes a Biennial Energy Report to track progress.

In 2022, the Legislature passed Move Ahead Washington, a 16-year transportation package that supports mode shift, electrification of major transportation modes, and reductions in vehicle miles traveled (VMT) along with associated emissions. It also established the <u>Interagency Electric Vehicle Coordinating Council (EV Council)</u> and a non-binding statewide target of reaching 100 percent new electric passenger vehicle sales by 2030. In 2023, the EV Council adopted the Washington <u>Transportation Electrification Strategy</u> (TES), which outlines policy recommendations and implementation timelines for meeting the state's clean transportation objectives.

In November 2023, WSDOT submitted the <u>Washington State Transportation Carbon Reduction Strategy</u> to the Federal Highway Administration. This strategy is required for the state to receive federal Carbon Reduction Program funds and builds on the SES by focusing on two ways to reduce transportation GHG emissions: move people and goods more efficiently and equitably and electrify vehicles and switch to low carbon fuels.

In February 2022, Ecology delivered the <u>Use Food Well Washington (UFWW) plan</u>, which is a roadmap to reduce food waste by 50% by 2030 and includes a strong plan to measure and track progress on this legislative requirement. The UFWW plan also guides the work of the <u>Washington Center for Sustainable Food Management</u>, which launched in January 2024.

In December 2023, Ecology initiated the <u>Refrigerant Management Program (RMP)</u>, which requires facilities with refrigeration and air conditioning systems containing more than 50 pounds of refrigerant with a global warming potential GWP of 150 or more to conduct and report periodic leak inspections, promptly repair leaks, and keep service records on site.

The <u>Washington Ferry Electrification Plan</u> is a pathway for Washington State Ferries (WSF) to convert the state ferry system, the largest in the country, to hybrid-electric power by 2040 following mandates from the Washington legislature and Governor. The <u>Green Transportation Capital grants</u> provide funding to transit agencies for cost-effective capital projects that reduce the carbon intensity of the Washington transportation system. The larger WSDOT agency approach to active transportation on and across state highways is guided by the <u>Active Transportation Plan 2020 and Beyond</u>.

2. PCAP elements

2.1 Greenhouse Gas (GHG) Inventory

By law, Washington publishes its GHG emissions inventory every two years (RCW 70A.45.020(2)). The current inventory, published in 2022, included data from 1990-2019. The data used in the inventory is derived primarily from EPA's State Inventory Tool (SIT) and incorporates the most current EPA data available at the time the report is due. For the December 2022 publication, the most current EPA data available was through 2019. The inventory will be published again in December 2024 and is expected to include EPA data through 2021.

Washington does not presently generate emissions projections or uncertainties in addition to what EPA provides; however, the state plans to expand the GHG inventory team and incorporate non-EPA, state-specific data in the future. In the coming years, the state GHG inventory should more accurately reflect the emissions impacts of state climate policies.

Standard emissions accounting guidelines use production-based emissions, which are emissions occurring within state boundaries. However, Washington's official inventory departs from the production-based approach utilized in the SIT in the state's electricity sector, which reports the electricity consumed in state, as well as emissions associated with electricity production. To make this substitution, in-state electric power generation emissions are replaced with Fuel Mix Disclosure program data provided by Commerce. Washington also utilized data from the Washington State Department of Natural Resources to supplement SIT data on emissions from wildfires.

The Washington GHG inventory includes the following sectors and gases:

Sectors	Greenhouse Gases (across all sectors)
 Electricity generation and/or use Residential, Commercial and Industrial Energy Use Transportation Fossil Fuel Industry Industrial Process Waste and materials management Agriculture Natural and working lands 	 carbon dioxide (CO₂), methane (CH₄), nitrous oxide (N₂O), fluorinated gases (F-gases) including hydrofluorocarbons (HFCs), perfluorocarbons (PFCs), sulfur hexafluoride (SF₆), and nitrogen trifluoride (NF₃)

Below, Tables 1 and 2 detail GHG emissions in million metric tons (MMT) of carbon dioxide equivalents (CO2e) for all economic sectors. Figure 1 displays Washington's emissions data by sector across the three decades. Totals may not sum due to independent rounding.

Table 1. Washington GHG emissions in MMT CO₂e by Sector

Sector	1990	2000	2010	2015	2016	2017	2018	2019
Electricity, net consumption-based	16.9	23.3	20.9	19.2	17.1	16.9	16.5	21.9
Coal	16.8	17.4	15.8	14.0	12.5	12.4	11.7	15.2
Natural gas	0.1	5.3	4.8	4.9	4.3	4.1	4.5	6.2
Petroleum	0.0	0.6	0.1	0.1	0.1	0.1	0.0	0.0
Biomass and waste (CH ₄ and N ₂ O)	0.0	0.0	0.1	0.2	0.3	0.3	0.3	0.4
Residential, Commercial, and Industrial (RCI)	25.3	28.9	23.5	23.8	24.3	25.0	24.8	25.3
Coal	0.6	0.3	0.3	0.2	0.2	0.1	0.1	0.1
Natural gas	8.6	11.4	10.8	11.2	11.8	13.2	12.5	13.2
Oil	16.1	17.3	12.4	12.5	12.3	11.6	12.1	12.0
Wood (CH ₄ and N ₂ O)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Transportation	35.5	41.9	35.2	36.5	38.9	38.6	39.2	40.3
Gasoline (Hwy)	15.6	19.8	16.1	15.5	15.3	16.1	17.0	16.9
Non-Highway	16.6	16.7	11.8	14.1	17.7	16.4	15.4	16.7
Diesel (Hwy)	3.4	5.4	7.3	6.9	5.9	6.2	6.9	6.6
Alternative Fuel Vehicles	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.02
Fossil fuel industry	0.8	0.8	0.7	0.7	0.7	0.7	0.7	0.7
Natural gas industry (CH ₄)	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
Coal mining (CH ₄)	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0
Oil industry (CH ₄)	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0
Industrial processes	4.9	6.5	4.7	5.0	5.0	5.0	5.1	5.3
Carbon Dioxide Emissions	2.2	3.3	1.4	1.3	1.2	1.1	1.2	1.3

Sector	1990	2000	2010	2015	2016	2017	2018	2019
Cement Manufacture	0.0	0.4	0.3	0.3	0.4	0.4	0.4	0.4
Lime Manufacture	0.0	0.1	0.1	0.1	0.0	0.1	0.0	0.1
Limestone and Dolomite Use	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Soda Ash	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0
Aluminum Production, CO ₂	2.0	1.7	0.5	0.4	0.2	0.2	0.2	0.3
Iron & Steel Production	0.0	0.8	0.3	0.3	0.3	0.3	0.3	0.3
Ammonia Production	0.1	0.1	0.1	0.2	0.1	0.1	0.2	0.2
Urea Consumption	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Nitrous Oxide Emissions	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Nitric Acid Production	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Adipic Acid Production	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HFC, PFC, NF ₃ , and SF ₆ Emissions	2.7	3.2	3.3	3.7	3.8	3.9	3.9	4.0
ODS Substitutes	0.0	1.1	2.3	2.9	2.9	3.0	3.0	3.2
Semiconductor Manufacturing	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Magnesium Production	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Electric Power Transmission and Distribution Systems	0.8	0.4	0.1	0.1	0.1	0.1	0.1	0.1
HCFC-22 Production	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Aluminum Production, PFCs	1.9	1.7	0.8	0.7	0.7	0.7	0.7	0.7
Waste management	3.1	2.9	3.5	2.4	2.4	2.5	2.4	2.4
Solid waste management	2.6	2.2	2.7	1.6	1.6	1.6	1.5	1.6
Wastewater management	0.6	0.7	0.8	0.8	0.8	0.8	0.9	0.9
Agriculture	6.9	6.7	6.5	7.0	6.8	6.7	6.8	6.2
Enteric fermentation	2.7	2.7	2.4	2.6	2.6	2.6	2.7	2.7
Manure management	0.9	1.2	1.3	1.5	1.5	1.5	1.5	1.5
Agriculture soils	3.3	2.8	2.9	2.9	2.6	2.6	2.7	2.1
Total gross emissions	93.5	111.0	95.0	94.6	95.1	95.3	95.5	102.1

Table 2. Washington Natural and Working Lands Net CO_2 Flux (Carbon Stock Change, MMT CO_2 e)

Land-Use Category	1990	2005	2015	2016	2017	2018	2019
Forest Land Remaining Forest Land	(10.3)	(15.2)	(19.1)	(18.7)	(18.2)	(17.8)	(17.3)

Land-Use Category	1990	2005	2015	2016	2017	2018	2019
Changes in Forest Carbon Stocks ¹	(10.3)	(15.2)	(19.1)	(18.7)	(18.2)	(17.8)	(17.3)
Land Converted to Forest Land	(3.0)	(3.0)	(3.0)	(3.0)	(3.0)	(3.0)	(3.0)
Changes in Forest Carbon Stocks ²	(3.0)	(3.0)	(3.0)	(3.0)	(3.0)	(3.0)	(3.0)
Cropland Remaining Cropland	(0.5)	(0.3)	(0.4)	(0.7)	(0.7)	(0.6)	(0.6)
Changes in Soil Carbon Stocks	(0.5)	(0.3)	(0.4)	(0.7)	(0.7)	(0.6)	(0.6)
Land Converted to Cropland	0.5	0.6	0.7	0.6	0.6	0.6	0.6
Changes in Ecosystem Carbon Stocks ³	0.5	0.6	0.7	0.6	0.6	0.6	0.6
Grassland Remaining Grassland	(0.0)	0.1	0.3	0.2	0.2	0.2	0.2
Changes in Ecosystem Carbon Stocks	(0.0)	0.1	0.3	0.2	0.2	0.2	0.2
Land Converted to Grassland	0.2	(0.0)	0.3	0.1	0.1	0.1	0.1
Changes in Ecosystem Carbon Stocks ⁴	0.2	(0.0)	0.3	0.1	0.1	0.1	0.1
Wetlands Remaining Wetlands	(0.1)	(0.1)	(0.1)	(0.1)	(0.1)	(0.1)	(0.1)
Changes in Organic Soil Carbon Stocks in Peatlands	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Changes in Ecosystem Carbon Stocks in Coastal Wetlands	(0.1)	(0.1)	(0.1)	(0.1)	(0.1)	(0.1)	(0.1)
Land Converted to Wetlands	0.0	0.0	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)
Changes in Ecosystem Carbon Stocks ⁵	0.00	0.00	(0.00)	(0.00)	(0.00)	(0.00)	(0.01)
Settlements Remaining Settlements	(2.6)	(2.7)	(2.9)	(2.9)	(2.9)	(2.9)	(2.9)
Changes in Organic Soil Carbon Stocks	0	0	0	0	0	0	0
Changes in Settlement Tree Biomass Carbon Stocks ⁶	(2.2)	(2.6)	(2.9)	(2.8)	(2.8)	(2.8)	(2.8)
Changes in Yard Trimmings and Food Scrap Carbon Stocks in Landfills	(0.5)	(0.2)	(0.2)	(0.2)	(0.2)	(0.2)	(0.2)
Land Converted to Settlements	2	2	2	2	2	2	2
Changes in Ecosystem Carbon Stocks	2	2	2	2	2	2	2
Land Use, Land Use Change, Forestry (LULUCF) Net CO ₂ Flux	(13.8)	(18.2)	(21.8)	(22.0)	(21.6)	(21.1)	(20.6)

¹ Includes the net changes to carbon stocks stored in all forest ecosystem pools. Harvested wood products are not estimated in the SIT at this time. This includes the net CO₂ flux from drained organic soils in both Forest Land Remaining Forest Land and Land Converted to Forest Land.

² Includes the net changes to carbon stocks stored in all forest ecosystem pools, but emissions from drained organic soils are included in the flux from Forest Land Remaining Forest Land because it is not possible to separate the activity data at this time.

³ Includes changes in mineral and organic soils from all lands converted to Croplands/Grasslands, and the above- and below-ground biomass, dead wood, and litter from Forest Lands Converted to Croplands/Grasslands.

⁴ Includes changes in mineral and organic soils from all lands converted to Croplands/Grasslands, and the above- and below-ground biomass, dead wood, and litter from Forest Lands Converted to Croplands/Grasslands.

⁵ Includes carbon stock changes for land converted to vegetated coastal wetlands.

⁶ Includes Lands Converted to Settlements.

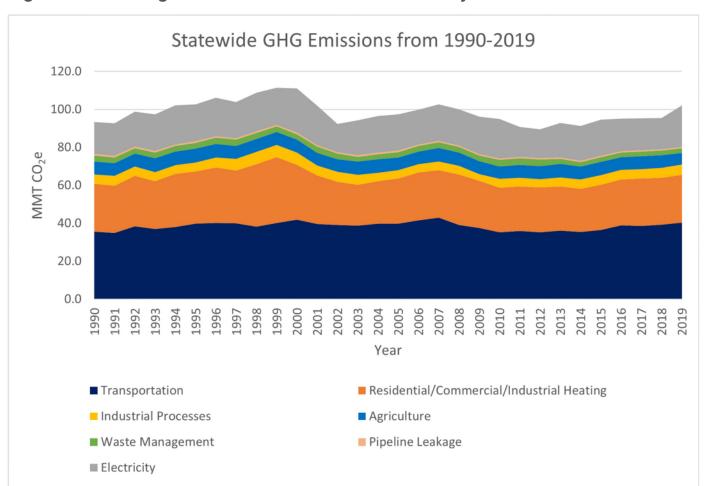


Figure 1. Washington GHG emissions in MMT CO₂e by Sector

As the above <u>inventory</u> data demonstrates, total statewide emissions have held relatively steady in recent decades, despite significant economic and population growth. Washington has made notable progress in reducing its carbon intensity as measured in terms of emissions per capita or per economic output (Gross Domestic Product or GDP). Relative to 2005, the metric tons of CO_2e per million dollars of GDP declined 51 percent and the CO_2e per capita has declined 15 percent. The transportation sector, however, remains the largest source of emissions in the state at 40.3 MMT CO_2e in 2019. This is 4.8 MMT CO_2e increase over the 1990 baseline and a 2.8% increase over 2018 emissions for this sector.

These measurements clearly articulate the need to continue reducing GHG emissions in Washington, particularly in the transportation sector. Funding from federal programs such as the CPRG will be a critical factor in the ability to deploy effective GHG reduction measures and work toward the state's goal of net zero emissions.

2.2 GHG reduction measures

Table 3 is a list of Washington's PCAP priority measures. These measures were collected from existing state and local plans and programs and identified as priority measures for the purposes of pursuing funding through CPRG implementation grants. Each measure is explained in detail following Table 3.

This is not an exhaustive list of Washington's priorities. Instead, the selected priority measures included in this PCAP meet the following criteria:

- They are implementation ready; the design work for the policy, program, or project is complete enough that a full scope of work and budget can be included in a CPRG implementation grant application.
- They can be completed in the near term; all funds could be expended, and the project completed, within the five-year performance period for the CPRG implementation grants.
- They advance state GHG reduction mandates in RCW 70A.45.020.7

Feedback on these measures was provided through a public survey that was open December 19, 2023 through January 12, 2024. The CCAP will provide a holistic pathway analysis of the full suite of cost-effective measures to achieve the state's 2050 GHG emission limits. For further details on GHG measures that were provided through public feedback and will be used as a starting point of the CCAP, refer to Appendix C.

Additional details of Washington plans for reducing GHG emissions related to these measures can be found in the state laws and plans listed in Section 1.

Table 3. Washington Priority GHG Reduction Measures

Index	Sector	Priority Measure	Implementing Agency or Agencies
2.2.1.	Buildings	Refrigerant reduction	Washington State Department of Ecology
2.2.2.	Buildings	Decarbonizing campus energy systems	Higher education Local agencies School districts Tribes Utilities
2.2.3.	Waste, water, and sustainable materials management	Organics management	Washington State Department of Ecology
2.2.4.	Transportation	Scrap and replace fossil fuel powered commercial vehicles	Washington State Department of Ecology
2.2.5.	Transportation	Marine terminal electrification	Washington State Department of Transportation
2.2.6.	Transportation	Complete streets	Washington State Department of Transportation
2.2.7.	Transportation	Reduce emissions of fleets for rural and special needs transit	Washington State Department of Transportation
2.2.8.	Transportation	Enable decarbonization of rail infrastructure	Local agencies Tribes Ports
2.2.9.	Transportation	Electrify municipal and tribal fleets including expansion of electric vehicle charging	Local agencies Tribes

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⁷ Of note, the GHG emissions reductions stated in each of the following measures are estimates based on available data, which may be subject to revisions or updates as needed

Index	Sector	Priority Measure	Implementing Agency or Agencies
2.2.10.	Transportation	Mode shift from trucking to water transportation to reduce vehicles miles travelled	Local agencies Tribes Ports
2.2.11.	Electric power	Support tribal energy sovereignty through Tribal Clean Energy grants	Washington State Department of Commerce
2.2.12.	Agriculture	Fund anaerobic digesters	Washington State Conservation Commission Washington State Department of Commerce Tribes Local agencies School districts

Buildings sector

2.2.1 Refrigerant reduction

Implementing entity

Washington State Department of Ecology

Description of measure

Hydrofluorocarbons (HFCs) are a type of fluorinated gas commonly used in refrigeration and air conditioning. Over recent decades, these chemical compounds gained popularity as a replacement for ozone depleting substances (ODSs) that are being phased out under the terms of the Montreal Protocol. These refrigerants are short lived climate super pollutants that can be thousands of times more potent than carbon dioxide in the atmosphere. Due to increased global demand for cooling and refrigeration, HFCs are now the fastest growing category of GHG emissions in the world and are having a disproportionate impact on the climate crisis.

Nationwide, the average grocery store refrigeration system leaks approximately 25% of its refrigerant each year; these systems can have an operational life span longer than 20 years. This measure would support the conversion of medium and small grocery stores away from high-global warming potential (GWP)⁸ refrigerants and would be targeted to small businesses and stores serving low-income communities with limited access to groceries and which may face high compliance costs. This program could serve as a catalyst to transform market adoption to these low GWP technologies in WA and would provide higher market value for these technologies allowing for a scalable transformation from the old to new, cleaner, technologies. Success of this program could encourage acceleration through program growth and future funding from Ecology's Refrigerant Management Program (RMP) and the Climate Commitment Act (CCA).

Estimate of the quantifiable GHG emissions reductions and quantitative cost estimates

Table 4 estimates of average HFC emissions for common commercial refrigerant systems of differing sizes, displaying the significant effects refrigerant emissions reduction could have on GHG emissions.

⁸ Global warming potential compares a climate pollutant relative to a similar mass of carbon dioxide (e.g. one pound of an emitted HFC with a GWP = 150 would have the same climate warming as 150 pounds of carbon dioxide emissions.)

To calculate estimated statewide emissions of refrigerant from equipment in Washington, Ecology used the IPCC's emission factor approach, following the California Air Resources Board (CARB) example. Emissions were calculated by multiplying the estimated number of units, the average charge of refrigerant in each type of unit, and the leak rate, which is the rate of refrigerant loss over a year of operation. This is the same approach used by both CARB for its GHG inventory and Ecology's RMP.

In addition to using the IPCC approach, Ecology is using a leak rate for retail food refrigeration equipment, based on CARB emission inventories of this equipment, EPA Greenchill estimates, and anecdotal evidence from stakeholders, to be 25%, and end of life refrigerant loss to be approximately 20%.

Table 4. Average HFC Emissions for Common Commercial Refrigerant Systems

System Size	Large (3,635 lb. r	efrigerant)	Medium (704 lb.)		Small (125 lb.)		
Equipment Age (year)	Cumulative refrigerant lost (lb.)*	CO ₂ e (lb.)	Cumulative refrigerant lost (lb.)*	CO ₂ e (lb.)	Cumulative refrigerant lost (lb.)*	CO ₂ e (lb.)	
5	4,209	16,508,482	819	3,213,687	145	568,690	
10	7,844	30,764,952	1,523	5,974,775	270	1,058,940	
15	11,479	45,021,422	2,227	8,735,863	395	1,549,190	
20	15,114	59,277,892	2,931	11,496,951	520	2,039,440	
* based on an a	* based on an average annual leak rate of 20% for a system using R-404a refrigerant (GWP = 3,922)						

Addressing these systems can be transformational. California's "F-gas Reduction Incentive Program" began with \$1 million in funding in 2019 that converted and helped build 15 grocery store refrigeration projects to lower GWP systems, reducing emissions of systems by 75-90%. In Washington, Ecology has estimated emissions from retail food refrigeration systems to amount to 1 million MMTCO₂e/year. There are an estimated 1,700 average sized grocery stores and another approximately 1,300 small grocery stores in Washington that use high-GWP refrigerants. The cost to fully convert an average sized grocery store amounts to around \$1 million. A \$25 million incentive program similar to that in California, providing grants from \$250,000 to \$500,000, would allow Washington to help owners convert and build low GWP refrigeration systems into approximately 70 stores. Table 5 shows the approximate reductions that this approach to the measure could achieve and represent 7% of the GHG emissions from these types of equipment in Washington.

Table 5. Cumulative GHG Reductions for Refrigeration Reduction

	Cumulative GHGs Avoided, 2025-2030 (MT CO ₂ e)	Cumulative GHGs Avoided, 2025-2050 (MT CO ₂ e)
Refrigerant Reduction	57,000	255,000

For a state program for this measure funded at \$25 million, the cost effectiveness of the GHG reductions for this priority measure is approximately $$440/MTCO_2e^9$. The impact of these investments would be immediate upon the decommissioning of the old high GWP equipment and would eliminate the future emissions entirely when replaced with ultra-low GWP technologies.

Implementation schedule, milestones, and metrics for tracking progress

This measure would be implemented through grant awards to applicants, in order to carry out refrigerant conversions to low-GWP refrigerants at grocery stores and food retailers, prioritizing stores in overburdened communities.

The implementation schedule may proceed as follows:

- Request for information (RFI): Ecology would conduct an RFI to better understand the current state of Washington grocers and retail food refrigeration, the incentives needed to transition to low-GWP refrigeration technologies, and a manageable timeframe for facilities to participate in such a program. Ecology's RMP reporting data would inform this work as well.
- Application format: The application would be developed using Ecology's Administration of Grants and Loans system. It would be simple and streamlined to improve access and reduce barriers to applicants.
- Scoring and evaluation: Scoring and evaluation criteria would prioritize the installation of refrigeration systems that contain ultra-low GWP refrigerants, i.e., with a GWP <10, as well as small businesses and grocery stores in both EPA defined low-income and disadvantaged communities (LIDACs) and state defined overburdened communities in Washington.
- Funding levels: Ecology would rely on the RFI to inform the funding amount offered per system and the technology of the potentially proposed replacement system options.
- Timing: The program would be an ongoing grant program, anticipating one application period each year for four years. Ecology anticipates opening the first round of the grant program in 2025. If CPRG funds are made available, approximately \$6 million would be available in each round for the HFC reduction incentive.

The program may proceed according to the following timeline:

- Year 1 request for information (RFI) from stakeholders in WA and program designs, which will determine outreach and community engagement strategies
- Years 2-4 grant award cycles for the replacement of approximately 70 system replacement projects in WA (~\$6 million per year, final awards in Year 4):
 - Request for proposals/grant applications
 - Determination of eligibility
 - Distribution of annual incentive grants to applicants to carry out work at recipient stores; milestone tracking begins for each project
 - Milestones of projects will be tracked including the completion of each activity: design, installation, completion; as well as semi-annual schedule updates to ensure milestones are on track with project timelines
 - Project verification

⁹ For the purposes of the Climate Pollution Reduction Grant program, EPA defines cost effectiveness as the total cost of the priority measure divided by the cumulative GHG reductions from 2025-2023: cprg-general-competition-correction.pdf (epa.gov). These are estimates based on proposed CPRG funding levels.

- Program outreach for next application cycles
- Year 5 follow up and completion of projects, review program performance and outcomes, and final reporting

Milestones

- Ecology would track design, installation, and completion of projects toward the goal of over 70 systems.
- Target the reduction of HFCs by 10,200 MTCO₂e per year
- Increase awareness of refrigeration technologies that use refrigerants with GWP <10 and further market demand of ultra-low GWP technologies already available

Metrics for measuring performance

- Number of new/replacement systems completed and total number of systems permanently removed from service
- Number of systems with GWP <10 in Washington
- Pounds of high-GWP refrigerant capacity permanently removed from service
- Outreach and community engagement (metric to be determined)

Geographic location

This measure would affect eligible refrigeration units and systems in new and existing retail food facilities across the state that currently use or would otherwise use HFCs and other fluorinated refrigerants with a GWP greater than 150. The measure would focus on EPA defined LIDACs and state defined overburdened communities.

Intersection with other funding

There is no known funding to supplement this work directly. However, EPA's <u>HFC Reclaim and Innovative</u> <u>Destruction Grants</u> could be utilized to complement the removal of high GWP refrigerants. However, Ecology would not have a role in applying for this grant due to the scope of work.

Authority to implement

In May 2021, the Governor signed HB 1050 (codified as Chapter 70A.60 RCW). The 2021 law directs Ecology to:

- Set a maximum GWP threshold for hydrofluorocarbons used in:
 - ice rinks
 - new stationary air conditioning equipment.
 - new stationary refrigeration equipment.
- Establish a refrigerant management program to address refrigerant emissions from large air conditioning and refrigeration equipment.
- Recommend to the Legislature how to manage end-of-life and disposal of refrigerants.

Starting July 25, 2021, the new law banned the sale and purchase of certain HFC refrigerants with high-GWP, as well as non-essential consumer products (e.g., air horns and noisemakers) which contain high GWP refrigerants.

2.2.2 Decarbonize campus energy systems

Implementing entity

Higher education; State and Local agencies; School districts; Tribes; Utilities

Description of measure

Universities, colleges, state and local agencies, and school districts must dramatically lower their GHG footprint to meet state goals as well as the state's building energy performance standard. For many, legacy systems, which include steam heating and natural gas boilers, are at the end of life, having become unreliable, and posing a significant life-safety risk to maintenance personnel. Buildings are often decades old and predate modern energy efficiency standards. Deferred maintenance costs impact budgets, air quality, and the ability of a campus to function efficiently.

This measure targets campus energy system decarbonization through conversion from legacy district energy systems that are heated by fossil fuel combustion to electric and renewable thermal central plant space conditioning using a variety of technologies, which may include air or ground source heat pumps, thermal storage and renewable energy resources among other clean solutions. This measure can also cover a variety of energy efficiency upgrades for buildings to reduce heating demand and lower emissions, including exhaust air heat recovery systems. Examples include heating, ventilation and air conditioning (HVAC) controls recommissioning, and upgrades that support energy efficiency through the inclusion of state-of-the-art electronic controls that can monitor building occupancy and indoor air quality and provide fresh air ventilation only when occupied. Further investments could include an all-electric approach that ties in solar panels and battery energy storage for greater resiliency and self-reliance. Modular approaches that roll out in multiple phases can accommodate expansion to new college buildings and tying in neighboring properties as they are redeveloped.

Estimate of the quantifiable GHG emissions reductions and quantitative cost estimates

In 2022, the <u>State Efficiency and Environmental Performance Office</u> published a <u>legislative report</u> recommending public agencies and institutions develop plans for replacing these systems and called for an inventory of such systems in public agencies across the state. At this time, this inventory has not been conducted; however, the following list of public entities are known to have fossil-fuel campus boiler systems:

- Seattle Central College
- Washington State Department of Health
- Central Washington University
- University of Washington
- Washington State University
- Western Washington University

Every system will have vastly different assumptions for GHG reductions based on the specific upgrades being made and the legacy system being replaced.

To illustrate the impact and assumptions of this measure, figures have been provided from two use cases: (1) Seattle Central College (SCC) plans to construct an EcoDistrict as part of the college's decarbonization plans and (2) Western Washington University (WWU) plans to expand exhaust air heat recovery and HVAC controls.

Seattle Central College

Seattle Central College (SCC) is taking an all-electric solution, which uses the <u>Washington Department of Enterprise Service's (DES) Energy Savings Performance Contracting program model</u>. SCC contracted through DES with a DES-approved energy services company (ESCO), McKinstry, to analyze all the available technologies and come back with a design, modeled performance and estimated GHG reduction based on published emission data from SCC's utility providers and CenTrio Energy, the college's current steam provider.

SCC's approach to this measure includes two buildings, which if CPRG funds are made available, could be updated three years earlier than planned. This updated timing increases the total GHG savings and is responsive to new City of Seattle Building Performance Standard regulations, which have accelerated the need to expand the EcoDistrict scope.

SCC would replace its use of fossil-fueled steam heating with an all-electric, heat pump based, low carbon impact heating and cooling system to serve its Broadway campus buildings. This conversion would dramatically lower GHG emissions by more than 3 million lbs (1,387 MTCO₂e) per year as well as adding redundancy and resiliency and lowering maintenance, operating, and utility costs. The EcoDistrict is an example of a shovel-ready project to implement this measure and would provide up to a 90% reduction in the college's carbon footprint.

Table 6. Cumulative GHG Reductions for SCC District Energy System Decarbonization

Measure or Project		Cumulative GHGs Avoided 2025-2050 (MTCO₂e)
Seattle Central College EcoDistrict	7,000	35,000

The financial impact of addressing these systems is substantial. For SCC, the upgrades would mean avoidance of \$10 million in deferred maintenance costs for failing steam pipes and supply. The college would realize a savings of \$550,000 per year on steam costs and an overall operations and maintenance savings of more than \$750,000 annually. The total cost of the project is around \$7,300,000 and the cost effectiveness of this measure is approximately \$1000/MTCO₂e.

Implementation schedule, milestones, and metrics for tracking progress

Like many large-scale campus projects, the SCC EcoDistrict would need to be implemented in phases and work around the reality of campus life. Phase 1 is sized to serve the 404,000 square feet (sf) Broadway/Edison building, the 83,000 sf Science and Math Building, and the 41,000 sf Broadway Performance Hall. Future phases would expand the work to other buildings on campus. Piping to distribute the hot and chilled water is sized for future expansion to include the Mitchell Athletic Center, a remodeled Student Union Building, planned student housing, and a planned North Plaza instructional building. When fully realized, the EcoDistrict will serve approximately one million square feet of buildings. Table 7 shows the phasing timeline for this work:

Table 7. Proposed Phasing for SCC Campus Energy Decarbonization

Building Name	Phase	Building Type	Square Footage
ВРН	1	College	41,174
Broadway-Edison Total	1	College	405,085
Broadway Phase 1	1	College	

Building Name	Phase	Building Type	Square Footage
Broadway Phase 2	1	College	
Edison	1	College	
Bookstore	2	Student Union	14,765
MAC	2	Student Union	85,000
Science and Math (SAM)	2	College	83,446
Student Housing	3	Housing	179,000
New North Plaza Academic Building	4	College	145,000
		TOTAL	953,470

Timeline

 SCC estimates an eighteen-month construction to commissioning timeline. The start date for this work is contingent on funding and other statewide rulemaking related to contracting with an ESCO.

Milestones

Milestones include retirement of legacy systems and commissioning of newly renovated buildings.

Metrics for tracking progress

- Natural gas (therms) reduced
- Electricity (kWh) consumed

Western Washington University

At Western Washington University (WWU), the majority of buildings are more the 30 years old and predate modern energy efficiency code requirements. The campus is heated by a Steam District Energy System that uses natural gas combustion as the energy source, creating 95% of scope 1 GHG emissions for the campus. WWU was funded by the legislature with CCA funds in 2021 to conduct a Feasibility Study for a reduced carbon District Energy System. That study identified energy conservation efforts as an immediate first step to reduce GHG emissions. Specifically, the study showed that concentrating on the nine highest demand buildings had the potential to reduce heating demand up to 22%. Additional federal funding would mean the accelerated deployment of these projects, reducing the capacity demands and construction cost of the new system.

For WWU, the biggest GHG reduction opportunity is expanding the exhaust air heat recovery systems at the two main science buildings, which were constructed in the 1990s. These buildings require 100% outside air delivered at six air changes per hour to maintain a healthy lab environment. From an energy perspective, this means a fresh air molecule only spends about 15 minutes in the building before it is exhausted back out of the roof. The Chemistry building has no heat recovery system, and the Biology building has a partial heat recovery system that is 30-40% effective depending on the outside temperature. The proposed upgrades install a complete heat recovery fluid loop at both buildings, which will permit more efficient operations during low occupancy and low demand periods.

The second largest GHG reduction opportunity is HVAC controls recommissioning and upgrades which take advantage of state-of-the-art electronic controls that monitor occupancy and indoor air quality and provide fresh air ventilation only to the extent necessary. During the recent COVID pandemic, most buildings ended up over-ventilated out of an abundance of caution to provide fresh air. WWU learned to use a home-grown

solution to ensure proper ventilation, marrying CO₂ and occupancy sensors with dynamic monitoring that enabled the university to match ventilation to the actual occupancy need. Further federal funding would expand those learnings with more devices and smarter controls programming to conserve even more energy and thereby reduce heating demand and fan run time. These upgrades would result in the following GHG reductions:

Table 8. Cumulative GHG Reductions for WWU Campus Energy System Decarbonization

	Cumulative GHGs Avoided 2025- 2030 (MTCO ₂ e)	Cumulative GHGs Avoided 2025-2050 (MTCO₂e)
Western Washington Exhaust Heat Recovery and HVAC control upgrade	4,000	36,000

The cost effectiveness of this measure is approximately \$1,200/MTCO₂e and the estimated cost of the project is around \$4,700,000.

Implementation schedule, milestones, and metrics for tracking progress

The proposed projects were identified by an ASHRAE Level II Energy Audit that WWU commissioned in 2022 for its highest energy use buildings. Conceptual designs were completed as proofs of concept thus enabling the team to move right into detailed construction design and permitting.

Implementation activities

- Complete detailed design and submit construction permits
- Engage with the building users to set expectations for timing and mitigate disruptions
- Commence construction
- Complete digital controls programming and commission the upgrades
- O Compile closeout and Maintenance and Operations manuals
- Begin measurement and verification process

Milestones

- 1,291Metric Tons of CO₂ reduced per year
- Electrical grid benefit of 680,000 kWh avoided and available for other uses
- Co-pollutant reduction from less natural gas combustion

Metrics for tracking progress

- Natural gas (therms) reduced
- Electricity (kWh) reduced

The SCC EcoDistrict and WWU project represent two of dozens of conversion opportunities for district heating and cooling systems across the state. The emission reductions, cost, implementation timeline, and co-benefits of each project would vary by location and design. For most of these facilities, the legacy boilers are the largest source of GHG emissions.

Geographic location

Statewide; higher education campuses, state and municipal buildings, tribal centers.

Intersections of other funding

Several federal grants address building decarbonization, but finding the funding to upgrade legacy campus energy systems can be challenging given the scale of work. The Washington Legislature may potentially provide direct support to universities and colleges through the CCA funds. Project proponents can also leverage IRA clean energy tax credits in some cases where the technology aligns with available programs. Washington offers a state energy performance standard Early Adopter Incentive program, which began July 1, 2021 and applies to non-residential, hotel, motel, and dormitory buildings greater than 50,000 sq. ft. An eligible building owner that demonstrates early compliance with the Clean Buildings Standard may receive a one-time base incentive payment of \$0.85 per gross sf of floor area, excluding parking, unconditioned, or semi-conditioned spaces. Incentive funds are limited to \$75 million at this time.

Authority to implement

The State's Building Energy Performance Standard, also called the Clean Buildings Performance Standard, established through legislation enacted in 2019 and codified in RCW 19.27A.210, requires Commerce to establish rules for energy performance standards for covered buildings, to collect data on compliance, and to report on outcomes. Covered buildings include any nonresidential buildings greater than 50,000 square feet, excluding those used for industrial or manufacturing purposes, those that are agricultural structures, or those meeting certain standards for financial hardship. The performance standards seek to maximize reductions in GHG emissions from the building sector. The performance standard includes energy use intensity targets by building type, as well as requirements for an energy management plan, operations and maintenance program, energy efficiency audits, and investments in energy efficiency measures. In 2022, parts of the Clean Building Performance Standard was expanded to add a second tier of covered buildings: multifamily residential buildings over 20,000 sf and smaller commercial buildings (between 20,000-50,000 sf). These buildings will need to meet benchmarking requirements, energy management planning, and operations and maintenance planning, and may be subject to future energy use intensity targets.

Campuses with district energy systems have specific requirements under this law. In Washington, a campus district energy system is defined as a district energy system that provides heating, cooling, or heating and cooling to three or more buildings with more than 100,000 sf of combined conditioned space, where the system and all connected buildings are owned by:

- a single entity;
- a public-private partnership where a private entity owns the energy system and a public entity owns the buildings; or
- two private entities where one owns the connected buildings and the other owns the energy system.

A state campus district energy system is a campus district energy system owned by either the State of Washington or by a public-private partnership. Under state law (RCW 19.27A.260), the owner of a state campus district energy system must develop a decarbonization plan. The plan must provide a strategy for up to 15 years, or longer, if approved by Commerce. The plan must be under development by June 30, 2024, and a final plan must be submitted to Commerce by June 30, 2025. Commerce must provide a summary report on decarbonization plans to the Governor and Legislature by December 1, 2025.

Additional authority to implement comes from <u>Executive Order 20-01</u>, which authorizes the <u>State Efficiency</u> <u>and Environmental Performance Office</u> to support state agencies in emission reduction planning and implementation.

Waste, water and sustainable materials management sector

2.2.3 Organics management

Implementing entity

Washington State Department of Ecology

Description of measure

This measure reduces GHG emissions by upgrading organics management facilities and supporting organics management efforts by local governments and local health jurisdictions, in line with the goals of Washington's 2022 Organics Management Law (OML) (RCW 70A.205.070). The measure also includes a pilot for King County and the City of Seattle for institutional, local food procurement, compost market creation, and next generation organics management, to address GHG emissions in the state's most populous region that uses a whole supply chain approach to pilot new methods that reduce emissions throughout regional food systems.

The OML requires that by 2025, 20% of previously disposed edible food must be rescued for consumption, and by 2030, 75% of previously disposed organic materials must be diverted from landfills. Currently, organics represent nearly 60% of total landfilled waste in Washington. According to EPA, landfilled organics are the third largest generator of methane emissions in the US. A significant strategy utilized by the OML is to require statewide management of organics at both the commercial and residential levels. Thus, local governments, who are also tasked with creating and managing solid waste plans in their jurisdictions, are now responsible for creating and developing programs to support organics management. The law also gives local health jurisdictions (LHJs) enforcement authority to ensure compliance of organics management.

Estimate of the quantifiable GHG emissions reductions and quantitative cost estimates

A 2019 law (<u>RCW 70A.205.715</u>) mandated the creation of a cross agency plan that "develops and adopts a state wasted food reduction and food waste diversion plan" to achieve the aforementioned food waste reduction goals. This plan is called <u>Use Food Well Washington</u> (UFWW), and it was developed and published in 2022. The plan includes 30 recommendations and quantifies the GHG, economic, and cost impact of each organic and food waste reduction recommendation.

This measure focuses on three recommendations of the UFWW. Table 9 below lists the estimated GHG reduction potential of each program over 5-year and 25-year time frames. This table also includes estimates based on an expected pilot through King County and Seattle for food procurement, compost market creation, and next generation organics management.

Table 9. Cumulative GHG Reductions for Organics Management

Measure or Project	Cumulative GHGs Avoided, 2025-2030 (MT CO ₂ e)	Cumulative GHGs Avoided 2025-2050 (MT CO ₂ e)
Organics Management Processing Facilities	28,000	158,000
Organics Management Working Capital to Local County and City Governments	301,000	1,986,000
Organics Management Working Capital to Local Health Jurisdictions	135,000	443,000
Total	464,000	2,587,000

The overall cost effectiveness for all measures is approximately \$140/MTCO₂e for an estimated cost of around \$67 million.

Implementation schedule, milestones, and metrics for tracking progress

Table 10 below lists the context and potential implementation approach for each recommendation in this measure, including timeline, milestones, and metrics for tracking progress.

Table 10. Implementation Approach to Organics Management

	Organics Management Support for Local Governments	Investment in Local Health Jurisdictions (LHJs)	Investment in Organics Processing Facilities
Rationale	County and City governments are tasked with developing organics management services and capabilities to meet the State's organics diversion goals. This also includes the proposed pilot through King County and Seattle for low carbon food procurement, compost market creation, and next generation organics management.	LHJs are provided with enforcement authority for the commercial organics management requirements. LHJs provide all solid waste permits for organics processing facilities.	Due to the 2022 Organics Management Law, significant growth in organics feedstock will occur. Organics processing facilities will be impacted.
Fund Deployment	Cities and Counties will receive funds on a noncompetitive basis. An organics management plan must first be developed as a stipulation of receiving funding.	LHJs will receive funds on a noncompetitive basis. An organics management plan must first be developed as a stipulation of receiving funding.	Two tranches of funding will be available: one that funds research and development for improving pre & post-consumer food waste at facilities, the second tranche for capital improvements. This will be a competitive process.
Implementation Schedule	Year 1: Counties and participating cities submit organics management plans, including their use of funds plan. Year 2: Funding deployed. Years 2-5: Implementation, tracking and evaluating.	Year 1: LHJs submit organics management enforcement plans, including their use of funds plan. Year 2: Funding deployed. Years 2-5: Implementation, tracking and evaluating.	Year 1: Facilities indicate interest in R&D fund. Year 2: Awarded Facilities receive funding and spend the year piloting new processes. Year 3: Facilities apply through a competitive process to access funding capital improvement projects. Years 3-5: Funding for Capital projects deployed. Tracking and evaluation of investment follows.
Milestones	Years 1-3: Local Jurisdictions support impacted businesses comply with the Organics Management Law. Year 4: All impact jurisdictions ensure there is organics curbside service available, a result of the OML.	Year 1: LHJs submit organics management plan Year 2-5: LJHs receive CPRG funds and generate an organics management plan; a process of tracking and evaluation is developed.	Year 1: Facilities statewide express interest R&D funds to process more food waste. Year 2: Food waste processing is dialed in. Years 3-5: Capital improvements made to facilities statewide Tracking and evaluation is established.

	Organics Management Support for Local Governments	Investment in Local Health Jurisdictions (LHJs)	Investment in Organics Processing Facilities
	Year 5: Record significant diversion of organics from landfill.		
Metrics for Tracking Progress	Number of organics management plans developed that addresses commercial and/or residential needs. Total pounds diverted from landfill on annual basis.	Number of enforcement actions taking for non-compliance with organics management. Number of campaigns developed to provide education and technical assistance	Total pounds of organic waste processed Total pounds of compost generated
		Total pounds diverted from landfill on annual basis	

Geographic location

- Processing Facilities
 - Currently, six facilities in Washington regularly accept post-consumer food waste. Federal funding from CPRG could be used to support compost facilities, evolve processes to accept food waste, pilot new processes, and fund upgrades to provide infrastructure to handle increased volumes of organic waste, including pre and post-consumer food waste.
- Funding to Local and City Governments
 - Support each of Washington's 39 counties and a per capita allocation to one city per county
- Funding to Local Health Jurisdictions
 - 35 Local Health Jurisdictions distributed regionally in Washington

Intersections of other funding

Historic investments made in organics management and food waste prevention are listed in Table 11 below. These investments have funneled support to county and city governments and non-profits throughout Washington. Funds have been used to implement the OML in addition to prioritizing food rescue and recovery. The Washington State Data Hub is a priority of the recently launched Washington State for Sustainable Food Management. The Data Hub will serve as the incoming conduit to track edible food waste diverted.

Table 11. Historic Investments in Organic Management and Food Waste Prevention

Funding Source	Time Frame	Total Investment
Public Participation Grants (State Budget)	2023-2025	\$1,526,816
Local solid waste financial assistance program grants (State Budget)	2023-2025	\$2,094,000
Food Waste Reduction Campaigns (State Budget)	2021-2023	\$2,000,000
Washington State Data Hub (State Budget)	2023-2025	\$280,000

In addition to the funding sources listing in Table 11, LHJs receive funding from the Legislature and municipal governments that support organics management work when able.

The estimated need to meet Washington's organic management goals by 2030 as <u>legislatively mandated</u> by OML is \$2 billion in total.

Authority to implement

To address food waste and wasted food in Washington, the 2019 Washington Legislature passed the Food Waste Reduction Act, now codified as <u>RCW 70A.205.715</u>.

In 2022, the Washington State Legislature passed the <u>Organics Management Law</u>. This law requires diversion of organic materials away from landfill disposal and toward food rescue programs and organics management facilities. This legislation amended and/or created over 20 laws, such as <u>RCW 70A.205.540</u> and <u>RCW 70A.205.545</u>, which will drive the largest recovery of organics by phasing in business and residential organics collection requirements.

<u>Seattle Municipal Code sections 21.36.082 and 21.36.083</u> require that residents and businesses do not put food scraps, compostable paper, yard waste, and recyclables in their garbage.

<u>King County Code (KCC) 10.14.020</u> requires zero waste of material resources through prevention, reuse and reduction of solid wastes to landfill. Pursuant to <u>KCC 18.25.010</u> to meet climate goals a goal of zero food waste in landfill by 2030 has been set.

Transportation sector

2.2.4 Scrap and replace fossil fuel powered commercial vehicles

Implementing entity

Washington State Department of Ecology

Description of measure

This priority measure addresses transportation sector emissions by implementing strategies identified in the newly approved state <u>Transportation Electrification Strategy</u> (TES). Transportation emissions account for <u>39% of emissions in Washington</u> and medium- and heavy-duty (MHD) vehicles are responsible for <u>27% of on-road GHG emissions</u>.

The goal of this measure is to establish a MHD vehicle scrap and replace program, offering point-of-sale vehicle incentives to scrap diesel vehicles and replace with zero-emission models and charging infrastructure incentives. This measure would catalyze Washington's MHD EV market while simultaneously ensuring polluting vehicles are removed from the road. Incentivizing the uptake of MHD vehicles will have an out-sized emission reduction impact relative to their proportion of the on-road vehicle population. Many MHD zero-emission vehicles are primed for wide-scale zero-emission adoption and only face the barrier of high upfront costs. This approach, with built-in reassessment milestones to adapt to market needs, will target vehicles that are ready for wide-scale application, bring down up-front costs, establish supportive fueling infrastructure, and encourage wide-spread adoption.

This program aligns with federal and state efforts to reduce transportation GHG emissions, future-proofing this infrastructure investment. The sooner zero-emission MHD vehicles are adopted, the sooner GHG emission reductions will be realized and associated public health co-benefits will be felt by LIDAC and overburdened communities. Additionally, the scrapping component of this program ensures older polluting vehicles will not be sold and operated elsewhere, such as overburdened communities. Decarbonizing high-mileage MHD vehicles will result in immediate and cost-effective GHG emission reductions and the scrapping component of this program will improve the air quality of communities overburdened by air pollution.

Estimate of the quantifiable GHG emissions reductions and quantitative cost estimates

This program will result in immediate and permanent GHG reductions by taking internal combustion engine (ICE) vehicles off the road and replacing them with zero-emission vehicles. Vehicles included in the GHG reduction model include zero-emission delivery vans, class-8 tractors, and refuse trucks, all of which have a useful life expectancy of 10-15 years. Per-vehicle emissions profiles are estimated using <u>Alternative Fuel Data Center data</u> on annual vehicle miles traveled (VMT) and fuel economy by vehicle type, as well as <u>CO₂</u> emissions per gallon of gasoline from EPA.

The program design will take into account various scenarios, market demands, and potential GHG reductions when determining the classes of vehicles incentivized and the incentive amounts. Table 12 displays scenarios that model illustrated emissions reduced if all program funds were used for a single vehicle class.

Table 12. Cumulative GHG Reductions for Scrap and Replace of Fossil Fuel Powered Commercial Vehicles

Measure or Project	Cumulative GHGs Avoided 2025-2030 (MTCO ₂ e)	Cumulative GHGs Avoided 2025-2050 (MTCO₂e)
Scenario 1: Cumulative Emissions Reductions from Delivery Vans	117,000	313,000
Scenario 2: Cumulative Emissions Reductions from HD C8 Tractors	179,000	637,000
Scenario 3: Cumulative Emissions Reductions from Refuse Trucks	74,000	117,000

The above estimates are based on an estimated program cost of \$100 million, which results in the following cost effectiveness for each scenario:

- Scenario 1 (Cumulative Emissions Reductions from Delivery Vans): \$850/MTCO₂e
- Scenario 2 (Cumulative Emissions Reductions from HD C8 Tractors): \$560/ MTCO₂e
- Scenario 3 (Cumulative Emissions Reductions from Refuse Trucks): \$1400/ MTCO₂e

Implementation schedule, milestones, and metrics for tracking progress

The implementation of this proposed program could follow the following schedule:

- October 2024: Program Research: RFI & existing research review phase
- November 2025: Procurement: Request for Proposal (RFP) for third party administrator (TPA) released
- February 2025: TPA selected, contracting
- April-June 2025: Program design, approval, Environmental Justice Review

- July 2025: Round 1 funding launch (~\$25 million)
- April 2026: Year 1 review program performance measures & modify
- July 2026: Round 2 funding launch (~\$25 million)
- April 2027: Review program performance measures & modify
- July 2027: Round 3 funding launch (~\$25 million)
- April 2028: Review program performance & modify
- July 2028: Round 4 (final) funding launch (~\$25 million or remaining funds)
- June 2030: Review program performance and outcomes, Program closes, Final reporting

Milestones

- 400-1500 MHD zero emission vehicles purchased
- 400-1500 MHD ICE vehicles scrapped
- Reduction in cumulative metric tons of GHG emissions ($120,000 180,000 \text{ MTCO}_2\text{e}$ by $2030,300,000 600,000 \text{ MTCO}_2\text{e}$ by 2050)
- Reduction of criteria air pollutants (NOx: range 50 580 short tons, CO: range 86 394 short tons, PM2.5: range 0.3 1.1 short tons)
- Expansion of charging infrastructure (low-end range; 392 to high-end: 1524, assuming 1 charging station per vehicle replaced)¹⁰

Metrics for tracking progress

- Incentives distributed (\$)
- Number of vehicles scrapped and replaced
- Vehicle purchase data (Price, make, model, year, intended use)
- Locations of vehicle replacements, % of funds in LIDAC
- GHG emissions reduced.
- CAP pollutants reduced (NOx, PM2.5, CO)

Geographic location

The focus will be on MHD vehicles operating in EPA defined LIDACS and state defined overburdened communities in Washington. <u>The Seattle-Tacoma-Bellevue MSA PCAP</u> includes measures relating to regional transportation electrification and would be designed to ensure no duplication or overlap with the State's scrap and replace measure.

Intersections of other funding

This measure seeks to provide the entire state's MHD fleet access to zero-emission vehicles. Existing funding for converting vehicles is listed in Table 13 and has historically been focused on publicly-owned fleets.

The \$120 million appropriated by Washington for MHD vehicle incentives will, at maximum only impact 1-2% of the total registered MHD fleet in the state¹¹. Further funds from CPRG could double funds dedicated to the state's MHD fleet. In the zero-emission MHD commercial vehicle incentive study conducted for the WA Legislature's Joint Transportation Committee, stakeholder feedback highlighted the necessity of point-of-sale

¹⁰ Ranges provided for the Scrap and Replace program quantify the possible program impact based on modeled scenarios using different vehicle types (class 8 tractors, refuse trucks, and delivery vans). Vehicles incentivized with the program will be determined based on the research/RFI phase of the project.

¹¹ Based on fleet data used in Transportation Electrification Strategy modeling

rebates to drive adoption of MHD EVs¹². Existing tax credits are often inaccessible to many small, owner-operator businesses since they require the purchaser to provide the full cost up front and then be reimbursed.

Table 13. Funding for Fossil Fuel Powered Commercial Vehicles

Funding Source	State/Federal	Total Investment
Carbon Emissions Reduction Account (CERA), funded through Climate Commitment Act revenues (cap and invest program)	State	\$120M appropriated for zero emission MHD vehicle incentives. At maximum, these funds will impact 1-2% of the total registered MHD fleet in WA. Additional funding is necessary to further accelerate transportation sector emission reductions. This funding does not include a vehicle scrapping incentive.
Commercial Clean Vehicle Credit	Federal	Up to \$40k per vehicle tax credit. This tax credit has limited usefulness to many small, owner-operator or disadvantaged businesses since it does not reduce the capital needed at the time of purchase. The high initial investment associated with transitioning to zero-emission vehicles has been identified as a primary barrier to wide-spread adoption ¹³ .
EPA Diesel Emissions Reduction Act (DERA) grants	Federal	Approximately \$1M/biennium to scrap and replace old diesel-fueled equipment with cleaner equipment.
Volkswagen mitigation fund	Federal Settlement, State Penalty	\$141M in funds from the Volkswagen federal settlement and State penalty invested in projects that accelerate widespread adoption of zero-emission technology. Initial funding opportunities were focused on publicly owned vehicles and charging infrastructure.
Ecology Air Quality Clean School Bus Grant Program	State	\$14M appropriated in 23-25 biennium to scrap and replace diesel school buses with electric school buses.

Authority to implement

Authority for this measure is established in Washington's Clean Air Act (Chapters <u>70A.15 RCW</u>, and <u>173-476 WAC</u>).

State policies that will support this program include:

- Washington's Clean Fuel Standard, which will align with and support funding granted to the scrap and replace program by providing credits to owners of zero-emission infrastructure.
- Washington's Clean Truck program, which will align Washington with California's Advanced Clean Truck programs and will also positively impact MHD vehicle adoption.

2.2.5 Marine terminal electrification

Implementing entity

Washington State Department of Transportation

¹² Study in draft form, final study will be published on the JTC website: https://leg.wa.gov/JTC

¹³ MHD study in draft form, final study will be published on the JTC website: https://leg.wa.gov/JTC

Description of measure

This measure will reduce GHG emissions through adding electrification improvements to key ferry routes operated by Washington State Ferries (WSF) in the Greater Seattle Metropolitan Area, which is home to more than half of Washington's population and is one of the largest metropolitan areas in the U.S. This measure will be implemented through the electrification of ferry terminals that will enable full electrification of four ferry routes. The measure will support the design and construction of rapid charging systems (RCS) for routes in the Central Puget Sound Region: Seattle-Bainbridge, Seattle-Bremerton, Edmonds-Kingston, and Mukilteo-Clinton. The RCS will allow for full battery-electric propulsion of the ferry system's Jumbo MKII and Hybrid Electric Olympic (HEO) class vessels. The design and installation of medium voltage power delivery and offshore charging structures — by providing RCS at both terminals on each route — will allow these hybrid-electric vessels to operate their electric engines fully on batteries without having to run their diesel-electric generators, thereby facilitating GHG emissions reductions.

Estimate of the quantifiable GHG emissions reductions and quantitative cost estimates

Table 14 lists the estimated GHG reductions for all routes in this measure. Projects will result in a permanent reduction of GHG emissions because diesel-powered vessels will no longer operate on these routes. GHG emission reductions are based on engineering estimates capturing vessel emissions generated by the engine/generator as well as the power utilities upstream emissions. Vessel emissions are calculated based on historical Fuel Consumption (FC).

Table 14. Cumulative GHG Reductions for Marine Terminal Electrification

Measure or Project	Cumulative GHGs Avoided 2025-2030 (MTCO ₂ e)	Cumulative GHGs Avoided 2025-2050 (MTCO ₂ e)
All terminal upgrades (Seattle, Bainbridge, Bremerton, Edmunds, Kingston, Clinton, Mukilteo)	102,000	1,318,000

An approximate cost of \$99 million would fund terminal electrification upgrades on four major ferry routes and enable implementation of the entire electrification project along with other state and federal funding already identified. The measure will have a cost effectiveness of approximately \$900/MTCO₂e.

Implementation schedule, milestones, and metrics for tracking progress

<u>The WSF System Electrification Plan (SEP)</u> outlines the agency's implementation schedule for the full system electrification initiative. Work has already begun to accomplish the project. Beginning in 2025, final design and right-of-way acquisition will be completed. Construction will be underway in 2026 and last less than five years. Progress toward achieving the expected outputs and outcomes will be tracked as part of WSDOT's annual requirement to report emissions of GHG and criteria pollutants to Ecology.

Milestones

- Upgrades to four routes allowing use of battery-electric propulsion of ferry system.
- Reduction of ~1.3 million MTCO₂e by 2050

Metrics for tracking progress

- Gallons of diesel used throughout the ferry system (change in gallons used by route)
- Number of ferry terminals converted to RCS
- Total GHGs reduced

Geographic location

The measure will support the design and construction of rapid charging systems for routes in the Central Puget Sound Region: Seattle-Bainbridge, Seattle-Bremerton, Edmonds-Kingston, and Mukilteo-Clinton.

Intersections of other funding

The Washington Legislature has approved approximately \$435 million toward this measure from the CCA, but that amount is not sufficient to complete the project. In 2022, WSF applied for and received federal funds through the Federal Transit Administration's Low Emitting Passenger Ferry Program with \$4.9 million in funds awarded for the electrification of the Clinton Terminal in Island County. The entire electrification program is estimated to cost approximately \$4 billion for all 16 terminals with the potential of supporting hybrid electric propulsion.

Authority to implement

WSF is a publicly owned provider of mass transportation, administered by WSDOT under RCW 47.60. The authority to take all necessary action and responsibility on behalf of Washington is properly delegated and executed, and there are no outstanding legal, technical, or financial issues that would make this a high-risk project to implement quickly. Annually, WSDOT provides all certifications and assurances expected to apply to any active grant of the applicant in the fiscal year and will record these in the Federal Transit Administration's (FTA) Transit Award Management System (TrAMs) with the appropriate electronic signatures. WSF ensures compliance with all applicable Federal statutes, regulations, executive orders, FTA circulars, and other Federal requirements in carrying out any project supported by an FTA grant or cooperative agreement.

2.2.6 Complete Streets

Implementing entity

Washington State Department of Transportation

Description of measure

Complete streets create the foundation for a virtuous cycle of GHG reduction that sustains and accelerates over time. The public benefit and desirability of complete streets stimulates development of housing and destinations within convenient proximity of each other, reducing travel distances for all modes. Making places walkable and bikeable is an essential and foundational element of achieving Smart Growth as outlined by the EPA, and a strategic priority of the USDOT. As demonstrated by Washington's long-standing leadership in multimodal transportation and growth management, when people have access to transportation options, they use them. State highways are often the weakest link and most inhospitable part of the transportation network for walking and biking. By providing high quality walking and biking facilities on and across state highways, growing networks can be connected and catalyzed and infill development in already developed places can be supported.

Electrification of the transportation system is essential, <u>but not sufficient</u> to meet climate goals, and does not address the need to improve access for the Washingtonians who do not drive. Studies have found trips under 3 miles to be <u>more than 50% of all daily trips</u>, which is the <u>active transportation standard</u> for an easily bikeable distance. Complete streets that enable people of all ages and abilities to walk, cycle, roll, and access transit can transform our transportation system to one where people can freely access their destinations with little to no GHG emissions or co-pollutants, enjoy healthy exercise and connection to their communities, and benefit from improved equity, safety, and guality of life.

Developing complete streets is a requirement for state transportation projects. When project funds are available, WSDOT collaborates with local communities and redesigns streets which were built decades ago without infrastructure to support walking, biking, and other forms of active transportation. WSDOT has a long list of unfunded projects which this measure seeks to address and through which the agency is prioritizing communities with the most environmental health disparities.

Estimate of the quantifiable GHG emissions reductions and quantitative cost estimates

To be consistent with current best practices, the emissions reduction calculations in Table 15 are derived using the CARB Clean Mobility model, which includes assumptions about change in travel behavior. WSDOT currently has proposals to improve both the CARB Clean Mobility and the California Air Pollution Control Officers Association (CAPCOA) model for needed state reporting, and WSDOT will continue to test and refine these models for complete streets projects in Washington. As is expected of infrastructure projects, many of the reductions will occur in later years of project implementation and will continue to accrue reductions beyond the 2050 timeframe.

Table 15. Cumulative GHG Reductions for Complete Streets

Measure or Project	Cumulative GHGs Avoided 2025-2030 (MTCO ₂ e)	Cumulative GHGs Avoided 2025-2050 (MTCO ₂ e)
Complete Streets	450	6,500

This measure assumes a cost of \$100 million for WSDOT to deliver complete streets improvements across Washington, with a cost effectiveness of approximately \$222,000/MTCO₂e. With further funding, WSDOT will accelerate the successful delivery of programmed complete streets projects in over a dozen communities across the state, the majority of which would be in EPA EJScreen disadvantaged block groups. The median size of population expected to benefit from an individual project is around 10,000 people. These transformative projects will build demand and support for more improvements, catalyzing future success with other funding opportunities.

Implementation schedule, milestones, and metrics for tracking progress

Performance of the project delivery and construction is tracked and documented by the Capital Program Development and Management Division, as part of the standard statewide oversight of project delivery. Regional WSDOT teams oversee implementation of projects.

Project timelines

Each project will have specific needs depending on the location. A typical project timeline may look like the schedule presented in Table 16.

Table 16. Example of Typical Project Timeline for Complete Streets

Milestone	Date
Pre-design begins	11/2024
Project summary approval	8/2025

Milestone	Date
Preliminary engineering begins	9/2025
Environmental approval	7/2026
Right of way certification	12/2027
Advertisement	1/2028
Operational completeness	10/2029

Milestones

- Completing at least 17 projects
- Benefitting 13,000 people on average for projects
- More than 6,000 MTCO₂e avoided by 2050
- 350,000 people within three miles of projects

Metrics for tracking progress

- Reduction in transportation related criteria and hazardous air pollutants measured in lbs.
- Reduction in GHG emissions (MTCO₂e)
- Number of projects and project mileage each report that finish Pre-Design
- Number of projects and project mileage each report that reach Construction start
- Number of projects and project mileage each report that open to the public
- Number of community engagement activities and # of participants

Geographic location

WSDOT currently has approximately over 100 projects located across the state that are targeted for completion by 2030 and need improvements to make them complete streets. Of that set, more than 75% serve communities in Washington that are low-income and disadvantaged. Providing benefits to these communities would be prioritized as part of this measure.

Intersections of other funding

The Complete Streets requirement at WSDOT does not have a dedicated funding source within the state transportation budget. As of September 2023, total preservation funding from the state legislature for the state highway system met 40% of total need, and without additional funds, projects will struggle to be completed¹⁴.

The WSDOT projects with Complete Streets requirements have an estimated \$890 million funding gap for the walking and bicycling elements programmed to be constructed by 2030.

Federal programs such as the <u>Federal Highway Administration's identified Complete Streets funding opportunities</u> and <u>Department of Transportation programs for pedestrian opportunities</u> tend to favor large individual projects. Currently, there is no dedicated funding that focuses on retrofitting complete streets for state highways or takes a programmatic approach. This measure would rely on CPRG funds to fill in the gaps

¹⁴ The supplemental budget for the 23-25 biennium had not been finalized at time of publication and may have an impact on total state funding

in other funding sources to maximize the number of projects that are open for use by the public within the grant period.

Authority to implement

Authority for this work is under <u>RCW 47.01.260</u> and Complete Streets directive is <u>RCW 47.04.035</u>. WSDOT also maintains long-standing agreements and protocols to address overlapping jurisdictional issues, including utilities relocation and ongoing maintenance.

2.2.7 Reduce emissions of fleets for rural and special needs transit

Implementing entity

Washington State Department of Transportation

Description of measure

State funding to transition public transit fleets has been effective in the procurement, delivery, and operation of zero-emission vehicles and equipment providing millions of trips per year in the largest population centers and avoiding the need for single occupancy vehicle trips. Proof of this program design has been established through the state <u>Green Transportation Capital Grant</u> program authorized by the Legislature in 2018. Since 2018, \$78.3 million has been awarded to 23 agencies, supporting 44 zero-emissions projects.

The goal of this measure is to eliminate financial and technical barriers that prevent rural, private non-profit, and tribal transit providers of critical services from transitioning to a zero-emission transit fleet. To implement this measure, WSDOT would establish a competitive grant program to provide funding to these entities for cost-effective capital projects that reduce the carbon intensity of the Washington transportation system, expanding on the Green Transportation Capital Grant program. The proposed program expands the eligible pool of applicants to tribal transit agencies and private non-profit providers of critical services currently excluded from the Green Transit Capital and State Bus and Bus Facilities grant programs. It also expands the types of projects eligible to meet needs not currently addressed through other state or federal grant programs.

Estimate of the quantifiable GHG emissions reductions and quantitative cost estimates

Table 17 lists the estimated emissions reduction for this measure, which were calculated using the California Air Resources Board's <u>Clean Mobility calculator tool</u>. Funding would provide vehicle replacements and operating support to transition existing rural fixed route services in Washington to renewable vehicles. As an input to the calculator, an average annual VMT on each vehicle of 45,610 was assumed, which is an average calculated from rural Washington transit data in the <u>National Transit Database's 2021 dataset</u>. The results of this analysis greatly depend on the fuel source and quantity of vehicles purchased through this project. By increasing the number of battery electric vehicles purchased, GHG reductions could be increased further.

Table 17. Cumulative GHG Reductions for Reducing Emissions of Fleets

Measure or Project	Cumulative Reductions 2025-2030 (MTCO ₂ e)	Cumulative Reductions 2025-2050 (MTCO ₂ e)
Purchase Electric Bus (29)	16,000	38,000
Purchase Hybrid Cutaway/Shuttle (19)	1,500	1,500
Purchase Electric Van (51)	1,600	1,600

Measure or Project	Cumulative Reductions 2025-2030 (MTCO ₂ e)	Cumulative Reductions 2025-2050 (MTCO ₂ e)
All Vehicle Replacements	19,000	41,000

Assuming additional funding for this measure of \$50,000,000, the cost effectiveness is approximately $$2,600/MTCO_2e$.

Implementation schedule, milestones, and metrics for tracking progress

The implementation schedule for this measure may proceed as follows:

- Fall 2024 May 2025: WSDOT develops supplemental Green Transportation NOFO
 - Develop grant parameters: Create funding opportunity using the state's Green Transportation Capital
 Grant program as a model for application and scoring criteria development. Engage internal and
 external stakeholders in grant development. Prepare program materials such as website, informational
 documents, online application, and communications to partners.
 - Application cycle: call for projects, applications submitted, awards finalized WSDOT posts notice of funding opportunity, provides technical assistance to applicants, oversees application through evaluation and final awards, notifies grantees of awards, develops grant agreements, assigns project managers to funded projects
- May June 2025: WSDOT awards all funds and executes grant agreements, and procurement initiated.
- July 2025 June 2026: Subrecipients place orders for vehicles and equipment
- July 2026 December 2027: Awarded projects are completed (all vehicles and equipment are delivered, accepted, and reimbursed)
- January 2027-2030: Completed projects are monitored for performance annually

Milestones

- Deployment of:
 - 29 Electric Buses
 - 18 Hybrid Cutaway/Shuttle
 - 50 Electric Vans
- 19,000 MTCO₂e reduced from 2025-2030
- 41,000 MTCO₂e reduced from 2025-2050
- 15.000 tons of NOx reduced from 2025-2030
- 105 lbs. of diesel PM and 446 lbs. of PM2.5 reductions from 2025-2030

Metric for tracking outcomes

- Short term outcomes:
 - Decreased diesel emissions
 - Increased mobility for rural areas
 - Increased awareness of green technology
 - Increased availability of alternative fueling infrastructure

- Long term outcomes:
 - Improved air quality leading to improved health outcomes
 - Reduced fire danger from climate change causing emissions

Metrics for tracking progress

- Number of vehicles converted to zero-emissions
- Amount of GHGs reduced

Geographic location

This measure plans to support rural transit agencies, tribal transits, and community transit providers (private non-profits) throughout Washington.

Intersections of other funding

While state and federal funding opportunities exist to support green fleet transitions, none are designed specifically for this applicant pool. This priority measure helps fill a critical funding gap while leveraging overall progress toward green fleet transitions. Tribal transit agencies and non-profits currently are not eligible for the state <u>Green Transportation Capital grant program</u>. Rural agencies can struggle to be competitive for this funding with big projects proposed by large urban transit organizations. Further, non-profit agencies are not eligible to apply for the <u>Federal Transit Administrations Bus and Bus Facilities Program</u> (5339(b)). And finally, the federal <u>Low or No Emission Grant Program</u> (5339(c)) and the <u>Bus and Bus Facilities Program</u> (5339(b)) require applicant match which can be a barrier for smaller agencies with limited financial resources.

Authority to implement

Authority for this work is under RCW <u>47.66.120</u>. WSDOT maintains long-standing agreements and protocols to address overlapping jurisdictional issues, including utilities relocation and ongoing maintenance.

2.2.8 Enable decarbonization of rail infrastructure

Implementing agency or agencies:

Local Agencies, Ports

Description of measure

The <u>Transportation Carbon Reduction Strategy</u> cite green hydrogen and low-carbon fuels for rail as strategies to reduce the carbon intensity of transportation. The <u>State Energy Strategy</u> cites ongoing work to include new technologies and improvements that help make the changes needed to meet statewide GHG reduction limits and encourages the state to fund pilots and demonstration projects. This work is especially important for medium- and heavy-duty vehicles, rail, marine, and aviation.

It is estimated that rail moves around 40% of freight measured in ton-miles and is responsible for about 8% of the freight transportation carbon <u>emissions</u>. The rail industry in Washington is seeking ways to continue to lower its environmental footprint and there is growing interest in powering trains with hybrid solutions featuring hydrogen fuel cells. For example, Coradia iLint, launched in France, is one of the first passenger trains powered solely by hydrogen fuel cells and it produces zero emissions at the point of use.

This measure would have the objective of increasing energy efficiency of locomotive engines in the region. The measure would further reduce emissions associated with current locomotive technology and move toward

lower and zero-emission technologies that are still in research, development, and demonstration phases. Funding to support this measure could be used for the design and build of a repair and maintenance shop run by the Port of Pend Oreille (dba Pend Oreille Valley Railroad, POVA) for locomotives, large industrial vehicles, and smaller commercial vehicles. The facility would increase the number of locomotive engine conversions to Tier 3 and 4 locomotive emission standards (the highest efficiency and performance standards). POVA also plans to pilot a hydrogen fueling station and engine conversions which will look to replace diesel powered emissions entirely for a certain percentage of locomotives. This additional work in the measure would have further impacts to GHG reductions in the region. Costs will vary depending on the development of technology and supply chain. Additional funding from CPRG would allow the facility to expand from its current rate of 1-2 engine conversions per year to an additional 4-6 engine conversions per year and add hydrogen refueling capacity.

The new locomotive repair and maintenance shop would also incorporate, wherever possible, all sustainable development and design practices. These also include strategies that promote minimal environmental impact, advanced energy efficiencies, reduced water consumption, practical landscaping, and other green technologies that would be of particular interest and focus. Maintenance ease and the economical operation of the facility would also be essential to the project build. The new facility could also meet nationally recognized standards for energy efficiency and pursue LEED Certification.

Estimate of the quantifiable GHG emissions reductions quantitative cost estimates

Table 18 shows the estimated cumulative GHG reductions for Tier 3 and Tier 4 locomotive engines. With funding from CPRG, the number of converted locomotives to either Tier 3 or Tier 4 could be more than 35 by 2030. Additional shop space, staff, and apprentices could cut the timeline of this work in half and allow for an additional 4-6 conversions a year (instead of the average 1 to 2).

By 2050, POVA staff could complete an estimated 150-200 locomotive conversions, thus directly impacting at least 1% of the total North American Fleet, which as of 2020 was estimated to have around 38,450 locomotives in total with over 26,000 of them being diesel powered. Emissions and fuel consumption information is based on data and calculations done by Cummins and Western Rail.

Table 18. Cumulative GHG Reductions for Converting Locomotive Engines

Measure or Project	Cumulative Reductions 2025-2030 (MTCO ₂ e)	Cumulative Reductions 2025-2050 (MTCO₂e)
Conversions to Tier 3 engines	2,800	11,000
Conversion to Tier 4 engines	7,900	30,000
Total	10,700	41,000

The estimated cost of this project is \$12 million and the cost effectiveness is approximately \$1,100/MTCO₂e for both tiers of locomotive engines.

Implementation schedule, milestones, and metrics for tracking progress

Initial performance measures would revolve around the timely completion of the maintenance shop expansion project. Following that project, increased locomotive conversions could begin to be measured compared to previous conversion capacity.

Implementation timeline

The timeline for this planning and construction project is estimated to take a least six to eight months to complete the building design process with an additional six to eight months for the selected consultants to draft and finalize a shovel-ready, turn-key building specification plan for the construction of POVA's new locomotive maintenance and repair shop. POVA anticipates that the total planning process for this feasibility study will take an estimated 12 to 16 months to complete. The actual infrastructure construction of this new facility could take up to 12 to 16 months, pending any possible issues there might be with assembly, installation, equipment testing, supply chain gaps or disruptions, and/or any potential delivery delays. Therefore, the overall estimated timeline to complete the entire project including planning, building construction, and installation of the new dry blast booth and hydrogen fueling station with storage capabilities is estimated to range between 24 to 32 months within a three-year (or 36 month) timespan. Following that time engine conversions can begin at a rate of an additional 4-6 per year.

Milestones

- 30 locomotives upgraded by 2030
- 150 locomotives upgraded by 2050
- 1 hydrogen fueling station added
- 1 blast booth conversion from a wet-to-dry process
- 6-8 new jobs created
- 100 annual apprenticeships created

Metrics for tracking progress

- Increase in locomotives upgraded to Tier 3/4
- Reduction of GHG emissions from new hydrogen fuel locomotives
- Improvements in air quality
- Increase in technology that conserves fuel, reduces idling and arm crews with information to operate trains more efficiently
- Number of direct/indirect jobs created through workforce development program that aims to train, place, support, and retain a diverse rail industry workforce

Geographic location (if applicable)

Port of Pend Oreille/ Pend Oreille Valley Railroad; Other ports in Washington

Intersections of other funding

This planning and construction project will not be a feasible option for POVA to pursue without the assistance of significant state and/or federal grant funding. To support the costs of construction and consultation for the new shop, POVA is seeking funding through federal programs including: EDA Public Works and Economic Adjustment Assistance Program; <a href="US DOT Rebuilding American Infrastructure with Sustainability and Equity (RAISE) grants; US DOT Maritime Administration Port Infrastructure Development Program; and the Consolidated Rail Infrastructure and Safety Improvements (CRISI) Program as well as investigating IRA clean energy tax credits related to hydrogen fueling. POVA will also seek state funding through the Community Economic Revitalization Board Planning Grant.

Authority to implement

<u>Ecology regulates transportation emissions</u> in Washington and follows <u>EPA regulations</u> for Tier 3 and 4 nonroad diesel engine standards. POVA has authority for this work under the <u>Port of Pend Oreille</u> <u>Comprehensive Plan</u> "Comprehensive Scheme of Harbor Improvement" per <u>RCW 53.20.010</u> and economic

development activities are also authorized as part of the Port's public purpose by <u>RCW 53.08.245</u>. Similar authorities would be available under individual port comprehensive plans.

2.2.9 Electrify municipal and tribal fleets including expansion of electric vehicle charging

Implementing entity

Local agencies; tribes

Description of measure

Washington recently developed the <u>Transportation Electrification Strategy</u> (TES) to help the transportation sector reduce its GHG emissions in accordance with the state's GHG reduction goals. Electrifying on-road transportation, which represents 24% of the state's emissions, and for which electric vehicle (EV) technology is most advanced, is a critical opportunity for the state to reduce GHG emissions. As a national leader on climate action, Washington is already taking critical steps toward achieving these goals.

For example, the Washington Legislature adopted, and Ecology is implementing, California's motor vehicle emissions standards rather than the federal government's standards for new light-duty (i.e., passenger) vehicles (LDVs), the Advanced Clean Cars I and II (ACC I and ACC II) regulations, which require a progressively stringent zero-emissions vehicle (ZEV) sales share, culminating in a 100% sales requirement by 2035.

In addition to state legislation, tribes, cities, towns, ports, and transit agencies are also committed to reducing GHGs in Washington. This measure would directly fund the decarbonization of both municipal and tribal fleets to zero-emission vehicles, as well as the expansion and strategic deployment of EV charging infrastructure to support the increased use of EVs.

Additional GHG emissions reductions and resilience benefits could be realized by leveraging this measure in two different ways:

- Deploying renewable energy plus storage to fuel charging stations. By encouraging adoption of EVs, grant investments can address the transportation sector's outsized contributions to climate change in Washington.
- Using electrified fleets in a vehicle-to-grid set up. By leveraging smart charging technology to communicate
 with the local utilities and help mitigate load during peak times, especially extreme heat events, this
 measure can further reduce emissions associated with peak loads on the grid.

Estimate of the quantifiable GHG emissions reductions and quantitative cost estimates

Calculating the emissions and costs impacts from EV and charging infrastructure will vary depending on many factors including vehicle model and number, cost and emissions content of electricity and the emissions associated with existing fleets.

Table 19 lists estimated reductions from conversion to EVs. For the EV emission reduction estimations, the historic annual gasoline and diesel emissions can be compared to the projected electricity emissions after the project using the following methodology: Annual gallons of fuel consumed can be multiplied by the EPA's CO₂e equivalency factors to obtain the historic emissions from the vehicles to be replaced. For the projected emissions, the mileage for those same vehicles can be multiplied by their kWh per mile figures for the electric replacements. The total amount of electricity required to replace that fuel use can then be converted to CO₂e by multiplying by utility specific grid emission figures reported by Ecology. Using this methodology it is

expected that approximately 80% of emissions from fossil vehicles will be demonstrably avoided through the use of zero emission fleet EVs. Based on typical passenger vehicle estimates and a projected 80 vehicle list for municipality or tribe, annual estimated GHG reductions would be 300 MTCO₂e reduced annually.

Table 19. Cumulative GHG Reductions for Converting Fleets to Electric Vehicles

Measure or Project	Cumulative Reductions 2025-2030 (MTCO₂e)	Cumulative Reductions 2025-2050 (MTCO ₂ e)
Convert fleets to electric vehicles	1,500	7,500

The average cost of electric light duty vehicles (which could include trucks and other larger LDV) can be estimated at \$60,000. Therefore, the cost effectiveness of this measure using these assumptions is \$3,200/MTCO₂e.

Implementation schedule

This measure could expect to be implemented over several years including purchasing, installation of charging stations and data collection for potential grid-related benefits and other renewable energy opportunities. Vehicle purchases are likely to happen over a staggered timeline, with approximately a dozen purchases per year during a five-year period, assuming supply chain issues do not hinder progress.

Milestones

- Complete conversion of fleets to EVs
- Deployment of charging infrastructure for EVs

Metrics for tracking progress

- Number of vehicles converted.
- Number of emissions reduced
- Amount of storage capacity deployed

Geographic location

Statewide. <u>The Seattle-Tacoma-Bellevue MSA PCAP</u> includes measures relating to regional transportation electrification and would be designed to ensure no duplication or overlap with this measure.

Intersection with other funding

Washington has been awarded several federal funding opportunities related to EVs. WSDOT will receive \$71 million total over five years from the National Electric Vehicle Infrastructure Formula Program, including 10.5 million in the first year. Washington received over \$40 million from the FHWA Charging and Fueling Infrastructure Discretionary Grant program, with programs that support charging stations along the Olympic Peninsula, City of Mount Vernon, Ports of Seattle and Tacoma, and as part of a Pacific Northwest Rural Community Charging program. Commerce also awarded \$85 million in grants to fund nearly 5,000 new EV charging stations in communities throughout the state, using state funds.

Authority to implement

Authority for this measure is established in Washington's Clean Air Act (RCW <u>70A.15 RCW</u>, and <u>173-476 WAC</u>) and Washington's Vehicle Emissions Standards (Chapter 70A.30 RCW).

<u>E2SHB 1181, 2023</u> adds a climate change and resiliency goal to the Growth Management Act (GMA) and a required climate change and resiliency element to a GMA comprehensive plan.

2.2.10 Mode shift from trucking to water transportation to reduce vehicles miles travelled

Implementing entity

Local agencies; tribes; ports

Description of measure

<u>The State Energy Strategy</u> identifies reducing vehicle miles traveled (VMT) as a key strategy to reducing transportation emissions and the <u>Washington State Transportation Carbon Reduction Strategy</u> cites mode shift to maritime freight transport as an efficient and equitable way to move goods and people, one of the two overall strategies for emissions reductions.

This measure leverages mode shifting to water transportation as an effective VMT reduction strategy. To reduce GHG emissions in the transportation sector, local agencies and ports can purchase equipment and provide incentives to encourage the adoption of water transportation in lieu of long-haul freight trucking. Barging is a form of water transportation used to move freight between coastal ports. Barges are non-motorized, cargo-carrying vessels that are pushed or pulled between ports by towing vessels (such as electric tugboats). Barging freight is a less carbon-intensive modality that will lead to a measurable reduction in VMT and GHG reductions compared to long-haul trucking by:

- Allowing freight to be moved in bulk which reduces emissions; one barge can transport approximately 50 truckloads of freight
- Not consuming fuel and instead pushing or pulling freight by a towing vessel, which can be electric or electric-hybrid, further reducing the emissions compared to long-haul diesel trucking
- Reducing VMT by taking long-haul freight trucks off the highways.
- Lowering wear and tear on truck tires due to reduced VMTs¹⁵.

Estimate of the quantifiable GHG emissions reductions quantitative cost estimates

Projects under this measure may increase the amount of goods moved by barging, increasing the efficiency of transportation and reducing VMT. This strategy has been explored by the Port of Port Angeles. Currently, the Port participates in two barge routes running between Port Angeles and Everett, WA and Port Angeles and Coos Bay, OR. In 2023, freight movement along these water routes produced 41% fewer GHG emissions compared to long-haul trucking. GHG reduction estimates for the proposed measure are modeled on actual VMT, fuel consumption, and freight volume numbers from 2023. These datasets were compiled on a weekly basis by the Port of Port Angeles and its logistics partners who received freight from Port Angeles.

For an estimate of GHG emissions, the Port considered the impact of creating new barging routes between Port Angeles and Everett, WA. Table 20 shows the potential impact that reducing VMTs through barging could have along that route.

¹⁵ <u>EPA identifies</u> four major sources of emissions related to tire manufacturing: rubber processing, the use of cement, tire cord production, and puncture seal application. Tire manufacturing facilities are known to produce hazardous air pollutants (HAPs) that contribute to chronic and acute health disorders including formaldehyde, methanol, and hexane. In addition, tires are the primary source of 6PPD-quinone, a chemical found in runoff that is highly toxic to endangered salmon species.

Table 20. Cumulative GHG Reductions for Mode Switch to Water Transportation to Reduce VMTs

Measure or Project	Cumulative Reductions 2025-2030 (MTCO₂e)	Cumulative Reductions 2025-2050 (MTCO₂e)
Mode switch, reduction in VMT	3,600	18,000

These estimated emissions reductions are based on a grant award of around \$10 million, with a cost effectiveness of approximately $$2,800/ MTCO_2e$.

These calculations do not include hybrid or electric towing vessels; however, with the adoption of such vessels, which are increasingly available and feasible for barging operations, <u>GHG reductions could increase</u> by an additional 27% (CO₂) and for criteria pollutants up to 73% (particulates) and 51% (NOx).

Implementation schedule, milestones, and metrics for tracking progress

Using the Port of Port Angeles as a pilot, the implementation of this measure may proceed via this proposed timeline:

Year 1:

- Purchase and installation of spud barge for use in shipping routes
- Purchase of an inland barge; signed documents leasing the inland barge to a qualified operator
- Develop management program for scheduling barging route

Year 2:

- 1-2 qualified participants selected and enrolled into management program
- New inland barge begins operating

Milestones

- GHG emission reductions at double the current rate (725-ton reduction per year based on 2023 barging rates)
- Doubling barge freight traffic
- Reduced long-haul trucking vehicle miles traveled (VMT)
- Hazardous Air Pollutant (HAP) and Criteria Air Pollutant (CAP) reductions driven by fewer VMT and fewer gallons of fuel being consumed for freight truck traffic.

Performance Measure and Metrics for Tracking Progress

- Amount of GHG emissions reductions
- Amount of increase in barge traffic route
- Amount of reduction in long-haul trucking VMT.
- Amount of reduction in Hazardous Air Pollutants (HAP) and Criteria Air Pollutants (CAP)

Geographic location

Ports throughout Washington waterways could take advantage of this measure through multiple barging routes.

Intersections of other funding

A number of programs exist to support the work of ports, including the upcoming <u>EPA Clean Ports Program</u> and <u>MARAD Port Infrastructure Development Program</u>. However, these federal programs do not provide support for barging. Currently, funding through the CPRG is the best option for funding barging operations.

Authority to implement

Local governments have been directed to include VMT reductions in long term planning. In 2023, Washington Legislature passed <u>legislation</u> that adds a climate goal to the Growth Management Act (GMA) and requires local comprehensive plans to have a climate element with resilience and greenhouse gas emissions mitigation sub-elements. The GHG emissions sub-element must include goals and policies to reduce emissions and vehicle miles traveled. This sub-element is mandatory for the state's 11 largest counties and the cities within those counties. Climate elements must maximize economic, environmental, and social co-benefits and prioritize environmental justice in order to avoid worsening environmental health disparities.

Electric power sector

2.2.11 Support tribal energy sovereignty through Tribal Clean Energy grants

Implementing entity

Washington State Department of Commerce

Description of measure

This measure supports continued funding for federally recognized tribal governments and tribes' contracted service providers to promote sovereignty, advance resiliency, and contribute to Washington's climate, energy and environmental justice goals. The measure may include projects that modernize the electric grid, promote innovation and solar energy deployment, enhance community resilience, support low-income communities, target industrial decarbonization and siting and permitting of clean energy projects¹⁶, and address any other climate pollution reduction projects important to tribes.

The 2021 State Energy Strategy includes tribal energy sovereignty as a priority for achieving the clean energy transition. This goal is best achieved through direct funding to tribes for tribally led projects. To achieve this goal through the state, the Washington Legislature has historically provided support for the state <u>Clean Energy Fund (CEF)</u> at Commerce for projects that provide a public benefit to communities in Washington through deployment of clean energy technologies that save energy and reduce energy costs, reduce harmful air emissions, or otherwise increase energy independence for the state.

To enhance support for tribal projects, the <u>Tribal Clean Energy Grant program</u> is a newly designed, state funded, program at Commerce that makes at least \$16 million of grant funds available, with the funds tailored exclusively to federally recognized tribal governments and tribes' contracted service providers. Projects funded through this program align with <u>state requirements</u> to use funding for efforts to mitigate and adapt to the effects of climate change affecting Indian tribes, including capital investments in support of the relocation of Indian tribes located in areas at heightened risk due to anticipated sea level rise, flooding, or other disturbances caused by climate change and should not be used for activities that would violate tribal treaty rights or result in significant long-term damage to critical habitat or ecological functions. Investments from

¹⁶ Clean energy projects funded under this measure should meet the state's definitions of clean energy (Chapter 19.405 RCW).

this account must result in long-term environmental benefits and increased resilience to the impacts of climate change.

This measure would seek additional federal funding to support an additional round of grants as part of this new program, which could begin as early as 2025. Commerce also supports direct funding of tribally led projects and this measure includes projects not funded by Washington state, but instead developed by and funded directly to tribes.

Estimate of the quantifiable GHG emissions reductions and quantitative cost estimates

Commerce has previously funded over 30 clean energy projects with federally recognized tribal governments and tribes' contracted service providers, focusing on the following projects:

- Solar projects
- Solar + storage (including planning, pre-design and pre-development)
- Grid modernization
- EV charger installation (including planning, pre-design and pre-development)

Tribal microgrids are a good example of a project that both deploys renewable energy and provides resilience benefits, which has been understood by Commerce to be a priority for many tribes in the Pacific Northwest region. Many tribes are "first off and last on" when extreme weather, wildfire, and other emergencies take down the power grid. The most recent round of funds for the <u>Commerce Solar plus Storage for Resilient Communities grants</u> supported four tribal microgrid projects. To estimate the GHG impacts over time, Commerce used the 895 kW of solar paired with 4053 kWh of storage from these tribal projects to estimate reductions.

Table 21 lists estimated GHG reduction assumptions for the solar deployed as part of these projects. Impacts to GHG emissions would be even greater with further data on the impacts of offsetting diesel backup and other grid benefits realized through deployment of solar plus storage microgrids.

Table 21 Cumulative GHG Reductions for Tribal Solar plus Storage Projects

Measure or Project		Cumulative Reductions 2025-2050 (MTCO ₂ e)
Tribal solar from microgrids	1900	9900

The total funds supporting these tribal solar plus storage projects was \$4.63 million, making the cost effectiveness of this program approximately \$2,300/MTCO2e. Cost effectiveness thresholds may be expanded at the discretion of Commerce evaluators for projects that support tribal energy sovereignty in a manner that support tribal priorities.

Implementation schedule, milestones, and metrics for tracking progress

The state-funded Tribal Clean Energy grant program timeline runs from February 15, 2024 into the fall of 2024. To address the varying levels of tribal staff capacity and readiness, applications are accepted on an ongoing basis until funds are exhausted. In support of this measure, additional federal funding for another round of the program would leverage existing program design Commerce has executed to develop the state-funded program, including listening and informational sessions and Commerce attendance at tribal conventions. Program development and design has also included working with Commerce's Office of Tribal Relations,

leveraging previous feedback from listening sessions and meetings with individual tribes on Commerce programs to develop the request for applications (RFA).

Implementation timelines and schedules would likely <u>mirror those of the state-funded program</u>, and could follow this timeline for a winter 2025 rollout:

- Request for Applications posted: February 15
- Question & answer period: February 15 March 15
- Pre-Application Conferences (2): between March and February
- 1st Application review deadline: March 29
- Evaluate applications: April
- Announce awards: April 26
- Negotiate contract May June
- Other rounds of application review could be run on a rolling basis in summer and winter depending on availability of funds

Milestones

- Increased tribal energy sovereignty
- Increased renewable energy on tribal lands
- Workforce development
- Deploying projects to tribes not having received funding in previous Commerce grants
- Emissions reductions on tribal lands
- Increased resilience
- Continued coordination with tribes

Metrics for tracking progress could include

- Number of tribal projects funded
- Amount of renewable energy capacity constructed
- Amount of storage capacity constructed
- Amount of GHG emissions reduced
- Health disparities impact on tribal lands

Geographic location

All federally recognized tribal governments, <u>defined by Commerce as</u> "[t]he government of any federally recognized Indian tribe whose traditional lands and territories included parts of Washington, designated subdivisions and agencies (such as a Tribal Housing Authority), or any other entities or authorities of a federally recognized tribal government in corporate form or otherwise in Washington[,]" are included as part of this measure.

Intersections of other funding

The Department of Energy (DOE) Office of Indian Energy keeps an <u>updated list</u> of funding opportunities available to tribes. One program under the Infrastructure Investment and Jobs Act is the <u>Grid Resilience State and Tribal Formula Grants</u>, which provide allocations to states and tribes. <u>Allocations available for tribes</u> are listed on the federal funding website. DOE also plans to release a funding opportunity in spring 2024 for \$25 million to support <u>Clean Energy Technology Deployment on Tribal Lands</u>.

Authority to implement

Governor Inslee created the Clean Energy Fund (CEF) in 2013 to fund projects that provide a public benefit to communities in Washington through deployment of clean energy technologies that save energy and reduce

energy costs, reduce harmful air emissions, or otherwise increase energy independence for the state. The authority for the newly released Tribal Clean Energy Grant program comes from ten provisos in both the 2023-25 Biennium <u>Capital</u> and <u>Operating</u> Budget.

The <u>HEAL Act</u> requires Commerce to conduct consultation with federally recognized Indian tribes and guides tribal coordination and program development and design.

Agriculture sector

2.2.12 Fund anaerobic digesters

Implementing entity

Local agencies; tribes, farms, third party implementers

Description of measure

Organic waste, which includes food waste and other biodegradable materials, accounts for approximately 1.2 million tons (2015 baseline for food waste, source: Use Food Well Washington Plan) of all municipal solid waste generated in Washington per year. Food waste left to rot in landfills produces methane, a potent GHG. Anaerobic digesters (AD) divert organic waste from landfills, thereby reducing the impact of rotting food on the environment. AD can also be used to transform waste to energy at its source, reducing the need for hauling waste, and the renewable energy generated by the system could displace energy that would have otherwise come from fossil fuels. The anaerobic digestion process produces organic digestate that adds nutrients and carbon to the soil for improved plant growth and long-term carbon storage.

ADs can be implemented at a small scale to handle food waste at public facilities, medium scale when servicing agricultural livestock operations, and regional scale when accounting for multiple inputs which can include all the above. Deployment of community scale AD systems, which locate project as close to the food waste source as possible, preempts methane from being released in the atmosphere and captures it for beneficial use. These decentralized systems benefit the communities in which they are located. This measure aligns with recommendations from state-plans to increase the use of small-scale ADs to reduce methane emissions from food waste.

Estimate of the quantifiable GHG emissions reductions and quantitative cost estimates

Local governments can implement this measure at a variety of scales. A small AD system can process 25 tons per year and reduce emissions by about $0.67 \, \text{MTCO}_2\text{e}$ per ton of food waste, meaning that one project could avoid 17 MTCO₂e per year. A larger system can process 500 tons per year and reduce emissions by about $0.67 \, \text{MTCO}_2\text{e}$ per ton of food waste, meaning that one larger scale project could avoid 335 MTCO₂e per year. These emissions reductions estimates are based on calculations done using EPA emissions factors and the EPA Waste Reduction (WARM) model.

Table 22. Cumulative GHG Reductions for Anaerobic Digesters

Measure or Project	Cumulative Reductions 2025-2030 (MTCO₂e)	Cumulative Reductions 2025-2050 (MTCO₂e)
Small scale anaerobic digester AD25	85	425
Large scale anaerobic digester AD500	1700	8000

Measure or Project	Cumulative Reductions 2025-2030 (MTCO ₂ e)	Cumulative Reductions 2025-2050 (MTCO ₂ e)
Total	1760	8800

Small ADs are approximately \$209,000, and the large ADs are approximately \$1,000,000, making the approximate cost effectiveness of the AD systems alone $$2,500/MTCO_2e$ and $$590/MTCO_2e$, respectively. The total cost effectiveness of a full project would depend on project specific costs of freight, permitting, installation and training, as well the size of digester.

Implementation schedule, milestones, and metrics for tracking progress

This measure could start with deployment to three projects in communities across Washington. The implementation schedule would include site work/installation, digester construction, and beginning of digestion. The transformative potential of projects could scale with more ADs coming online in the next five to ten years.

Other anticipated milestones and outputs:

- Over 8000 MTCO₂e avoided by 2050
- 14200 tons of food waste diverted from landfills 2030-2050
- 3 installations by 2025
- Between 3-30 local jobs created

Metrics for tracking progress

- Number of digester projects completed
- Tons of waste diverted from landfill
- MTCO₂e avoided
- Communities engaged
- Local jobs created

Geographic location

Small scale digester deployments as demonstration projects could be deployed at community facilities and farms across Washington.

Intersections of other funding

Federal funding for ADs is available through the <u>USDA Rural Energy for America Program</u>, which provides guaranteed loan financing and grant funding to agricultural producers and rural small businesses for renewable energy systems or to make energy efficiency improvements. Agricultural producers may also apply for new energy efficient equipment and new system loans for agricultural production and processing.

The <u>Washington State Conservation Commission</u> has one-time funding of \$30 million from the CCA that was appropriated as part of the 2023-25 biennium to the Sustainable Farms and Fields program for organic agricultural waste and greenhouse gas emissions reduction through climate-smart livestock management. This one-time funding resulted in three new funding opportunities: Alternative Manure Management, Research and Demonstration, and Dairy Anaerobic Digesters.

Authority to implement

Washington's <u>Solid Waste Handling Standards</u> includes permitting requirements for solid waste anaerobic digesters. Other specific regulations are included in <u>Chapter 70A.205.290 RCW</u>.

2.3 Low income disadvantaged communities benefits analysis

The implementation of the measures included in this PCAP are anticipated to prioritize benefits to low-income and disadvantaged communities (LIDACs). This section identifies LIDACs covered by this PCAP, discusses meaningful engagement in the development of this PCAP, and lays out how Washington will continue engagement into the future (i.e. during CCAP development).

2.3.1. Washington's environmental justice context

Washington's environmental justice (EJ) law, known as the Healthy Environment for All (HEAL) Act (<u>Chapter 70A.02 RCW</u>), was enacted in 2021 and provides a roadmap for integrating EJ into state agency actions. The seven agencies covered by the HEAL Act include the state departments of Agriculture, Commerce, Ecology, Health, Natural Resources, and Transportation; it also includes the Puget Sound Partnership. The HEAL Act directs agencies to:

- Adopt a community engagement plan that centers on EJ
- Incorporate EJ into strategic plans
- Develop a tribal consultation framework
- Prioritize EJ in budget and funding decisions
- Conduct EJ assessments for <u>Significant Agency Actions</u> any new program and projects over \$12 million will count as Significant Agency Actions

The HEAL Act ensures that any significant new funding directed at climate pollution reduction will be required to center EJ principles and community engagement in both design and implementation.

2.3.2. Identifying LIDACs and potential impacts

Appendix D provides all LIDAC census block groups in Washington from the CEJST tool and EPA's EJScreen mapping tool. The criteria for determining LIDACs are set by EPA. For programs being delivered by state agencies, this list represents census block groups that will be prioritized in receiving the benefits of priority measures. Local agencies will also be required to work with LIDACs as they distribute implementation grant funds.

Table 23 lists the communities anticipated to be affected by implementation of specific priority measures included in this PCAP. Projects with "statewide" census LIDAC block groups are those that will be implemented through competitive programs or where project sites are not yet determined.

Table 23. Washington Communities Affected by Priority Measures

Measure	Affected LIDAC Census Block Groups
Refrigerant reduction	Statewide
Decarbonizing campus energy systems	Statewide Campuses with known fossil-fuel campus boiler systems: Seattle Central College Department of Health Central Washington University University of Washington Washington State University Western Washington University

Measure	Affected LIDAC Census Block Groups
Organics management	Statewide
Scrap and replace fossil fuel	Statewide
powered commercial vehicles	Especially along interstate highway routes, ports and other heavy- duty vehicle hubs.
Marine terminal electrification	Washington State Ferry service areas, including Island, King, Kitsap, and Snohomish counties
Complete Streets	Statewide
Reduce emissions of fleets for rural and special needs transit	Statewide
Enable decarbonization of rail infrastructure	Statewide
Electrify municipal and tribal fleets including expansion of electric vehicle charging	Statewide
Mode shift from trucking to water transportation to reduce vehicles miles travelled	Communities along coastal shipping routes, especially along Hwy. 101, the only truck route that connects the North Olympic Peninsula to the I-5 corridor and runs directly through downtown corridors and residential zones
Support tribal energy sovereignty through Tribal Clean Energy grants	Federally recognized tribes
Fund anaerobic digesters	Statewide

2.3.3. Mapping environmental justice communities in Washington

To assist with implementing the state's EJ requirements, Washington has developed a mapping tool, the Washington Environmental Health Disparities (EHD) Map, which provides nuanced information on different environmental health indicators across the state and identifies which communities are most impacted by environmental health disparities. State agencies are strongly encouraged to use the EHD map as a resource when implementing the HEAL Act, including making funding decisions and prioritizing outreach. The EHD map weighs environmental exposures such as diesel emissions and ozone with environmental effects like proximity to hazardous waste sites and measures such as education levels, race, employment, poverty rates, birth weights, and cardiovascular disease deaths to develop an overall environmental health disparities score between 1 and 10 for each census tract in the state. Higher scores correspond to higher rates of environmental health disparities; a score of 9 or 10 indicates that a census tract is "highly impacted" under Washington's Clean Energy Transformation Act (RCW 19.405.020).

There are also several federal tools for EJ mapping. Since each tool takes a different approach to mapping environmental, health, and economic disparities, multiple tools can be used together to determine disadvantaged communities. For CPRG, EPA includes any of the following as LIDACs:

Any census tract included as disadvantaged in CEJST

- Any census block group at or above the 90th percentile for any of EJScreen's Supplemental Indexes when compared to the nation or state
- Tribal lands including Reservations or Off-reservation Trust Lands

While there is significant overlap between census tracts with high environmental health disparities scores and LIDACs, there is not complete agreement. For example, the CEJST tool marks all federally recognized tribal lands as disadvantaged, while the EHD tool does not score census tracts containing tribal lands highly unless these lands also have other significant environmental health disparities. However, other Washington laws require that tribal lands be a focus of clean energy transition, greenhouse gas reductions, and environment justice. A University of Washington researcher has compared these maps and found that another example is that more census tracts in southern parts of Puget Sound are considered highly impacted by the EHD map but not disadvantaged by CEJST; the difference may be because of weighting for various environmental factors between the two tools, different datasets or weighting of datasets, or different metrics that go into one tool versus another (e.g., the EHD map weighs race as a factor because "[a]n individual's race/ethnicity is a primary social determinant of health and is strongly associated with exposure to environmental pollutants" 17).

<u>EPA's EJScreen</u> is another commonly used EJ mapping tool. Unlike the EHD Map, EJScreen does not combine all indicators into one score and unlike CEJST, EJScreen does not identify census block groups as "disadvantaged." Rather, it combines socioeconomic indicators with individual environmental indicators to create thirteen EJ indexes for pollution sources and hazards like superfund proximity or air toxics cancer risk.

2.3.4. Potential benefits of GHG emission reduction measures to LIDACs

Table 24 lists the potential co-benefits that LIDACs would receive from each measure in this PCAP. Potential risks for each measure would be identified as part of EJ assessments and could include environmental assessments for construction for projects and grid related infrastructure improvements. Other potential disbenefits would also be identified directly by impacted LIDACs through outreach and engagement activities.

Table 24. Benefits to LIDACs from Priority Measures

Measure	Direct/Indirect Benefits
Refrigerant reduction	 reduce GHG emissions economic development through transition to climate friendly refrigeration systems for small businesses promote healthy food options in areas that may otherwise have few accessible stores accelerated development of the workforce needed to support the installation and maintenance of climate friendly technologies
Decarbonizing campus energy systems	 reduce GHG emissions enhance resilience of campus infrastructure and reduce the risk of educational disruptions from the imminent failure of the existing infrastructure workforce development reducing operating costs increasing health and safety for maintenance workers
Organics management	reduce GHG emissionsimprove the air quality in communities near landfills

¹⁷ Washington State Department of Health. Washington Environmental Health Disparities Map, Technical Report. Updated July 2022. https://deohs.washington.edu/sites/default/files/2022-08/311-011-EHD-Map-Tech-Report.pdf

Measure	Direct/Indirect Benefits
	reduce methane emissions Potential to increase food recovery
Scrap and replace fossil fuel powered commercial vehicles	 reduce GHG emissions enhance resilience improve air quality promote economic development improve salmon recovery build community knowledge provide cost savings benefit wildlife and habitat reduce emissions (mitigation) relieve local road congestion
Marine terminal electrification	 reduce GHG emissions enhance resilience improve air quality reduce HAPs and CAPs by eliminating the need to burn diesel reduce risk of fuel spills and damage to the marine environment provide cost savings benefit wildlife and habitat
Complete Streets	 reduce GHG emissions improved safety, mobility, and accessibility climate resilience mitigate heat islands housing physical and mental health connectivity plus social capital community centered economic development environment and open space co-governance reduce individual transportation costs
Reduce emissions of fleets for rural and special needs transit	 reduce GHG emissions enhance resilience improve air quality promote economic development improve salmon recovery build community knowledge provide cost savings benefit wildlife and habitat relieve local road congestion
Enable decarbonization of rail infrastructure	 reduce GHG emissions enhance resilience improve air quality promote economic development workforce development
Electrify municipal and tribal fleets including expansion of electric vehicle charging	reduce GHG emissions enhances resilience enable further transportation electrification reduce noise pollution improve air quality promote economic development workforce development

Measure	Direct/Indirect Benefits
Mode shift from trucking to water transportation to reduce vehicles miles travelled	 reduce GHG emissions reduce VMT through communities reduce noise pollution enhance resilience improve air quality promote economic development workforce development
Support tribal energy sovereignty through Tribal Clean Energy grants	 support tribal sovereignty reduce GHG emissions enhance resilience promote economic development workforce development
Fund anaerobic digesters	 reduce GHG emissions enhance resilience reduce waste volume reduce water pollution

2.3.5 Community engagement

Washington conducted intergovernmental coordination and public outreach in the development of this PCAP. This section outlines the approach to facilitating meaningful engagement strategies, aiming to ensure broad representation from across the state in the identification of priority measures.

Collaborating partners in PCAP development

This PCAP is designed to address and identify the priority measures that are implementation ready, can be completed in the near term (defined as the five-year performance period of the implementation grant), and follows state GHG reduction mandates. The priority measures in this PCAP include actions that will be competitive for Phase 2 CPRG funding implementation grant awards.

Washington actively engaged with all CPRG Phase 1 awardees in the state, encouraging them to coordinate and collaborate on CPRG deliverables and potential Phase 2 implementation grant applications. Puget Sound Clean Air Agency (PSCAA), lead for the Seattle-Tacoma-Bellevue Metro Statistical Area (MSA), and Washington began collaboration prior to the submission of the CPRG Phase 1 application. Despite the tight timeline for developing the PCAP, due by March 1, 2024, Washington made significant efforts to ensure the inclusion of voices from a diverse range of interested partners.

To identify collaborating partners for the PCAP, Washington reached out to tribes, state and local agencies, organizations with an interest in clean energy infrastructure and practices, as well as the general public. These collaborating partners encompass various entities, groups, and individuals who may be affected by the PCAP's implementation, including but not limited to:

- State agencies
- Metropolitan planning organizations
- Economic development organizations
- Environmental advocates
- Industrial associations
- Automotive associations

- Utilities
- Agricultural associations
- Waste management organizations
- Industrial organizations
- Consumer advocates
- Local elected officials

- Community-based organizations
- Chambers of commerce

General public

Outreach and Coordination Plan

Commerce established the <u>Washington Climate Pollution Reduction Grant Program</u> website upon receiving the grant, serving as a central hub for information, meeting announcements, and collaboration opportunities related to the Washington Climate Pollution Reduction Grant Program. Engagement strategies encompassed various channels, including email lists, social media, public surveys, online meetings, public comment periods, and a <u>dedicated portal</u> for submitting ideas and input.

For detailed insights into outreach and coordination efforts, covering interagency and intergovernmental coordination, partnering agencies, and public engagement associated with the PCAP's development, refer to Appendix A, Table 1A. Additionally, Appendix B, Table 1B provides specifics on recurring workgroup meetings dedicated to offering guidance, subject matter expertise, collaboration, and outreach coordination regarding CPRG progress. Meeting and outreach materials and resources are available at <u>WA CPRG Meeting Materials</u>.

2.4 Workforce planning analysis

The priority measures included in this PCAP will result in the creation of high-quality jobs for Washington. This section details Washington's strategies and commitments to ensure job quality, strong labor standards, and a diverse, highly skilled workforce to implement priority measures. In 2023, Governor Inslee and the Legislature passed the <u>Climate and Clean Energy Service and Workforce Programs</u> bill, House Bill 1176.

The goals of this legislation include:

- Enacting the Washington Climate Corps Network to support and grow climate-related service opportunities for young adults and veterans.
- Establishing the Clean Energy Technology Workforce Advisory Committee (CETWAC) to advise policymakers on efforts to support the expansion of clean energy technology sectors and jobs by prioritizing transition of the existing skilled workforce to new industry sectors and providing training opportunities where needed to address gaps.

CETWAC is tasked with recommending strategies to prevent workforce displacement, to support job creation in clean energy technology sectors, and to provide support for workforce-related changes to businesses and for adversely impacted workers. CETWAC membership is open to all interested parties including, but not limited to, business and worker representatives from sectors of the economy affected by the transition to clean energy.

In addition to the Commerce, participating CETWAC entities include:

- International Brotherhood of Electrical Workers
- Employment Security Department
- Northwest Laborers' Employers Cooperation and Education Team
- Governor's Office
- Washington and Northern Idaho District Council of Laborers
- State Board of Community & Technical Colleges
- Global Operational Due Diligence

- Washington Labor Advisory Committee
- Amalgamated Transit Union
- Washington Building Trades
- City of Seattle
- Workforce Training and Education Coordinating Board
- WSU Energy,
- BlueGreen Alliance
- CleanTech Alliance
- United Steel Workers
- PNW Center of Excellence for Clean Energy
- Puget Sound Partnership
- Washington State Association of Plumbers & Pipefitters
- Washington Roundtable
- Office of Financial Management
- MacDonald Miller
- Association of Washington Business
- Department of Labor and Industries
- Puget Sound Energy
- Sheet Metal Workers Union

CETWAC is serving as a policy development hub supporting public and private partnerships and facilitating regional and industry specific workforce needs. Over the next two years, aligning with the HEAL Act and President Biden's Executive Order 14008 Justice40 Initiative, emphasis will be placed on diversity and inclusion in recruitment and training, especially for workers in overburdened, marginalized, and vulnerable communities. The committee will work with education and training sources to encourage opportunities in clean energy and technology for workers, both those entering the workforce for the first time, and for workers interested in a career shift. Recommendations will be made to create a crosswalk of transferable skills between industries and supporting alterations in curriculum for career training and educational programs as well as registered apprenticeships. Supporting creation of family wage jobs, while meeting employer needs for skilled workers will address Washington's future job needs and bring a financial boost to families and the state's economy.

Over the next few years, the Advisory Committee plans to prioritize a comprehensive analysis of Washington's clean energy policies' impact on the current workforce. This includes assessing the capacity of existing education and training programs to meet clean energy sector workforce needs, while also evaluating the demographics of the workforce and efforts to bring equity to the Washington workforce. Recommendations to policymakers will involve input from a balance of business, labor interests, education and training programs, as well as state agencies.

The first <u>CETWAC report</u> includes preliminary policy issues identified by the advisory group to assist with clean energy technology workforce development. The recommendations include:

Policymakers fund grant development and management capacity for state and local agencies, tribal
governments, postsecondary education and technical programs, as well as registered apprenticeship
programs, to best leverage available federal funding opportunities focused on clean energy technology
workforce needs. This will enable local partnerships between government, labor, business, and others
to plan, solicit, and implement clean energy workforce activities.

2.	Policymakers at the state, local and federal level address delays, and work to improve the predictabilit of the permitting process to help business, labor, and communities plan for their workforce needs.

3. Next Steps: Comprehensive Climate Action Plan

The next step for the CPRG planning grant is to develop Washington's Comprehensive Climate Action Plan (CCAP). This section details the EPA requirements and current plans for that work.

3.1 CCAP development

The CCAP is a crucial tool in determining the full scope of actions required to reach the state-mandated limit of net-zero emissions by 2050. It will be a pathways analysis, identifying and prioritizing cost-effective opportunities to achieve Washington's emission limits. The development of the CCAP will align with the state's EJ and equity objectives, as stipulated in the HEAL Act and state agency-specific community engagement plans. The elements that are required by EPA in the CCAP include:

- Element 2.1, GHG Inventory
- Element 2.2, GHG Emissions Projections
- Element 2.3, GHG Reduction Targets
- Element 2.4, Quantified Comprehensive GHG Reduction Measures
- Element 2.5, Benefits Analysis
- Element 2.6, Low-Income and Disadvantaged Communities Benefits Analysis
- Element 2.7, Review of Authority to Implement
- Element 2.8, Leverage and Intersection with other Funding
- Element 2.9, Workforce Planning Analysis
- Element 2.10, Stakeholder engagement activities

3.2 Future outreach and engagement

Washington, in collaboration with the Puget Sound Clean Air Agency (PSCAA),¹⁸ will host the CPRG CCAP Public Kick-Off meeting on April 29th, 2024. The partners will adopt a comprehensive and equitable approach to GHG reduction strategies that includes lived experience. Building on relationships established during the PCAP, Washington aims to deepen existing connections and expand avenues for engagement during CCAP community outreach. Cascadia Consulting Group, Inc. has been contracted by Commerce to strategize on how to identify and engage low-income and disadvantaged communities, creating meaningful opportunities for resident input regarding concerns and priorities. Cascadia (Cascadia) will also assist in establishing specialized workgroups tailored to specific sectors, measures, regions, and shared areas of interest.

Washington plans to overcome participation barriers by utilizing available funds from the CPRG planning grant. These funds will be allocated for needed services, such as translation services, stipends for participation in listening sessions, space rental, and tabling/participation in community events. A combination of hybrid inperson and virtual events will address geographic representation concerns, allowing individuals to attend regardless of their ability to physically reach a location. Meeting locations will be selected with consideration for community trust, accessibility, and flexibility.

Multiple communication channels, such as press releases, social media, online meetings, focus groups, public meetings, and both virtual and in-person community dialogues, will be leveraged to inform and invite interested parties and the public to participate in CCAP development. Regular updates on progress, upcoming

¹⁸ the lead for the Seattle/Tacoma/Bellevue municipal statistical area (MSA)

engagement opportunities, and solicitation of feedback will be provided through these channels. By employing these engagement methods, Washington aims to incorporate the priorities and concerns of low-income and disadvantaged communities into the CCAP while ensuring alignment with federal government guidance.

3.3 Measures identified for CCAP consideration

Commerce received public feedback on draft PCAP priority measures, which were made publicly available for review from December 19, 2023 through January 12, 2024. Measures that were not aligned with the goals of the PCAP, but were aligned with overall Washington GHG reduction strategies, are presented in Appendix C, Table 1C and will be considered in development of the CCAP. These measures will not be used for CPRG Phase 2 Implementation funding.

Beyond the measures outlined in Appendix C, conducting a thorough analysis of measures across all sectors is essential to meet the state's net-zero emissions requirement by 2050. Through extensive outreach, Washington intends to engage state agencies, local governments, subject matter experts, tribes, and the public in shaping the CCAP. This collaborative approach ensures that relevant measures in various communities are considered, emphasizing EJ and equity goals. As the CPRG team transitions to the next phase, these measures will not only steer CCAP development but also play a vital role in achieving overall success in GHG emissions reduction, fostering an inclusive and sustainable approach to tackling climate pollution challenges.

Appendix A. CPRG PCAP Outreach and Coordination Log

Table 1A. CPRG PCAP Outreach and Coordination Log 7/1/2023 - 2/29/2024

Date/ Schedule	Topic	Organizations Involved	Outreach Method	Outcome/Links
6/27-29/ 2023	Conveners Network in Chicago	Commerce & Ecology	In Person - Chicago	Coordinate and connect with other states on the CPRG
8/28/2023	Public Engagement	Commerce and other state agencies	Lunch and Learn zoom	Public utility focused
9/19/2023	Presentation with Energy Division	Affiliated Tribes of Northwest Indians (ATNI) Convention	In Person	Information sharing
9/20/2023	Refineries Emissions Workgroup	RMI, Ecology, Commerce	Online	Review reduction strategies
9/21/2023	Seattle/Bellevue/Tacoma MSA CPRG Kick Off Meeting	PSCAA (Lead), Commerce and Ecology present	In Person	Collaboration with MSA
10/30/2023	CPRG Phase 1 Quarterly Meeting	Commerce and Ecology present with General Public in attendance	Online	Introduction to CPRG and first quarter progress. 80 attendees
11/14/2023	Phase 2 Public Stakeholder Meeting	Department of Commerce & PSCAA	Online	180 virtual attendees, collaboration, partnership building, survey for GHG priority identification
11/15/2023	Phase 2 Working Session	Governor's Office, Commerce, Ecology, PSCAA, Cascadia Consulting	Online	Identified Governor office priorities for GHG reduction measures
11/20/2023	CPRG and UCUT Collaboration	Commerce and UCUT	Online	Collaboration and Partnership with Tribal CRPG recipient. 8 attendees
11/21/2023	CPRG Phase 1 Tribal Collaboration Gathering	Commerce and 10 tribes who received CPRG Phase 1 grants were invited	Online	Coordination and Partnership with Tribal CPRG recipients. 19 attendees from 5 tribes.
11/28/2023	CPRG/Cascadia Ideation meeting for CPRG Message and Tools for Effective Outreach	Commerce, Cascadia, PSCAA, Ecology	Online	Brainstorming session to identify CPRG Communications, Messaging, and Outreach needs. 10 attendees
12/15/2023	Phase 2 Working Session	Governor's Office, Commerce, Ecology, PSCAA, Cascadia Consulting	Online	Strategy development for State and MSA Phase 2 applications. 10 attendees
12/20/2023	CPRG Phase 1 Tribal Collaboration Gathering follow up	Commerce and 10 tribes and 2 tribal consortium who received CPRG Phase 1 grants were invited	Online	Coordination and Partnership with Tribal CPRG recipients. 19 attendees from 5 tribes and 1 tribal consortium
12/21/2023	Phase 2 Strategy Session	Governor's Office, Commerce, Ecology, and PSCAA	Online	Discussion and identification of PCAP draft measures for potential Phase 2 Implementation Grant. 24 attendees

Date/ Schedule	Topic	Organizations Involved	Outreach Method	Outcome/Links
1/10/2024	CPRG/Cascadia Ideation meeting for Engagement and Outreach	Commerce, Cascadia, PSCAA, Ecology, and DH Consulting	Online	Identify Outreach and Engagement goals, objectives, impacts, methods, and barriers to engagement. 8 attendees
1/11/2024	CPRG Monthly Tribal Workgroup Preparation	Commerce and Office of Tribal Relations	Online	Assist with preparation and review for up-coming CPRG Monthly Tribal Workgroup. 2 attendees
1/18/2024	Peninsula Regional Transportation Planning Organization (PRTPO) Advisory Committee	PRTPO, Commerce, and interested public members	Online	Presented information on CPRG to Advisory group. 30 attendees
1/29/2024	CPRG Phase 1 Quarterly Meeting	Commerce and Ecology present with General Public in attendance	Online	CPRG Planning Grant progress. 188 virtual attendees.
Throughout PCAP	Numerous one on one meetings	Various state and local agencies, tribes, communities, subject matter experts, businesses, and public	Online, In Person, Phone	Collaboration on PCAP measures and identification of potential Phase 2 Implementation grant projects. Outreach to 95+

Appendix B. CPRG PCAP Recurring Workgroup Log

Table 1B. CPRG PCAP Recurring Workgroup Log 7/1/2023 - 2/29/2024

Date/ Schedule	Topic	Organizations Involved	Outreach Method	Outcome/Links
Weekly	CPRG State/MSA Coordination meetings	Department of Commerce & PSCAA	Online	CPRG Outreach, engagement, and coordination.
Weekly	Commerce/ Ecology CPRG Progress Meeting	Commerce & Ecology	Online	Updating progress toward CPRG deliverables.
Weekly 9/28/2023- 11/1/2023 then moved to Monthly	Weekly Clean Energy Workforce Technical Advisory Committee	Clean Energy Technology Board, Commerce, Union Worker Representatives, Employment Security Department, Labor organizations, Governor's Offices, State Boards and Councils, College and Training Institutions, Trade Organizations, Various State and Local Organizations, Business Organizations, Council of Laborers, and various Industry Representatives	Online	Workforce Planning Analysis Collaboration.
Bimonthly 7/1/2023-10/31/2023	Office of Financial Management Coordination	OFM and Commerce	Online	Coordination of CPRG operations.
Bi- Monthly as of Nov 2023- Feb 2024	CPRG and Cascadia Communication/ Engagement Meetings	Commerce and Cascadia Communications	Online	Coordination of marketing, communications, and engagement strategy for CPRG program.
Bimonthly as of Jan 2024	CPRG and EPIC coordination	Commerce CPRG and Energy Division EPIC teams	Online	Coordination of climate related programing.
Bi-monthly as of Feb 2024	CPRG, MSA (PSCAA), and Cascadia Communication/ Engagement Meetings	Commerce, PSCAA, and Cascadia Communications	Online	Coordination of marketing, communications, and engagement strategy for CPRG program.
Monthly	CPRG update to State offices	Commerce, Governor's Office, Ecology, Office of Financial Management, Department of Health	Online	Provide updates and guidance on CPRG progress on deliverables.
Monthly	Tribal Climate Roundtable	Tribal governance members, Governor's Office of Indian Affairs, ATNI, Ecology, Commerce, Governor's Office, and Climate related agencies	Online	Provide updates and coordination among different climate related policies, planning, and grants.
Monthly	PSCAA/UW TCTAC Coordination	PSCAA, UW TCTAC, Commerce, Ecology	Online	Program updates, sharing of resources, and coordination.
Monthly	USCA CPRG Monthly Meetings	USCA and CPRG awardees throughout the nation	Online	Coordination and collaboration among CPRG recipients.

Date/ Schedule	Торіс	Organizations Involved	Outreach Method	Outcome/Links
Monthly	CPRG and Office of Tribal Relations Coordination	Commerce CRPG and Office of Tribal Relations	Online	Coordination and technical assistance to prepare for tribal engagement.
Monthly	Energy Tribal Relations Committee	Commerce Energy Division programs	Online	Coordinate tribal relations and outreach among Energy Division at Commerce.
Monthly	Righting our Relations: Tribal Resource Group	Commerce staff & Office of Tribal Relations	Online	Provide information, conversations, tools, tips, techniques, and coordination of tribal engagement.
Monthly	Energy Resilience Workgroup	Commerce Energy Department Staff	Online	Coordination of Commerce Energy Programs
Monthly	Washington, Oregon, ATNI, MSA, and EPA Coordination calls	Affiliated Tribes of NW Indians (ATNI), Oregon State- DEQ & ODOE, Washington State - Commerce & Ecology, Portland- Vancouver Metro MSA, Seattle-Tacoma- Bellevue MSA (PSCAA), EPA	Region 10 listserv	CPRG Updates, Collaboration, and Coordination.
Monthly	Environmental Justice Council Meeting	EJ appointed council members and interested public attendees	Online	Provide information about EJ within the state of Washington.

Appendix C. Potential CCAP GHG measures

Table1C. Measures that will be explored further in the CCAP but are not included in Washington's PCAP and will not be considered for CPRG Phase 2 Implementation funding.

Sector	Greenhous gas reduction measure
Solid waste management	Use renewable energy plus storage for backup power at wastewater treatment plant
Solid waste management	Fund food donation and transportation related cold chain infrastructure
Solid waste management	Retrofit anaerobic digesters, including more energy efficient pumps, lights, and other support systems that will reduce the electrical and fossil fuel load
Electric power sector	Create a virtual power plant incentive program
Built Environment	Energy efficiency upgrades for public libraries
Agriculture	Decarbonize agriculture and forestry using electrification, on-farm charging, and energy efficiency measures-especially in heating, cooling, pumps, and other equipment
Agriculture	Provide grants and incentives for in-state alternative nitrogen fertilizer production
	Fund neighborhood energy districts
Building	Deploy natural refrigerant heat pumps and chillers with stratified thermal storage to enable thermal demand to be decoupled from power supply
	Fund residential, commercial and municipal waste heat recovery
Building	Fund EV chargers in multifamily homes
	Fund EV chargers at commercial buildings (ex. building-supply centers) and places of employment
Building	Replace electric resistance water heaters and electric resistance space heating in "mobile homes" with heat pump systems
Building	Incentive programs for electric heat pump water heaters for residential gas customers
Building	Fund residential, campus, commercial and municipal waste heat recovery
Building	Fund digital building controls that enable deep energy savings, such as conservation of electrical energy for fans and motors, in older commercial and campus buildings
	Support sub-metering capabilities at campuses as a tool for conservation
Building	Holistic library retrofits to create resilience hubs, including solar and storage, high-quality air filtration, and all-electric heating and cooling alongside energy efficiency upgrades
Building	Expand Funding for High Efficiency Electrification Programs through existing residential energy efficiency program to achieve 3,000 installations of ductless heat pumps in moderate income homes, replacing oil, gas, propane, or wood heat
Building	Fund K-12 community resilience hub and distributed energy/storage demonstration projects with solar panels, geothermal heating/cooling, and bi-directional EV buses
General	I want cleaner energy, and air land and water

Sector	Greenhous gas reduction measure
Carbon Removal Measures	Include carbon capture as a viable means to reduce GHG emissions. For large buildings and campus settings
Electric Power Sector	Fund existing or expired renewable energy incentive programs
Electric Power Sector	Encourage the use of solar modules with a low carbon footprint
Transportation	In addition to Complete Streets, fund complementary land use patterns that generate walk, bike, and transit trips
Carbon Removal Measures	Carbon sequestration on natural and working lands, including restoration treatments on acquired properties, expanded invasive species management, and land acquisition for conservation practices.
Transportation	Low-interest loan/financing for low-income individuals for electric vehicle purchases
Transportation	Incentives for income-qualified residents to purchase e-bikes
Transportation	Programs to increase the share of electric vehicles and to expand electric vehicle charging infrastructure powered by renewable energy
Transportation	Improve public transit service and infrastructure
Transportation	Truck and vehicle replacements for small businesses to upgrade their gasoline & diesel vehicles to electric or hybrid electric.

Appendix D. LIDACs in Washington

Please see Attachment 1 for a full list of Washington LIDACs, which includes data from both the Climate and Economic Justice Screening Tool and the Environmental Justice Screening and Mapping Tool.
The underlying data from both tools and technical documentation can be found on the EPA website: <u>Inflation</u> Reduction Act Disadvantaged Communities Map

OID_ ID	National Comm Index	State_Supp_Index	CEJST	Alaska_Native_Allotments	Alaska_Native_Villages	American_Indian_Reservations	OffReservation_Trust_Lands	Oklahoma_Statistical_Areas	Disadvantaged
227682	National_Supp_Index 530019501001 No	No No	Yes	No	No	No No	No	No	Yes
227683	530019501001 No	No	Yes	No	No	No	No	No	Yes
227684	530019501002 No	Yes	Yes	No	No	No	No	No	Yes
227685	530019502001 No	No	Yes	No	No	No	No	No	Yes
227686	530019502002 No	Yes	Yes	No	No	No	No	No	Yes
227687	530019502003 No	Yes	Yes	No	No	No	No	No	Yes
227688	530019503011 Yes	Yes	Yes	No	No	No	No	No	Yes
227689	530019503021 Yes	Yes	Yes	No	No	No	No	No	Yes
227690	530019503031 Yes	Yes	Yes	No	No	No	No	No	Yes
227691	530019503032 No	No	Yes	No	No	No	No	No	Yes
227692	530019504001 Yes	Yes	Yes	No	No	No	No	No	Yes
227693	530019504002 Yes	Yes	Yes	No	No	No	No	No	Yes
227694	530019505001 Yes	Yes	Yes	No	No	No	No	No	Yes
227695	530019505002 Yes	Yes	Yes	No	No	No	No	No	Yes
227696	530019505003 Yes	Yes	Yes	No	No	No	No	No	Yes
227704	530039603001 Yes	Yes	Yes	No	No	No	No	No	Yes
227705	530039603002 No	Yes	Yes	No	No	No	No	No	Yes
227706	530039603003 No	Yes	Yes	No	No	No	No	No	Yes
227707	530039603004 No	No	Yes	No	No	No	No	No	Yes
227708	530039604001 No	Yes	Yes	No	No	No	No	No	Yes
227709	530039604002 No	No	Yes	No	No	No	No	No	Yes
227710	530039605001 Yes	Yes	Yes	No	No	No	No	No	Yes
227711	530039605002 Yes	Yes	Yes	No	No	No	No	No	Yes
227712	530039605003 No	No	Yes	No	No	No	No	No	Yes
227713	530039605004 No	No	Yes	No	No	No	No	No	Yes
227714	530039606001 No	Yes	No	No	No	No	No	No	Yes
227716	530039606003 No	Yes	No	No	No	No	No	No	Yes
227717	530039606004 No	Yes	No	No	No	No	No	No	Yes
227728	530050102042 Yes	Yes	No	No	No	No	No	No	Yes
227731	530050103003 No	Yes	No	No	No	No	No	No	Yes
227733	530050104001 No	Yes	Yes	No	No	No	No	No	Yes
227734	530050104002 No	Yes	Yes	No	No	No	No	No	Yes
227735 227736	530050104003 No 530050105001 No	Yes Yes	Yes Yes	No No	No No	No No	No No	No No	Yes Yes
227737	530050105001 No 530050105002 No	Yes	Yes		No	No	No	No	Yes
227740	530050105002 NO 530050106003 Yes	Yes	No	No No	No	No	No	No	Yes
227740	530050100003 Tes 530050107011 No	Yes	No	No	No	No	No	No	Yes
227744	530050107011 No	No	Yes	No	No	No	No	No	Yes
227745	530050107031 No	No	Yes	No	No	No	No	No	Yes
227746	530050107032 No 530050107033 Yes	Yes	Yes	No	No	No	No	No	Yes
227758	530050107055 Yes 530050108092 No	Yes	No	No	No	No	No	No	Yes
227766	530050108151 No	Yes	No	No	No	No	No	No	Yes
227784	530050109012 No	Yes	No	No	No	No	No	No	Yes
227786	530050109014 Yes	Yes	No	No	No	No	No	No	Yes
227788	530050109021 No	No	Yes	No	No	No	No	No	Yes
227789	530050109022 Yes	Yes	Yes	No	No	No	No	No	Yes
227790	530050109023 No	Yes	Yes	No	No	No	No	No	Yes
227791	530050110011 No	No	Yes	No	No	No	No	No	Yes
227792	530050110012 No	Yes	Yes	No	No	No	No	No	Yes
227793	530050110013 Yes	Yes	Yes	No	No	No	No	No	Yes
227794	530050110014 Yes	Yes	Yes	No	No	No	No	No	Yes
227795	530050110015 No	Yes	Yes	No	No	No	No	No	Yes
227796	530050110021 No	Yes	Yes	No	No	No	No	No	Yes
227797	530050110022 Yes	Yes	Yes	No	No	No	No	No	Yes
227798	530050110023 No	No	Yes	No	No	No	No	No	Yes
227799	530050110024 Yes	Yes	Yes	No	No	No	No	No	Yes
227800	530050111001 No	Yes	No	No	No	No	No	No	Yes
227802	530050111003 No	Yes	No	No	No	No	No	No	Yes
227803	530050111004 No	Yes	No	No	No	No	No	No	Yes
227806	530050112011 No	Yes	Yes	No	No	No	No	No	Yes
227807	530050112012 No	No	Yes	No	No	No	No	No	Yes
227808	530050112013 Yes	Yes	Yes	No	No	No	No	No	Yes
227809	530050112014 Yes	Yes	Yes	No	No	No	No	No	Yes
227810	530050112021 Yes	Yes	Yes	No	No	No	No	No	Yes

227811	E200E0112022 Vee	Vec	Ves	No	Ne	Ne	No	Ne	Vac
	530050112022 Yes	Yes	Yes	No	No	No	No	No	Yes
227812	530050113001 Yes	Yes	Yes	No	No	No No	No.	No No	Yes
227813	530050113002 No	No	Yes	No	No	No	No	No	Yes
227814	530050113003 Yes	Yes	Yes	No	No	No	No	No	Yes
227815	530050113004 Yes	Yes	Yes	No	No	No	No	No	Yes
227816	530050114011 Yes	Yes	Yes	No	No	No	No	No	Yes
227817	530050114012 No	No	Yes	No	No	No	No	No	Yes
227818	530050114013 Yes	Yes	Yes	No	No	No	No	No	Yes
227824	530050115011 Yes	Yes	No	No	No	No	No	No	Yes
227825	530050115012 Yes	Yes	No	No	No	No	No	No	Yes
227826	530050115013 Yes	Yes	No	No	No	No	No	No	Yes
227829	530050115041 Yes	Yes	No	No	No	No	No	No	Yes
227831	530050115051 No	Yes	No	No	No	No	No	No	Yes
227832	530050115052 Yes	Yes	No	No	No	No	No	No	Yes
227837	530050116001 No	Yes	Yes	No	No	No	No	No	Yes
227838	530050117011 Yes	Yes	Yes	No	No	No	No	No	Yes
227839	530050117021 Yes	Yes	Yes	No	No	No	No	No	Yes
227840	530050117022 Yes	Yes	Yes	No	No	No	No	No	Yes
227841	530050117023 No	No	Yes	No	No	No	No	No	Yes
227842	530050117024 No	No	Yes	No	No	No	No	No	Yes
227843	530050118011 Yes	Yes	No	No	No	No	No	No	Yes
227846	530050118021 No	Yes	No	No	No	No	No	No	Yes
227847	530050118022 No	Yes	No	No	No	No	No	No	Yes
227848	530050118023 No	Yes	No	No	No	No	No	No	Yes
227849	530050119001 Yes	Yes	No	No	No	No	No	No	Yes
227850	530050119002 Yes	Yes	No	No	No	No	No	No	Yes
227851	530050119003 No	Yes	No	No	No	No	No	No	Yes
227863	530079603011 No	No	Yes	No	No	No	No	No	Yes
227864	530079603012 No	No	Yes	No	No	No	No	No	Yes
227865	530079603013 Yes	Yes	Yes	No	No	No	No	No	Yes
227866	530079603021 No	No	Yes	No	No	No	No	No	Yes
227867	530079603022 No	No	Yes	No	No	No	No	No	Yes
227868	530079603023 Yes	Yes	Yes	No	No	No	No	No	Yes
227869	530079603031 No	No	Yes	No	No	No	No	No	Yes
227870	530079603032 No	No	Yes	No	No	No	No	No	Yes
227871	530079604001 No	Yes	Yes	No	No	No	No	No	Yes
227872	530079604002 No	No	Yes	No	No	No	Yes	No	Yes
227873	530079604003 No	No	Yes	No	No	No	Yes	No	Yes
227874	530079604004 No	No	Yes	No	No	No	No	No	Yes
227878	530079605021 Yes	Yes	No	No	No	No	No	No	Yes
227881	530079606001 Yes	Yes	No	No	No	No	No	No	Yes
227889	530079608031 No	Yes	No	No	No	No	No	No	Yes
227891	530079608041 Yes	Yes	No	No	No	No	No	No	Yes
227892	530079608042 No	Yes	No	No	No	No	No	No	Yes
227893	530079610011 No	Yes	Yes	No	No	No	No	No	Yes
227894	530079610012 No	Yes	Yes	No	No	No	No	No	Yes
227895	530079610013 No	Yes	Yes	No	No	No	No	No	Yes
227896	530079610021 Yes	Yes	Yes	No	No	No	No	No	Yes
227897	530079610022 Yes	Yes	Yes	No	No	No	No	No	Yes
227898	530079610023 No	No	Yes	No	No	No	No	No	Yes
227899	530079610024 No	No	Yes	No	No	No	No	No	Yes
227900	530079611011 Yes	Yes	Yes	No	No	No	No	No	Yes
227901	530079611012 Yes	Yes	Yes	No	No	No	No	No	Yes
227902	530079611013 No	No	Yes	No	No	No	No	No	Yes
227903	530079611021 No	Yes	Yes	No	No	No	No	No	Yes
227904	530079611022 No	No	Yes	No	No	No	No	No	Yes
227905	530079611023 Yes	Yes	Yes	No	No	No	No	No	Yes
227906	530079611024 Yes	Yes	Yes	No	No	No	No	No	Yes
227917	530090003001 No	No	Yes	No	No	No	No	No	Yes
227918	530090003002 No	No	Yes	No	No	No	No	No	Yes
227919	530090003003 No	No	Yes	No	No	No	No	No	Yes
227920	530090003004 No	No	Yes	No	No	No	No	No	Yes
227923	530090006003 No	No	No	No	No	Yes	Yes	No	Yes
227925	530090007002 No	No	Yes	No	No	No	No	No	Yes
227926	530090007003 No	No	Yes	No	No	No	No	No	Yes

227927	530090008001 No	Yes	Yes	No	No	No	No	No	Yes
227928	530090008002 No	No	Yes	No	No	No	No	No	Yes
227929	530090008003 No	No	Yes	No	No	No	No	No	Yes
227930	530090009001 No	Yes	No	No	No	No	No	No	Yes
227931	530090009002 No	Yes	No	No	No	No	No	No	Yes
227934	530090010002 No	Yes	Yes	No	No	No	No	No	Yes
227948	530090015002 No	No	No	No	No	Yes	Yes	No	Yes
227949	530090016001 No	No	Yes	No	No	No	No	No	Yes
227950	530090016002 No	No	Yes	No	No	No	No	No	Yes
227951	530090016003 No	No	Yes	No	No	No	No	No	Yes
227952	530090017011 No	No	Yes	No	No	No	Yes	No	Yes
227953	530090017012 No	No	Yes	No	No	No	Yes	No	Yes
227954	530090017021 No	No	Yes	No	No	No	Yes	No	Yes
227959	530090019011 No	No	No	No	No	No	Yes	No	Yes
227960	530090019012 No	No	No	No	No	No	Yes	No	Yes
227962	530090019021 No	No	No	No	No	No	Yes	No	Yes
227968	530090020022 No	No	No	No	No	No	Yes	No	Yes
227969	530090021001 No	No	Yes	No	No	No	No	No	Yes
227970	530090021002 No	Yes	Yes	No	No	No	No	No	Yes
227971	530090021003 No	No	Yes	No	No	No	No	No	Yes
227973	530090023012 No	No	No	No	No	Yes	Yes	No	Yes
227975	530090023022 No	No	No	No	No	No	Yes	No	Yes
227976	530090023023 No	No	No	No	No	Yes	Yes	No	Yes
227977	530090024001 No	No	Yes	No	No	No	No	No	Yes
227978	530090024002 No	No	Yes	No	No	Yes	No	No	Yes
227979	530090024003 No	No	No	No	No	Yes	No	No	Yes
227980	530099400001 No	Yes	No	No	No	Yes	No	No	Yes
227981	530099400002 Yes	Yes	Yes	No	No	Yes	No	No	Yes
227999	530110403011 No	No	No	No	No	Yes	No	No	Yes
228040	530110405072 No	Yes	No	No	No	No	No	No	Yes
228042	530110405092 Yes	Yes	No	No	No	No	No	No	Yes
228073	530110407034 No	Yes	No	No	No	No	No	No	Yes
228074	530110407061 No	Yes	Yes	No	No	No	No	No	Yes
228075	530110407062 No	Yes	Yes	No	No	No	No	No	Yes
228076	530110407071 No	Yes	No	No	No	No	No	No	Yes
228086	530110407123 No	Yes	No	No	No	No	No	No	Yes
228104	530110408092 Yes	Yes	No	No	No	No	No	No	Yes
228117	530110409044 Yes	Yes	No	No	No	No	No	No	Yes
228134	530110410031 No	Yes	No	No	No	No	No	No	Yes
228138	530110410051 Yes	Yes	Yes	No	No	No	No	No	Yes
228139	530110410052 Yes	Yes	Yes	No	No	No	No	No	Yes
228141	530110410072 No	Yes	No	No	No	No	No	No	Yes
228149	530110410101 No	Yes	Yes	No	No	No	No	No	Yes
228150	530110410102 No	No	Yes	No	No	No	No	No	Yes
228153	530110411041 Yes	Yes	Yes	No	No	No	No	No	Yes
228154	530110411042 No	No	Yes	No	No	No	No	No	Yes
228156	530110411052 Yes	Yes	No	No	No	No	No	No	Yes
228162	530110411102 No	Yes	No	No	No	No	No No	No	Yes
228164	530110411104 No	Yes	No	No	No	No	No	No	Yes
228165	530110411111 Yes	Yes	Yes	No	No	No	No No	No	Yes
228166	530110411112 Yes	Yes	Yes	No	No	No	No No	No	Yes
228170 228171	530110411124 No	Yes	No	No	No No	No No	No No	No No	Yes
	530110411131 No	Yes	Yes	No	No No	No	No No	No	Yes
228172 228173	530110411141 No 530110411142 No	Yes	Yes Yes	No No	No No	No No	No No	No No	Yes Yes
228173	530110411142 No 530110411143 No	Yes	Yes	No	No No	No	No No	No	Yes
228174	530110411143 No 530110411144 No	No Yes	Yes	No No	No No	No No	No No	No No	Yes Yes
228175	530110411144 NO 530110412031 Yes			No		No	No No	No	
228176	530110412031 Yes 530110412051 No	Yes	No No	No	No No	No No	No No	No No	Yes Yes
228179	530110412051 No 530110412053 Yes	Yes	No	No	No No	No No	No No	No	Yes
228183	530110412033 Tes 530110412062 No	Yes	No	No	No	No	No	No	Yes
228185	530110412062 NO 530110412071 No	Yes	No	No	No No	No	No No	No	Yes
228186	530110412071 No 530110412072 No	Yes	No	No	No	No	No No	No	Yes
228199	530110412072 No 530110413122 No	Yes	No	No	No	No	No	No	Yes
228201	530110413122 No 530110413124 No	Yes	No	No	No	No	No No	No	Yes

228202	530110413131 No	Yes	No	No	No	No	No	No	Yes
228202	530110413131 NO 530110413204 No	Yes	No	No	No	No	No	No	Yes
228215	530110413204 No 530110413205 Yes	Yes	No	No	No	No	No	No	Yes
228219	530110413222 No	Yes	No	No	No	No	No	No	Yes
228220	530110413222 No	Yes	No	No	No	No	No	No	Yes
228221	530110413231 Yes	Yes	No	No	No	No	No	No	Yes
228222	530110413232 Yes	Yes	No	No	No	No	No	No	Yes
228223	530110413233 Yes	Yes	No	No	No	No	No	No	Yes
228224	530110413234 Yes	Yes	No	No	No	No	No	No	Yes
228225	530110413235 Yes	Yes	No	No	No	No	No	No	Yes
228240	530110413311 No	Yes	No	No	No	No	No		Yes
228251	530110413361 No	Yes	No	No	No	No	No	No	Yes
228255	530110414001 No	Yes	No	No	No	No	No	No	Yes
228259	530110415002 Yes	Yes	No	No	No	No	No	No	Yes
228261	530110416001 Yes	Yes	Yes	No	No	No	No	No	Yes
228262	530110416002 No	No	Yes	No	No	No	No	No	Yes
228263	530110417001 No	Yes	Yes	No	No	No	No	No	Yes
228264	530110417002 No	Yes	Yes	No	No	No	No	No	Yes
228265	530110418001 No	Yes	Yes	No	No	No	No	No	Yes
228266	530110418002 Yes	Yes	Yes	No	No	No	No	No	Yes
228267	530110418003 No	No	Yes	No	No	No	No	No	Yes
228274	530110423001 Yes	Yes	Yes	No	No	No	No	No	Yes
228275	530110423002 Yes	Yes	Yes	No	No	No	No	No	Yes
228276	530110423003 No	No	Yes	No	No	No	No	No	Yes
228277	530110424001 Yes	Yes	Yes	No	No	No	No	No	Yes
228278	530110424002 No	No	Yes	No	No	No	No	No	Yes
228283	530110426022 No	Yes	No	No	No	No	No	No	Yes
228284	530110427001 Yes	Yes	Yes	No	No	No	No	No	Yes
228285	530110427002 Yes	Yes	Yes	No	No	No	No	No	Yes
228286	530110427003 No	Yes	Yes	No	No	No	No	No	Yes
228291	530110430002 No	Yes	No	No	No	No	No	No	Yes
228301	530150004001 Yes	Yes	Yes	No	No	No	No	No	Yes
228302	530150004002 No	No	Yes	No	No	No	No		Yes
228303	530150004003 No	No	Yes	No	No	No	No	No	Yes
228304	530150004004 No	No	Yes	No	No	No	No	No	Yes
228305	530150004005 Yes	Yes	Yes	No	No	No	No.	No.	Yes
228306	530150004006 No	Yes	Yes	No	No	No	No.	No	Yes
228307 228308	530150005011 No 530150005012 No	Yes Yes	No No	No No	No No	No No	No No	No No	Yes
228308	530150005012 No 530150005013 No	Yes	No	No	No	No	No	No	Yes
228310	530150005013 NO 530150005021 Yes	Yes	Yes	No	No	No	No	No	Yes
228310	530150005021 Yes	Yes	Yes	No	No	No	No	No	Yes
228311	530150005022 Tes 530150005023 Yes	Yes	Yes	No	No	No	No	No	Yes
228313	530150005025 Tes 530150006011 Yes	Yes	Yes	No	No	No	No	No	Yes
228313	530150006011 Tes 530150006012 No	Yes	Yes	No	No	No	No	No	Yes
228315	530150006012 No	Yes	Yes	No	No	No	No	No	Yes
228316	530150006014 Yes	Yes	Yes	No	No	No	No	No	Yes
228321	530150007022 No	Yes	No	No	No	No	No	No	Yes
228322	530150007031 No	Yes	Yes	No	No	No	No	No	Yes
228323		No	Yes	No	No	No	No	No	Yes
	530150007051 No		162						
228324	530150007051 No 530150007052 No	Yes	Yes	No	No	No	No	No	Yes
228324 228325							No No	No No	Yes
	530150007052 No	Yes	Yes	No	No	No			
228325	530150007052 No 530150007061 No	Yes No	Yes Yes	No No	No No	No No	No	No	Yes
228325 228326	530150007052 No 530150007061 No 530150007062 No	Yes No Yes	Yes Yes Yes	No No No	No No No	No No	No No	No No	Yes Yes
228325 228326 228336	530150007052 No 530150007061 No 530150007062 No 530150009021 No	Yes No Yes Yes	Yes Yes Yes	No No No No	No No No No	No No No	No No	No No	Yes Yes
228325 228326 228336 228338	530150007052 No 530150007061 No 530150007062 No 530150009021 No 530150010001 Yes	Yes No Yes Yes Yes	Yes Yes Yes No Yes	No No No No	No No No No No	No No No No	No No No No	No No No No	Yes Yes Yes
228325 228326 228336 228338 228339 228340 228341	530150007052 No 530150007061 No 530150007062 No 530150009021 No 530150010001 Yes 530150010002 Yes 530150011001 No 530150011002 Yes	Yes No Yes Yes Yes Yes Yes No Yes	Yes Yes Yes No Yes Yes Yes Yes Yes	No	No N	No	No No No No No No	No No No No No No	Yes
228325 228326 228336 228338 228339 228340 228341 228342	530150007052 No 530150007061 No 530150007062 No 530150009021 No 530150010001 Yes 530150010002 Yes 530150011001 No 530150011002 Yes 530150011002 Yes 530150011003 No	Yes No Yes Yes Yes Yes Yes Yes Yes No Yes Yes	Yes Yes Yes No Yes Yes Yes Yes Yes Yes Yes	No N	No N	No	No No No No No No No	No No No No No No No	Yes
228325 228326 228336 228338 228339 228340 228341 228342 228343	530150007052 No 530150007061 No 530150007062 No 530150009021 No 530150010001 Yes 530150010002 Yes 530150011001 No 530150011002 Yes 530150011003 No 530150011003 No 530150011004 No	Yes No Yes Yes Yes Yes No Ves Yes Yes No Yes Yes Yes	Yes Yes Yes No Yes Yes Yes Yes Yes Yes Yes Yes Yes	No N	No N	No N	No N	No	Yes
228325 228326 228336 228338 228339 228340 228341 228342 228343 228344	530150007052 No 530150007061 No 530150007062 No 530150007062 No 530150010001 Yes 530150010002 Yes 530150011001 No 530150011003 No 530150011003 No 530150011004 No 530150011005 Yes	Yes No Yes Yes Yes Yes No Yes Yes Yes No Yes Yes Yes Yes Yes	Yes Yes Yes No Yes	No N	No N	No N	No N	No N	Yes
228325 228326 228336 228338 228339 228340 228341 228342 228343 228344 228344	530150007052 No 530150007061 No 530150007062 No 530150009021 No 530150010001 Yes 530150010002 Yes 530150011001 No 530150011002 Yes 530150011003 No 530150011004 No 530150011004 No 530150011005 Yes 530150011006 Yes	Yes No Yes Yes Yes Yes Yes Yes Yes No Yes Yes Yes Yes Yes Yes Yes	Yes Yes Yes No Yes	No N	No	No N	No N	No N	Yes
228325 228326 228336 228338 228339 228340 228341 228342 228343 228344 228345 228346	530150007052 No 530150007061 No 530150007062 No 530150009021 No 530150010001 Yes 530150010002 Yes 530150011001 No 530150011002 Yes 530150011003 No 530150011004 No 530150011005 Yes 530150011005 Yes 530150011006 Yes 530150011007 Yes	Yes No Yes	Yes Yes Yes No Yes	No N	No N	No N	No N	No N	Yes
228325 228326 228336 228338 228339 228340 228341 228342 228343 228344 228344	530150007052 No 530150007061 No 530150007062 No 530150009021 No 530150010001 Yes 530150010002 Yes 530150011001 No 530150011002 Yes 530150011003 No 530150011004 No 530150011004 No 530150011005 Yes 530150011006 Yes	Yes No Yes Yes Yes Yes Yes Yes Yes No Yes Yes Yes Yes Yes Yes Yes	Yes Yes Yes No Yes	No N	No	No N	No N	No N	Yes

228352	530150013002 No	Yes	Yes	No	No	No	No	No	Yes
228353	530150013003 No	Yes	Yes	No	No	No	No	No	Yes
228354	530150013004 Yes	Yes	Yes	No	No	No	No	No	Yes
228362	530150015042 Yes	Yes	No	No	No	No	No	No	Yes
228363	530150015043 No	Yes	No	No	No	No	No	No	Yes
228369	530150017002 No	Yes	No	No	No	No	No	No	Yes
228373	530150018001 No	No	Yes	No	No	No	No	No	Yes
228374	530150018002 No	No	Yes	No	No	No	No	No	Yes
228384	530150020032 No	Yes	No	No	No	No	No	No	Yes
228388	530150021001 Yes	Yes	Yes	No	No	No	No	No	Yes
228389	530150021002 No	No	Yes	No	No	No	No	No	Yes
228390	530150021003 No	Yes	Yes	No	No	No	No	No	Yes
228391	530150021004 Yes	Yes	Yes	No	No	No	No	No	Yes
228392	530159800001 Yes	Yes	Yes	No	No	No	No	No	Yes
228393	530179501011 No	No	Yes	No	No	No	No	No	Yes
228394	530179501012 No	Yes	Yes	No	No	No	No	No	Yes
228395	530179501013 Yes	Yes	Yes	No	No	No	No	No	Yes
228396	530179501014 No	No	Yes	No	No	No	No	No	Yes
228397	530179501021 No	No	Yes	No	No	No	No	No	Yes
228398	530179501022 Yes	Yes	Yes	No	No	No	No	No	Yes
228399	530179501023 Yes	Yes	Yes	No	No	No	No	No	Yes
228408	530179504002 Yes	Yes	No	No	No	No	No	No	Yes
228413	530179505003 No	Yes	No	No	No	No	No	No	Yes
228418	530179507001 Yes	Yes	Yes	No	No	No	No	No	Yes
228419	530179507002 No	Yes	Yes	No	No	No	No	No	Yes
228420	530179507003 No	Yes	Yes	No	No	No	No	No	Yes
228423	530179508003 No	Yes	No	No	No	No	No	No	Yes
228424	530199400001 No	No	Yes	No	No	Yes	No	No	Yes
228425	530199400002 No	No	Yes	No	No	Yes	No	No	Yes
228426	530199701001 No	No	Yes	No	No	No	No	No	Yes
228427	530199701002 No	No	Yes	No	No	No	No	No	Yes
228428	530199701003 No	No	Yes	No	No	No	No	No	Yes
228429	530199702001 No	No	Yes	No	No	No	No	No	Yes
228430	530199702002 No	No	Yes	No	No	No	No	No	Yes
228431	530199702003 No	No	Yes	No	No	No	No	No	Yes
228432	530210201011 Yes	Yes	Yes	No	No	No	No	No	Yes
228433	530210201012 Yes	Yes	Yes	No	No	No	No	No	Yes
228434	530210201021 Yes	Yes	Yes	No	No	No	No	No	Yes
228435	530210201022 No	No	Yes	No	No	No	No	No	Yes
228436	530210201023 Yes	Yes	Yes	No	No	No	No No	No	Yes
228437 228438	530210201031 Yes 530210201032 Yes	Yes	Yes	No No	No No	No No	No No	No No	Yes Yes
228439	530210201032 Yes 530210202011 Yes		Yes						
228440	530210202011 Yes 530210202012 Yes	Yes Yes	Yes	No No	No No	No No	No No	No No	Yes Yes
228441	530210202012 Yes 530210202021 Yes	Yes	Yes	No	No	No	No No	No	Yes
228442	530210202021 Yes 530210202022 Yes	Yes	Yes	No	No	No	No	No	Yes
228443	530210202022 Tes 530210203001 Yes	Yes	Yes	No	No	No	No	No	Yes
228444	530210203001 Yes	Yes	Yes	No	No	No	No	No	Yes
228445	530210203002 Yes	Yes	Yes	No	No	No	No	No	Yes
228446	530210203004 Yes	Yes	Yes	No	No	No	No	No	Yes
228447	530210204011 Yes	Yes	Yes	No	No	No	No	No	Yes
228448	530210204021 Yes	Yes	Yes	No	No	No	No	No	Yes
228449	530210204022 Yes	Yes	Yes	No	No	No	No	No	Yes
228450	530210204031 Yes	Yes	Yes	No	No	No	No	No	Yes
228451	530210204032 Yes	Yes	Yes	No	No	No	No	No	Yes
228452	530210204041 Yes	Yes	Yes	No	No	No	No	No	Yes
228453	530210204042 Yes	Yes	Yes	No	No	No	No	No	Yes
228458	530210205031 Yes	Yes	No	No	No	No	No	No	Yes
228462	530210205042 No	Yes	No	No	No	No	No	No	Yes
228463	530210205043 Yes	Yes	No	No	No	No	No	No	Yes
228464	530210205044 No	Yes	No	No	No	No	No	No	Yes
228465	530210206031 No	Yes	No	No	No	No	No	No	Yes
228468	530210206052 No	Yes	No	No	No	No	No	No	Yes
228473 228476	530210206064 No 530210206081 No	Yes Yes	No No	No No	No No	No No	No No	No No	Yes Yes

228479	530210206084 Yes	Yes	No	No	No	No	No	No	Yes
228481	530210200084 TeS 530210208011 Yes	Yes	Yes	No	No	No	No	No	Yes
228482	530210208011 Tes 530210208012 No	No	Yes	No	No	No	No	No	Yes
228483	530210208012 No 530210208013 Yes	Yes	Yes	No	No	No	No	No	Yes
228484	530210208021 No	Yes	Yes	No	No	No	No	No	Yes
228485	530210208022 Yes	Yes	Yes	No	No	No	No	No	Yes
228486	530210208023 No	Yes	Yes	No	No	No	No	No	Yes
228488	530239703001 Yes	Yes	No	No	No	No	No	No	Yes
228491	530250101001 No	No	Yes	No	No	No	No	No	Yes
228492	530250101002 No	No	Yes	No	No	No	No	No	Yes
228493	530250101003 No	Yes	Yes	No	No	No	No	No	Yes
228494	530250101004 No	No	Yes	No	No	No	No	No	Yes
228497	530250103001 No	Yes	Yes	No	No	No	No	No	Yes
228498	530250103002 No	No	Yes	No	No	No	No	No	Yes
228499	530250103003 No	No	Yes	No	No	No	No	No	Yes
228500	530250104011 No	Yes	Yes	No	No	No	No	No	Yes
228501	530250104012 No	No	Yes	No	No	No	No	No	Yes
228502	530250104021 No	No	Yes	No	No	No	No	No	Yes
228503	530250104022 No	Yes	Yes	No	No	No	No	No	Yes
228507	530250106001 No	No	Yes	No	No	No	No	No	Yes
228508	530250106002 Yes	Yes	Yes	No	No	No	No	No	Yes
228509	530250106003 No	Yes	Yes	No	No	No	No	No	Yes
228510	530250106004 Yes	Yes	Yes	No	No	No	No	No	Yes
228511	530250107001 No	No	Yes	No	No	No	No	No	Yes
228512	530250107002 Yes	Yes	Yes	No	No	No	No	No	Yes
228513	530250107003 No	No	Yes	No	No	No	No	No	Yes
228514	530250108001 Yes	Yes	Yes	No	No	No	No	No	Yes
228515	530250108002 Yes	Yes	Yes	No	No	No	No	No	Yes
228516	530250108003 No	Yes	Yes	No	No	No	No	No	Yes
228518	530250109031 Yes	Yes	No	No	No	No	No	No	Yes
228519	530250109032 Yes	Yes	No	No	No	No	No	No	Yes
228520	530250109033 Yes	Yes	No	No.	No	No	No	No	Yes
228521 228522	530250109041 No	Yes	No	No	No	No	No	No	Yes
228523	530250109042 Yes 530250109043 No	Yes Yes	No No	No No	No No	No No	No No	No No	Yes Yes
228525	530250109043 NO 530250110012 No	Yes	No	No	No	No	No	No	Yes
228528	530250110012 No 530250110022 Yes	Yes	No	No	No	No	No	No	Yes
228530	530250110022 Yes 530250111011 No	No	Yes	No	No	No	No	No	Yes
228531	530250111011 No	Yes	Yes	No	No	No	No	No	Yes
228532	530250111021 Yes	Yes	Yes	No	No	No	No	No	Yes
228533	530250111022 Yes	Yes	Yes	No	No	No	No	No	Yes
228537	530250113001 No	No	Yes	No	No	No	No	No	Yes
228538	530250113002 Yes	Yes	Yes	No	No	No	No	No	Yes
228539	530250113003 Yes	Yes	Yes	No	No	No	No	No	Yes
228540	530250114011 No	Yes	Yes	No	No	No	No	No	Yes
228541	530250114031 Yes	Yes	Yes	No	No	No	No	No	Yes
228542	530250114032 Yes	Yes	Yes	No	No	No	No	No	Yes
228543	530250114033 Yes	Yes	Yes	No	No	No	No	No	Yes
228544	530250114041 No	Yes	Yes	No	No	No	No	No	Yes
228545	530250114051 Yes	Yes	Yes	No	No	No	No	No	Yes
228546	530250114061 No	Yes	Yes	No	No	No	No	No	Yes
228547	530250114062 No	No	Yes	No	No	No	No	No	Yes
228566	530270005011 No	Yes	No	No	No	No	No	No	Yes
228574	530270007001 No	No	No	No	No	Yes	Yes	No	Yes
228576	530270007003 No	No	No	No	No	No	Yes	No	Yes
228580	530270009001 No	Yes	Yes	No	No	No	No	No	Yes
228581	530270009002 Yes	Yes	Yes	No	No	No	No	No	Yes
228582	530270009003 No	No	Yes	No	No	No	No	No	Yes
228583	530270009004 Yes	Yes	Yes	No	No	No	No	No	Yes
228584	530270009005 No	Yes	Yes	No	No	No	No	No	Yes
228585	530270009006 No	No	Yes	No	No No	No No	No	No	Yes
228586	530270010001 No	Yes	Yes	No	No	No	No	No	Yes
228587 228588	530270010002 Yes	Yes	Yes	No No	No No	No No	No No	No No	Yes
//X5XX	530270010003 Yes	Yes	Yes	No					Yes
228589	530270010004 Yes	Yes	Yes	No	No	No	No	No	Yes

228593	530270011004 No	Yes	No	No	No	No	No	No	Yes
228594	530270011005 Yes	Yes	No	No	No	No	No	No	Yes
228595	530270012001 Yes	Yes	Yes	No	No	No	No	No	Yes
228596	530270012002 Yes	Yes	Yes	No	No	No	No	No	Yes
228597	530270012003 Yes	Yes	Yes	No	No	No	No	No	Yes
228598	530270012004 Yes	Yes	Yes	No	No	No	No	No	Yes
228599	530270012005 Yes	Yes	Yes	No	No	No	No	No	Yes
228600	530270013001 No	No	Yes	No	No	No	No	No	Yes
228601	530270013002 Yes	Yes	Yes	No	No	No	No	No	Yes
228602	530270013003 No	Yes	Yes	No	No	No	No	No	Yes
228603	530270013004 Yes	Yes	Yes	No	No	No	No	No	Yes
228604	530270014001 No	Yes	Yes	No	No	No	No	No	Yes
228605	530270014002 No	Yes	Yes	No	No	No	No	No	Yes
228606	530270015001 No	Yes	Yes	No	No	No	No	No	Yes
228607	530270015002 No	No	Yes	No	No	No	No	No	Yes
228608	530270015003 No	No	Yes	No	No	No	No	No	Yes
228609	530270016011 No	Yes	No	No	No	No	No	No	Yes
228614	530279400001 No	No	Yes	No	No	Yes	No	No	Yes
228618	530299702001 No	Yes	Yes	No	No	No	No	No	Yes
228619	530299703001 No	Yes	No	No	No	No	No	No	Yes
228633	530299706013 Yes	Yes	No	No	No	No	No	No	Yes
228641	530299709001 No	No	Yes	No	No	No	No	No	Yes
228642	530299709002 No	No	Yes	No	No	No	No	No	Yes
228643	530299709003 No	No	Yes	No	No	No	No	No	Yes
228644	530299709004 No	No	Yes	No	No	No	No	No	Yes
228698	530319506031 No	Yes	Yes	No	No	No	No	No	Yes
228699	530319506032 No	No	Yes	No	No	No	No	No	Yes
228700	530319506033 Yes	Yes	Yes	No	No	No	No	No	Yes
228701	530319506041 No	No	Yes	No	No	No	No	No	Yes
228702	530319506042 No	No	Yes	No	No	No	No	No	Yes
228703	530319506043 No	No	Yes	No	No	No	No	No	Yes
228704	530319507021 No	No	Yes	No	No	Yes	Yes	No	Yes
228705	530319507022 No	No	Yes	No	No	No	No	No	Yes
228706	530319507023 No	No	Yes	No	No	No	No	No	Yes
228709	530330001012 Yes	Yes	No	No	No	No	No	No	Yes
228710	530330001013 No	Yes	No	No	No	No	No	No	Yes
228712	530330001022 No	Yes	No	No	No	No	No	No	Yes
228713	530330001023 Yes	Yes	No	No	No	No	No	No	Yes
228714	530330002011 No	Yes	No	No	No	No	No	No	Yes
228727	530330004032 Yes	Yes	No	No	No	No	No	No	Yes
228728	530330004041 No	Yes	No	No	No	No	No	No	Yes
228729	530330004042 Yes	Yes	No	No	No	No	No	No	Yes
228730	530330004043 Yes	Yes	No	No	No	No	No	No	Yes
228742	530330007004 No	Yes	No	No	No	No	No	No	Yes
228752	530330012012 Yes	Yes	No	No	No	No	No	No	Yes
228753	530330012013 No	Yes	No	No	No	No	No	No	Yes
228756	530330012023 Yes	Yes	No	No	No	No	No	No	Yes
228757	530330013001 No	Yes	No	No	No	No	No No	No	Yes
228758	530330013002 No	Yes	No	No	No	No	No No	No	Yes
228760	530330014001 No	Yes	No	No No	No No	No No	No No	No No	Yes
228761 228762	530330014002 No	Yes	No	No	No No	No No	No No	No No	Yes
228762	530330014003 No 530330014004 No	Yes	No No	No No	No No	No No	No No	No No	Yes Yes
228769	530330014004 No	Yes	No	No	No No	No	No No	No	Yes
228769	530330017011 No 530330017012 No	Yes	No No	No	No No	No No	No No	No No	Yes
228770	530330017012 No	Yes	No	No	No No	No	No No	No	Yes
228771	530330017013 No 530330017021 No	Yes	No No	No	No No	No	No No	No	Yes
228774	530330017021 No	Yes	No	No	No	No	No	No	Yes
228775	530330017023 No 530330017024 No	Yes	No No	No	No No	No	No No	No No	Yes
228808	530330028004 No	Yes	No	No	No	No	No	No	Yes
228813	530330030002 No	Yes	No	No	No	No	No No	No	Yes
228823	530330030002 No	Yes	No	No	No	No	No	No	Yes
228829	530330032013 No	Yes	No	No	No	No	No	No	Yes
228830	530330033013 No	Yes	No	No	No	No	No	No	Yes
228835	530330034003 No	Yes	No	No	No	No	No	No	Yes
0000			110		.10	.,,,	.10	1.0	103

220020	F2022002F002 NI-	V	NI-	NI-	N-	NI-	N-	NI-	V
228838	530330035003 No	Yes	No	No	No	No	No	No	Yes
228863	530330043011 Yes	Yes	No	No	No	No	No.	No	Yes
228866	530330043021 No	Yes	No	No	No	No	No	No	Yes
228867	530330043022 Yes	Yes	No	No	No	No	No	No	Yes
228868	530330043023 Yes	Yes	No	No	No	No	No	No	Yes
228869	530330044011 No	Yes	No	No	No	No	No	No	Yes
228871	530330044013 Yes	Yes	No	No	No	No	No	No	Yes
228872	530330044021 Yes	Yes	No	No	No	No	No	No	Yes
228875	530330045001 Yes	Yes	No	No	No	No	No	No	Yes
228877	530330046001 No	Yes	No	No	No	No	No	No	Yes
228878	530330046002 No	Yes	No	No	No	No	No	No	Yes
228879	530330046003 No	Yes	No	No	No	No	No	No	Yes
228881	530330047012 Yes	Yes	No	No	No	No	No	No	Yes
228882	530330047013 No	Yes	No	No	No	No	No	No	Yes
228883	530330047021 No	Yes	No	No	No	No	No	No	Yes
228885	530330047023 No	Yes	No	No	No	No	No	No	Yes
228886	530330047031 Yes	Yes	No	No	No	No	No	No	Yes
228890	530330048002 No	Yes	No	No	No	No	No	No	Yes
228891	530330048003 No	Yes	No	No	No	No	No	No	Yes
228893	530330049011 No	Yes	No	No	No	No	No.	No	Yes
228894	530330049012 No	Yes	No	No	No	No	No	No	Yes
228895	530330049013 No	Yes	No	No	No	No	No	No	Yes
228896	530330049021 No	Yes	No	No	No	No	No	No	Yes
228897	530330049022 No	Yes	No	No	No	No	No	No	Yes
228899 228906	530330050002 No	Yes	No	No	No	No	No	No	Yes
	530330052013 No	Yes	No	No	No	No	No.	No	Yes
228908	530330052022 No	Yes	No	No	No	No	No	No	Yes
228909	530330052023 Yes	Yes	No	No	No	No	No	No	Yes
228910	530330053031 Yes	Yes	Yes	No	No	No	No	No	Yes
228911	530330053032 No	No	Yes	No	No	No	No.	No	Yes
228912	530330053041 No	No	Yes	No	No	No	No	No	Yes
228913 228914	530330053042 Yes 530330053051 Yes	Yes	Yes No	No No	No No	No No	No No	No No	Yes
		Yes							
228915 228916	530330053052 Yes 530330053061 Yes	Yes Yes	No No	No No	No No	No No	No No	No No	Yes
228916									
228917	530330053062 Yes	Yes	No	No No	No	No	No No	No No	Yes
	530330053071 Yes	Yes	No		No	No			
228919 228920	530330053072 Yes	Yes Yes	No No	No No	No No	No No	No No	No No	Yes
228923	530330053073 Yes 530330054013 No	Yes	No	No	No	No	No	No	Yes
228926	530330054013 No	Yes	No	No	No		No	No	Yes
228933	530330054023 No 530330057002 No	Yes	No	No	No	No No	No	No	Yes
228935	530330057002 No	Yes	No	No	No		No	No	Yes
228935	530330057004 No	Yes	No	No	No	No No	No	No	Yes
228936	530330057005 No 530330058014 No	Yes	No	No	No	No	No	No	Yes
228940	530330058014 No	Yes	No	No	No	No	No	No	Yes
228941	530330058042 No	Yes	No	No	No	No	No	No	Yes
228946	530330058042 No 530330059012 No	Yes	No	No	No	No	No	No	Yes
228947	530330059012 No 530330059013 Yes	Yes	No	No	No	No	No	No	Yes
228950	530330059023 No	Yes	No	No	No	No	No	No	Yes
228950	530330059023 NO 530330060001 No	Yes	No	No	No	No	No	No	Yes
228953	530330060001 No	Yes	No	No	No	No	No	No	Yes
228954	530330060003 No	Yes	No	No	No	No	No	No	Yes
228956	530330061002 No	Yes	No	No	No	No	No	No	Yes
228957	530330061002 No	Yes	No	No	No	No	No	No	Yes
228958	530330061003 No	Yes	No	No	No	No	No	No	Yes
228959	530330061004 No	Yes	No	No	No	No	No	No	Yes
228971	530330061003 No	Yes	No	No	No	No	No	No	Yes
228971	530330065002 No	Yes	No	No	No	No	No	No	Yes
228979	53033006003 No	Yes	No	No	No	No	No	No	Yes
228973	530330067021 No	Yes	No	No	No	No	No	No	Yes
228992	53033007023 No	Yes	No	No	No	No	No	No	Yes
228993	530330070012 No 530330070013 Yes	Yes	No	No	No	No	No	No	Yes
		Yes	No	No	No	No	No	No	Yes
778996									
228996 228998	530330070023 No 530330071012 No	Yes	No	No	No	No	No	No	Yes

229001	530330072011 Yes	Yes	No	No	No	No	No	No	Yes
229001	530330072011 Yes 530330072012 Yes	Yes	No No	No No	No	No No	No No	No No	
229002									Yes
	530330072013 No	Yes	No	No.	No	No	No	No	Yes
229004	530330072021 No	Yes	No	No	No	No	No	No	Yes
229005	530330072022 No	Yes	No	No	No	No	No	No	Yes
229007	530330072031 Yes	Yes	No	No	No	No	No	No	Yes
229008	530330072032 No	Yes	No	No	No	No	No	No	Yes
229009	530330073011 No	Yes	No	No	No	No	No	No	Yes
229010	530330073012 Yes	Yes	No	No	No	No	No	No	Yes
229011	530330073013 No	Yes	No	No	No	No	No	No	Yes
229013	530330073022 No	Yes	No	No	No	No	No	No	Yes
229014	530330073023 No	Yes	No	No	No	No	No	No	Yes
229015	530330073031 No	Yes	No	No	No	No	No	No	Yes
229016	530330073032 No	Yes	No	No	No	No	No	No	Yes
229022	530330074051 No	Yes	No	No	No	No	No	No	Yes
229023	530330074052 Yes	Yes	No	No	No	No	No	No	Yes
229024	530330074061 No	Yes	No	No	No	No	No	No	Yes
229025	530330074062 No	Yes	No	No	No	No	No	No	Yes
229026	530330075011 No	Yes	No	No	No	No	No	No	Yes
229027	530330075012 No	Yes	No	No	No	No	No	No	Yes
229028	530330075013 Yes	Yes	No	No	No	No	No	No	Yes
229030	530330075022 No	Yes	No	No	No	No	No	No	Yes
229032	530330075031 No	Yes	No	No	No	No	No	No	Yes
229033	530330075032 No	Yes	No	No	No	No	No	No	Yes
229034	530330076001 No	Yes	No	No	No	No	No	No	Yes
229045	530330079011 No	Yes	No	No	No	No	No	No	Yes
229046	530330079012 No	Yes	No	No	No	No	No	No	Yes
229047	530330079021 Yes	Yes	No	No	No	No	No	No	Yes
229048	530330079022 No	Yes	No	No	No	No	No	No	Yes
229050	530330080021 Yes	Yes	No	No	No	No	No	No	Yes
229051	530330080022 No	Yes	No	No	No	No	No	No	Yes
229052	530330080023 No	Yes	No	No	No	No	No	No	Yes
229053	530330080031 Yes	Yes	No	No	No	No	No	No	Yes
229054	530330080032 No	Yes	No	No	No	No	No	No	Yes
229056	530330080041 No	Yes	No	No	No	No	No	No	Yes
229059	530330081011 Yes	Yes	No	No	No	No	No	No	Yes
229060	530330081012 No	Yes	No	No	No	No	No	No	Yes
229062	530330081021 No	Yes	No	No	No	No	No	No	Yes
229063	530330081022 Yes	Yes	No	No	No	No	No	No	Yes
229064	530330082001 No	Yes	No	No	No	No	No	No	Yes
229065	530330082002 No	Yes	No	No	No	No	No	No	Yes
229066	530330082003 No	Yes	No	No	No	No	No	No	Yes
229067	530330083001 No	Yes	No	No	No	No	No	No	Yes
229068	530330083002 No	Yes	No	No	No	No	No	No	Yes
229069	530330084011 Yes	Yes	No	No	No	No	No	No	Yes
229070	530330084012 No	Yes	No	No	No	No	No	No	Yes
229072	530330084021 No	Yes	No	No	No	No	No	No	Yes
229075	530330085001 No	Yes	No	No	No	No	No	No	Yes
229076	530330085002 No	Yes	No	No	No	No	No	No	Yes
229077	530330085003 Yes	Yes	No	No	No	No	No	No	Yes
229078	530330086001 No	Yes	No	No	No	No	No	No	Yes
229079	530330086002 Yes	Yes	No	No	No	No	No	No	Yes
229080	530330086003 Yes	Yes	No	No	No	No	No	No	Yes
229081	530330086004 No	Yes	No	No	No	No	No	No	Yes
229082	530330087001 No	Yes	No	No	No	No	No	No	Yes
229083	530330087002 No	Yes	No	No	No	No	No	No	Yes
229084	530330087003 No	Yes	No	No	No	No	No	No	Yes
229085	530330088001 No	Yes	No	No	No	No	No	No	Yes
229090	530330089003 Yes	Yes	No	No	No	No	No	No	Yes
229092	530330090001 Yes	Yes	Yes	No	No	No	No	No	Yes
229093	530330090002 Yes	Yes	Yes	No	No	No	No	No	Yes
229094	530330090003 No	Yes	Yes	No	No	No	No	No	Yes
229095	530330091001 Yes	Yes	Yes	No	No	No	No	No	Yes
229096	530330091002 Yes	Yes	Yes	No	No	No	No	No	Yes
229097	530330092001 Yes	Yes	Yes	No	No	No	No	No	Yes

222222	520220000000 V	· ·	.,	**				••	
229098	530330092002 Yes	Yes	Yes	No	No	No	No	No	Yes
229099	530330093001 No	Yes	No	No	No	No	No	No	Yes
229100	530330093002 No	Yes	No	No	No	No	No	No	Yes
229101	530330093003 No	Yes	No	No	No	No	No	No	Yes
229102	530330094001 Yes	Yes	No	No	No	No	No	No	Yes
229103	530330094002 No	Yes	No	No	No	No	No	No	Yes
229103	530330094002 No	Yes	No	No	No	No	No.	No	Yes
							-		
229106	530330094005 No	Yes	No	No	No	No	No	No	Yes
229107	530330095001 No	Yes	No	No	No	No	No	No	Yes
229108	530330095002 No	Yes	No	No	No	No	No	No	Yes
229110	530330095004 Yes	Yes	No	No	No	No	No	No	Yes
229111	530330096001 No	Yes	No	No	No	No	No	No	Yes
229123	530330098011 Yes	Yes	No	No	No	No	No	No	Yes
229128	530330098023 No	Yes	No	No	No	No	No	No	Yes
229129	530330099001 No	Yes	No	No	No	No	No	No	Yes
229130	530330099002 No	Yes	No	No	No	No	No	No	Yes
229131	530330099003 Yes	Yes	No	No	No	No	No	No	Yes
229132	530330099004 No	Yes	No	No	No	No	No	No	Yes
229133	530330100011 Yes	Yes	Yes	No	No	No	No	No	Yes
229134	530330100012 No	Yes	Yes	No	No	No	No	No	Yes
229134	530330100012 No 530330100013 Yes		Yes			No	No		
		Yes		No	No			No	Yes
229136	530330100021 No	Yes	Yes	No	No	No	No	No	Yes
229137	530330100022 No	Yes	Yes	No	No	No	No	No	Yes
229138	530330100023 Yes	Yes	Yes	No	No	No	No	No	Yes
229139	530330101011 Yes	Yes	No	No	No	No	No	No	Yes
229140	530330101012 Yes	Yes	No	No	No	No	No	No	Yes
229141	530330101013 No	Yes	No	No	No	No	No	No	Yes
229143	530330101013 No	Yes	No	No	No	No	No	No	Yes
229144	530330101023 No	Yes	No	No	No	No	No	No	Yes
229150	530330103012 No	Yes	No	No	No	No	No	No	Yes
229151	530330103013 Yes	Yes	No	No	No	No	No	No	Yes
229155	530330104011 No	Yes	Yes	No	No	No	No	No	Yes
229156	530330104012 No	Yes	Yes	No	No	No	No	No	Yes
229157	530330104013 Yes	Yes	Yes	No	No	No	No	No	Yes
229158	530330104021 No	Yes	Yes	No	No	No	No	No	Yes
229159	530330104022 Yes	Yes	Yes	No	No	No	No	No	Yes
229160	530330104023 No	Yes	Yes	No	No	No	No	No	Yes
229161	530330104024 No	No	Yes	No	No	No	No	No	Yes
229162	530330105011 No	Yes	No	No	No	No	No	No	Yes
229163	530330105012 No	Yes	No	No	No	No	No	No	Yes
229164	530330105013 No	Yes	No	No	No	No	No	No	Yes
229166	530330105022 No	Yes	No	No	No	No	No	No	Yes
229167	530330105022 No	Yes	No	No	No	No	No	No	Yes
229169	530330106011 No	Yes	No	No	No	No	No	No	Yes
229172	530330106021 No	Yes	No	No	No	No	No	No	Yes
229175	530330107011 No	Yes	No	No	No	No	No	No	Yes
229178	530330107021 No	No	Yes	No	No	No	No	No	Yes
229179	530330107022 Yes	Yes	Yes	No	No	No	No	No	Yes
229180	530330107023 Yes	Yes	Yes	No	No	No	No	No	Yes
229181	530330108001 No	Yes	No	No	No	No	No	No	Yes
229181	530330108001 No	Yes	No	No	No	No	No	No	Yes
229183	530330108003 No	Yes	No	No	No	No	No	No	Yes
229184	530330109001 No	Yes	No	No	No	No	No	No	Yes
229185	530330109002 No	Yes	No	No	No	No	Yes	No	Yes
229186	530330110011 Yes	Yes	Yes	No	No	No	No	No	Yes
229187	530330110012 Yes	Yes	Yes	No	No	No	No	No	Yes
229188	530330110012 Yes	Yes	Yes	No	No	No	No	No	Yes
229189	530330110021 Yes	Yes	Yes	No No	No	No	No	No	Yes
229190	530330110022 Yes	Yes	Yes	No	No	No	No	No	Yes
	530330110023 Yes	Yes	Yes	No	No	No	No	No	Yes
229191				No	No	No	No	No	Yes
229192	530330110023 Tes 530330111011 No	Yes	Yes	INU	140	110			
		Yes Yes	Yes	No	No	No	No	No	Yes
229192	530330111011 No							No No	Yes
229192 229193 229194	530330111011 No 530330111012 No 530330111013 No	Yes Yes	Yes Yes	No No	No No	No No	No No	No	Yes
229192 229193	530330111011 No 530330111012 No	Yes	Yes	No	No	No	No		

229198	F20220111022 No	Vec	No	No	Ne	No	Ne	No	Vee
229198	530330111023 No	Yes	No	No	No	No No	No No	No.	Yes
229199	530330111024 No	Yes	No	No	No			No	Yes
	530330112001 Yes	Yes	Yes	No	No	No	No	No	Yes
229201	530330112002 Yes	Yes	Yes	No	No	No	No	No	Yes
229202	530330112003 Yes	Yes	Yes	No	No	No	No	No	Yes
229203	530330113001 No	Yes	No	No	No	No	No	No	Yes
229204	530330113002 No	Yes	No	No	No	No	No	No	Yes
229208	530330114011 No	Yes	No	No	No	No	No	No	Yes
229210	530330114013 No	Yes	No	No	No	No	No	No	Yes
229211	530330114021 No	No	Yes	No	No	No	No	No	Yes
229212	530330114022 No	Yes	Yes	No	No	No	No	No	Yes
229213	530330114023 No	No	Yes	No	No	No	No	No	Yes
229222	530330117001 No	Yes	Yes	No	No	No	No	No	Yes
229223	530330117002 Yes	Yes	Yes	No	No	No	No	No	Yes
229224	530330117003 Yes	Yes	Yes	No	No	No	No	No	Yes
229225	530330117004 Yes	Yes	Yes	No	No	No	No	No	Yes
229226	530330118011 Yes	Yes	No	No	No	No	No	No	Yes
229228	530330118013 No	Yes	No	No	No	No	No	No	Yes
229231	530330118023 Yes	Yes	No	No	No	No	No	No	Yes
229234	530330119013 Yes	Yes	No	No	No	No	No	No	Yes
229235	530330119021 No	Yes	No	No	No	No	No	No	Yes
229236	530330119022 Yes	Yes	No	No	No	No	No	No	Yes
229243	530330201001 No	Yes	No	No	No	No	No	No	Yes
229245	530330201003 No	Yes	No	No	No	No	No	No	Yes
229251	530330203012 No	Yes	No	No	No	No	No	No	Yes
229253	530330203022 Yes	Yes	No	No	No	No	No	No	Yes
229261	530330204024 Yes	Yes	No	No	No	No	No	No	Yes
229272	530330207002 Yes	Yes	No	No	No	No	No	No	Yes
229282	530330210003 No	Yes	No	No	No	No	No	No	Yes
229287	530330211003 Yes	Yes	No	No	No	No	No	No	Yes
229289	530330213002 No	Yes	No	No	No	No	No	No	Yes
229319	530330218044 Yes	Yes	No	No	No	No	No	No	Yes
229320	530330219031 Yes	Yes	No	No	No	No	No	No	Yes
229325	530330219042 Yes	Yes	No	No	No	No	No	No	Yes
229436	530330232021 Yes	Yes	Yes	No	No	No	No	No	Yes
229437	530330232022 No	No	Yes	No	No	No	No	No	Yes
229438	530330232023 Yes	Yes	Yes	No	No	No	No	No	Yes
229440	530330233002 No	Yes	No	No	No	No	No	No	Yes
229445	530330234013 No	Yes	No	No	No	No	No	No	Yes
229457	530330236031 No	Yes	No	No	No	No	No	No	Yes
229465	530330236044 Yes	Yes	No	No	No	No	No	No	Yes
229473	530330238051 No	Yes	No	No	No	No	No	No	Yes
229516	530330247011 No	Yes	No	No	No	No	No	No	Yes
229522	530330247041 No	Yes	No	No	No	No	No	No	Yes
229544	530330250052 No	Yes	No	No	No	No	No	No	Yes
229555	530330251011 Yes	Yes	No	No	No	No	No	No	Yes
229561	530330251033 No	Yes	No	No	No	No	No	No	Yes
229566	530330252012 Yes	Yes	No	No	No	No	No	No	Yes
229567	530330252013 Yes	Yes	No	No	No	No	No	No	Yes
229569	530330252022 No	Yes	No	No	No	No	No	No	Yes
229571	530330253021 Yes	Yes	Yes	No	No	No	No	No	Yes
229572	530330253022 Yes	Yes	Yes	No	No	No	No	No	Yes
229573	530330253023 Yes	Yes	Yes	No	No	No	No	No	Yes
229574	530330253024 No	No	Yes	No	No	No	No	No	Yes
229575	530330253031 Yes	Yes	No	No	No	No	No	No	Yes
229579	530330254011 Yes	Yes	No	No	No	No	No	No	Yes
229580	530330254012 Yes	Yes	No	No	No	No	No	No	Yes
229585	530330255001 Yes	Yes	No	No	No	No	No	No	Yes
229587	530330255003 Yes	Yes	No	No	No	No	No	No	Yes
229590	530330256013 No	Yes	No	No	No	No	No	No	Yes
229598	530330257031 Yes	Yes	No	No	No	No	No	No	Yes
229599	530330257032 No	Yes	No	No	No	No	No	No	Yes
229600	530330257041 No	Yes	No	No	No	No	No	No	Yes
229604	530330258033 No	Yes	No	No	No	No	No	No	Yes
	530330258051 No	Yes	No	No	No	No	No	No	Yes
229608									

220500	F202202F00F2 N-	V	NI-	N -	NI-	NI -	N -	NI-	V
229609	530330258052 No	Yes	No	No	No	No	No	No	Yes
229613	530330258063 No	Yes	No	No.	No No	No	No.	No	Yes
229616	530330260013 No	Yes	No	No	No	No	No	No	Yes
229617	530330260014 No	Yes	No	No	No	No	No	No	Yes
229618	530330260031 Yes	Yes	No	No	No	No	No	No	Yes
229620	530330260033 Yes	Yes	No	No	No	No	No	No	Yes
229624	530330261011 Yes	Yes	Yes	No	No	No	No	No	Yes
229625	530330261012 Yes	Yes	Yes	No	No	No	No	No	Yes
229626	530330261013 No	Yes	Yes	No	No	No	No	No	Yes
229627	530330261021 Yes	Yes	Yes	No	No	No	No	No	Yes
229628	530330261022 Yes	Yes	Yes	No	No	No	No	No	Yes
229629	530330261023 No	Yes	Yes	No	No	No	No	No	Yes
229630	530330262001 Yes	Yes	No	No	No	No	No	No	Yes
229632	530330262003 No	Yes	No	No	No	No	No	No	Yes
229633	530330262004 No	Yes	No	No	No	No	No	No	Yes
229634	530330263001 No	No	Yes	No	No	No	No	No	Yes
229635	530330263002 Yes	Yes	No	No	No	No	No	No	Yes
229636	530330264001 Yes	Yes	Yes	No	No	No	No	No	Yes
229637	530330264002 No	Yes	Yes	No	No	No	No	No	Yes
229638	530330264003 Yes	Yes	Yes	No	No	No	No	No	Yes
229639	530330264004 No	Yes	Yes	No	No	No	No	No	Yes
229640	530330265001 Yes	Yes	Yes	No	No	No	No	No	Yes
229641	530330265002 Yes	Yes	Yes	No	No	No	No	No	Yes
229642	530330265003 Yes	Yes	Yes	No	No	No	No	No	Yes
229643	530330266001 No	Yes	No	No	No	No	No	No	Yes
229645	530330267001 Yes	Yes	No	No	No	No	No	No	Yes
229646	530330267002 Yes	Yes	No	No	No	No	No	No	Yes
229649	530330268011 Yes	Yes	Yes	No	No	No	No	No	Yes
229650	530330268012 Yes	Yes	Yes	No	No	No	No	No	Yes
229651	530330268013 Yes	Yes	Yes	No	No	No	No	No	Yes
229652	530330268014 Yes	Yes	Yes	No	No	No	No	No	Yes
229653	530330268021 Yes	Yes	Yes	No	No	No	No	No	Yes
229654	530330268022 Yes	Yes	Yes	No	No	No	No	No	Yes
229655	530330268023 Yes	Yes	Yes	No	No	No	No	No	Yes
229656	530330268024 No	No	Yes	No	No	No	No	No	Yes
229657	530330270001 No	Yes	No	No	No	No	No	No	Yes
229659	530330270003 No	Yes	No	No	No	No	No	No	Yes
229660	530330271001 No	Yes	Yes	No	No	No	No	No	Yes
229661	530330271002 Yes	Yes	Yes	No	No	No	No	No	Yes
229662	530330271003 Yes	Yes	Yes	No	No	No	No	No	Yes
229663	530330272001 No	Yes	Yes	No	No	No	No	No	Yes
229664	530330272002 Yes	Yes	Yes	No	No	No	No	No	Yes
229665	530330273001 Yes	Yes	Yes	No	No	No	No	No	Yes
229666	530330273002 Yes	Yes	Yes	No	No	No	No	No	Yes
229667	530330273003 Yes	Yes	Yes	No	No	No	No	No	Yes
229668	530330273004 No	Yes	Yes	No	No	No	No	No	Yes
229669	530330274001 Yes	Yes	No	No	No	No	No	No	Yes
229670	530330274002 Yes	Yes	No	No	No	No	No	No	Yes
229671	530330274003 No	Yes	No	No	No	No	No	No	Yes
229672	530330274004 Yes	Yes	No	No	No	No	No	No	Yes
229673	530330275001 No	Yes	No	No	No	No	No	No	Yes
229675	530330275003 Yes	Yes	No	No	No	No	No	No	Yes
229676	530330276001 Yes	Yes	No	No	No	No	No	No	Yes
229677	530330276002 Yes	Yes	No	No	No	No	No	No	Yes
229685	530330277023 No	Yes	No	No	No	No	No	No	Yes
229690	530330279013 Yes	Yes	No	No	No	No	No	No	Yes
229692	530330279022 Yes	Yes	No	No	No	No	No	No	Yes
229693	530330279023 Yes	Yes	No	No	No	No	No	No	Yes
229694	530330280001 No	Yes	Yes	No	No	No	No	No	Yes
229695	530330280002 Yes	Yes	Yes	No	No	No	No	No	Yes
229696	530330280003 Yes	Yes	Yes	No	No	No	No	No	Yes
229697	530330281001 Yes	Yes	Yes	No	No	No	No	No	Yes
229698	530330281002 Yes	Yes	Yes	No	No	No	No	No	Yes
229699	530330282001 No	Yes	Yes	No	No	No	No	No	Yes
229700	530330282002 No	Yes	Yes	No	No	No	No	No	Yes

229701	530330282003 Yes	Yes	Yes	No	No	No	No	No	Yes
229702	530330283001 No	Yes	No	No	No	No	No	No	Yes
229704	530330283003 No	Yes	No	No	No	No	No	No	Yes
229705	530330284021 Yes	Yes	Yes	No	No	No	No	No	Yes
229706	530330284022 Yes	Yes	Yes	No	No	No	No	No	Yes
229707	530330284023 Yes	Yes	Yes	No	No	No	No	No	Yes
229708	530330284024 Yes	Yes	Yes	No	No	No	No	No	Yes
229709	530330284031 No	Yes	No	No	No	No	No	No	Yes
229710	530330284032 Yes	Yes	No	No	No	No	No	No	Yes
229712	530330284034 Yes	Yes	No	No	No	No	No	No	Yes
229713	530330285001 No	Yes	No	No	No	No	No	No	Yes
229714	530330285002 No	Yes	No	No	No	No	No	No	Yes
229715	530330285002 No 530330285003 Yes	Yes	No	No	No No	No	No No	No	Yes
229717	530330286002 No	Yes	No	No	No	No	No	No	Yes
229721	530330287001 No	Yes	No	No	No	No	No	No	Yes
229722	530330287001 No	Yes	No	No	No	No	No No	No	Yes
229723	530330287002 No	Yes	No	No	No	No	No	No	Yes
229723	530330287005 NO 530330288011 No	Yes	No	No	No	No	No No	No	Yes
229724	530330288012 No						No No	No	
229725	530330288012 NO 530330288021 Yes	Yes	No	No No	No No	No No	No No	No No	Yes Yes
229726	530330288021 Yes 530330288022 No	Yes	Yes Yes	-	No No	No No	No No	No No	Yes Yes
229727			Yes	No No		No No	No No	No No	Yes
229728	530330288023 Yes	Yes		-	No No				
229729	530330288024 Yes	Yes	Yes No	No No	No No	No No	No No	No No	Yes Yes
	530330289011 Yes	Yes							
229731	530330289012 No	Yes	No	No	No No	No	No No	No	Yes
229732	530330289013 No	Yes	No	No	No	No	No	No	Yes
229733	530330289021 Yes	Yes	Yes	No	No	No	No	No	Yes
229734	530330289022 No	No	Yes	No	No	No	No	No	Yes
229735	530330289023 Yes	Yes	Yes	No	No	No	No	No	Yes
229736	530330289024 Yes	Yes	Yes	No	No	No	No	No	Yes
229737	530330289025 Yes	Yes	Yes	No	No	No	No	No	Yes
229738	530330290011 No	Yes	No	No	No	No	No	No	Yes
229739	530330290012 No	Yes	No	No	No	No	No	No	Yes
229741	530330290031 Yes	Yes	Yes	No	No	No	No	No	Yes
229742	530330290032 Yes	Yes	Yes	No	No	No	No	No	Yes
229743	530330290033 No	Yes	Yes	No	No	No	No	No	Yes
229744	530330290034 No	Yes	Yes	No	No	No	No	No	Yes
229745	530330290041 Yes	Yes	Yes	No	No	No	No	No	Yes
229746	530330290042 Yes	Yes	Yes	No	No	No	No	No	Yes
229747	530330291011 Yes	Yes	No	No	No	No	No	No	Yes
229749	530330291021 Yes	Yes	No	No	No	No	No	No	Yes
229751	530330291023 Yes	Yes	No	No	No	No	No	No	Yes
229752	530330292031 Yes	Yes	Yes	No	No	No	No	No	Yes
229753	530330292032 No	No	Yes	No	No	No	No	No	Yes
229754	530330292033 Yes	Yes	Yes	No	No	No	No	No	Yes
229756	530330292052 Yes	Yes	No	No	No	No	No	No	Yes
229757	530330292053 Yes	Yes	No	No	No	No	No	No	Yes
229758	530330292061 Yes	Yes	Yes	No	No	No	No	No	Yes
229759	530330292062 Yes	Yes	Yes	No	No	No	No	No	Yes
229760	530330292063 Yes	Yes	Yes	No	No	No	No	No	Yes
229762	530330292072 No	Yes	No	No	No	No	No	No	Yes
229763	530330292081 Yes	Yes	No	No	No	No	No	No	Yes
229764	530330292082 Yes	Yes	No	No	No	No	No	No	Yes
229770	530330293052 Yes	Yes	No	No	No	No	No	No	Yes
229772	530330293061 No	Yes	No	No	No	No	No	No	Yes
229774	530330293063 No	Yes	No	No	No	No	No	No	Yes
229778	530330293081 Yes	Yes	No	No	No	No	No	No	Yes
229782	530330293092 Yes	Yes	No	No	No	No	No	No	Yes
229786	530330294033 Yes	Yes	No	No	No	No	No	No	Yes
229788	530330294051 No	Yes	No	No	No	No	No	No	Yes
229795	530330294071 Yes	Yes	Yes	No	No	No	No	No	Yes
229796	530330294072 Yes	Yes	Yes	No	No	No	No	No	Yes
229797	530330294073 Yes	Yes	Yes	No	No	No	No	No	Yes
229799	530330294082 No	Yes	No	No	No	No	No	No	Yes
229800	530330294083 No	Yes	No	No	No	No	No	No	Yes

229801	F3033030F041 Vee	Ves	Ves	No	No	No	No	No	Yes
229801	530330295041 Yes	Yes	Yes		No No	No No	No No	No No	Yes
229802	530330295042 No 530330295043 No	Yes	Yes	No No	No	No	No No	No	Yes
229804	530330295051 No	Yes	Yes	No	No	No No	No No	No No	Yes
229805 229806	530330295052 No 530330295053 Yes	No Yes	Yes	No	No No	No	No	No	Yes
229807	530330295061 Yes	Yes	Yes	No No	No	No No	No No	No No	Yes Yes
229807			Yes				No	No	
229808	530330295062 Yes 530330295063 Yes	Yes	Yes	No No	No No	No No	No No	No	Yes Yes
229809	530330295065 Tes 530330295071 No	Yes	No	No	No	No No	No	No	Yes
229810	530330295071 NO 530330296031 Yes	Yes	No	No	No	No	No No	No	Yes
229822	530330296041 Yes	Yes	No	No	No	No	No	No	Yes
229823	530330296041 Yes	Yes	No	No	No	No	No	No	Yes
229825	530330297011 Yes	Yes	Yes	No	No	No	No	No	Yes
229826	530330297011 Yes	Yes	Yes	No	No	No	No	No	Yes
229827	530330297013 No	No	Yes	No	No	No	No	No	Yes
229828	530330297021 No	No	Yes	No	No	No	No	No	Yes
229829	530330297022 Yes	Yes	Yes	No	No	No	No	No	Yes
229830	530330298031 No	Yes	No	No	No	No	No	No	Yes
229831	530330298032 Yes	Yes	No	No	No	No	No	No	Yes
229838	530330298053 Yes	Yes	No	No	No	No	No	No	Yes
229839	530330298054 Yes	Yes	No	No	No	No	No	No	Yes
229841	530330298062 Yes	Yes	No	No	No	No	No	No	Yes
229843	530330299011 No	Yes	No	No	No	No	No	No	Yes
229844	530330299012 Yes	Yes	No	No	No	No	No	No	Yes
229845	530330299013 Yes	Yes	No	No	No	No	No	No	Yes
229849	530330300031 No	Yes	No	No	No	No	No	No	Yes
229851	530330300033 Yes	Yes	No	No	No	No	No	No	Yes
229852	530330300034 Yes	Yes	No	No	No	No	No	No	Yes
229853	530330300051 Yes	Yes	Yes	No	No	No	No	No	Yes
229854	530330300052 Yes	Yes	Yes	No	No	No	No	No	Yes
229855	530330300053 Yes	Yes	Yes	No	No	No	No	No	Yes
229856	530330300061 Yes	Yes	Yes	No	No	No	No	No	Yes
229857	530330300062 Yes	Yes	Yes	No	No	No	No	No	Yes
229858	530330300063 No	Yes	Yes	No	No	No	No	No	Yes
229859	530330300071 Yes	Yes	Yes	No	No	No	No	No	Yes
229860	530330300072 Yes	Yes	Yes	No	No	No	No	No	Yes
229861	530330300081 Yes	Yes	Yes	No	No	No	No	No	Yes
229862	530330300082 No	No	Yes	No	No	No	No	No	Yes
229863	530330300083 No	Yes	Yes	No	No	No No	No	No	Yes
229864	530330301011 Yes	Yes	No	No	No	No	No	No	Yes
229870	530330302011 No	Yes	No No	No	No	No No	No	No	Yes
229871 229873	530330302012 Yes 530330302014 Yes	Yes	No No	No No	No No	No No	No No	No No	Yes Yes
229873	530330302014 Yes 530330302031 Yes	Yes	No No	No No	No No	No No	No No	No No	Yes Yes
229874	530330302031 Yes 530330302032 No	Yes	No	No	No No	No No	No No	No No	Yes
229875	530330302032 NO 530330302033 Yes	Yes	No	No	No	No	No No	No	Yes
229877	530330302033 Tes 530330302041 Yes	Yes	No	No	No	No	No	No	Yes
229878	530330302041 Tes 530330302042 Yes	Yes	No	No	No	No	No	No	Yes
229879	530330302042 Yes	Yes	No	No	No	No	No	No	Yes
229880	530330303041 No	No	No	No	No	Yes	No	No	Yes
229881	530330303042 No	No	No	No	No	Yes	No	No	Yes
229882	530330303042 No	Yes	No	No	No	Yes	Yes	No	Yes
229886	530330303061 Yes	Yes	No	No	No	Yes	No	No	Yes
229889	530330303064 No	Yes	No	No	No	No	No	No	Yes
229891	530330303082 Yes	Yes	No	No	No	No	No	No	Yes
229893	530330303084 Yes	Yes	No	No	No	No	No	No	Yes
229895	530330303092 Yes	Yes	No	No	No	No	No	No	Yes
229898	530330303101 No	Yes	No	No	No	No	No	No	Yes
229899	530330303102 No	Yes	No	No	No	No	No	No	Yes
229906	530330303121 Yes	Yes	No	No	No	Yes	No	No	Yes
229908	530330303123 No	No	No	No	No	Yes	No	No	Yes
229909	530330303124 Yes	Yes	No	No	No	No	No	No	Yes
229910	530330303131 Yes	Yes	Yes	No	No	No	No	No	Yes
229911	530330303132 Yes	Yes	Yes	No	No	No	No	No	Yes

229912	530330303133 Yes	Yes	Yes	No	No	No	No	No	Yes
229913	530330303141 Yes	Yes	Yes	No	No	No	No No	No	Yes
229914	530330303141 Tes 530330303142 Yes	Yes	Yes	No	No	No	No	No	Yes
229915	530330303142 Yes	Yes	Yes	No	No	No	No No	No	Yes
229917	530330304032 No	No	No	No	No No	Yes	No No	No	Yes
229922	530330304032 No	Yes	No	No	No	No	No No	No	Yes
229922	530330304051 NO 530330304052 Yes	Yes	No	No	No No	No	No No	No	Yes
229928 229929	530330304072 Yes 530330305011 Yes	Yes	No Yes	No No	No No	No No	No No	No No	Yes Yes
229929	530330305011 Yes 530330305012 Yes	Yes	Yes	No	No	No	No No	No	Yes
229930	530330305012 Yes 530330305031 Yes	Yes	No	No	No No	No	No No	No	Yes
229932	530330305032 Yes	Yes	No	No	No	No	No No	No	Yes
229936	530330305043 Yes	Yes	No	No	No No	No	No No	No	Yes
229939	530330306002 No	Yes	No	No	No	Yes	No No	No	Yes
229940	530330306002 No	Yes	No	No	No	No	No	No	Yes
229941	530330306004 Yes	Yes	No	No	No	No	No	No	Yes
229941	530330300004 Tes 530330307001 Yes	Yes	No	No	No	No	No	No	Yes
229945	530330307001 Yes	Yes	Yes	No	No	No	No	No	Yes
229946	530330308011 Yes	Yes	Yes	No	No	No	No	No	Yes
229947	530330308012 Yes 530330308013 Yes	Yes	Yes	No	No No	No	No	No	Yes
229948	530330308013 Tes 530330308014 Yes	Yes	Yes	No	No	No	No	No	Yes
229949	530330308014 Tes 530330308021 Yes	Yes	Yes	No	No No	No	No No	No	Yes
229950	530330308022 No	No	Yes	No	No	No	No	No	Yes
229951	530330308022 No 530330309011 Yes	Yes	No	No	No	No	No	No	Yes
229953	530330309011 Yes	Yes	No	No	No	No	No	No	Yes
229954	530330309021 No	Yes	No	No	No	No	No	No	Yes
229956	530330309023 Yes	Yes	No	No	No	No	No	No	Yes
229957	530330309024 Yes	Yes	No	No	No	No	No	No	Yes
229960	530330310003 No	No	No	No	No	Yes	No	No	Yes
229961	530330311011 Yes	Yes	No	No	No	Yes	No	No	Yes
229962	530330311012 No	No	No	No	No	Yes	No	No	Yes
229963	530330311013 No	No	No	No	No	Yes	No	No	Yes
229964	530330311021 No	No	No	No	No	Yes	No	No	Yes
229965	530330311022 No	No	No	No	No	Yes	No	No	Yes
229966	530330311023 Yes	Yes	No	No	No	Yes	No	No	Yes
229967	530330312021 No	No	No	No	No	Yes	Yes	No	Yes
229968			No	No	No	Yes	No	No	Yes
229971	53U33U312U22 NO	Yes					No		
	530330312022 No 530330312025 No	Yes		No	No	Yes	INU	No	Yes
229981	530330312022 NO 530330312025 No 530330312072 Yes	Yes Yes Yes	No No	No No	No No	Yes No	No	No No	Yes Yes
	530330312025 No	Yes	No						
229981	530330312025 No 530330312072 Yes 530330312073 No	Yes Yes Yes	No No No	No No	No No	No No	No No	No No	Yes Yes
229981 229982	530330312025 No 530330312072 Yes	Yes Yes	No No	No	No	No	No	No	Yes
229981 229982 229983	530330312025 No 530330312072 Yes 530330312073 No 530330312081 Yes	Yes Yes Yes Yes	No No No No	No No No	No No No	No No No	No No No	No No No	Yes Yes Yes
229981 229982 229983 229986	530330312025 No 530330312072 Yes 530330312073 No 530330312081 Yes 530330313081 No	Yes Yes Yes Yes No	No No No No	No No No	No No No No	No No No No	No No No Yes	No No No	Yes Yes Yes Yes
229981 229982 229983 229986 229990	530330312025 No 530330312072 Yes 530330312073 No 530330312081 Yes 530330313011 No 530330313023 No	Yes Yes Yes Yes No Yes	No No No No No	No No No No	No No No No	No No No No No	No No No Yes No	No No No No No	Yes Yes Yes Yes Yes
229981 229982 229983 229986 229990 230015 230028 230032	530330312025 No 530330312072 Yes 530330312073 No 530330312081 Yes 530330313011 No 530330313023 No 530330316052 No	Yes Yes Yes Yes No Yes No	No No No No No No	No No No No No	No No No No No	No No No No No	No No No Yes No Yes	No No No No No	Yes Yes Yes Yes Yes Yes Yes Yes
229981 229982 229983 229986 229990 230015 230028 230032 230043	530330312025 No 530330312072 Yes 530330312073 No 530330312081 Yes 530330313011 No 530330313023 No 530330316052 No 530330317082 No 530330317093 No 530330319082 No	Yes Yes Yes Yes No Yes No Yes No Yes No Yes Yes	No N	No N	No	No	No	No	Yes
229981 229982 229983 229986 229990 230015 230028 230032 230043 230044	530330312025 No 530330312072 Yes 530330312073 No 530330312081 Yes 530330313011 No 530330313023 No 530330316052 No 530330317082 No 530330317082 No	Yes Yes Yes Yes No No Yes No No Yes Yes Yes	No N	No	No N	No	No	No N	Yes
229981 229982 229983 229986 229990 230015 230028 230032 230043 230044 230189	530330312025 No 530330312072 Yes 530330312073 No 530330312081 Yes 530330313011 No 530330313023 No 530330316052 No 530330317082 No 530330317082 No 530330319083 No 530330319083 No 530330319083 No 530330319083 No	Yes	No N	No N	No N	No N	No	No N	Yes
229981 229982 229983 229986 229990 230015 230028 230032 230043 230044 230189 230237	530330312072 No 530330312072 Yes 530330312073 No 530330312081 Yes 530330313011 No 530330313023 No 530330316052 No 530330317082 No 530330317082 No 530330319082 No 530330319083 No 530330319081 No 530330323243 No 530330327031 No	Yes	No	No N	No	No N	No	No N	Yes
229981 229982 229983 229986 229990 230015 230028 230032 230043 230044 230189 230237 230255	530330312025 No 530330312072 Yes 530330312073 No 530330312081 Yes 530330313011 No 530330313023 No 530330316052 No 530330317082 No 530330317093 No 530330319082 No 530330319083 No 530330323043 No 530330327031 No 530350801021 Yes	Yes	No N	No N	No	No N	No	No N	Yes
229981 229982 229983 229986 229990 230015 230028 230032 230044 230189 230237 230255 230256	530330312025 No 530330312072 Yes 530330312073 No 530330312081 Yes 530330313011 No 530330313023 No 530330316052 No 530330317082 No 530330317093 No 530330319082 No 530330319083 No 530330317081 No 530330317081 No 530330317081 No 530330317082 No	Yes	No N	No N	No	No	No	No	Yes
229981 229982 229983 229986 229990 230015 230028 230032 230043 23044 230189 230237 230255 230256 230257	530330312025 No 530330312072 Yes 530330312073 No 530330312081 Yes 530330312081 Yes 530330313023 No 530330316052 No 530330317082 No 530330317082 No 530330319082 No 530330319082 No 530330319081 No 5303303123243 No 5303303232743 No 530330327031 No 530350801021 Yes 530350801022 No	Yes	No No No No No No No No	No N	No	No N	No	No	Yes
229981 229982 229983 229986 229990 230015 230028 230032 230044 230189 230237 230255 230255 230257 230258	530330312025 No 530330312072 Yes 530330312073 No 530330312081 Yes 530330312081 Yes 530330313023 No 530330316052 No 530330317082 No 530330317093 No 530330319082 No 530330319082 No 530330319081 No 530330323243 No 530330323243 No 530350801021 Yes 530350801021 Yes 530350801021 No 530350801023 No 530350801023 No	Yes	No No No No No No No No	No N	No	No	No	No N	Yes
229981 229982 229983 229986 229990 230015 230028 230032 230044 230189 230237 230255 230256 230257 230258	530330312025 No 530330312072 Yes 530330312073 No 530330312081 Yes 530330313011 No 530330313023 No 530330316025 No 530330317082 No 530330319082 No 530330319083 No 530330319083 No 530330327031 No 530350801021 Yes 530350801021 No 530350801023 No 530350801023 No 530350801023 No 530350802001 No 530350802001 No	Yes	No No No No No No No No	No N	No	No	No	No N	Yes
229981 229982 229983 229986 229990 230015 230028 230032 230044 230189 230237 230255 230256 230257 230258 230259 230259	530330312025 No 530330312072 Yes 530330312073 No 530330312081 Yes 530330312081 Yes 530330313023 No 530330316052 No 530330317082 No 530330317082 No 530330319082 No 530330319083 No 530330323243 No 530330327031 No 530350801021 Yes 530350801021 No 530350801021 No 530350800001 No 530350800001 Yes	Yes	No No No No No No No No	No N	No	No	No	No	Yes
229981 229982 229983 229986 229990 230015 230028 230032 230044 230189 230237 230255 230255 230255 230256 230259 230260 230260	530330312025 No 530330312072 Yes 530330312073 No 530330312081 Yes 530330312081 Yes 530330313023 No 530330316052 No 530330317082 No 530330317082 No 530330319082 No 530330319082 No 530330319081 No 5303303123243 No 530330323243 No 53033032327031 No 530350801021 Yes 530350801022 No 530350801023 No 530350801023 No 530350801021 No 530350802001 No 5303508030001 Yes 5303508030001 Yes 5303508030001 Yes	Yes Yes Yes Yes Yes No Yes No Yes No No Yes	No No No No No No No No	No N	No	No	No	No	Yes
229981 229982 229983 229986 229990 230015 230028 230032 230044 230189 230237 230255 230255 230255 230259 230259 230260 230260	530330312025 No 530330312072 Yes 530330312073 No 530330312081 Yes 530330312081 Yes 530330313023 No 530330316052 No 530330317082 No 530330317093 No 530330319082 No 530330319082 No 530330319081 No 53033023243 No 53033023243 No 530350801021 Yes 530350801021 No 530350801022 No 530350801023 No 530350800020 Yes 530350803003 Yes 530350803003 Yes 5303508030001 No	Yes	No No No No No No No No	No N	No	No	No	No N	Yes
229981 229982 229983 229986 229990 230015 230028 230032 230044 230189 230237 230255 230256 230257 230258 230259 230260 230260 230262	530330312025 No 530330312072 Yes 530330312073 No 530330312081 Yes 530330313011 No 530330313023 No 530330316082 No 530330317093 No 530330319082 No 530330319082 No 530330319083 No 530330327031 No 530350801021 Yes 530350801021 Ves 530350801021 No 530350801021 No 530350801021 Yes 530350801021 No 530350801021 Yes 530350801022 No 530350801023 No 530350800001 No 530350803001 Yes 530350803001 Yes 530350803001 Yes 5303508050001 No 5303508050001 No	Yes	No No No No No No No No	No N	No	No	No	No N	Yes
229981 229982 229983 229986 229990 230015 230028 230032 230044 230189 230237 230255 230256 230257 230258 230260 230262 230262 230266 230270 230270	530330312025 No 530330312072 Yes 530330312073 No 530330312081 Yes 530330312081 Yes 530330313011 No 530330313023 No 530330316052 No 530330317082 No 530330317082 No 530330319083 No 530330319083 No 53033031243 No 530330327031 No 530350801021 Yes 530350801022 No 530350801022 No 530350801023 No 53035080002 Yes 530350803001 Yes 530350803001 Yes 530350803003 Yes 530350806002 Yes 5303508060002 Yes 5303508060002 Yes 5303508060002 Yes 5303508060002 Yes 5303508060002 Yes 5303508060002 Yes 5303508060000 Yes	Yes Yes Yes Yes No No Yes No No Yes	No No No No No No No No	No	No	No	No	No	Yes
229981 229982 229983 229986 229990 230015 230028 230043 230044 230189 230237 230255 230256 230257 230256 230260 230260 230260 230271 230271	530330312025 No 530330312072 Yes 530330312073 No 530330312081 Yes 530330312081 Yes 530330313023 No 53033031052 No 530330317082 No 530330317082 No 530330319082 No 530330319082 No 530330319082 No 530330319083 No 530330323243 No 530350801021 Yes 530350801021 Yes 530350801021 No 530350801022 No 530350801023 No 530350801023 No 53035080002 Yes 53035080000 Yes 53035080000 Yes 530350805001 No 530350806000 Yes	Yes	No No No No No No No No	No N	No N	No	No	No N	Yes
229981 229982 229983 229986 229990 230015 230028 230043 230044 230189 230237 230255 230256 230256 230260 230262 230266 230270 230271 230272 230275	530330312025 No 530330312072 Yes 530330312073 No 530330312081 Yes 530330312081 Yes 530330313023 No 530330316052 No 530330317082 No 530330317093 No 530330319082 No 530330319082 No 530330319082 No 530330319083 No 530330323243 No 530350801021 Yes 530350801021 Yes 530350801022 No 530350801021 No 530350801021 No 530350801021 Yes 530350800001 No 530350800001 Yes 530350800001 Yes 530350800001 Yes 5303508060001 Yes 5303508060001 No 5303508060002 Yes 5303508060002 Yes 5303508060000 Yes	Yes Yes Yes Yes Yes No Yes No No Yes Yes	No No No No No No No No	No N	No N	No N	No	No N	Yes
229981 229982 229983 229986 229990 230015 230028 230043 230044 230189 230237 230255 230256 230257 230266 230270 230271 230275 230275 230275 230275 230275	530330312025 No 530330312072 Yes 530330312073 No 530330312081 Yes 530330312081 Yes 530330313011 No 530330313023 No 530330316052 No 530330317082 No 530330317082 No 530330319082 No 530330319082 No 530330319082 No 530330312083 No 530350801021 Yes 530350801021 Yes 530350801021 No 530350801021 No 530350801021 Yes 530350801021 Yes 53035080001 Yes 53035080001 Yes 530350800001 Yes 530350800001 No 530350806002 Yes 530350806003 Yes 5303508060004 No 5303508060004 No 5303508060004 No 5303508060001 No	Yes	No No No No No No No No	No	No	No N	No	No N	Yes
229981 229982 229983 229986 229990 230015 230028 230043 230044 230189 230237 230255 230256 230256 230260 230262 230266 230270 230271 230272 230275	530330312025 No 530330312072 Yes 530330312073 No 530330312081 Yes 530330312081 Yes 530330313023 No 530330316052 No 530330317082 No 530330317093 No 530330319082 No 530330319082 No 530330319082 No 530330319083 No 530330323243 No 530350801021 Yes 530350801021 Yes 530350801022 No 530350801021 No 530350801021 No 530350801021 Yes 530350800001 No 530350800001 Yes 530350800001 Yes 530350800001 Yes 5303508060001 Yes 5303508060001 No 5303508060002 Yes 5303508060002 Yes 5303508060000 Yes	Yes Yes Yes Yes Yes No Yes No No Yes Yes	No No No No No No No No	No N	No N	No N	No	No N	Yes

230284	530350810003 No	No	Yes	Ne	No	Ne	No	No	Yes
230284				No No	No	No No	No	No	Yes
230285	530350811001 No	Yes	No						
	530350811002 No	Yes	No	No	No	No	No	No	Yes
230288	530350812002 No	Yes	No	No	No	No	No	No	Yes
230289	530350814001 No	Yes	Yes	No	No	No	No	No	Yes
230291	530350901012 No	No	No	No	No.	Yes	Yes	No.	Yes
230294	530350901021 No	No	No	No	No	No	Yes	No	Yes
230316	530350905013 No	Yes	No	No	No	No	No	No	Yes
230393	530350922001 No	Yes	No	No	No	No	No	No	Yes
230395	530350922003 No	Yes	No	No	No	No	No	No	Yes
230396	530350922004 No	Yes	No	No	No	No	No	No	Yes
230397	530350923001 No	Yes	No	No	No	No	No	No	Yes
230398	530350923002 No	Yes	No	No	No	No	No	No	Yes
230399	530350923003 No	Yes	No	No	No	No	No	No	Yes
230400	530350923004 No	Yes	No	No	No	No	No	No	Yes
230420	530350928012 No	Yes	No	No	No	No	No	No	Yes
230435	530359400001 No	No	No	No	No	Yes	No	No	Yes
230436	530359400002 No	No	No	No	No	Yes	No	No	Yes
230437	530359400003 No	No	No	No	No	Yes	No	No	Yes
230438	530359401001 No	No	No	No	No	Yes	No	No	Yes
230439	530359401002 No	No	No	No	No	Yes	No	No	Yes
230440	530359401003 No	No	No	No	No	Yes	No	No	Yes
230441	530359401004 No	No	No	No	No	Yes	No	No	Yes
230442	530359901000 No	No	No	No	No	Yes	No	No	Yes
230449	530379752013 No	Yes	No	No	No	No	No	No	Yes
230456	530379754022 No	Yes	No	No	No	No	No	No	Yes
230461	530379754032 No	Yes	No	No	No	No	No	No	Yes
230463	530379754041 Yes	Yes	No	No	No	No	No	No	Yes
230464	530379754042 No	Yes	No	No	No	No	No	No	Yes
230465	530379754043 No	Yes	No	No	No	No	No	No	Yes
230470	530379756001 No	Yes	Yes	No	No	No	No	No	Yes
230471	530379756002 No	Yes	Yes	No	No	No	No	No	Yes
230475	530399501011 No	No	Yes	No	No	No	Yes	No	Yes
230476	530399501012 No	No	Yes	No	No	Yes	No	No	Yes
230477	530399501021 No	No	Yes	No	No	No	Yes	No	Yes
230478	530399501022 No	No	Yes	No	No	No	Yes	No	Yes
230479	530399501031 No	No	Yes	No	No	No	Yes	No	Yes
230480	530399501032 No	No	Yes	No	No	No	No	No	Yes
230481	530399501033 Yes	Yes	Yes	No	No	No	No	No	Yes
230482	530399501034 No	No	Yes	No	No	No	No	No	Yes
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230484	530399502002 No	No	Yes	No	No	No	Yes	No	Yes
230485	530399502003 Yes	Yes	Yes	No	No	No	Yes	No	Yes
230486	530399502004 No	No	Yes	No	No	No	Yes	No	Yes
230493	530399503024 No	No	No	No	No	No	Yes	No	Yes
230499	530419703001 Yes	Yes	No	No	No	No	No	No	Yes
230502	530419703004 Yes	Yes	No	No	No	No	No	No	Yes
230503	530419704001 Yes	Yes	Yes	No	No	No	No	No	Yes
230504	530419704002 Yes	Yes	Yes	No	No	No	No	No	Yes
230505	530419704003 No	No	Yes	No	No	No	No	No	Yes
230506	530419704004 No	Yes	Yes	No	No	No	No	No	Yes
230507	530419705001 No	Yes	No	No	No	No	No	No	Yes
230509	530419706001 Yes	Yes	Yes	No	No	No	No	No	Yes
230510	530419706002 Yes	Yes	Yes	No	No	No	No	No	Yes
230511	530419707001 No	Yes	Yes	No	No	No	No	No	Yes
230512	530419707002 Yes	Yes	Yes	No	No	No	No	No	Yes
230513	530419707003 Yes	Yes	Yes	No	No	No	No	No	Yes
230514	530419707004 Yes	Yes	Yes	No	No	No	No	No	Yes
230518	530419708004 No	Yes	No	No	No	No	No	No	Yes
230519	530419709001 Yes	Yes	Yes	No	No	No	No	No	Yes
230520	530419709002 No	Yes	Yes	No	No	No	No	No	Yes
230526	530419712001 No	No	Yes	No	No	No	No	No	Yes
230527	530419712002 No	No	Yes	No	No	No	No	No	Yes
230528	530419713001 No	No	Yes	No	No	No	No	No	Yes
230529	530419713002 No	No	Yes	No	No	No	No	No	Yes

230530	530419713003 No	No	Yes	No	No	No	No	No	Yes
230537	530419715023 No	No	No	No	No	No	Yes	No	Yes
230544	530419717004 No	Yes	No	No	No	No	No	No	Yes
230545	530419718001 No	Yes	Yes	No	No	No	No	No	Yes
230546	530419718002 No	No	Yes	No	No	No	No	No	Yes
230547	530419718003 No	No	Yes	No	No	No	No	No	Yes
230548	530419718004 No	No	Yes	No	No	No	No	No	Yes
230549	530419719001 No	No	Yes	No	No	No	No	No	Yes
230550	530419719002 Yes	Yes	Yes	No	No	No	No	No	Yes
230551	530419719003 No	Yes	Yes	No	No	No	No	No	Yes
230558	530439602001 No	No	No	No	No	Yes	No	No	Yes
230559	530439602002 No	No	No	No	No	Yes	No	No	Yes
230560	530439602003 No	Yes	No	No	No	No	No	No	Yes
230564 230565	530439604001 No	No No	Yes	No No	No	No No	No No	No No	Yes
230566	530439604002 No 530439604003 No	No	Yes Yes	No No	No No	No	No	No No	Yes Yes
230567	530459400001 No	No	Yes	No	No	Yes	No	No	Yes
230568	530459601001 No	No	No	No	No	Yes	No	No	Yes
230569	530459601002 No	No	No	No	No	Yes	No	No	Yes
230570	530459602011 No	No	Yes	No	No	No	No	No	Yes
230571	530459602012 No	No	Yes	No	No	No	No	No	Yes
230572	530459602021 No	Yes	Yes	No	No	No	No	No	Yes
230573	530459602022 No	No	Yes	No	No	No	No	No	Yes
230574	530459602023 No	No	Yes	No	No	No	No	No	Yes
230575	530459602024 No	No	Yes	No	No	No	No	No	Yes
230593	530459605003 No	No	No	No	No	No	Yes	No	Yes
230598	530459607001 No	Yes	No	No	No	No	No	No	Yes
230600	530459608001 Yes	Yes	Yes	No	No	No	No	No	Yes
230601	530459608002 No	Yes	Yes	No	No	No	No	No	Yes
230602	530459608003 Yes	Yes	Yes	No	No	No	No	No No	Yes
230603 230604	530459608004 Yes	Yes	Yes	No	No No	No No	No No	No No	Yes Yes
230605	530459609001 Yes 530459609002 Yes	Yes	Yes	No No	No	No No	No	No No	Yes
230606	530459609002 Tes 530459609003 No	No	Yes	No	No	No	No	No	Yes
230607	530459609004 Yes	Yes	Yes	No	No	No	No	No	Yes
230611	530459610004 No	No	No	No	No	No	Yes	No	Yes
230612	530459611011 No	No	Yes	No	No	Yes	No	No	Yes
230613	530459611012 No	No	Yes	No	No	No	No	No	Yes
230614	530459611021 No	No	Yes	No	No	No	No	No	Yes
230615	530459611022 No	No	Yes	No	No	No	No	No	Yes
230616	530459611023 No	No	Yes	No	No	No	No	No	Yes
230620	530459613001 No	No	No	No	No	Yes	Yes	No	Yes
230621	530459613002 No	No	No	No	No	Yes	Yes	No	Yes
230623	530479401001 No	No	Yes	No	No	Yes	No	No	Yes
230624	530479401002 No	No	Yes	No No	No	Yes	No	No No	Yes
230625 230626	530479401003 No 530479402001 No	No No	Yes Yes	No No	No No	Yes Yes	No No	No No	Yes Yes
230626	530479402001 No	Yes	Yes	No	No	Yes	No	No No	Yes
230627	530479402002 No 530479402003 No	Yes	Yes	No	No	Yes	No	No No	Yes
230629	530479703011 No	No	Yes	No	No	No	No	No	Yes
230630	530479703012 Yes	Yes	Yes	No	No	No	No	No	Yes
230631	530479703013 No	No	Yes	No	No	No	No	No	Yes
230632	530479703021 No	No	Yes	No	No	No	No	No	Yes
230633	530479703022 No	No	Yes	No	No	No	No	No	Yes
230634	530479703031 No	No	Yes	No	No	No	No	No	Yes
230635	530479703032 No	No	Yes	No	No	No	No	No	Yes
230636	530479703033 No	No	Yes	No	No	No	No	No	Yes
230637	530479704001 No	No	Yes	No	No	No	No	No	Yes
230638	530479704002 No	No	Yes	No	No	No	No	No No	Yes
230639 230640	530479704003 No 530479705001 No	Yes No	Yes Yes	No No	No No	No No	No No	No No	Yes Yes
230640	530479705001 No 530479705002 No	No No	Yes	No No	No No	No No	No No	No No	Yes
230641	530479706011 No	No	Yes	No	No	No No	No	No No	Yes
230642	530479706011 No	Yes	Yes	No	No	No No	No	No	Yes
230644	530479706021 No	Yes	Yes	No	No	No	No	No	Yes
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	230645	530479706022 No	Yes	Yes	No	No	No	No	No	Yes
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1,000.000000000000000000000000000000000	230654	530479708002 Yes	Yes	Yes	No	No	No	No	No	Yes
200507 50007970000 fto Ve Ve Ve No No No No No No No Ve	230655	530479708003 Yes	Yes	Yes	No		No	No	No	Yes
1,946.00 1,940.00 1,940.00 1,940.00 1,940.00 1,940.00 1,940.00 1,940.00 1,940.00 1,940.00 1,940.00 1,940.00 1,940.00 1,940.00 1,940.00 1,940.00 1,940.00 1,940.00 1,940.00 1,940.00 1,940.00 1,940.00 1,940.00 1,940.00 1,940.00 1,940.00 1,940.00 1,940.00 1,940.00 1,940.00 1,940.00 1,940.00 1,940.00 1,940.00 1,940.00 1,940.00 1,940.00 1,940.00 1,940.00 1,940.00 1,940.00 1,940.00 1,940.00 1,940.00 1,940.00 1,940.00 1,940.00 1,940.00 1,940.00 1,940.00 1,940.00 1,940.00 1,940.00 1,940.00 1,940.00 1,940.00 1,940.00 1,940.00 1,940.00 1,940.00 1,940.00 1,940.00 1,940.00 1,940.00 1,940.00 1,940.00 1,940.00 1,940.00 1,940.00 1,940.00 1,940.00 1,940.00 1,940.00 1,940.00 1,940.00 1,940.00 1,940.00 1,940.00 1,940.00 1,940.00 1,940.00 1,940.00 1,940.00 1,940.00 1,940.00 1,940.00 1,940.00 1,940.00 1,940.00 1,940.00 1,940.00 1,940.00 1,940.00 1,940.00 1,940.00 1,940.00 1,940.00 1,940.00 1,940.00 1,940.00 1,940.00 1,940.00 1,940.00 1,940.00 1,940.00 1,940.00 1,940.00 1,940.00 1,940.00 1,940.00 1,940.00 1,940.00 1,940.00 1,940.00 1,940.00 1,940.00 1,940.00 1,940.00 1,940.00 1,940.00 1,940.00 1,940.00 1,940.00 1,940.00 1,940.00 1,940.00 1,940.00 1,940.00 1,940.00 1,940.00 1,940.00 1,940.00 1,940.00 1,940.00 1,940.00 1,940.00 1,940.00 1,940.00 1,940.00 1,940.00 1,940.00 1,940.00 1,940.00 1,940.00 1,940.00 1,940.00 1,940.00 1,940.00 1,940.00 1,940.00 1,940.00 1,940.00 1,940.00 1,940.00 1,940.00 1,940.00 1,940.00 1,940.00 1,940.00 1,940.00 1,940.00 1,940.00 1,940.00 1,940.00 1,940.00 1,940.00 1,940.00 1,940.00 1,940.00 1,940.00 1,940.00 1,940.00 1,940.00 1,940.00 1,940.00 1,940.00 1,940.00 1,940.00 1,940.00 1,940.00 1,940.00 1,940.00 1,940.00 1,940.00 1,940.00 1,940.00	230656	530479708004 Yes		Yes	No		No	No	No	Yes
1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,00	230657	530479708005 No	Yes	Yes	No	No	No	No	No	Yes
1906-14 100-17-17-1003 No	230661	530479710001 No	No	Yes	No	No	No	No	No	Yes
1,999.06 1,900.07 1,900.00 1,900.00 1,900.00 1,900.00 1,900.00 1,900.00 1,900.00 1,900.00 1,900.00 1,900.00 1,900.00 1,900.00 1,900.00 1,900.00 1,900.00 1,900.00 1,900.00 1,900.00 1,900.00 1,900.00 1,900.00 1,900.00 1,900.00 1,900.00 1,900.00 1,900.00 1,900.00 1,900.00 1,900.00 1,900.00 1,900.00 1,900.00 1,900.00 1,900.00 1,900.00 1,900.00 1,900.00 1,900.00 1,900.00 1,900.00 1,900.00 1,900.00 1,900.00 1,900.00 1,900.00 1,900.00 1,900.00 1,900.00 1,900.00 1,900.00 1,900.00 1,900.00 1,900.00 1,900.00 1,900.00 1,900.00 1,900.00 1,900.00 1,900.00 1,900.00 1,900.00 1,900.00 1,900.00 1,900.00 1,900.00 1,900.00 1,900.00 1,900.00 1,900.00 1,900.00 1,900.00 1,900.00 1,900.00 1,900.00 1,900.00 1,900.00 1,900.00 1,900.00 1,900.00 1,900.00 1,900.00 1,900.00 1,900.00 1,900.00 1,900.00 1,900.00 1,900.00 1,900.00 1,900.00 1,900.00 1,900.00 1,900.00 1,900.00 1,900.00 1,900.00 1,900.00 1,900.00 1,900.00 1,900.00 1,900.00 1,900.00 1,900.00 1,900.00 1,900.00 1,900.00 1,900.00 1,900.00 1,900.00 1,900.00 1,900.00 1,900.00 1,900.00 1,900.00 1,900.00 1,900.00 1,900.00 1,900.00 1,900.00 1,900.00 1,900.00 1,900.00 1,900.00 1,900.00 1,900.00 1,900.00 1,900.00 1,900.00 1,900.00 1,900.00 1,900.00 1,900.00 1,900.00 1,900.00 1,900.00 1,900.00 1,900.00 1,900.00 1,900.00 1,900.00 1,900.00 1,900.00 1,900.00 1,900.00 1,900.00 1,900.00 1,900.00 1,900.00 1,900.00 1,900.00 1,900.00 1,900.00 1,900.00 1,900.00 1,900.00 1,900.00 1,900.00 1,900.00 1,900.00 1,900.00 1,900.00 1,900.00 1,900.00 1,900.00 1,900.00 1,900.00 1,900.00 1,900.00 1,900.00 1,900.00 1,900.00 1,900.00 1,900.00 1,900.00 1,900.00 1,900.00 1,900.00 1,900.00 1,900.00 1,900.00 1,900.00 1,900.00 1,900.00 1,900.00 1,900.00	230662	530479710002 No	No	Yes	No	No	No	No	No	Yes
1,59856 1,5967911005 10	230663	530479710003 No	No	Yes	No	No	No	No	No	Yes
1,39886 359995000 No	230664	530479710004 No	No	Yes	No	No	No	No	No	Yes
230868 3309950000 No. Ves No. Ves No. Ves No. Ves No. No	230665	530479710005 No	No	Yes	No	No	No	No	No	Yes
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2230588 530519702001 No	230696	530519702003 No	No	Yes	No	No	No	No	No	Yes
2230799 530519703002 No	230697	530519702004 No	No	Yes	No	No	Yes	Yes	No	Yes
220700 530519704001 No	230698	530519703001 No	No	Yes	No	No	No	No	No	Yes
230701 530519704002 No	230699	530519703002 No	No	Yes	No	No	No	No	No	Yes
230702 530519704003 No		530519704001 No	Yes	Yes	No	No	No	No	No	Yes
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230723 530530610021 No Yes Yes No No No No No No No No No Yes Yes No No No No No No No No Yes Sa0530610021 No Yes Yes No Yes Sa0530610022 No No Yes No Yes Sa0530610023 No No Yes No Yes Sa0530610023 No No Yes No										
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	230769	530530616012 Yes			No		No	No		Yes
230772 530530617002 Yes Yes No No No No No Yes	230770	530530616021 Yes	Yes	No	No	No	No	No	No	Yes
	230772	530530617002 Yes	Yes	No	No	No	No	No	No	Yes

230774	530530617004 Yes	Yes	No	No	No	Ne	Me	Ne	Yes
230774			No	No		No No	No No	No No	
230777	530530619001 No	Yes	Yes	No No	No			No No	Yes
	530530619002 Yes	Yes	Yes	No	No	No	No	No	Yes
230779	530530620001 Yes	Yes	Yes	No	No	No	No	No	Yes
230780	530530620002 Yes	Yes	Yes	No	No	Yes	No	No	Yes
230781	530530620003 Yes	Yes	Yes	No	No	No	No	No	Yes
230782	530530623001 No	Yes	No	No	No	Yes	No	No	Yes
230783	530530623002 Yes	Yes	No	No	No	Yes	No	No	Yes
230784	530530623003 No	No	No	No	No	Yes	No	No	Yes
230785	530530623004 No	No	No	No	No	Yes	No	No	Yes
230786	530530624001 No	Yes	No	No	No	No	No	No	Yes
230789	530530624004 Yes	Yes	No	No	No	No	No	No	Yes
230790	530530625011 Yes	Yes	No	No	No	No	No	No	Yes
230791	530530625012 Yes	Yes	No	No	No	No	No	No	Yes
230795	530530626001 Yes	Yes	Yes	No	No	No	No	No	Yes
230796	530530626002 Yes	Yes	Yes	No	No	No	No	No	Yes
230797	530530626003 Yes	Yes	Yes	No	No	No	No	No	Yes
230798	530530628011 No	Yes	Yes	No	No	No	No	No	Yes
230799	530530628012 Yes	Yes	Yes	No	No	No	No	No	Yes
230800	530530628013 Yes	Yes	Yes	No	No	No	No	No	Yes
230801	530530628014 Yes	Yes	Yes	No	No	No	No	No	Yes
230804	530530628023 No	Yes	No	No	No	No	No	No	Yes
230807	530530629013 Yes	Yes	No	No	No	No	No	No	Yes
230810	530530629023 No	Yes	No	No	No	No	No	No	Yes
230811	530530630001 Yes	Yes	Yes	No	No	No	No	No	Yes
230812	530530630002 Yes	Yes	Yes	No	No	No	No	No	Yes
230813	530530631001 No	Yes	No	No	No	No	No	No	Yes
230814	530530631002 No	Yes	No	No	No	No	No	No	Yes
230817	530530632002 Yes	Yes	No	No	No	No	No	No	Yes
230818	530530632003 No	Yes	No	No	No	No	No	No	Yes
230820	530530633011 Yes	Yes	Yes	No	No	No	No	No	Yes
230821	530530633012 Yes	Yes	Yes	No	No	No	No	No	Yes
230822	530530633013 Yes	Yes	Yes	No	No	Yes	No	No	Yes
230823	530530633021 Yes	Yes	Yes	No	No	No	No	No	Yes
230824	530530633022 Yes	Yes	Yes	No	No	No	No	No	Yes
230825	530530633023 Yes	Yes	Yes	No	No	No	No	No	Yes
				No	No	No	No	No	Yes
230826			Yes						
230826	530530634011 Yes	Yes	Yes			No	No		
230827	530530634011 Yes 530530634012 Yes	Yes Yes	Yes	No	No	No No	No No	No	Yes
230827 230828	530530634011 Yes 530530634012 Yes 530530634013 Yes	Yes Yes Yes	Yes Yes	No No	No No	No	No	No No	Yes Yes
230827 230828 230829	530530634011 Yes 530530634012 Yes 530530634013 Yes 530530634021 No	Yes Yes Yes Yes	Yes Yes Yes	No No No	No No No	No No	No No	No No No	Yes Yes Yes
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230827 230828 230829 230830 230831	530530634011 Yes 530530634012 Yes 530530634013 Yes 530530634021 No 530530634022 Yes 530530634023 Yes	Yes Yes Yes Yes Yes Yes Yes	Yes Yes Yes Yes	No No No No	No No No No No	No No No No	No No No No	No No No No No	Yes Yes Yes Yes Yes
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230827 230828 230829 230830 230831 230832 230833 230834	530530634011 Yes 530530634012 Yes 530530634013 Yes 530530634021 No 530530634022 Yes 530530634023 Yes 530530635011 No 530530635012 Yes 530530635012 Yes	Yes Yes Yes Yes Yes Yes Yes No Yes Yes	Yes	No No No No No No No No	No	No	No No No No No No	No No No No No No No	Yes
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230827 230828 230829 230830 230831 230832 230833 230834 230835 230836 230837 230838 230840 230850 230907 230910 230914 230918	530530634011 Yes 530530634012 Yes 530530634012 Yes 530530634012 No 530530634021 No 530530634022 Yes 530530635011 No 530530635011 Yes 530530635012 Yes 530530635012 Yes 530530635022 Yes 530530635022 Yes 530530635022 Yes 530530635022 No 53053070202 No 530530703073 No 530530703073 No 530530707031 No 530530712051 No 530530712051 No 530530712061 Yes	Yes Yes Yes Yes Yes Yes Yes Yes No Yes Yes Yes Yes Yes Yes Yes Yes You No No No No No No No Yes	Yes	No	No N	No	No N	NO	Yes
230827 230828 230829 230830 230831 230832 230833 230834 230835 230836 230840 230850 230863 230907 230910 230914 230918 230919	530530634011 Yes 530530634012 Yes 530530634012 Yes 530530634012 Nes 530530634021 No 530530634022 Yes 530530635011 No 530530635012 Yes 530530635012 Yes 530530635012 Yes 530530635022 Yes 530530635022 Yes 530530635022 Yes 530530635022 No 53053070020 No 53053070002 No 53053070001 No 53053070001 No 530530707034 No 530530712061 No 530530712061 Yes 530530712061 Yes	Yes Yes Yes Yes Yes Yes Yes No Yes	Yes	No	No N	No	No N	No	Yes
230827 230828 230829 230830 230831 230832 230833 230834 230835 230836 230837 230838 230840 230850 230863 230910 230914 230918 230919 230919	530530634011 Yes 530530634012 Yes 530530634012 Yes 530530634012 Nes 530530634021 No 530530634022 Yes 530530635011 No 530530635012 Yes 530530635012 Yes 530530635012 Yes 530530635012 Yes 530530635022 Yes 530530635022 Yes 530530635023 Yes 530530635024 No 530530701002 No 530530701002 No 530530702062 No 530530703031 No 530530703031 No 530530712061 No 530530712061 Yes 530530712061 Yes 530530712061 Yes 530530712062 No	Yes	Yes	No	No N	No N	No N	NO	Yes
230827 230828 230829 230830 230831 230832 230834 230835 230836 230837 230838 230840 230850 230863 230907 230919 230918 230918 230919 230920 230921	530530634011 Yes 530530634012 Yes 530530634012 Yes 530530634012 No 530530634021 No 530530634022 Yes 530530635011 No 530530635011 Yes 530530635012 Yes 530530635012 Yes 530530635021 Yes 530530635022 Yes 530530635022 Yes 530530635022 Yes 530530702062 No 530530702062 No 530530702062 No 530530702062 No 530530702061 No 530530702061 Ves 530530702061 No 530530712061 No 530530712061 No 530530712061 Ves 530530712061 Ves 530530712063 No 530530712064 No	Yes Yes Yes Yes Yes Yes Yes No No Yes	Yes	No	No N	No N	No	NO	Yes
230827 230828 230829 230830 230831 230832 230833 230835 230836 230836 230840 230850 230863 230907 230910 230914 230918 230920 230921 230921 230921	530530634011 Yes 530530634012 Yes 530530634012 Yes 530530634012 No 530530634021 No 530530634022 Yes 530530635011 No 530530635011 Yes 530530635012 Yes 530530635012 Yes 530530635022 Yes 530530635022 Yes 530530635022 Yes 530530635022 No 53053071002 No 53053071002 No 53053071004 No 530530712061 No 530530712061 Yes 530530712061 No 530530712061 No 530530712063 No 530530712064 No 530530712063 No 530530712064 No 530530712066 No	Yes Yes Yes Yes Yes Yes Yes No Yes	Yes	No	No N	No	No	NO	Yes
230827 230828 230829 230830 230831 230832 230833 230835 230836 230836 230840 230850 230850 230910 230914 230918 230919 230920 230921 230922 230925	530530634011 Yes 530530634012 Yes 530530634012 Yes 530530634012 Nes 530530634021 No 530530634022 Yes 530530635011 No 530530635012 Yes 530530635012 Yes 530530635012 Yes 530530635022 Yes 530530635022 Yes 530530635022 Yes 530530635022 No 530530730020 No 53053073000 No 53053073000 No 53053073000 No 53053073000 No 530530712061 No 530530712061 No 530530712061 No 530530712063 No 530530712063 No 530530712064 No 530530712064 No 530530712064 No 530530712065 No 530530712065 No	Yes Yes Yes Yes Yes Yes Yes Yes No No Yes Yes Yes Yes Yes Yes Yes Yes Yes No	Yes No No	No	No N	No	No	NO N	Yes
230827 230828 230829 230830 230831 230832 230833 230834 230835 230836 230837 230838 230840 230850 230863 230910 230914 230918 230919 230920 230921 230922 230925 230926	530530634011 Yes 530530634012 Yes 530530634012 Yes 530530634012 Nes 530530634021 No 530530634022 Yes 530530635011 No 530530635012 Yes 530530635012 Yes 530530635012 Yes 530530635012 Yes 530530635022 Yes 530530635023 Yes 530530635023 Yes 530530635023 No 530530702062 No 530530703073 No 530530703073 No 530530712061 No 530530712061 No 530530712061 No 530530712061 No 530530712064 No 530530712068 No 530530712068 No 530530712065 No 530530712065 No 530530712074 Yes	Yes	Yes No	No No No No No No No No	No N	No	No	NO	Yes
230827 230828 230829 230830 230831 230832 230833 230834 230836 230836 230836 230850 230863 230907 230919 230919 230919 230920 230921 230922 230926 230926 230944	530530634011 Yes 530530634012 Yes 530530634012 Yes 530530634012 No 530530634021 No 530530634022 Yes 530530635011 No 530530635011 Yes 530530635012 Yes 530530635012 Yes 530530635012 Yes 530530635022 Yes 530530635022 Yes 530530635022 Yes 530530702002 No 530530702002 No 530530702062 No 530530702062 No 530530702062 No 530530712061 No 530530712064 No 530530712064 No 530530712065 No 530530712064 No 530530712066 No 530530712066 No 530530712067 Yes 530530712068 No 530530712073 Yes 530530712073 Yes 530530712074 Yes 530530712074 Yes 530530712074 Yes 530530712074 Yes	Yes Yes Yes Yes Yes Yes Yes Yes No No Yes Yes Yes Yes Yes Yes Yes Yes No	Yes	No	No No No No No No No No	No	No	No No No No No No No No	Yes
230827 230828 230829 230830 230831 230832 230833 230834 230835 230836 230837 230838 230840 230850 230863 230910 230914 230918 230919 230920 230921 230922 230925 230926	530530634011 Yes 530530634012 Yes 530530634012 Yes 530530634012 Nes 530530634021 No 530530634022 Yes 530530635011 No 530530635012 Yes 530530635012 Yes 530530635012 Yes 530530635012 Yes 530530635022 Yes 530530635023 Yes 530530635023 Yes 530530635023 No 530530702062 No 530530703073 No 530530703073 No 530530712061 No 530530712061 No 530530712061 No 530530712061 No 530530712064 No 530530712068 No 530530712068 No 530530712065 No 530530712065 No 530530712074 Yes	Yes	Yes No	No No No No No No No No	No N	No	No	NO	Yes

230972	530530714111 No	Yes	No	No I	No No	No	No	Yes
230972	530530714111 NO 530530714112 Yes	Yes	No		No No		No	Yes
230974	530530714112 Tes 530530714113 Yes	Yes	No		No No		No	Yes
230976	530530714113 Yes 530530714122 No	Yes	No		No No		No	Yes
230987	530530714122 No 530530714161 Yes	Yes	No		No No		No	Yes
230988	530530714162 Yes	Yes	No		No No		No	Yes
230990	530530714172 No	Yes	No		No No		No	Yes
230991	530530715031 Yes	Yes	No		No No		No	Yes
230992	530530715032 Yes	Yes	No		No No		No	Yes
230994	530530715034 No	Yes	No		No No		No	Yes
230995	530530715041 Yes	Yes	Yes		No No		No	Yes
230996	530530715042 Yes	Yes	Yes		No No		No	Yes
230997	530530715043 No	No	Yes		No No		No	Yes
230998	530530715044 No	No	Yes	No I	No No	No	No	Yes
231007	530530716011 Yes	Yes	Yes	No I	No No	No	No	Yes
231008	530530716012 No	Yes	Yes	No I	No No	No	No	Yes
231009	530530716013 Yes	Yes	Yes	No I	No No	No	No	Yes
231010	530530716014 Yes	Yes	Yes	No I	No No	No	No	Yes
231011	530530716031 Yes	Yes	No	No I	No No	No	No	Yes
231012	530530716032 Yes	Yes	No		No No		No	Yes
231015	530530716042 Yes	Yes	No		No No		No	Yes
231016	530530716043 No	Yes	No		No No		No	Yes
231017	530530717031 Yes	Yes	Yes		No No		No	Yes
231018	530530717032 Yes	Yes	Yes		No No		No	Yes
231019	530530717041 Yes	Yes	Yes		No No		No	Yes
231020	530530717042 Yes	Yes	Yes		No No		No	Yes
231021	530530717043 Yes	Yes	Yes		No No		No	Yes
231022	530530717051 Yes	Yes	Yes		No No		No	Yes
231023	530530717052 No	No	Yes		No No		No	Yes
231024	530530717053 No	Yes	Yes		No No		No.	Yes
231025	530530717061 Yes	Yes	Yes		No No		No	Yes
231026 231027	530530717071 No 530530717072 Yes	Yes	No No		No No		No No	Yes Yes
231027	530530717072 TeS 530530718031 No	No	Yes		No No		No No	Yes
231028	530530718031 No	No	Yes		No No		No.	Yes
231030	530530718033 No	No	Yes		No No		No	Yes
231031	530530718034 No	No	Yes		No No		No	Yes
231032	530530718051 Yes	Yes	Yes		No No		No	Yes
231033	530530718052 Yes	Yes	Yes		No No		No	Yes
231034	530530718053 Yes	Yes	Yes		No No		No	Yes
231035	530530718061 Yes	Yes	Yes	No I	No No	No	No	Yes
231036	530530718062 Yes	Yes	Yes	No I	No No	No	No	Yes
231037	530530718063 Yes	Yes	Yes	No I	No No	No	No	Yes
231038	530530718071 Yes	Yes	Yes	No I	No No	No	No	Yes
231039	530530718072 Yes	Yes	Yes	No I	No No	No	No	Yes
231040	530530718073 Yes	Yes	Yes		No No		No	Yes
231041	530530718074 Yes	Yes	Yes		No No		No	Yes
231042	530530718081 Yes	Yes	Yes		No No		No	Yes
231043	530530718082 No	Yes	Yes		No No		No	Yes
231044	530530718083 Yes	Yes	Yes		No No		No	Yes
231045	530530719011 Yes	Yes	Yes		No No		No	Yes
231046	530530719012 No	Yes	Yes		No No		No.	Yes
231047	530530719013 No	No	Yes		No No		No.	Yes
231052 231053	530530720001 Yes 530530720002 Yes	Yes	Yes Yes		No No		No No	Yes Yes
231053	530530720002 Yes 530530720003 No	Yes	Yes		No No		No No	Yes
231054	530530720003 No 530530721053 Yes	Yes	No Yes		No No		No No	Yes Yes
231057	530530721055 TeS 530530721061 No	No	Yes		No No		No No	Yes
231059	530530721061 No	Yes	Yes		No No		No	Yes
231061	530530721062 No	No	Yes		No No		No	Yes
231062	530530721064 No	No	Yes		No No		No	Yes
231083	530530723071 No	Yes	No		No No		No	Yes
231156	530530726035 No	Yes	No		No No		No	Yes
231165	530530729032 No	Yes	No		No No		No	Yes
231166	530530729071 Yes	Yes	Yes	No I	No No	No	No	Yes

231167	530530729072 No	Yes	Yes	No	No	No	No	No	Yes
231168	530530729072 No	No	Yes	No	No	No	No	No	Yes
231169	530530729073 No 530530729081 Yes	Yes	Yes	No	No	No	No	No	Yes
231170	530530729082 No	No	Yes	No	No	No	No	No	Yes
231170	530530729082 No	No	Yes	No	No	No	No	No	Yes
231171	530530729084 No	No	Yes	No	No	No	No	No	Yes
231172	530530729084 NO 530530729092 No	No	No	No	No	Yes	No	No	Yes
231174	530530725052 NO 530530731111 Yes	Yes	No	No	No	No	No	No	Yes
231190	530530731111 Yes 530530731184 No	Yes	No	No	No No	No	No No	No	Yes
231218	530530731164 NO 530530731221 No	Yes	No	No	No	No	No	No	Yes
231218	530530731221 NO 530530731262 No	Yes	No	No	No No	No	No No	No	Yes
231227	530530731202 No	Yes	No	No	No	No	No	No	Yes
231229	530530731271 NO 530530731272 Yes	Yes	No	No	No No	No	No No	No	Yes
231230	530530731272 Yes 530530731282 Yes	Yes	No	No	No	No	No	No	Yes
231232	530530731282 Yes 530530731283 Yes	Yes	No	No	No	No	No	No	Yes
231239	530530731283 Tes 530530731302 Yes	Yes	No	No	No	No	No	No	Yes
231239	530530731302 Yes 530530731322 Yes	Yes	No	No	No	No	No	No	Yes
231257	530530731322 Tes 530530733014 No	Yes	No	No	No	No	No	No	Yes
231257	530530733014 NO 530530733015 Yes	Yes	No	No	No	No	No	No	Yes
231258	530530733013 Tes 530530734052 No	Yes	No	No	No.	No	No No	No No	Yes
231208	530530734052 NO 530530734064 No	Yes	No	No	No No	No	No No	No	Yes
231273	530530734004 NO 530530734071 Yes	Yes	No	No	No.	No	No No	No No	Yes
231274	530530734071 Yes 530530734072 No	Yes	No	No	No No	Yes	No No	No	Yes
231275	530530734072 No 530530734081 No	Yes	No	No	No	Yes	No No	No	Yes
231277	530539400011 No	No	No	No	No	Yes	No	No	Yes
231287	530539400011 No	No	No	No	No	Yes	No	No	Yes
231287	530539400012 No	Yes	Yes	No	No	Yes	No	No	Yes
231289	530539400021 No	No	Yes	No	No	Yes	No	No	Yes
231290	530539400022 No 530539400023 Yes	Yes	Yes	No	No	Yes	No	No	Yes
231291	530539400023 Tes 530539400024 No	No	Yes	No	No	Yes	No	No	Yes
231292	530539400024 No	No	No	No	No	Yes	No	No	Yes
231292	530539400041 No	No	No	No	No	Yes	No	No	Yes
231294	530539400042 No	No	No	No	No	Yes	No	No	Yes
231295	530539400044 No	No	No	No	No	Yes	No	No	Yes
231296	530539400044 No	No	No	No	No.	Yes	No No	No	Yes
231297	530539400051 No	No	Yes	No	No	Yes	No	No	Yes
231298	530539400052 No	No	Yes	No	No	Yes	No	No	Yes
231299	530539400053 No	No	Yes	No	No	Yes	No	No	Yes
231300	530539400054 No	No	Yes	No	No	Yes	No	No	Yes
231301	530539400061 Yes	Yes	Yes	No	No	Yes	No	No	Yes
231302	530539400062 Yes	Yes	Yes	No	No	Yes	No	No	Yes
231303	530539400071 Yes	Yes	Yes	No	No	Yes	Yes	No	Yes
231304	530539400072 Yes	Yes	Yes	No	No	Yes	No	No	Yes
231305	530539400081 No	No	Yes	No	No.	Yes	No	No	Yes
231305	530539400081 No	No	Yes	No	No	Yes	No	No	Yes
231307	530539400083 No	No	Yes	No	No.	Yes	No	No	Yes
231308	530539400084 No	No	Yes	No	No	Yes	No	No	Yes
231309	530539400091 No	No	No	No	No	Yes	No	No	Yes
231311	530539400101 No	No	No	No	No	Yes	No	No	Yes
231313	530539400103 No	Yes	No	No	No	Yes	No	No	Yes
231314	530539400111 No	No	Yes	No	No	Yes	No	No	Yes
231315	530539400112 No	No	Yes	No	No	Yes	No	No	Yes
231316	530539400113 No	No	Yes	No	No	Yes	No	No	Yes
231317	530539400121 Yes	Yes	Yes	No	No	Yes	No	No	Yes
231318	530539400122 No	No	Yes	No	No	Yes	No	No	Yes
231319	530539400123 No	No	Yes	No	No	Yes	No	No	Yes
231320	530539400131 No	No	Yes	No	No	Yes	No	No	Yes
231321	530539400132 No	No	Yes	No	No	Yes	No	No	Yes
231322	530539400133 No	No	Yes	No	No	Yes	No	No	Yes
231352	530579405001 No	Yes	Yes	No	No	No	No	No	Yes
231353	530579405002 No	No	Yes	No	No	No	No	No	Yes
231354	530579405003 No	No	Yes	No	No	No	No	No	Yes
231355	530579406001 No	No	Yes	No	No	No	No	No	Yes
231356	530579406002 No	No	Yes	No	No	No	No	No	Yes
			No	No	No	Yes	No	No	Yes
231359	530579408011 No	No	INU	INU					

231360	530579408021 No	No	No	No	No	Yes	No	No	Yes
231361	530579408021 No	No	No	No	No	Yes	No	No	Yes
231367	530579508022 No	No	No	No	No	Yes	Yes	No	Yes
231370	530579509002 No	No	No	No	No	Yes	Yes	No	Yes
231374	530579511011 No	No	Yes	No	No	No	No	No	Yes
231375	530579511012 No	Yes	Yes	No	No	No	No	No	Yes
231376	530579511012 No	Yes	Yes	No	No	No	No	No	Yes
231377	530579511022 No	No	Yes	No	No	Yes	No	No	Yes
231377	530579511022 No	No	Yes	No	No	No	No	No	Yes
231384	530579514002 No	Yes	No	No	No	No	No	No	Yes
231389	530579515013 No	Yes	No	No	No	No	No	No	Yes
231394	530579516001 No	Yes	No	No	No	No	No	No	Yes
231397	530579517001 No	No	Yes	No	No	No	No	No	Yes
231398	530579517002 No	No	Yes	No	No	No	No	No	Yes
231399	530579518001 No	Yes	No	No	No	No	No	No	Yes
231400	530579518002 Yes	Yes	No	No	No	No	No	No	Yes
231401	530579518003 No	Yes	No	No	No	No	No	No	Yes
231404	530579521001 No	No	No	No	No	No	Yes	No	Yes
231407	530579522001 Yes	Yes	Yes	No	No	No	No	No	Yes
231408	530579522002 Yes	Yes	Yes	No	No	No	No	No	Yes
231409	530579522002 Yes 530579522003 No	Yes	Yes	No	No	No	No	No	Yes
231410	530579523011 Yes	Yes	Yes	No	No	No	No	No	Yes
231411	530579523012 Yes	Yes	Yes	No	No	No	No	No	Yes
231412	530579523013 No	No	Yes	No	No	No	No	No	Yes
231420	530579524013 Yes	Yes	No	No	No	No	No	No	Yes
231421	530579524031 No	Yes	No	No	No	No	No	No	Yes
231423	530579524041 No	Yes	No	No	No	No	No	No	Yes
231425	530579525001 No	No	Yes	No	No	No	No	No	Yes
231426	530579525002 No	No	Yes	No	No	No	No	No	Yes
231427	530579525003 No	Yes	Yes	No	No	No	No	No	Yes
231435	530579901000 No	No	Yes	No	No	Yes	No	No	Yes
231450	530610402001 No	Yes	Yes	No	No	No	No	No	Yes
231451	530610402002 Yes	Yes	Yes	No	No	No	No	No	Yes
231452	530610402003 No	No	Yes	No	No	No	No	No	Yes
231453	530610402004 Yes	Yes	Yes	No	No	No	No	No	Yes
231454	530610402005 Yes	Yes	Yes	No	No	No	No	No	Yes
231455	530610403001 No	Yes	No	No	No	No	No	No	Yes
231456	530610403002 No	Yes	No	No	No	No	No	No	Yes
231457	530610404001 No	Yes	No	No	No	No	No	No	Yes
231462	530610407001 Yes	Yes	Yes	No	No	No	No	No	Yes
231463	530610407002 Yes	Yes	Yes	No	No	No	No	No	Yes
231464	530610407003 No	No	Yes	No	No	No	No	No	Yes
231465	530610407004 No	Yes	Yes	No	No	No	No	No	Yes
231467	530610408002 No	Yes	No	No	No	No	No	No	Yes
231471	530610410001 No	Yes	No	No	No	No	No	No	Yes
231481	530610412021 No	Yes	Yes	No	No	No	No	No	Yes
231482	530610412022 No	Yes	Yes	No	No	No	No	No	Yes
231483	530610412023 No	No	Yes	No	No	No	No	No	Yes
231484	530610412024 Yes	Yes	Yes	No	No	No	No	No	Yes
231489	530610413031 No	Yes	No	No	No	No	No	No	Yes
231491	530610413033 No	Yes	No	No	No	No	No	No	Yes
231496	530610414002 No	Yes	No	No	No	No	No	No	Yes
231498	530610414004 No	Yes	No	No	No	No	No	No	Yes
231500	530610415002 No	Yes	No	No	No	No	No	No	Yes
231510	530610416061 No	Yes	No	No	No	No	No	No	Yes
231512	530610416063 No	Yes	No	No	No	No	No	No	Yes
231513	530610416064 Yes	Yes	No	No	No	No	No	No	Yes
231519	530610416093 Yes	Yes	No	No	No	No	No	No	Yes
231523	530610417011 Yes	Yes	No	No	No	No	No	No	Yes
231526	530610417014 Yes	Yes	No	No	No	No	No	No	Yes
231537	530610418052 No	Yes	No	No	No	No	No	No	Yes
				No	No	No	No	No	Yes
231540	530610418081 Yes	Yes	No		No				
231541	530610418082 Yes	Yes	No	No	No	No	No	No	Yes
									Yes Yes Yes

231544	530610418092 No	Yes	Yes	No	No	No	No	Ne	Yes
231544				No		No No	No No	No	
231545	530610418093 Yes	Yes	Yes	No No	No			No	Yes
	530610418101 Yes	Yes	No	No	No	No	No	No	Yes
231547	530610418102 Yes	Yes	No	No	No	No	No	No	Yes
231548	530610418103 No	Yes	No	No	No	No	No	No	Yes
231549	530610418121 Yes	Yes	Yes	No	No	No	No	No	Yes
231550	530610418122 No	No	Yes	No	No	No	No	No	Yes
231551	530610418123 No	No	Yes	No	No	No	No	No	Yes
231552	530610418124 Yes	Yes	Yes	No	No	No	No	No	Yes
231553	530610418131 No	No	Yes	No	No	No	No	No	Yes
231554	530610418132 No	No	Yes	No	No	No	No	No	Yes
231555 231556	530610418133 Yes	Yes	Yes	No No	No No	No	No No	No No	Yes Yes
	530610418141 Yes	Yes	Yes			No			
231557	530610418142 Yes	Yes	Yes	No	No	No	No	No	Yes
231558	530610418143 Yes	Yes	Yes	No	No	No	No	No	Yes
231559	530610418151 Yes	Yes	No	No	No	No	No	No	Yes
231561	530610418153 No	Yes	No	No	No	No	No	No	Yes
231564	530610418163 No	Yes	No	No	No	No	No	No	Yes
231565 231566	530610419011 No 530610419012 Yes	No Yes	Yes	No No	No No	No No	No No	No No	Yes Yes
			Yes	-				•	
231567	530610419013 No	No	Yes	No	No	No	No	No	Yes
231568	530610419014 Yes	Yes	Yes	No No	No No	No No	No.	No No	Yes
231569 231570	530610419041 Yes 530610419042 No	Yes No	Yes	No No	No No	No No	No No	No No	Yes
231571	530610419043 Yes	Yes	Yes	No	No	No	No	No	Yes
231572	530610419044 No	Yes	Yes	No No	No	No	No	No	Yes
231573	530610419051 Yes	Yes	Yes	No	No	No	No	No	Yes
231574	530610419052 Yes	Yes	Yes	No	No	No No	No	No	Yes
231575	530610419053 Yes	Yes	Yes	No	No	No	No	No	Yes
231576	530610419054 Yes	Yes	Yes	No No	No	No	No	No	Yes
231577	530610419061 Yes	Yes	Yes	No	No	No	No	No	Yes
231578 231579	530610419062 Yes 530610419071 Yes	Yes Yes	Yes	No No	No No	No No	No No	No No	Yes
231579	530610419071 Yes 530610419072 Yes	Yes	Yes	No	No	No	No		Yes
231580	530610419072 Yes 530610419073 No	Yes	Yes	No	No	No	No	No No	Yes
231595	530610419073 NO 530610420061 No	Yes	No	No	No	No	No	No	Yes
231595	530610420061 NO 530610504043 Yes	Yes	No	No	No	No	No	No	Yes
231656	530610504043 Tes 530610514011 Yes	Yes	Yes	No	No	No	No	No	Yes
231657	530610514011 Tes 530610514012 Yes	Yes	Yes	No	No	No	No	No	Yes
231658	530610514012 Yes	Yes	Yes	No	No	No	No	No	Yes
231659	530610514013 Tes 530610514021 Yes	Yes	Yes	No	No	No	No	No	Yes
231660	530610514021 Tes 530610514022 No	No	Yes	No	No	No	No	No	Yes
231661	530610514022 No	No	Yes	No	No	No	No	No	Yes
231663	530610514025 NO 530610515002 No	Yes	No	No	No	No	No	No	Yes
231664	530610515002 NO 530610515003 No	Yes	No	No	No	No	No	No	Yes
231667	530610515003 NO 530610516012 No	Yes	No	No	No	No	No	No	Yes
231675	530610510012 NO 530610517013 Yes	Yes	No	No	No	No	No	No	Yes
231676	530610517013 Tes 530610517014 No	Yes	No	No	No	No	No	No	Yes
231678	530610517014 NO 530610517022 No	Yes	No	No	No	No	No	No	Yes
231686	530610517022 NO 530610518031 No	No	Yes	No	No	No	No	No	Yes
231687	530610518031 No	No	Yes	No	No	No	No	No	Yes
231688	530610518032 No 530610518033 No	Yes	Yes	No	No	No	No	No	Yes
231689	530610518035 NO 530610518034 Yes	Yes	Yes	No	No	No	No	No	Yes
231730	530610518034 Tes 530610519283 Yes	Yes	No	No	No	No	No	No	Yes
231733	530610519283 Tes 530610519292 Yes	Yes	No	No	No	No	No	No	Yes
231733	530610519292 Tes 530610522041 No	Yes	No	No	No	No	No	No	Yes
231824	530610522041 No 530610522081 Yes	Yes	No	No	No	No	No	No	Yes
201000									Yes
231840				No	No	NO.	No.		
231840 231854	530610522102 No	Yes	No	No No	No No	No No	No No	No No	
231854	530610522102 No 530610524023 Yes	Yes Yes	No No	No	No	No	No	No	Yes
	530610522102 No 530610524023 Yes 530610528031 No	Yes	No No No			No No	No Yes	No No	
231854 231904 231910	530610522102 No 530610524023 Yes 530610528031 No 530610528052 No	Yes Yes No	No No No	No No	No No	No No	No Yes Yes	No No	Yes Yes Yes
231854 231904 231910 231924	530610522102 No 530610524023 Yes 530610528031 No 530610528052 No 530610529031 No	Yes Yes No No Yes	No No No No Yes	No No No No	No No No	No No No No	No Yes Yes No	No No No No	Yes Yes Yes
231854 231904 231910 231924 231925	530610522102 No 530610524023 Yes 530610528031 No 530610528052 No 530610529031 No 530610529032 Yes	Yes Yes No No Yes Yes	No No No No Yes Yes	No No No No No	No No No No	No No No No	No Yes Yes No No	No No No No	Yes Yes Yes Yes
231854 231904 231910 231924	530610522102 No 530610524023 Yes 530610528031 No 530610528052 No 530610529031 No	Yes Yes No No Yes	No No No No Yes	No No No No	No No No	No No No No	No Yes Yes No	No No No No	Yes Yes Yes

231931	530610529051 No	No	Yes	No	No	No	No	No	Yes
231932	530610529051 No 530610529052 No	Yes	Yes	No	No	No	No	No	Yes
231933	530610529053 No	Yes	Yes	No	No	No	No	No	Yes
231940	530610525055 No 530610531021 No	No	No	No	No	No	Yes	No	Yes
231946	530610531021 No	No	No	No	No	No	Yes	No	Yes
231955	530610533021 No	No	No	No	No	No	Yes	No	Yes
231959	530610533021 No 530610533025 No	No	No	No	No	No	Yes	No	Yes
231961	530610534002 No	No	No	No	No	No	Yes	No	Yes
231962	530610534002 No	No	No	No	No	No	Yes	No	Yes
231963	530610534004 No	No	No	No	No	Yes	Yes	No	Yes
231967	530610535054 No	No	No	No	No	No	Yes	No	Yes
231968	530610535061 No	No	No	No	No	No	Yes	No	Yes
231976	530610535081 No	No	No	No	No	No	Yes	No	Yes
231980	530610535093 Yes	Yes	No	No	No	No	No	No	Yes
231990	530610536041 No	No	No	No	No	No	Yes	No	Yes
231998	530610537001 No	No	No	No	No	Yes	No	No	Yes
232011	530619400011 No	No	No	No	No	Yes	No	No	Yes
232012	530619400012 No	No	No	No	No	Yes	No	No	Yes
232013	530619400013 No	No	No	No	No	Yes	No	No	Yes
232014	530619400014 No	No	No	No	No	Yes	No	No	Yes
232015	530619400015 No	No	No	No	No	Yes	No	No	Yes
232016	530619400021 No	Yes	No	No	No	Yes	No	No	Yes
232017	530619400022 No	No	No	No	No	Yes	No	No	Yes
232018	530619400023 No	No	No	No	No	Yes	No	No	Yes
232019	530619900020 No	No	No	No	No	Yes	No	No	Yes
232021	530630002011 Yes	Yes	Yes	No	No	No	No	No	Yes
232022	530630002012 Yes	Yes	Yes	No	No	No	No	No	Yes
232023	530630002021 Yes	Yes	Yes	No	No	No	No	No	Yes
232024	530630002022 Yes	Yes	Yes	No	No	No	No	No	Yes
232025	530630003011 Yes	Yes	Yes	No	No	No	No	No	Yes
232026	530630003012 Yes	Yes	Yes	No	No	No	No	No	Yes
232027	530630003021 Yes	Yes	Yes	No	No	No	No	No	Yes
232028	530630003022 Yes	Yes	Yes	No	No	No	No	No	Yes
232029	530630004001 Yes	Yes	Yes	No	No	No	No	No	Yes
232030	530630004002 Yes	Yes	Yes	No	No	No	No	No	Yes
232031	530630004003 Yes	Yes	Yes	No	No	No	No	No	Yes
232035	530630006001 Yes	Yes	No	No	No	No	No	No	Yes
232038	530630007001 No	Yes	No	No	No	No	No	No	Yes
232040	530630007003 No	Yes	No	No	No	No	No	No	Yes
232041	530630007004 No	Yes	No	No	No	No	No	No.	Yes
232048 232052	530630009004 No 530630010002 No	Yes Yes	No No	No No	No No	No No	No No	No No	Yes
232052	530630010002 No 530630012001 No		Yes	No	No		No	No	Yes
232060	530630012001 No 530630012002 No	No No	Yes	No	No	No No	No	No No	Yes
232061	530630012002 No 530630013001 No	No	Yes	No	No	No	No	No	Yes
232062	530630013001 No	Yes	Yes	No	No	No	No	No	Yes
232064	530630013002 No	Yes	Yes	No	No	No	No	No	Yes
232065	530630014001 Yes	Yes	Yes	No	No	No	No	No	Yes
232066	530630014001 No	Yes	Yes	No	No	No	No	No	Yes
232067	530630014002 No	Yes	Yes	No	No	No	No	No	Yes
232068	530630014004 Yes	Yes	Yes	No	No	No	No	No	Yes
232069	530630015001 No	Yes	Yes	No	No	No	No	No	Yes
232070	530630015002 Yes	Yes	Yes	No	No	No	No	No	Yes
232071	530630015003 No	No	Yes	No	No	No	No	No	Yes
232072	530630015004 No	Yes	Yes	No	No	No	No	No	Yes
232073	530630015005 Yes	Yes	Yes	No	No	No	No	No	Yes
232074	530630016001 Yes	Yes	Yes	No	No	No	No	No	Yes
232075	530630016002 No	Yes	Yes	No	No	No	No	No	Yes
232076	530630016003 Yes	Yes	Yes	No	No	No	No	No	Yes
232077	530630018001 Yes	Yes	Yes	No	No	No	No	No	Yes
232078	530630018002 No	No	Yes	No	No	No	No	No	Yes
232079	530630019001 No	Yes	Yes	No	No	No	No	No	Yes
	F20520040000 N	No	Yes	No	No	No	No	No	Yes
232080	530630019002 No								
232080 232081 232082	530630019002 No 530630019003 No 530630020001 No	Yes Yes	Yes Yes	No No	No No	No No	No No	No No	Yes Yes

232083	530630020002 Yes	Yes	Yes	No	No	No	No	No	Yes
232084	530630020003 Yes	Yes	Yes	No	No	No	No	No	Yes
232085	530630020004 Yes	Yes	Yes	No	No	No	No	No	Yes
232086	530630020005 No	Yes	Yes	No	No	No	No	No	Yes
232088	530630021002 No	Yes	No	No	No	No	No	No	Yes
232089	530630023001 No	Yes	Yes	No	No	No	No	No	Yes
232090	530630023002 No	No	Yes	No	No	No	No	No	Yes
232091	530630023003 No	Yes	Yes	No	No	No	No	No	Yes
232092	530630023004 Yes	Yes	Yes	No	No	No	No	No	Yes
232093	530630024001 Yes	Yes	Yes	No	No	No	No	No	Yes
232094	530630024002 Yes	Yes	Yes	No	No	No	No	No	Yes
232095	530630025011 Yes	Yes	Yes	No	No	No	No	No	Yes
232096	530630025012 Yes	Yes	Yes	No	No	No	No	No	Yes
232097	530630025013 No	No	Yes	No	No	No	No	No	Yes
232098	530630025021 No	Yes	Yes	No	No	No	No	No	Yes
232099	530630025022 Yes	Yes	Yes	No	No	No	No	No	Yes
232100	530630025031 Yes	Yes	Yes	No	No	No	No	No	Yes
232101	530630026001 No	No	Yes	No	No	No	No	No	Yes
232102	530630026002 No	Yes	Yes	No	No	No	No	No	Yes
232103	530630026003 Yes	Yes	Yes	No	No	No	No	No	Yes
232104	530630026004 Yes	Yes	Yes	No	No	No	No	No	Yes
232108	530630030001 No	Yes	Yes	No	No	No	No	No	Yes
232109	530630030002 Yes	Yes	Yes	No	No	No	No	No	Yes
232110	530630031001 Yes	Yes	Yes	No	No	No	No	No	Yes
232111	530630031002 No	No	Yes	No	No	No	No	No	Yes
232112	530630031003 Yes	Yes	Yes	No	No	No	No	No	Yes
232113	530630031004 No	No	Yes	No	No	No	No	No	Yes
232114	530630032001 No	No	Yes	No	No	No	No	No	Yes
232115	530630032002 Yes	Yes	Yes	No	No	No	No	No	Yes
232116	530630032003 No	Yes	Yes	No	No	No	No	No	Yes
232117	530630032004 Yes	Yes	Yes	No	No No	No	No	No	Yes
232118 232119	530630035001 Yes 530630035002 Yes	Yes	Yes Yes	No No	No No	No No	No No	No No	Yes Yes
232119	530630035002 Tes 530630035003 No	Yes	Yes	No	No	No	No	No	Yes
232120	530630035003 NO 530630035004 Yes	Yes	Yes	No	No No	No No	No No	No No	Yes
232121	530630035004 Tes 530630036011 No	Yes	No	No	No	No	No	No	Yes
232122	530630036011 No	Yes	No	No	No	No	No	No	Yes
232124	530630036021 Yes	Yes	No	No	No	No	No	No	Yes
232126	530630036023 No	Yes	No	No	No	No	No	No	Yes
232129	530630039001 No	Yes	No	No	No	No	No	No	Yes
232131	530630040011 No	Yes	Yes	No	No	No	No	No	Yes
232132	530630040012 No	No	Yes	No	No	No	No	No	Yes
232133	530630040013 No	No	Yes	No	No	No	No	No	Yes
232134	530630040021 No	No	Yes	No	No	No	No	No	Yes
232135	530630040022 No	Yes	Yes	No	No	No	No	No	Yes
232157	530630046014 Yes	Yes	No	No	No	No	No	No	Yes
232162	530630047012 No	Yes	No	No	No	No	No	No	Yes
232164	530630047022 No	Yes	No	No	No	No	No	No	Yes
232173	530630050001 No	Yes	No	No	No	No	No	No	Yes
232187	530630102042 No	Yes	No	No	No	No	No	No	Yes
232188	530630103011 No	Yes	Yes	No	No	No	No	No	Yes
232189	530630103012 No	No	Yes	No	No	No	No	No	Yes
232190	530630103013 No	Yes	Yes	No	No	No	No	No	Yes
232194	530630103042 No	Yes	No	No	No	No	No	No	Yes
232200	530630104011 Yes	Yes	Yes	No	No	No	No	No	Yes
232201	530630104012 No	Yes	Yes	No	No	No	Yes	No	Yes
232202	530630104013 Yes	Yes	Yes	No	No	Yes	Yes	No	Yes
232203	530630104014 No	No	Yes	No	No	No	Yes	No	Yes
232233	530630108001 No	Yes	Yes	No	No No	No	No	No No	Yes
232235	530630109021 No	Yes	No	No	No	No No	No	No	Yes
232237	530630109023 Yes	Yes	No.	No	No No		No No	No.	Yes
	530630110002 No	Yes	No	No No	No No	No No	No No	No No	Yes
232241 232242	530630111021 No	No Yes	Yes Yes	No No	No No	No No	No No	No No	Yes
232242	530630111022 No 530630111031 Yes					No No			Yes
232243	220020TTT02T 1G2	Yes	Yes	No	No	UVI	No	No	Yes

232244	530630111032 No	Yes	Yes	No N	lo No	No	No	Yes
232244	530630111032 NO 530630111041 Yes	Yes	Yes		o No		No	Yes
232245	530630111041 Tes 530630111042 Yes	Yes	Yes		lo No		No	Yes
232247	530630111042 Yes	Yes	Yes		o No		No	Yes
232249	530630112022 Yes	Yes	No		lo No		No	Yes
232252	530630112031 No	Yes	Yes		o No		No	Yes
232253	530630112032 Yes	Yes	Yes		o No		No	Yes
232254	530630112033 Yes	Yes	Yes		o No		No	Yes
232255	530630112034 No	No	Yes		lo No		No	Yes
232256	530630112041 Yes	Yes	Yes	No N	lo No	No	No	Yes
232257	530630112042 No	Yes	Yes	No N	lo No	No	No	Yes
232260	530630113021 No	Yes	No	No N	lo No	No	No	Yes
232267	530630115002 No	Yes	No	No N	lo No	No	No	Yes
232269	530630117011 No	Yes	No	No N	o No	No	No	Yes
232271	530630117021 Yes	Yes	Yes	No N	o No	No	No	Yes
232272	530630117022 No	No	Yes	No N	lo No	No	No	Yes
232273	530630117023 No	Yes	Yes	No N	o No	No	No	Yes
232274	530630117024 No	Yes	Yes	No N	o No	No	No	Yes
232275	530630118001 No	Yes	Yes	No N	o No	No	No	Yes
232276	530630118002 No	Yes	Yes		o No		No	Yes
232277	530630118003 No	Yes	Yes		o No		No	Yes
232278	530630118004 No	Yes	Yes		o No		No	Yes
232279	530630119001 No	Yes	Yes		o No		No	Yes
232280	530630119002 No	Yes	Yes		o No		No	Yes
232281	530630120001 No	Yes	No		o No		No	Yes
232286	530630122001 Yes	Yes	No		o No		No	Yes
232289	530630123002 Yes	Yes	No		o No		No	Yes
232291	530630123004 No	Yes	No		o No		No	Yes
232299	530630125001 No	No	Yes		o No		No	Yes
232300	530630125002 No	Yes	Yes		o No		No.	Yes
232301	530630125003 Yes	Yes	Yes		o No		No	Yes
232306 232311	530630127021 No 530630128014 No	Yes	No No		o No		No No	Yes Yes
232311	530630128014 No 530630129011 No	Yes	No		lo No		No No	Yes
232313	530630129011 No	Yes	No		lo No		No.	Yes
232317	530630129021 No	Yes	No		o No		No	Yes
232318	530630129022 No	Yes	No		lo No		No	Yes
232323	530630130021 No	Yes	No		o No		No	Yes
232327	530630130033 No	Yes	No		lo No		No	Yes
232367	530630140011 Yes	Yes	No		o No		No	Yes
232368	530630140012 Yes	Yes	No	No N	lo No	No	No	Yes
232370	530630140014 Yes	Yes	No	No N			No	Yes
232373	530630140023 No	Yes	No	No N	lo No	No	No	Yes
232374	530630140024 No	Yes	No	No N	lo No	No	No	Yes
232379	530630141005 No	Yes	No	No N	o No	No	No	Yes
232382	530630143001 No	Yes	Yes		o No		No	Yes
232383	530630143002 No	No	Yes		o No		No	Yes
232384	530630143003 No	No	Yes		o No		No	Yes
232385	530630144001 No	No	Yes		o No		No	Yes
232386	530630144002 No	Yes	Yes		o No		No	Yes
232387	530630144003 No	No	Yes		o No		No	Yes
232388	530630144004 No	No	Yes		o No		No	Yes
232389	530630145001 No	Yes	Yes		o No		No	Yes
232390	530630145002 Yes	Yes	Yes		o No		No.	Yes
232391	530630145003 Yes	Yes	Yes	No N			No.	Yes
232392 232393	530659410001 No 530659410002 No	Yes	Yes		o Yes		No No	Yes Yes
232393	530659410002 No 530659501011 No							
232394	530659501011 No 530659501012 No	No No	Yes		o No		No No	Yes Yes
232395	530659501012 No 530659501013 No	No	Yes		o No		No No	Yes
232390	530659501021 No	No	Yes		lo No		No	Yes
232397	530659501021 No	No	Yes		o No		No	Yes
232399	530659501022 No	No	Yes		lo No		No	Yes
232403	530659503001 No	Yes	No		o No		No	Yes
232407	530659505002 No	No	Yes		lo No		No	Yes
							110	

232410	530659507001 No	Yes	Yes	No	No	No	No	No	Yes
232411	530659507002 No	Yes	Yes	No	No	No	No	No	Yes
232412	530659507003 No	No	Yes	No	No	No	No	No	Yes
232413	530659508001 No	No	Yes	No	No	No	No	No	Yes
232414	530659508002 No	No	Yes	No	No	No	Yes	No	Yes
232415	530659508003 No	No	Yes	No	No	No	Yes	No	Yes
232415	530659509001 No	No	Yes	No	No	No	No No	No	Yes
232417	530659509002 No	No	Yes	No	No	No	No	No	Yes
232417	530659511001 No	Yes	Yes	No	No	No	No	No	Yes
232418	530659511001 No	No	Yes	No	No	No	No No	No	Yes
232419	530659511002 No	Yes	Yes	No	No	No	No	No	Yes
232421	530659511003 No	Yes	No	No	No	No	No	No	Yes
232421	530659513011 No	Yes	No	No	No	No	No No	No	Yes
232420	530670101001 No	Yes	No	No	No	No	No No	No	Yes
232437	530670101001 No	No	Yes	No	No	No	No	No	Yes
232437	530670103001 No	No	Yes	No	No	No	No No	No	Yes
232438	530670103002 No 530670103003 No	No		No	No	No	No No	No	Yes
232439	530670103003 NO 530670103004 Yes	Yes	Yes	No	No	No	No No	No	Yes
232440									
232444	530670105101 No 530670105201 No	No No	Yes	No No	No No	No No	No No	No No	Yes Yes
			Yes						
232446	530670105202 Yes	Yes	Yes	No	No	No	No No	No No	Yes
	530670105203 No	No	Yes	No	No	No	No No		Yes
232448	530670105204 No	No	Yes	No	No	No No	No No	No.	Yes
232451	530670106003 No	Yes	No	No	No	No	No No	No	Yes
232458	530670108011 Yes	Yes	No	No	No	No	No	No	Yes
232459	530670108012 Yes	Yes	No	No	No	No	No No	No	Yes
232465	530670109102 Yes	Yes	No	No	No	No	No	No	Yes
232466	530670109103 No	Yes	No	No	No	No	No	No	Yes
232468	530670109201 Yes	Yes	No	No	No	No	No	No	Yes
232469	530670109202 No	Yes	No	No	No	No	No	No	Yes
232477	530670112001 No	Yes	No	No	No	No	No	No	Yes
232478	530670112002 No	Yes	No	No	No	No	No	No	Yes
232481	530670113001 No	Yes	Yes	No	No	No	No	No	Yes
232482	530670113002 No	No	Yes	No	No	No	No	No	Yes
232483	530670113003 No	Yes	Yes	No	No	No	No	No	Yes
232484	530670113004 No	No	Yes	No	No	No	No	No	Yes
	E2067044E204 V			No	No	No	No	No	Yes
232494	530670115001 Yes	Yes	No						
232508	530670116243 Yes	Yes	No	No	No	No	No	No	Yes
232508 232530	530670116243 Yes 530670118222 No	Yes No	No No	No	No	No	Yes	No	Yes
232508 232530 232531	530670116243 Yes 530670118222 No 530670118223 No	Yes No No	No No No	No No	No No	No No	Yes Yes	No No	Yes Yes
232508 232530 232531 232552	530670116243 Yes 530670118222 No 530670118223 No 530670122232 Yes	Yes No No Yes	No No No No	No No No	No No No	No No No	Yes Yes No	No No No	Yes Yes Yes
232508 232530 232531 232552 232559	530670116243 Yes 530670118222 No 530670118223 No 530670122232 Yes 530670122321 No	Yes No No Yes	No No No No	No No No	No No No No	No No No Yes	Yes Yes No No	No No No	Yes Yes Yes Yes
232508 232530 232531 232552 232559 232574	530670116243 Yes 530670118222 No 530670118223 No 530670122232 Yes 530670122201 No 530670124202 No	Yes No No Yes No	No No No No No	No No No No	No No No No	No No No Yes Yes	Yes Yes No No No	No No No No No	Yes Yes Yes Yes Yes
232508 232530 232531 232552 232559 232574 232577	530670116243 Yes 530670118222 No 530670118223 No 530670122232 Yes 530670123201 No 530670124202 No 530670124202 Yes	Yes No No Yes No No Yes	No No No No No No	No No No No No	No No No No No	No No No Yes Yes	Yes Yes No No No	No No No No No	Yes Yes Yes Yes Yes Yes Yes Yes
232508 232530 232531 232552 232559 232574 232577 232589	530670116243 Yes 530670118222 No 530670118223 No 530670122232 Yes 530670123201 No 530670124202 No 530670124202 Yes 530670124221 Yes 530670125314 No	Yes No No Yes No No Yes Yes Yes Yes	No No No No No No No	No No No No No No	No No No No No No	No No No Yes Yes No	Yes Yes No No No No No No	No No No No No No	Yes
232508 232530 232531 232552 232559 232574 232577 232589 232595	530670116243 Yes 530670118222 No 530670118223 No 530670122232 Yes 530670122301 No 530670124202 No 530670124202 Yes 530670124211 Yes 530670125314 No 530670126104 No	Yes No No Yes No No Yes Yes Yes Yes Yes	No No No No No No No	No	No	No No No Yes Yes No No No	Yes Yes No No No No No No No	No	Yes
232508 232530 232531 232552 232559 232574 232577 232589 232595 232598	530670116243 Yes 530670118222 No 530670118223 No 530670122322 Yes 5306701223201 No 530670124202 No 530670124201 Yes 530670125314 No 530670126104 No 530670126104 No	Yes No No No Yes No No Yes Yes Yes Yes Yes	No N	No N	No	No No No Yes Yes No No No No	Yes Yes No	No	Yes
232508 232530 232531 232552 232559 232574 232577 232589 232595 232598 232598	530670116243 Yes 530670118222 No 530670118223 No 530670122232 Yes 530670123201 No 530670124202 No 530670124201 Yes 53067012514 No 53067012514 No 530670126202 No 530670126202 No	Yes No No Yes No No Yes Yes Yes Yes Yes Yes Yes	No N	No N	No N	No No No Yes Yes No No No No No No	Yes	No N	Yes
232508 232530 232531 232552 232559 232574 232577 232589 232595 232595 232595 232596 232601 232602	530670116243 Yes 530670118222 No 530670118223 No 530670122232 Yes 530670122301 No 530670124202 No 530670124202 No 530670124201 Yes 530670125314 No 530670126104 No 53067012602 No 530670126202 No 530670126105 No	Yes No No Yes No No Yes Yes Yes Yes Yes Yes Yes No	No N	No N	No N	No No No Yes Yes No No No No No No No No	Yes	No N	Yes
232508 232530 232531 232552 232559 232574 232577 232589 232595 232598 232601 232602 232603	530670116243 Yes 530670118222 No 530670118223 No 530670122232 Yes 530670122321 No 530670124202 No 530670124202 No 530670124201 Yes 530670125314 No 530670126104 No 53067012600 No 53067012600 No 530670127101 No	Yes	No N	No N	No	No No No Yes Yes No	Yes	No N	Yes
232508 232530 232531 232552 232559 232574 232577 232589 232595 232601 232602 232603 232604	530670116243 Yes 530670118222 No 530670118223 No 530670122321 No 530670122321 No 530670124202 No 530670124202 No 53067012421 Yes 530670125314 No 530670126104 No 530670126205 No 530670127101 No 530670127201 No 530670127201 No	Yes	No No No No No No No No	No N	No N	No No No Yes Yes No	Yes	No N	Yes
232508 232530 232531 232552 232559 232574 232577 232589 232595 232598 232601 232602 232603 232604 232605	530670116243 Yes 530670118222 No 530670118223 No 530670122232 Yes 530670122201 No 530670124202 No 530670124202 No 530670124201 Yes 530670125314 No 530670126104 No 530670126104 No 530670126107 No 530670127101 No 530670127101 No 530670127201 No 530670127202 No 530670127202 No	Yes No No No Yes No No Yes Yes Yes Yes Yes Yes No No No No No No	No No No No No No No No	No N	No	No	Yes	No	Yes
232508 232530 232531 232552 232574 232577 232589 232595 232595 232596 232601 232602 232603 232604 232605 232605 232605	530670116243 Yes 530670118222 No 530670118223 No 530670122232 Yes 530670122231 No 530670124202 No 530670124202 No 530670124202 No 530670124201 No 530670125314 No 530670126104 No 530670126104 No 530670127101 No 530670127201 No 530670127202 No 530670127202 No 530670127202 No 530670127203 No 530670127204 No	Yes No No No Yes No No Yes Yes Yes Yes Yes Yes No No No No No No	No No No No No No No No	No N	No N	No	Yes	No	Yes
232508 232530 232531 232552 232574 232577 232589 232595 232601 232602 232603 232604 232605 232606 232606	530670116243 Yes 530670118222 No 530670118223 No 530670122232 Yes 530670122231 No 530670124202 No 530670124202 No 530670124201 Ves 530670125314 No 530670126104 No 530670126105 No 53067012605 No 530670127101 No 530670127201 No 530670127201 No 530670127201 No 530670127203 No 530670127203 No 530670127204 No 530670127204 No	Yes No No No Yes No No Yes Yes Yes Yes Yes Yos No	No No No No No No No No	No N	No N	No	Yes	No N	Yes
232508 232530 232531 232552 232559 232574 232577 232589 232595 232601 232602 232602 232603 232604 232605 232606 232606 232606	530670116243 Yes 530670118222 No 530670118223 No 530670122321 No 530670122321 No 530670122321 No 530670124202 No 530670124202 No 530670124201 Yes 530670125314 No 530670126104 No 530670126104 No 530670126205 No 530670127101 No 530670127201 No 530670127201 No 530670127202 No 530670127204 No 530670127204 No 530670127204 No 530670127205 No 530670127205 No	Yes No No No Yes No No Yes Yes Yes Yes Yes Yos No	No No No No No No No No	No N	No N	No	Yes	No N	Yes
232508 232530 232531 232552 232559 232574 232577 232589 232595 232601 232602 232603 232604 232605 232606 232607 232607	530670116243 Yes 530670118222 No 530670118223 No 530670122321 No 5306701223201 No 530670124202 No 530670124202 No 530670125314 No 530670125314 No 530670126104 No 530670126202 No 530670126101 No 530670127101 No 530670127101 No 530670127201 No 530670127202 No 530670127203 No 530670127204 No 530670127205 No 530670127205 No 530670127205 No 530670127205 No 530670127205 No 530670127205 No 530670127302 No 530670127302 No	Yes No No No Yes No No Yes Yes Yes Yes Yes Yes No	No No No No No No No No	No N	No N	No	Yes	No	Yes
232508 232530 232531 232552 232574 232577 232589 232595 232596 232601 232602 232603 232604 232605 232607 232607 232609	530670116243 Yes 530670118222 No 530670118223 No 530670122232 Yes 530670122231 No 530670124202 No 530670124202 No 530670124202 No 530670124201 No 530670125314 No 530670125314 No 530670126104 No 530670126105 No 530670127101 No 530670127201 No 530670127202 No 530670127202 No 530670127203 No 530670127204 No 530670127205 No 530670127205 No 530670127208 No 53067012709 No	Yes No No No Yes No No Yes Yes Yes Yes Yes Yos No	No No No No No No No No	No N	No N	No	Yes	No	Yes
232508 232530 232531 232552 232574 232577 232589 232595 232598 232601 232602 232603 232604 232605 232607 232607 232609 232617	530670116243 Yes 530670118222 No 530670118223 No 530670122232 Yes 530670122321 No 530670124202 No 530670124202 No 530670124202 No 530670124201 Ves 530670125314 No 530670126104 No 530670126205 No 53067012701 No 530670127201 No 530670127201 No 530670127201 No 530670127202 No 530670127203 No 530670127204 No 530670127204 No 530670127205 No 530670127204 No 530670127205 No 530670127207 No 530670127208 No 530670127209 No 530670127200 No 53067012700 No 53067012700 No 530719200001 No 530719200001 No	Yes No No No Yes No No Yes Yes Yes Yes Yes No	No No No No No No No No	No N	No N	No	Yes	No N	Yes
232508 232530 232531 232552 232574 232577 232577 232577 232595 232598 232601 232602 232602 232603 232604 232605 232607 232607 232617 232618	\$30670116243 Yes \$30670118222 No \$30670118223 No \$30670118223 No \$30670122321 Yes \$30670122321 No \$30670124202 No \$30670124202 No \$30670124201 Yes \$30670125314 No \$30670125314 No \$3067012501 No \$30670126205 No \$30670127201 No \$30670127201 No \$30670127201 No \$30670127204 No \$30670127204 No \$30670127205 No \$30670127205 No \$30670127205 No \$30670127206 No \$30670127207 No \$30670127208 No \$30670127208 No \$30670127209 No \$30670127209 No \$30670127209 No \$30670127200 No \$30670127200 No \$3067012700 No \$3067012700 No \$30719200001 No \$30719200002 No \$30719200003 No \$307192000004 Yes	Yes No No No Yes No No Yes Yes Yes Yes Yes Yoo No N	No No No No No No No No	No N	No	No	Yes	No N	Yes
232508 232530 232531 232552 232574 232577 232589 232595 232598 232601 232602 232603 232604 232607 232607 232607 232617 232618 232619 232619 232619	530670116243 Yes 530670118222 No 530670118223 No 530670118223 No 530670122321 No 530670122321 No 530670122321 No 530670124202 No 530670124202 No 530670125314 No 530670126104 No 530670126104 No 530670126107 No 530670127101 No 530670127201 No 530670127202 No 530670127203 No 530670127204 No 530670127205 No 530670127205 No 530670127205 No 530670127206 No 530670127208 No 530670127208 No 530670127208 No 530670127208 No 530670127209 No 530670127209 No 530719200001 No 530719200001 No 530719200003 No 530719200003 No 530719200004 Yes 530719200004 Yes 530719201001 No	Yes No No No Yes No No Yes Yes Yes Yes Yes Yes No Yes No Yes Yes Yes	No No No No No No No No	No	No N	No	Yes	No	Yes
232508 232530 232531 232552 232574 232577 232589 232595 232598 232601 232602 232603 232604 232605 232607 232609 232607 232609 232617 232618 232619 232621 232621	\$30670116243 Yes \$30670118222 No \$30670118223 No \$30670118223 Ves \$30670122232 Yes \$30670122301 No \$30670124202 No \$30670124202 No \$30670124201 Yes \$30670125314 No \$30670125314 No \$30670126104 No \$30670126202 No \$30670126202 No \$30670127101 No \$30670127201 No \$30670127201 No \$30670127202 No \$30670127202 No \$30670127203 No \$30670127204 No \$30670127204 No \$30670127205 No \$30670127205 No \$30670127208 No \$30670127208 No \$30719200001 No \$30719200001 No \$30719200002 No \$30719200003 No \$30719200004 Yes \$30719201001 No \$30719201001 No \$30719201001 No	Yes No No No Yes No No Yes Yes Yes Yes Yes Yes No	No No No No No No No No	No	No N	No	Yes	No N	Yes
232508 232530 232531 232552 232574 232577 232589 232595 232598 232601 232602 232603 232604 232605 232607 232607 232618 232619 232620 232617 232620 232621 232620	530670116243 Yes 530670118222 No 530670118223 No 530670118223 No 530670122232 Yes 530670122321 No 530670124202 No 530670124202 No 530670124201 Yes 530670125314 No 530670126104 No 530670126205 No 53067012701 No 530670127201 No 530670127202 No 530670127202 No 530670127203 No 530670127204 No 530670127204 No 530670127205 No 530670127204 No 530670127205 No 530670127204 No 530670127205 No 530670127206 No 530670127200 No 530719200001 No 530719200001 No 530719200001 No 530719200001 No 530719200001 No 530719201001 No 530719201001 No 530719201001 No 530719201001 No	Yes No No No Yes No No Yes Yes Yes Yes Yes No	No No No No No No No No	No N	No	No	Yes	No N	Yes
232508 232530 232531 232552 232574 232577 232589 232595 232598 232601 232602 232603 232604 232605 232606 232607 232617 232618 232619 232621 232621 232621 232622 232622	\$30670116243 Yes \$30670118222 No \$30670118223 No \$30670118223 No \$30670122321 Yes \$30670122321 No \$30670122321 No \$30670124202 No \$30670124202 No \$30670124201 Yes \$30670125314 No \$30670126104 No \$30670126104 No \$30670126202 No \$30670127201 No \$30670127201 No \$30670127201 No \$30670127204 No \$30670127204 No \$30670127205 No \$30670127205 No \$30670127205 No \$30670127206 No \$30670127208 No \$30670127208 No \$30670127209 No \$30670127200 No \$30670127200 No \$30719200001 No \$30719200001 No \$30719201001 No \$30719201001 No \$30719201003 No \$30719201003 No \$30719201003 No \$30719201003 No \$30719201003 No \$30719201001 No \$30719201001 No	Yes No No No Yes No No Yes Yes Yes Yes Yes Yes Yes No	No No No No No No No No	No	No	No	Yes	No N	Yes
232508 232530 232531 232552 232574 232577 232589 232595 232598 232601 232602 232603 232604 232605 232607 232607 232618 232619 232620 232617 232620 232621 232620	530670116243 Yes 530670118222 No 530670118223 No 530670118223 No 530670122232 Yes 530670122321 No 530670124202 No 530670124202 No 530670124201 Yes 530670125314 No 530670126104 No 530670126205 No 53067012701 No 530670127201 No 530670127202 No 530670127202 No 530670127203 No 530670127204 No 530670127204 No 530670127205 No 530670127204 No 530670127205 No 530670127204 No 530670127205 No 530670127206 No 530670127200 No 530719200001 No 530719200001 No 530719200001 No 530719200001 No 530719200001 No 530719201001 No 530719201001 No 530719201001 No 530719201001 No	Yes No No No Yes No No Yes Yes Yes Yes Yes No	No No No No No No No No	No N	No	No	Yes	No N	Yes

232633	F20740202024 No	Vec	No	Ne	Ne	Ne	No	Ne	Vaa
	530719203024 No	Yes	No	No	No	No	No	No	Yes
232635	530719205001 Yes	Yes	Yes	No	No	No	No	No	Yes
232636	530719205002 Yes	Yes	Yes	No	No	No	No	No	Yes
232637	530719205003 Yes	Yes	Yes	No	No	No	No	No	Yes
232639	530719206002 Yes	Yes	No	No	No	No	No	No	Yes
232640	530719206003 Yes	Yes	No	No	No	No	No	No	Yes
232641	530719206004 Yes	Yes	No	No	No	No	No	No	Yes
232643	530719207011 No	Yes	No	No	No	No	No	No	Yes
232644	530719207012 Yes	Yes	No	No	No	No	No	No	Yes
232645	530719207013 No	Yes	No	No	No	No	No	No	Yes
232655	530719208021 Yes	Yes	No	No	No	No	No	No	Yes
232657	530719208023 No	Yes	No	No	No	No	No	No	Yes
232666	530730001022 Yes	Yes	No	No	No	No	No	No	Yes
232668	530730002011 No	No	Yes	No	No	No	No	No	Yes
232669	530730002012 No	No	Yes	No	No	No	No	No	Yes
232670	530730002013 Yes	Yes	Yes	No	No	No	No	No	Yes
232671	530730002021 No	No	Yes	No	No	No	No	No	Yes
232672	530730002022 No	No	Yes	No	No	No	No	No	Yes
232673	530730002031 No	Yes	Yes	No	No	No	No	No	Yes
232674	530730002032 No	No	Yes	No	No	No	No	No	Yes
232678	530730003021 Yes	Yes	No	No	No	No	No	No	Yes
232679	530730003022 No	Yes	No	No	No	No	No	No	Yes
232686	530730005012 No	Yes	No	No	No	No	No	No	Yes
232687	530730005013 Yes	Yes	No	No	No	No	No	No	Yes
232689	530730005022 No	Yes	No	No	No	No	No	No	Yes
232690	530730006001 Yes	Yes	Yes	No	No	No	No	No	Yes
232693	530730007003 No	Yes	No	No	No	No	No	No	Yes
232694	530730007004 Yes	Yes	No	No	No	No	No	No	Yes
232714	530730009031 No	Yes	No	No	No	No	No	No	Yes
232717	530730010001 No	Yes	No	No	No	No	No	No	Yes
232718	530730010002 Yes	Yes	No	No	No	No	No	No	Yes
232719	530730010003 Yes	Yes	No	No	No	No	No	No	Yes
232720	530730010004 Yes	Yes	No	No	No	No	No	No	Yes
232730	530730012031 Yes	Yes	No	No	No	No	No	No	Yes
232733	530730012042 No	Yes	No	No	No	No	No	No	Yes
232734	530730101011 No	No	Yes	No	No	No	No	No	Yes
232735	530730101012 No	No	Yes	No	No	Yes	Yes	No	Yes
232736	530730101021 No	No	Yes	No	No	No	No	No	Yes
232737	530730101022 No	No	Yes	No	No	No	No	No	Yes
232738	530730101031 No	No	Yes	No	No	No	Yes	No	Yes
232739	530730101032 No	No	Yes	No	No	No	No	No	Yes
232740	530730102011 No	No	No	No	No	No	Yes	No	Yes
232741	530730102012 No	No	No	No	No	No	Yes	No	Yes
232744	530730102023 No	No	No	No	No	No	Yes	No	Yes
232752	530730103031 No	Yes	No	No	No	No	Yes	No	Yes
232757	530730104053 No	Yes	No	No	No	No	No	No	Yes
232776	530730105062 No	Yes	No	No	No	No	No	No	Yes
232783	530730107021 No	No	No	No	No	No	Yes	No	Yes
232785	530730107023 No	No	No	No	No	No	Yes	No	Yes
232790	530739400011 No	No	Yes	No	No	Yes	No	No	Yes
232791	530739400021 No	No	Yes	No	No	Yes	No	No	Yes
232792	530750001001 Yes	Yes	No	No	No	No	No	No	Yes
232793	530750001001 Yes	Yes	No	No	No	No	No	No	Yes
232794	530750001003 Yes	Yes	No	No	No	No	No	No	Yes
232795	530750001003 Yes	Yes	No	No	No	No	No	No	Yes
									Yes
232797				No	No	No	Nο	No	
232797	530750002012 No	Yes	No	No No	No No	No No	No No	No No	
232798	530750002012 No 530750002013 No	Yes Yes	No No	No	No	No	No	No	Yes
232798 232808	530750002012 No 530750002013 No 530750005001 Yes	Yes Yes Yes	No No No	No No	No No	No No	No No	No No	Yes Yes
232798 232808 232809	530750002012 No 530750002013 No 530750005001 Yes 530750006011 Yes	Yes Yes Yes Yes	No No No	No No No	No No	No No	No No No	No No No	Yes Yes Yes
232798 232808 232809 232810	530750002012 No 530750002013 No 530750005001 Yes 530750006011 Yes 530750006012 No	Yes Yes Yes Yes Yes Yes	No No No No	No No No No	No No No No	No No No No	No No No No	No No No No	Yes Yes Yes
232798 232808 232809 232810 232811	530750002012 No 530750002013 No 530750005001 Yes 530750006011 Yes 530750006012 No 530750006013 Yes	Yes Yes Yes Yes Yes Yes Yes Yes	No No No No No	No No No No	No No No No	No No No No No	No No No No	No No No No	Yes Yes Yes Yes Yes
232798 232808 232809 232810 232811 232812	530750002012 No 530750002013 No 530750005001 Yes 530750006011 Yes 530750006012 No 530750006013 Yes 530750006021 No	Yes	No No No No No No	No No No No No	No No No No No	No No No No No	No No No No No	No No No No No	Yes Yes Yes Yes Yes Yes Yes
232798 232808 232809 232810 232811 232812 232813	530750002012 No 530750002013 No 530750005001 Yes 530750006011 Yes 530750006012 No 530750006013 Yes 530750006013 Vos 530750006022 No	Yes	No No No No No No No	No	No No No No No No No No No	No No No No No No	No No No No No No	No No No No No No No No No	Yes Yes Yes Yes Yes Yes Yes Yes Yes
232798 232808 232809 232810 232811 232812	530750002012 No 530750002013 No 530750005001 Yes 530750006011 Yes 530750006012 No 530750006013 Yes 530750006021 No	Yes	No No No No No No	No No No No No	No No No No No	No No No No No	No No No No No	No No No No No	Yes Yes Yes Yes Yes Yes Yes

232821	530750009001 No	No	Yes	No	No	No	No	No	Yes
232822	530750009002 No	No	Yes	No	No	No	No	No	Yes
232823	530750009003 No	Yes	Yes	No	No	No	No	No	Yes
232824	530750009004 No	No	Yes	No	No	No	No	No	Yes
232827	530770001001 Yes	Yes	Yes	No	No	No	No	No	Yes
232828	530770001002 Yes	Yes	Yes	No	No	No	No	No	Yes
232829	530770002001 Yes	Yes	Yes	No	No	No	No	No	Yes
232830	530770002002 Yes	Yes	Yes	No	No	No	No	No	Yes
232831	530770002003 Yes	Yes	Yes	No	No	No	No	No	Yes
232832	530770002004 Yes	Yes	Yes	No	No	No	No	No	Yes
232833	530770003011 Yes	Yes	Yes	No	No No	No	No	No	Yes
232834 232835	530770003012 Yes 530770003013 Yes	Yes	Yes Yes	No No	No No	No No	No No	No No	Yes Yes
232836	530770003013 Yes	Yes	Yes	No	No	No	No	No	Yes
232837	530770003021 Tes 530770003022 Yes	Yes	Yes	No	No	No	No	No	Yes
232839	530770004012 No	Yes	No	No	No	No	No	No	Yes
232843	530770005001 Yes	Yes	No	No	No	No	No	No	Yes
232844	530770005002 Yes	Yes	No	No	No	No	No	No	Yes
232845	530770005003 No	Yes	No	No	No	No	No	No	Yes
232847	530770006001 Yes	Yes	Yes	No	No	No	No	No	Yes
232848	530770006002 Yes	Yes	Yes	No	No	No	No	No	Yes
232849	530770006003 Yes	Yes	Yes	No	No	No	No	No	Yes
232850	530770006004 Yes	Yes	Yes	No	No	No	No	No	Yes
232851	530770007001 Yes	Yes	Yes	No	No	No	No	No	Yes
232852	530770007002 Yes	Yes	Yes	No	No	No	No	No	Yes
232853	530770007003 Yes	Yes	Yes	No	No	No	No	No	Yes
232854	530770007004 Yes	Yes	Yes	No	No	No	No	No	Yes
232855 232860	530770007005 No 530770009021 No	Yes	Yes No	No No	No No	No No	No No	No No	Yes Yes
232864	530770009021 No 530770009032 No	Yes	No	No	No	No	No	No	Yes
232868	530770019032 NO 530770010001 No	Yes	No	No	No	No	No	No	Yes
232870	530770010003 Yes	Yes	No	No	No	No	No	No	Yes
232872	530770011001 Yes	Yes	No	No	No	No	No	No	Yes
232873	530770011002 Yes	Yes	No	No	No	No	No	No	Yes
232877	530770012011 Yes	Yes	Yes	No	No	No	No	No	Yes
232878	530770012012 Yes	Yes	Yes	No	No	No	No	No	Yes
232879	530770012013 Yes	Yes	Yes	No	No	No	No	No	Yes
232880	530770012021 Yes	Yes	Yes	No	No	No	No	No	Yes
232881	530770012022 Yes	Yes	Yes	No	No	No	No	No	Yes
232882	530770012023 Yes	Yes	Yes	No	No	No	No	No	Yes
232883	530770012024 Yes 530770013001 Yes	Yes	Yes	No No	No No	No No	No No	No No	Yes Yes
232885	530770013001 Yes 530770013002 Yes	Yes	Yes	No	No	No	No No	No	Yes
232886	530770013002 Tes 530770014001 Yes	Yes	Yes	No	No	No	No	No No	Yes
232887	530770014001 Yes	Yes	Yes	No	No	No	No	No	Yes
232888	530770015021 Yes	Yes	Yes	No	No	No	No	No	Yes
232889	530770015031 Yes	Yes	Yes	No	No	No	No	No	Yes
232890	530770015032 Yes	Yes	Yes	No	No	No	No	No	Yes
232891	530770015033 Yes	Yes	Yes	No	No	No	No	No	Yes
232892	530770015034 Yes	Yes	Yes	No	No	No	No	No	Yes
232893	530770015041 Yes	Yes	Yes	No	No	No	No	No	Yes
232894	530770015042 Yes	Yes	Yes	No	No	No	No	No	Yes
232895	530770016011 No	Yes	No	No	No No	No	No	No	Yes
232898	530770016022 No	Yes	No	No	No No	No No	No No	No No	Yes
232902 232903	530770017011 No 530770017012 No	Yes	Yes	No No	No No	No No	No No	No No	Yes Yes
232903	530770017012 No 530770017021 No	Yes	No Yes	No	No No	No	No No	No	Yes
232904	530770017021 No	Yes	No	No	No	No	No	No	Yes
232907	530770017023 NO 530770018011 Yes	Yes	Yes	No	No	No	No	No	Yes
232908	530770018012 No	Yes	Yes	No	No	No	No	No	Yes
232909	530770018013 No	No	Yes	No	No	No	No	No	Yes
232910	530770018021 Yes	Yes	Yes	No	No	No	No	No	Yes
232911	530770018022 Yes	Yes	Yes	No	No	No	No	No	Yes
232912	530770019011 Yes	Yes	Yes	No	No	No	No	No	Yes
232913	530770019012 Yes	Yes	Yes	No	No	No	No	No	Yes

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\$239255 \$3977000051 Yes Yes Yes No No No No No Yes Yes Yes No No No No No Yes Yes Yes Yes No No No No No Yes Yes Yes Yes Yes No No No No No Yes										
133956 139770020051 Ye Ye Ye Ye No No No No No No No N										
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123233 12370021014 Yes										
232338 \$30770021042 Yes										
1232398 330770021041 No										
232395 53077002101 No										
223346 530770022021 No										
232349 330770020201 No										
222942 \$30770022012 Yes					No		No	No		Yes
232944 \$30770027012 Yes Yes No No No No No No No Yes										
232944 \$30770027012 Yes Yes No No No No No No No Yes	232943	530770027011 No	Yes	No	No	No	No	No	No	Yes
232949 \$30770029001 Yes Yes No No No No No No Yes Yes Yes Yes Yes Yes No No No No No No Yes Yes Yes Yes Yes No No No No No No No Yes Yes Yes Yes No No No No No No No Yes Yes Yes No No No No No No No Yes Yes Yes No No No No No No No Yes Yes No No No No No No No Yes Yes Yes No No No No No No No Yes Yes Yes No No No No No No No Yes Yes Yes No No No No No No No Yes Yes Yes No No No No No No No Yes Yes Yes Yes No No No No No No No Yes Yes Yes No No No No No No No Yes Yes Yes No No No No No No No Yes Yes Yes No No No No No No No Yes Yes Yes No No No No No No No Yes Yes Yes No No No No No No No N	232944	530770027012 Yes	Yes	No	No	No	No	No	No	Yes
232953 \$30770029002 No	232949			No	No	No	No	No	No	
232955 530770029003 No							No			
232955 530770029005 No	232954	530770029002 No	Yes	Yes	No	No	No	No	No	Yes
232957 530770029005 Yes	232955	530770029003 No	No	Yes	No	No	No	No	No	Yes
232958 530770029006 Yes Yes Yes No No No No No No No Yes	232956	530770029004 No	No	Yes	No	No	No	No	No	Yes
232960 530770303022 No	232957	530770029005 Yes	Yes	Yes	No	No	No	No	No	Yes
232966 530770031001 Yes	232958	530770029006 Yes	Yes	Yes	No	No	No	No	No	Yes
232971 530779400011 No	232960	530770030022 No	Yes	No	No	No	No	No	No	Yes
232975 530779400011 No	232966	530770031001 Yes	Yes	No	No	No	No	No	No	Yes
232976 530779400012 No	232971	530770032003 No	Yes	No	No	No	No	No	No	Yes
232977 530779400013 No Yes Yes No No Yes 232978 530779400014 No Yes Yes No No Yes 232979 530779400015 No Yes Yes No No Yes 232980 530779400021 No Yes Yes No No Yes 232981 530779400021 No Yes Yes No No Yes 232981 530779400022 Yes Yes No No Yes No No Yes 232982 530779400023 Yes Yes Yes No No Yes No No Yes 232982 530779400023 Yes Yes Yes No No Yes No No Yes 232984 53077940031 No Yes Yes No No Yes No No Yes 232985 530779400032 No No Yes No No No Yes No	232975	530779400011 No	Yes	Yes	No	No	Yes	No	No	Yes
232978 530779400014 No Yes Yes No No Yes No Yes 232979 530779400015 No Yes Yes No No Yes No No Yes 232980 530779400021 No Yes Yes No No Yes No No Yes 232981 530779400021 Yes Yes Yes No No Yes No No Yes 232982 530779400023 Yes Yes Yes No No Yes No No Yes 232983 530779400031 No Yes Yes No No Yes No No Yes 232984 530779400031 No Yes No No Yes No No Yes No No Yes 232985 530779400031 No Yes Yes No No Yes No No Yes No No Yes No No <td< td=""><td>232976</td><td>530779400012 No</td><td>Yes</td><td>Yes</td><td>No</td><td>No</td><td>Yes</td><td>No</td><td>No</td><td>Yes</td></td<>	232976	530779400012 No	Yes	Yes	No	No	Yes	No	No	Yes
232979 530779400015 No Yes Yes No No Yes 232980 530779400021 No Yes Yes No No Yes 232981 530779400022 Yes Yes Yes No No Yes 232982 530779400023 Yes Yes Yes No No Yes 232983 530779400031 No Yes Yes No No Yes 232984 530779400032 No No Yes No No Yes 232985 530779400031 No Yes No No Yes No No Yes 232986 530779400031 No Yes No No Yes No No Yes 232985 530779400031 No Yes No No Yes No No Yes 232986 530779400051 Yes Yes Yes No No Yes No No No Yes 232988 530779										
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	232992	530779400081 Yes	Yes	Yes	No	No	Yes	No	No	Yes