Report to the 2009 Hawai'i State Legislature

Lead by Example State of Hawai'i Agencies' Energy Initiatives FY 2007-2008



State of Hawai'i Department of Business, Economic Development & Tourism January 2009

Hawaii. Dept. of Business, Economic Development, and Tourism. Strategic Industries Division. Lead by example: State of Hawaii agencies' energy initiatives. Honolulu: 2007-.

Report to the 2009 Hawaii State Legislature. Annual.

1. Public buildings-Energy conservation-Hawaii. TJ163.5.B84.H39.2009

TABLE OF CONTENTS

XECUTIVE SUMMARY 1
EAD BY EXAMPLE:
TATE OF HAWAI'I EXECUTIVE AGENCIES' ACHIEVEMENTS IN ENERGY 4
The LBE Initiative
Executive Agency Electricity Consumption
Electricity Costs by State Agencies
Efficiency in Buildings 16
Utility Rebates Save Money at State Facilities
Highlights of Current State Energy Activities
Plans for Future LBE Activities
Individual Agency Responses
Consolidated LBE Reports from State of Hawai'i Executive Agencies for Fiscal Year
2008 Relating to the Statutory Requirements of Act 96 and Act 160 of 2006 31

APPENDICES

Appendix 1: UH Community Colleges Waste and Pollution Prevention	A-1
Appendix 2: DHHL Vehicles and Fuel Data	A-6
Appendix 3: Department of Education Vehicles and Fuel Data	A-8
Appendix 4: DOT-Airports Efficiency Projects and Vehicles Data	A-13
Appendix 5 DOT-Harbors Vehicles and Fuel Data	A-12
Appendix 6: DOT-Highways Vehicles and Fuel Data	A-30
Appendix 7: Public Safety Division Vehicles and Fuel Data	A-58
Appendix 8: NELHA Vehicle Inventory and Fuel Economy	A-67

Lead by Example Report FY 2007-2008

EXECUTIVE SUMMARY

The Lead by Example (LBE) initiative began in 2006 in response to legislative and executive mandates to change the way state executive branch agencies use energy in operations and facilities. These efforts acknowledge the high cost of electricity in Hawai'i, the energy security benefits of alternative fuel use, and the many opportunities for increasing energy efficiency in new and existing state offices, facilities and schools. The legislation also required incorporating environmentally preferable purchasing into state operations.

Fully implemented, the LBE initiative represents an important step in achieving long-term economic and environmental benefits for the state.

State executive branch agencies consumed slightly more electricity in each of the past two fiscal years, but that electricity has grown significantly more expensive due to the escalating price of oil, which hit a record high of \$147 in July, 2008. Between 2007 and 2008, kWh consumption decreased 1.2%, but costs increased 19.4% due to the cost of imported oil. The impact of the world oil market is more striking when comparing current figures to those of 2005: state agencies used only 3.6% more electricity in 2008 than in 2005, but that electricity cost 55.6% more. Hawai'i relies on imported petroleum for about 88% of its primary energy.

State of Hawai'i executive branch agencies made progress in efficiency, renewable energy, transportation, and environmentally preferable practices during 2008. Some highlights follow.

Efficiency

- Six state buildings have received Energy Star® awards, acknowledging that they rank in the top 25% of similar buildings nationwide.
- The Department of Accounting and General Services (DAGS) is working on four projects which are expected to receive a LEED Silver rating: Mānoa Public Library, Kohala Public Library, Keaukaha Military Reservation, and the Maui Regional Public Safety Complex.
- The Department of Public Safety (PSD) is relocating Maui CCC to Pu'unene, a LEED Silver project.
- DAGS is retrocommissioning 11 buildings in pilot projects on four islands.
- The Airports Division of the Department of Transportation (DOT-Airports) has saved 600,000 kWh annually with taxiway lighting and signage improvements.
- DAGS' Leeward Homeless Shelters feature solar water heating for 80 units plus the laundry.
- Solar water heating has been installed on facilities on Kaho'olawe.
- Library lighting retrofits: 12 completed, 21 under design.

- The Department of Education (DOE) now designs all new facilities to meet the requirements of LEED Silver, and all consultants need a LEED Accredited Professional on the team. The 'Ewa Makai Middle School, scheduled to begin construction in early 2009, will be the first DOE new school where the entire campus is designed to meet LEED Silver certification.
- The Department of Agriculture secured funding, including general obligation bonds, for retrocommissioning, lighting improvements and window tinting.
- 'Iolani Palace's improved chiller system is being designed by consultants to the Department of Land and Natural Resources (DLNR); it will improve efficiency while preserving the Palace's priceless cultural and historical artifacts.
- DOT-Airports is considering a cold seawater air conditioning system for the enclosed areas of Kona International Airport.
- The Hawai'i Public Housing Authority has issued a request for proposals for performance contracting at 5,363 federally-funded housing units.
- State agencies have received more than \$4.2 million in efficiency rebates from the Hawaiian Electric Company (HECO) and its subsidiaries, with cumulative dollar savings totaling \$9.9 million and cumulative electricity savings of 55.3 million kilowatt-hours. This is enough to power 6,700 households for a year.

Renewables

- DAGS is negotiating with a third party provider to install photovoltaic (PV) arrays on its Central Services facilities
- DOT-Airports awarded a competitive contract to install photovoltaics at ten transportation facilities statewide, including seven airports, plus the Foreign Trade Zone.
- DOE will install 30-50 kW photovoltaic systems on schools on four islands, using third-party contracting.

Transportation

- State vehicles are utilizing E-10 Unleaded gasoline which contains 10% ethanol; state law requires its sale.
- Many state vehicles are also flexible-fuel capable, and could use higher percentages of ethanol if they became available.
- The state offers a pricing preference for biodiesel.

Purchasing Practices

- Most departments already utilize life-cycle cost analyses, purchase efficient equipment such as those with the Energy Star® label, and take advantage of utility rebates.
- The State Procurement Office (SPO) continues to provide price and vendor listings which include Energy Star®, recycled, or environmentally preferred products.

- For products and supplies not included on the SPO price lists, purchasing agencies are still required to preferentially order recycled products, oil products with greater recycled content, and biofuels.
- The Department of Business, Economic Development, and Tourism (DBEDT) Green Cleaning Project will demonstrate environmentally preferable cleaning projects at the University of Hawaii (UH), McKinley High School and Kapālama Elementary School.
- DAGS is incorporating environmentally preferable Green Seal and equivalent products in its custodial program.
- Information on recycled and environmentally preferable products has been prepared by DBEDT and is available to state agencies.

Leadership in Energy and Environmental Design

Hawai'i remains a member of the U.S. Green Buildings Council (USGBC), the nonprofit entity which administers the Leadership in Energy and Environmental Design (LEED) program. DAGS is developing LEED application guidelines to be used by state agencies.

To date, four state facilities have been certified as meeting LEED standards; the UH John A. Burns School of Medicine building received confirmation as LEED Certified shortly after the close of FY07-08. In addition, buildings have been completed and are awaiting certification by USGBC: the UH-Hilo Student Life and Events Complex is pending confirmation as LEED Gold, and UH- Mānoa Frear Student Housing, is pending LEED Silver.

LEED Platinum

• Natural Energy Laboratory of Hawai'i Authority Gateway Energy Center LEED Certified

- DOE Waipahu Intermediate School Cafeteria
- UH-Hilo 'Imiloa Astronomy Center of Hawai'i
- UH-Mānoa John A. Burns School of Medicine

A significant number of additional buildings which are anticipated to meet LEED Silver standards are either being planned or are in the design phase, while the following state facilities are currently under construction or construction bids have been awarded, and are expected to be rated by LEED.

- North Kohala Public Library (Silver)
- Mānoa Public Library (Silver)
- UH-Hilo Sciences and Technology Center (Silver)
- Honolulu International Airport Lounge (Commercial Interiors)

LEAD BY EXAMPLE: STATE OF HAWAI'I EXECUTIVE AGENCIES' ACHIEVEMENTS IN ENERGY

This report responds to legislative and executive mandates issued in 2006 which require state agencies to implement a variety of energy programs now known as the Lead by Example (LBE) initiative. A number of requirements were established by Act 96, SLH 2006, Part III, which reflects Administrative Directive 06-01, issued by Governor Linda Lingle on January 20, 2006. This law directs state agencies to improve energy, water and resource efficiency in state facilities, increase fuel efficiency, and use alternative fuels in state vehicles.

In addition, Act 160, Section 168.5, SLH 2006, requires agencies to report their electricity consumption, the steps taken to reduce energy use, and their plans for future reductions. Although not mandated by law, the costs of purchasing utility electricity have also been compiled.

This Lead by Example report provides data on electricity use and costs as well as highlights of state agencies' energy activities under the LBE initiative. Executive agencies were invited to submit reports containing information required by the laws; these reports have been consolidated by the Department of Business, Economic Development, and Tourism (DBEDT). The consolidated reports, which are attached, list all agencies' actions under each section of Acts 96 and 160, SLH 2006.

The Lead by Example effort was kicked off at a meeting of all cabinet members, convened by DBEDT, on May 11, 2006. Since that initial meeting, agencies developed a framework for planning, implementing and reporting energy efficiency activities. State agency personnel have been trained and received technical assistance as needed. The agencies have set energy-savings targets and are developing tools which will enable their goals to be reached.

Agency representatives formed an LBE Leadership Group to coordinate these actions, supported by three Working Groups. These Working Groups address Buildings, Transportation, and Environmental Practices and Procurement. Each Working Group develops plans and recommendations to be reviewed by the Leadership Group, which is composed of high-level representatives of executive departments and the University of Hawai'i. The Leadership Group members have the authority to ensure efficient communication and the commitment to develop effective policies and plans for each department.

The LBE Initiative

Fiscal year 2008, the third year of the LBE initiative, marked an increasing emphasis on energy efficiency which was made even more critical by soaring petroleum prices and resulting high electricity costs. New state buildings are being constructed to higher efficiency standards; existing ones are receiving equipment retrofits and being retrocommissioned to ensure proper operation of energy systems. Several agencies are adopting solar technologies, particularly photovoltaics and solar water heating.

Executive agencies continued training their personnel in subjects such as building commissioning, performance contracting, financing, green building design and construction, energy-efficient equipment, and photovoltaics. A total of 87 workshops and other events relating to Lead by Example topics were held in FY08, attracting at least 1,960 participants, including at least 251 from state agencies. In some cases, DBEDT provided funds so that other executive agencies' staff members could attend the training.

Among the challenges of the LBE initiative are consistency in data collection and ensuring both ease and accuracy in recordkeeping. For the first time this fiscal year, electricity consumption and billing information were acquired directly from the utilities and compiled by statisticians in DBEDT's Research and Economic Analysis Division. Previously, the agencies provided data from their own records. The change in data submission has resulted in some discrepancies with the reporting from previous years, but should improve consistency going forward. Fiscal Year 2005 data will continue to serve as the baseline for comparison purposes.

Table 1 outlines the targets for the Lead by Example which have been set in response to the legislative and administrative mandates noted above.

This report summarizes the achievements and activities of executive agencies as they "lead by example" in 2008. The 26 participating agencies include:

Department of Accounting and General Services (DAGS) Department of Agriculture (DOA) Department of the Attorney General (AG) Department of Budget and Finance (B&F) Department of Business, Economic Development, and Tourism (DBEDT) Department of Commerce and Consumer Affairs (DCCA) Department of Education (DOE) Department of Hawaiian Home Lands (DHHL) Department of Health (DOH) Department of Human Resources Development (DHRD) Department of Human Services (DHS) Department of Labor and Industrial Relations (DLIR) Department of Land and Natural Resources (DLNR) Department of Public Safety (PSD) Department of Taxation (DOTAX) Department of Transportation—Airports Division (DOT-Air) Department of Transportation—Harbors Division (DOT-Har) Department of Transportation—Highways Division (DOT-Hwy) Foreign Trade Zone (FTZ) Hawai'i Community Development Authority (HCDA) Hawai'i Health Systems Corporation (HHSC) Hawai'i Housing Finance and Development Corporation (HHFDC) Hawai'i State Public Library System (HSPLS) Hawai'i Tourism Authority—Convention Center (HTA/CC) Natural Energy Laboratory of Hawai'i Authority (NELHA) University of Hawai'i system (UH)

Action Item	Impact Short Term 0-3 yrs. (FY08)	Impact Long Term 10 yrs (FY2015)
Provide education programs on energy efficiency	3% reduction in kWh	6% reduction in kWh
R&M/O&M facilities in place as of FY05 (e.g., lighting retrofits, purchasing more efficient equipment)	6% reduction in kWh	20% reduction in kWh
LEED Silver for new construction	30% reduction in kWh for each new building built to LEED Silver	30% reduction in kWh for each new building built to LEED Silver
Increase energy efficiency and fuel diversification of State vehicles as of FY 05	5% reduction in petroleum consumption	12% reduction in petroleum consumption
Increase availability of environmentally preferable products to state agencies	3% increase in availability of environmentally preferable products	12% increase in availability of environmentally preferable products
Increase procurement of environmentally preferable products	5% increase in procurement of environmentally preferable products	12% increase in procurement of environmentally preferable products

Table 1. Lead by Example Targets (Baseline FY 2005)

Executive Agency Electricity Consumption

Electricity use for State of Hawai'i executive agencies is depicted in Figure 1¹. In 2008, the agencies consumed a total of 683.98 million kilowatt-hours of electricity, compared to 692.46 million kWh in 2007, 676.29 million kWh in 2006 and 660.69 million kWh in 2005. This represents a decrease of 1.2% between 2007 and 2008, though electricity consumption increased by 3.6% between 2005, the baseline year, and 2008.



Figure 1. Comparison of State Agencies' kWh Consumption

Energy use varies widely within individual agencies. Some agencies reported reductions in energy use; others noted minimal increases and a few used significantly more electricity. Each agency's kWh consumption is summarized in Figure 2.

Many agencies have responsibility for their own electric bills, while others' consumption are aggregated under the Department of Accounting and General Services (DAGS). Four agencies account for most of the electricity used by the executive branch: the University of Hawai'i (UH) campuses, the Department of Education (DOE), the Airports Division of the Department of Transportation (DOT-Air), and DAGS.

¹ The data shown in Figure 1 and subsequent figures and tables exclude the Hawai'i Public Housing Authority (HPHA) and the Hawai'i Housing Finance and Development Corporation (HHFDC), as well as their predecessor agency, Housing and Community Development Corporation of Hawai'i (HCDCH), due to difficulties interpreting billing data.

Roughly 80% of the more than 2,600 buildings owned and operated by the state government are on O'ahu.

As shown in Figure 2, the four agencies which consume the most electricity show increases ranging from 3.3% to 9.2% since 2005. From FY 05-08, seven agencies were able to decrease their electricity consumption, and six others held their consumption increases at or below 3%. A few agencies showed much greater fluctuations.



Figure 2. Comparison of Fiscal Year kWh Consumption, by Agency Showing Percentage Change from FY05 to FY08

The FTZ's 12.1% increase in electricity consumption is due in part to the construction in 2005 of 12,000 square feet of new office space, and to the addition of a new security system in 2008, including a \$100,000 investment in lighting.

A number of new capital improvement projects have added to DOE's overall energy consumption. New portables were connected to existing schools' electrical meters at 19 campuses on three islands, and new facilities—including an administration building, a cafeteria expansion, and two eight-classroom buildings—were connected to existing meters at four schools on O'ahu. The resulting electricity consumption increases were somewhat offset by DOE's ongoing lighting and HVAC retrofit programs. It should be noted that several agencies' utility records are consolidated into DAGS' report since they are not separately billed. These include the departments of Budget and Finance (B&F), Human Resource Development (DHRD), Taxation (DOTAX), and some offices within the departments of Business, Economic Development, and Tourism (DBEDT).

Tables 2 and 3 provide information on individual agencies' electricity consumption and the changes from year to year since FY05. The reported number of kilowatt-hours consumed annually is provided in Table 2, while Table 3 presents the differences among years in kWh as well as percentage change.

Agency	FY05 kWh	FY06 kWh	FY07 kWh	FY08 kWh
AG	35,420	34,798	34,945	35,849
DAGS	48,747,915	50,265,161	50,874,228	53,238,727
DBEDT	496,413	358,760	610,347	546,138
DCCA	1,717,975	1,453,620	1,584,580	1,619,786
DHHL	2,283,061	2,494,168	2,989,292	3,391,736
DHS	3,860,312	4,013,572	4,046,352	3,922,472
DLIR	320,792	410,934	394,799	373,783
DLNR	3,470,071	3,448,349	3,635,056	3,648,777
DOA	2,825,754	2,920,780	3,309,250	2,845,190
DOD	6,703,102	6,900,527	7,143,118	6,927,797
DOE	143,577,331	144,166,024	148,219,684	148,275,306
DOH	25,671,439	25,625,754	25,404,687	25,332,669
DOT-Air	128,101,116	129,247,286	131,473,824	134,105,434
DOT-Har	10,436,590	10,708,555	11,364,562	11,237,166
DOT-Hwy	28,829,477	28,204,537	28,216,833	28,009,743
FTZ	921,920	1,044,160	1,011,840	1,033,600
HCDA	1,150,027	252,285	322,151	318,810
HHFDC	3,053,669	3,150,741	5,464,012	5,866,596
HHSC	20,127,174	18,553,340	18,804,930	18,146,647
HSPLS	8,483,680	8,512,526	8,879,387	8,726,116
HTA-CC	7,389,600	8,715,000	8,056,800	7,848,600
NELHA	4,477,349	3,917,223	4,035,528	4,178,093
PSD	21,877,323	21,673,132	20,839,695	20,431,439
UH	186,135,303	200,215,951	205,742,644	193,917,022
Totals	660,692,813	676,287,183	692,458,544	683,977,496

 Table 2. Utility Electricity Consumption by State Agencies²

² Electricity consumption and cost data for the Hawai'i Department of Defense (DOD), the Hawai'i Public Housing Authority (HPHA) and the Hawai'i Housing Finance and Development Corporation (HHFDC) were obtained from the electric utilities. Due to difficulties interpreting the data for HPHA, HHFDC and the Housing and Community Development Corporation of Hawai'i (HCDCH) which preceded their formation, however, electricity and cost data for public housing agencies are not included in this year's report. Neither DOD nor HPHA submitted a Lead by Example report and are thus not included in the text of this combined state agencies' report.

Agency	FY05- FY06	%	FY06- FY07	%	FY07- FY08	%	FY05- FY08	%
AG	-622	-1.8	147	0.4	904	2.6	429	1.2
DAGS	1,517,246	3.1	609,067	1.2	2,364,499	4.6	4,490,812	9.2
DBEDT	-137,653	-27.7	251,587	70.1	-64,209	-10.5	49,725	10.0
DCCA	-264,355	-15.4	130,960	9.0	35,206	2.2	-98,189	-5.7
DHHL	211,107	9.2	495,124	19.9	402,444	13.5	1,108,675	48.6
DHS	153,260	4.0	32,780	0.8	-123,880	-3.1	62,160	1.6
DLIR	90,142	28.1	-16,135	-3.9	-21,016	-5.3	52,991	16.5
DLNR	-21,722	-0.6	186,707	5.4	13,721	0.4	178,706	5.1
DOA	95,026	3.4	388,470	13.3	-464,060	-14.0	19,436	0.7
DOD	197,425	2.9	242,591	3.5	-215,321	-3.0	224,695	3.4
DOE	588,693	0.4	4,053,660	2.8	55,622	0.0	4,697,975	3.3
DOH	-45,685	-0.2	-221,067	-0.9	-72,018	-0.3	-338,770	-1.3
DOT-Airports	1,146,170	0.9	2,226,538	1.7	2,631,610	2.0	6,004,318	4.7
DOT-Harbors	271,965	2.6	656,007	6.1	-127,396	-1.1	800,576	7.7
DOT- Highways	-624,940	-2.2	12,296	0.0	-207,090	-0.7	-819,734	-2.8
FTZ	122,240	13.3	-32,320	-3.1	21,760	2.2	111,680	12.1
HCDA	-897,742	-78.1	69,866	27.7	-3,341	-1.0	-831,217	-72.3
HHFDC	97,072	3.2	2,313,271	73.4	402,584	7.4	2,812,927	92.1
HHSC	-1,573,834	-7.8	251,590	1.4	-658,283	-3.5	-1,980,527	-9.8
HSPLS	28,846	0.3	366,861	4.3	-153,271	-1.7	242,436	2.9
HTA-CC	1,325,400	17.9	-658,200	-7.6	-208,200	-2.6	459,000	6.2
NELHA	-560,126	-12.5	118,305	3.0	142,565	3.5	-299,256	-6.7
PSD	-204,191	-0.9	-833,437	-3.8	-408,256	-2.0	-1,445,884	-6.6
UH	14,080,648	7.6	5,526,693	2.8	- 11,825,622	-5.7	7,781,719	4.2

Table 3. Differences in Electricity Consumption (kWh) for Reported Years³

³ Electricity consumption and cost data for the Hawai'i Department of Defense (DOD), the Hawai'i Public Housing Authority (HPHA) and the Hawai'i Housing Finance and Development Corporation (HHFDC) were obtained from the electric utilities. Due to difficulties interpreting the data for HPHA, HHFDC and the Housing and Community Development Corporation of Hawai'i (HCDCH) which preceded their formation, however, electricity and cost data for public housing agencies are not included in this year's report. Neither DOD nor HPHA submitted a Lead by Example report and are thus not included in the text of this combined state agencies' report.

Electricity Costs by State Agencies

State executive branch agencies consumed 683.98 million kWh in fiscal year 2008, a 3.6% increase over 2005. However, this electricity was much more expensive than in previous years due to escalating worldwide oil prices. Electricity purchased from utilities cost \$102.27 million in 2005 but jumped to \$159.08 million in 2008, a 55.6% increase. The totals for the fiscal years from 2005 to 2008 are given in Figure 3.





Individual agencies' energy bills reflected the higher oil costs, which translated to significant increases in utility charges per kilowatt-hour. As discussed above, energy consumption by certain agencies rose, but even the departments which were able to decrease total electricity use experienced increased costs. For example, DBEDT's Film Office, DLIR and the UH system were able to decrease their electricity consumption by 10.5%, 5.3% and 5.7%, respectively, between 2007 and 2008, but their electricity bills all rose 11%-12% during the same period.

Agencies are actively addressing their energy consumption with methods such as retrofitting lights, tinting windows, replacing aging air conditioning systems, and assessing the potential for solar water heating.

Electricity costs for each agency are reported by fiscal year in Figure 4.



Figure 4. Cost of Purchased Electricity by Agency, Showing Percentage Change from FY05 to FY08

Electricity cost state executive agencies \$24.4 million more in 2006 than in 2005, \$6.56 million more between 2006 and 2007, and an additional \$25.8 million between 2007 and 2008. Electricity expenses are clearly impacting the state government budget as well as the state's economy. Lack of control over the vagaries of the world oil market is a major incentive for reducing the use of petroleum-based energy by both improving efficiency and replacing fossil fuels with renewable resources.

Agencies' electricity costs for fiscal years 2005 through 2008 are shown in Table 4. Table 5 lists the differences in dollars paid for utility electricity from year to year, and the percentage change between years.

Agency	FY05	FY06	FY07	FY08
AG	\$10,741	\$11,632	\$12,204	\$14,626
DAGS	\$7,410,397	\$9,165,691	\$9,184,704	\$11,804,444
DBEDT	\$115,698	\$89,907	\$124,219	\$139,262
DCCA	\$240,100	\$262,663	\$268,047	\$349,372
DHHL	\$489,457	\$628,026	\$811,507	\$1,031,764
DHS	\$682,659	\$848,950	\$869,092	\$1,011,391
DLIR	\$77,662	\$119,933	\$116,422	\$130,371
DLNR	\$709,075	\$839,955	\$890,562	\$1,057,839
DOA	\$545,360	\$647,465	\$789,674	\$793,691
DOD	\$1,163,250	\$1,419,457	\$1,495,511	\$1,740,097
DOE	\$25,610,926	\$30,615,253	\$31,766,931	\$38,227,400
DOH	\$3,939,563	\$4,747,817	\$4,759,608	\$5,882,869
DOT-Air	\$17,761,072	\$22,201,217	\$22,950,799	\$28,660,944
DOT-Har	\$1,670,117	\$2,045,415	\$2,134,196	\$2,638,632
DOT-Hwy	\$5,014,205	\$5,905,311	\$5,767,999	\$6,989,872
FTZ	\$134,290	\$180,726	\$174,446	\$221,373
HCDA	\$149,278	\$53,436	\$61,014	\$74,315
HHFDC	\$451,566	\$570,475	\$918,309	\$1,251,788
HHSC	\$3,982,094	\$4,415,497	\$4,801,818	\$5,866,179
HSPLS	\$1,534,826	\$1,808,919	\$1,891,008	\$2,246,677
HTA-CC	\$1,104,124	\$1,520,889	\$1,411,445	\$1,717,207
NELHA	\$914,711	\$1,015,139	\$1,071,918	\$1,313,291
PSD	\$3,242,882	\$3,972,605	\$3,848,077	\$4,689,674
UH	\$25,319,878	\$33,614,318	\$37,144,213	\$41,231,276
Totals	\$102,273,932	\$126,700,695	\$133,263,724	\$159,084,352

 Table 4. Cost of Electricity Purchased by State Agencies⁴

⁴ Electricity consumption and cost data for the Hawai'i Public Housing Authority (HPHA) and the Hawai'i Housing Finance and Development Corporation (HHFDC) were obtained from the electric utilities. Due to difficulties interpreting the data for HPHA, HHFDC and the Housing and Community Development Corporation of Hawai'i (HCDCH) which preceded their formation, however, electricity and cost data for public housing agencies are not included in this year's report. Neither DOD nor HPHA submitted a Lead by Example report and are thus not included in the text of this combined state agencies' report.

Agency	FY05- FY06	%	FY06- FY07	%	FY07- FY08	%	FY05- FY08	%
AG	892	8.3	571	4.9	2,422	19.8	3,885	36.2
DAGS	1,755,294	23.7	19,013	0.2	2,619,740	28.5	4,394,047	59.3
DBEDT	-25,792	-22.3	34,312	38.2	15,043	12.1	23,563	20.4
DCCA	22,563	9.4	5,384	2.0	81,325	30.3	109,272	45.5
DHHL	138,569	28.3	183,480	29.2	220,257	27.1	542,307	110.8
DHS	166,291	24.4	20,142	2.4	142,299	16.4	328,732	48.2
DLIR	42,271	54.4	-3,510	-2.9	13,948	12.0	52,709	67.9
DLNR	130,879	18.5	50,608	6.0	167,276	18.8	348,763	49.2
DOA	102,105	18.7	142,209	22.0	4,017	0.5	248,331	45.5
DOD	256,207	22.0	76,054	5.4	244,586	16.4	576,847	49.6
DOE	5,004,327	19.5	1,151,678	3.8	6,460,469	20.3	12,616,474	49.3
DOH	808,254	20.5	11,791	0.2	1,123,262	23.6	1,943,307	49.3
DOT-Airports	4,440,145	25.0	749,582	3.4	5,710,145	24.9	10,899,872	61.4
DOT-Harbors	375,298	22.5	88,781	4.3	504,436	23.6	968,515	58.0
DOT- Highways	891,106	17.8	-137,312	-2.3	1,221,873	21.2	1,975,666	39.4
FTZ	46,437	34.6	-6,281	-3.5	46,927	26.9	87,083	64.8
HCDA	-95,842	-64.2	7,579	14.2	13,301	21.8	-74,963	-50.2
HHFDC	118,910	26.3	347,834	61.0	333,478	36.3	800,222	177.2
HHSC	433,404	10.9	386,321	8.7	1,064,360	22.2	1,884,085	47.3
HSPLS	274,093	17.9	82,089	4.5	355,669	18.8	711,851	46.4
HTA-CC	416,764	37.7	-109,443	-7.2	305,761	21.7	613,082	55.5
NELHA	100,428	11.0	56,780	5.6	241,373	22.5	398,580	43.6
PSD	729,723	22.5	-124,527	-3.1	841,597	21.9	1,446,792	44.6
UH	8,294,440	32.8	3,529,894	10.5	4,087,063	11.0	15,911,398	62.8

 Table 5. Differences in Cost of Electricity for Reported Years (\$)⁶

⁶ Electricity consumption and cost data for the Hawai'i Public Housing Authority (HPHA) and the Hawai'i Housing Finance and Development Corporation (HHFDC) were obtained from the electric utilities. Due to difficulties interpreting the data for HPHA, HHFDC and the Housing and Community Development Corporation of Hawai'i (HCDCH) which preceded their formation, however, electricity and cost data for public housing agencies are not included in this year's report. ⁷DAGS' data include consumption by the Aloha Stadium plus that of agencies occupying buildings operated by DAGS, such as Dept. of Budget & Finance, Dept. of Human Resources Development, Dept. of Taxation, and most locations of Dept. of Business, Economic Development & Tourism.

Efficiency in Buildings

In Hawai'i, applying energy efficiency to the design, construction and operation of buildings is becoming a standard practice. The State of Hawai'i is active in several "green building" initiatives and now requires LEED Silver certification, to the extent possible, for new construction and major renovation. In addition to energy savings, LEED Silver standards dictate improved indoor environmental quality, which has been linked to reduced absenteeism, 2%-16% increased productivity, 20% better test performance in schools, and $2\frac{1}{2}$ day earlier discharge from hospitals.

LEED is a program of the U.S. Green Building Council (USGBC). DBEDT joined the Council in 2006; its membership on behalf of the State of Hawai'i allows all state employees access to USGBC publications and training sessions at a reduced cost, as well as exclusive on-line reports, participation in local USGBC chapter events, and reduced LEED project registration and certification fees. Although certification provides independent, third-party verification of a building's performance to LEED standards, some agencies are designing facilities to meet LEED criteria but do not plan to formally certify them because of cost considerations.

Five state agencies now have LEED Accredited Professionals on staff: DBEDT, DOE, DOT, DAGS and UH. Other employees are in training for this goal.

DBEDT continues to benchmark state buildings, a process which involves calculating the building's annual energy consumption per square foot. This results in an "energy usage index" (EUI), allowing buildings to be quickly compared.

Benchmarking is one way of evaluating whether buildings are potential candidates for Energy Star® status. Energy Star® is a joint program of the U.S. Environmental Protection Agency (EPA) and the U.S. Department of Energy to protect the environment and reduce costs through energy efficient products and practices. Energy Star® certified buildings rank in the top quartile of an EPA performance rating system calculated from actual energy use. Energy Star® certified buildings also must qualify for thermal comfort while meeting lighting, ventilation, and indoor air quality requirements.

Hawai'i also has been an active member of EPA's Energy Star® 10% Challenge program since 2005. The program identifies buildings where financially attractive energy efficiency improvements could reduce energy use by 10%, and then implements those changes through low-cost building tune-ups, lighting upgrades, and replacement of old equipment. Another benefit is the reduction of greenhouse gas emissions.

Six state facilities have achieved Energy Star® status; some of these have received annual certification repeatedly.

- Kakuhihewa Building (Kapolei State Building)
- Leiopapa A Kamehameha Building (State Office Tower)

- Abner Paki Hale Courthouse
- Hilo State Office Building
- Keoni Ana Building
- Waipahu Civic Center

To ensure that buildings function as efficiently as possible, commissioning and retrocommissioning processes are being employed. Commissioning is applied to new buildings, while retrocommissioning optimizes an existing building's operation and maintenance. DAGS, for example, is retrocommissioning 11 projects on four islands.

The following state buildings have either achieved LEED standards or are in process toward that goal. A number of these projects were already underway before the LBE initiative began.

LEED Platinum

- NELHA Hawai'i Gateway Energy Center (completed)
- NELHA Gateway Center office structure (planned)

LEED Gold

• UH-Hilo Student Life Complex (completed; certification pending)

LEED Silver

- DAGS Keaukaha Military Reservation Joint Military Center (design)
- DAGS Maui Public Safety Complex (design)
- DOE 'Ewa Makai Middle School campus (pending construction)
- DOE Kapa'a Elementary School library (design)
- DOE Kīhei High School campus (planned)
- DOE West Maui Elementary School Elementary School (predevelopment)
- DOE Wailuku Elementary School II (pre-design)
- DOH Hawai'i State Hospital new forensic facility (funds to be requested)
- HSPLS North Kohala Public Library (construction bid awarded)
- HSPLS Mānoa Public Library (construction bid awarded)
- PSD Kaua'i Regional Complex (planned)
- PSD Maui Community Correctional Center relocation (design)
- PSD O'ahu Regional Complex (planned)
- PSD new transitional housing (planned)
- UH Information Technology Center (design)
- UH-Hilo Hawaiian Language Building (design)
- UH-Hilo Sciences and Technology Center (under construction)
- UH-Hilo Student Services Building addition and renovation (design)
- UH-Mānoa Campus Center renovation and addition (pre-design)
- UH-Mānoa College of Education (planned, pending funds)
- UH-Mānoa Edmonson Hall renovation (funded for design)

- UH-Mānoa Frear Hall Residence Building (completed; certification pending)
- UH-Mānoa Gartley Hall renovation (design)
- UH-Mānoa Kennedy Performance Arts Facilities (design; funds pending)
- UH-Mānoa Pacific Regional Biosafety Laboratory (funded for design and construction)
- UH- Mānoa Performing Arts Facility (design)
- UH-Mānoa School of Law addition and renovation (funded for planning)
- UH-Mānoa new classroom building (planning)
- UH-West O'ahu new Kapolei campus development (design)
- Honolulu Community College Advanced Technology Training Center (funded for design)
- Kapi'olani Community College Culinary Institute of the Pacific (design)
- Leeward Community College Education and Innovation Instructional Facility (project development phase)
- Maui Community College science facility (design)
- Windward Community College Library and Learning Center (design)

LEED Certified

- DOE Waipahu Intermediate School Cafeteria (completed)
- UH-Mānoa School of Medicine (completed)
- UH-Hilo 'Imiloa Astronomy Center of Hawai'i (completed)

LEED Commercial Interiors

• DOT-Airports Division renovation of Honolulu International Airport Lounge (awarded for construction)

In addition, sustainable design criteria similar to those of LEED are being incorporated by DAGS during the design phase of the Kapolei Judiciary Complex, within the constraints of project funding. DBEDT, working with DAGS, is developing guidelines for design and construction which can be applied toward meeting LEED requirements. DOE is also designing some school facilities to meet LEED Silver standards but will not pursue formal certification due to cost concerns. Hawai'i High Performance School Guidelines, which provide guidance for design consultants, will still be used when applicable to achieve LEED requirements in school buildings.

DAGS is also the state's lead agency for energy performance contracting, a proven method of implementing energy efficiency capital projects without requiring upfront funds.

Utility Rebates Save Money at State Facilities

Since 1996, many public agencies have taken advantage of utility-sponsored demand-side-management (DSM) programs. Utilities have provided rebates for both retrofit and new construction in the areas of lighting, motors, and heating/ventilation/air conditioning (HVAC), and also have supported customized approaches.

More than \$4.2 million in rebates have been provided by the Hawaiian Electric Company, Inc. (HECO) and its subsidiaries to State of Hawai'i executive agencies from 1996 through June 2008. In 2008, the cumulative energy savings from retrofits and new construction was 55,346 MWh, enough to power 6,700 homes in Hawaii for that year. The utility bill and energy savings are expected to grow to \$149 million and 830,204 MWh, respectively, over the life of the energy-efficient equipment. This is the equivalent of 100,557 households' annual electricity use.

Kaua'i Island Utility Cooperative (KIUC) also provides rebates. In early 2008, the Hawai'i National Guard received three rebates for efficient lighting retrofits installed in late 2007 totaling \$10,600. In addition, Wilcox Elementary School received a \$4,031 rebate for an air conditioning rebate in November 2008.

The Department of Education and the University of Hawai'i system were the largest beneficiaries of HECO rebates, receiving over \$1 million each as shown in Figure 5. The "Housing" rebates were provided to the Housing and Community Development Corporation of Hawaii which was reorganized in 2005 into two agencies, HPHA and HHFC. The state agencies which received DSM rebates from the three HECO utilities saved the equivalent of \$251,500 to \$1.6 million per year on their electricity bills from 1996 to June 30, 2008. Cumulatively, the agencies have saved \$9.9 million during the same period. Cost savings for state executive agencies as of June 30, 2008, are depicted in Figure 6. Equivalent savings are calculated using \$0.18/kWh as the average cost for commercial electricity for the sake of consistency.

Cumulatively, since 1996, 409,095 MWh have been saved at state facilities served by HECO utilities. Total demand savings for the period are 11.8 MW. Cumulative electricity savings due to utility efficiency rebate programs since 1996 are depicted for the executive agencies which participated in the programs in Figure 7.



Figure 5. Selected State Facilities' DSM Rebates from HECO since 1996, by Agency



Figure 6. Cumulative State Executive Facilities' DSM Rebate Savings (\$) from HECO since 1996



Figure 7. Cumulative State Executive Facilities' Energy Savings from HECO Rebate Programs (kWh), since 1996

Most of the savings are from lighting retrofits: 35 million kWh per year of consumption, representing 63% of the total. Custom retrofits are a distant second, with 9.8 million kWh saved annually. Space cooling saves nearly as much: 9.6 million kWh per year. Other rebates were provided for motors and water heating. The annual energy savings due to utility DSM rebate programs for each technology are depicted in Figure 8.

HECO's data show that a typical office building's electricity is primarily used for space conditioning: providing cooling and operating heating, ventilation and air-conditioning (HVAC) fans required 43% of a building's electricity. Lighting was a strong second at 27%. "Plug loads" such as computers, copiers and other equipment were responsible for 17% of the electricity consumed, and water heating was only 0.2%. Miscellaneous uses (e.g. elevators, water coolers) accounted for the remaining 12.8%. These data, shown in Figure 9, indicate some of the most promising targets for energy conservation.

When State of Hawai'i facilities on O'ahu are examined by type, it is evident that campuses consisting of classrooms and offices consume half of the electricity. Office buildings and the Honolulu International Airport respectively consume 17.7% and 17.6% of the total. The public hospital system is also a significant consumer, accounting for 6.3%. These data, provided by HECO, are shown in Figure 10.





Figure 9. Typical Office Building Energy Use Breakdown





Figure 10. State of Hawai'i Facilities on O'ahu, Electricity Consumption by Occupancy Type

Highlights of Current State Energy Activities

Since the State of Hawai'i established its energy program in 1974, state agencies have undertaken myriad activities focusing on energy efficiency, conservation, and renewable energy. DBEDT's director, the state's Energy Resources Coordinator, is responsible for coordinating energy activities statewide.

These decades of programmatic action have positioned the Administration to rapidly implement the LBE initiative. The state's energy staff and many agencies' efforts have already built a solid foundation, completed some benchmarking and assessments, provided numerous opportunities for training, and executed a number of projects. Some of the recent achievements are described below.

Efficiency

DOE has developed an internal system that enables the comprehensive management of all utilities—electricity, water, sewage disposal and gas—for all schools through a central office. Payment for all utilities has been consolidated into one office, enabling the department to monitor utility use by the schools. Electrical submeters will be installed for all new facilities. Energy conservation measures for air conditioning and lighting have been implemented, and all appliances will be replaced with Energy Star®-rated appliances by June 15, 2009.

DOE has begun a number of projects to examine the feasibility of various heat abatement strategies other than air conditioning. These include pilot projects at 'Ewa Beach Elementary and at Kahuku High School's portable classrooms. As a result of a study, the department will include motion detectors for controlling classroom lighting in future energy service company work in the schools.

Several community colleges are also employing submetering for buildings, air conditioning and irrigation units to reduce operating costs. Several new buildings are using waterless urinals to reduce water consumption.

PSD received funding for a department-wide energy conservation program in 2007 and has selected a consultant to assess efficiency options. The Hawai'i Air National Guard replaced an inefficient air compressor system, saving \$37,000 in electricity and \$11,000 in water costs annually.

The Honolulu International Airport Modernization Program will incorporate sustainability goals and LEED guidelines for their projects. DOT-Airports' taxiway lighting system and guidance signs replacement projects have reduced annual electricity consumption by 600,000 kWh.

A large project to improve energy systems at 'Iolani Palace is in the design phase; construction is scheduled to begin in October 2009. The entire air conditioning system needs to be replaced to improve efficiency while preserving the priceless cultural and historic artifacts within the monument. The new system will be commissioned to ensure optimum performance.

During Fiscal Year 2008, DAGS initiated 11 pilot retrocommissioning projects on O'ahu, Hawai'i, Maui and Kaua'i to save energy. Some projects have completed the investigation phases and implemented minor repairs. Other recommended work will need to be included in future CIP budget requests.

Working with HSPLS, twelve libraries received energy efficiency retrofits, either from in-house DAGS crews or from contractors. DAGS currently has 21 library lighting retrofit projects under design which are expected to be bid and constructed in FY 2009. In 2008, HSPLS replaced two ageing air conditioning systems, improving efficiency.

DBEDT convened the State Facilities Energy Management Advisory Committee (EMAC) in 2007, which made recommendations for increasing the use of energy savings contracts, improving building design, reduction of energy consumption, expanding the use of renewable energy, and procuring energy efficient products. The report was submitted to the state Legislature in January 2008.

DBEDT also chaired the International Energy Conservation Code (IECC) committee of the State Building Code Council, preparing recommendations to modify the IECC to suit Hawai'i's unique conditions. DBEDT has applied to the U.S. Department of Energy to become an "early adopter" of the next iteration of the IECC.

A DBEDT technical consultant provided information on energy performance contracting mechanisms to the Hawai'i Public Housing Authority as that agency developed a Request for Proposals and evaluated responses. HPHA's project will include 5,363 federally-funded residential units to be retrofit with energy and water efficiency improvements. Major performance contracts statewide have already saved millions of dollars. DAGS is leading the state's efforts in performance contracting.

DOT-Highways continues to install energy-efficient lamps in new or modified traffic signals. FTZ is replacing incandescent bulbs with compact fluorescents and was able to eliminate five 400W metal halide fixtures from its new perimeter lighting system as the result of a photometric survey.

The University of Hawai'i has installed heat recovery systems for hot water at its Frear Resident Hall on the Mānoa campus and the UH-Hilo Student Life Center uses a heat pump for water heating. UH established two energy manager positions which will review renewable energy and efficiency technologies for possible application to existing Campus Renewal CIP projects. A campus-wide Energy Management Committee at UHM is responsible for implementing energy reduction projects. Among the initiatives is a "search and destroy" program to replace incandescent bulbs on campus.

The fossil fuel used to transport personnel, equipment, and materials to Kaho'olawe has been significantly reduced by shifting from helicopters to a 40-foot ocean-borne landing craft. Installation of an efficient diesel generator at the base camp cut fuel use in half. The island's reverse-osmosis system produces 1,500 gallons per day of fresh water, more than adequate for demand.

Solar water heaters are being installed on the Leeward Homeless Shelters Villages of Mā'ili transitional housing which will produce hot water for 80 units and laundry facilities. Two of the four residential water heaters on Kaho'olawe have been converted to solar by DLNR's Kaho'olawe Island Reserve Commission, with the remainder scheduled for conversion next year. NELHA employs solar water heating, and several of its buildings are also air conditioned using deep, cold seawater.

Renewables

Two laws passed in the 2008 legislative session will help expedite the permitting of renewable energy projects in Hawai'i. Act 207 gives the Energy Resources Coordinator responsibility for creating a streamlined permitting process that includes state and county permits required for the siting, development, construction, and operation of new renewable energy facilities of at least 200 megawatts capacity. Act 208 establishes a new renewable energy facilitator position in DBEDT who will facilitate existing permits, propose changes to the permit process and coordinate energy projects.

Photovoltaics (PV) are likely to be the first renewable energy technology widely adopted by state facilities. DAGS is negotiating with a power provider for photovoltaics to be installed on their Central Services buildings; electricity will be sold to DAGS at a price lower than the utility rate. HHFDC is evaluating photovoltaics for its Pohulani Elderly Project building. NELHA hopes to issue RFPs for both photovoltaics and ocean thermal energy conversion, and has tenants installing concentrating solar facilities.

After issuing a Request for Proposals, DOT-Airports Division awarded a competitive contract in March 2008 to develop photovoltaic systems at 10 transportation facilities, including the Honolulu, Kona, Kalaeloa, Kahului, Līhu'e, Moloka'i and Lāna'i Airports as well as the Foreign Trade Zone in Honolulu. The equipment will be installed over the next two years.

DOE has developed a Request for Proposals for the installation of photovoltaics on public schools on four islands. A third-party vendor will install and maintain the 30-50 kW systems, selling power to DOE at a discounted rate. The community colleges are discussing the installation of photovoltaics with third party providers. Maui Community College campus has received a donated wind turbine and is researching an appropriate site for installation.

DOT-Airports is planning to use cold deep seawater to cool enclosed areas at the Kona International Airport, and expects to install a new parking deck covered with photovoltaic modules.

Transportation

Not all state agencies have vehicle fleets. Those that do must comply with federal and state regulations relating to the purchase of efficient vehicles, and to purchase the most fuel-efficient vehicles that meet the needs of their programs.

State vehicles are already utilizing E-10 Unleaded gasoline which contains 10% ethanol; state law requires its sale. Many state vehicles are also flexible-fuel capable, and could use higher percentages of ethanol if they became available. The UH has a small fleet of alternatively-fueled and hybrid vehicles.

The state is developing a pricing preference for biodiesel, and several agencies are prepared to use it. Currently, supplies of locally-produced biodiesel are very limited.

Purchasing Practices

Most departments already utilize life-cycle cost analyses, purchase efficient equipment such as those with the Energy Star® label, and take advantage of utility rebates. DAGS already requires the projects which it manages to use highly efficient mechanical equipment. Utility rebates have typically been used to help offset the cost of purchasing and installing energy-efficient equipment.

The State Procurement Office (SPO) continues to provide price and vendor listings which include Energy Star®, recycled, or environmentally preferred products. For products and supplies not included on the SPO price lists, purchasing agencies are

still required to preferentially order recycled products, oil products with greater recycled content, and biofuels.

DBEDT conducted a Green Cleaning Products pilot program for McKinley High School, Kapālama Elementary School, and the University of Hawai'i with the goal of expanding use throughout state facilities. Green cleaning products are concentrated, requiring less energy to transport as well as less water, are less toxic and thus may require less rinsing. DAGS is integrating cleaning products with the Green Seal or equal certification into its custodial program.

Information on recycled and environmentally preferable products (EPP) has been prepared by DBEDT and is available to state agencies. This includes lists of EPP available in Hawai'i, a case study of successful EPP efforts, an evaluation of procurement practices, and recommendations for specifications and bid requests to address EPP concerns.

Plans for Future LBE Activities

Continued Efficiency Efforts

Continued improvements in efficiency and the use of renewable energy in state facilities are expected. Building on the solid foundation of assessments, training, benchmarking, energy performance contracts and other activities undertaken in the past several decades, the administration will maintain its focus on modifying agency operations to improve efficiency. Gathering and assessing data, training staff, developing additional reference materials, enhancing interagency communications, identifying needs for additional skills and tools, and setting efficiency targets are all on the LBE agenda.

Need for Adequate Implementation Resources

State agencies are committed to the LBE effort, but future results depend on securing adequate implementation resources. Funds for capital improvements, maintenance, and retrofits must be appropriated for energy efficiency and renewable energy goals to be reached. High-priority projects include lighting, LEED commissioning, improvements such as window tints and energy management controls, and renewable energy installations.

Agency Goals and Plans

As part of the LBE initiative, state agencies have clarified and prioritized their plans for future energy improvements. These plans include new construction as well as retrofits and repairs. LBE Working Groups will be addressing the following tasks:

1) Data Collection:

- Develop a standardized data collection system to establish and refine baselines for various target areas: buildings, transportation, environmental practices and procurement.
- Develop standardized documents/formats for various data requirements.
- Train personnel to use the data tools; collect data for the various target areas.
- 2) Training and Education Activities:
 - Conduct training/education for the various Working Group members (e.g., speakers, selected discussion topics, inter-Working Group meetings to promote information/idea exchanges.)
 - Develop an education/promotional campaign for state personnel to implement and practice increased efficiency.
 - Continue technical training and education efforts to support LBE.
- 3) Technical Assistance:
 - Development of LEED projects and identifying pilot projects.
 - Development of commissioning and retrocommissioning projects.
 - Building assessments, including walk-through audits.
 - Identify and certify Energy Star® state buildings.
- 4) Evaluation:
 - Continue assessment and discussion process to identify future tasks such as development of evaluation criteria, data requirements, and training needs.
 - Develop evaluation tools, quantitative and qualitative, such as conducting post-occupancy evaluations (objective and subjective) of LEED Silver Buildings or buildings with selected technology installations for energy efficiency improvements.
- 5) Policy Review and Recommendations:
 - Continue discussion on energy-efficiency-only budget requests to improve the request process and information provided.
 - Continue examination of potential policy recommendations from the Leadership Working Group, Buildings Working Group, Transportation Working Group, and the Environmental Practices and Procurement Working Group.

Individual Agency Responses

A compilation of the responses from most State of Hawai'i executive agencies may be found in the following section. Agencies were asked to report on their specific activities relating to Act 96 and Act 160, SLH 2006.

DBEDT issued invitations to participate in this compiled report to all state executive branch departments, including attached agencies. The Department of Defense and the Hawai'i Public Housing Authority did not respond, nor did they provide statutorily required data. The 26 departments and offices which did respond include:

AG: Department of the Attorney General B&F: Department of Budget and Finance DAGS: Department of Accounting and General Services DBEDT: Department of Business, Economic Development & Tourism DCCA: Department of Commerce and Consumer Affairs DHHL: Department of Hawaiian Home Lands DHRD: Department of Human Resource Development DHS: Department of Human Services DLIR: Department of Labor and Industrial Relations DLNR: Department of Land and Natural Resources DOA: Department of Agriculture DOE: Department of Education DOH: Department of Health DOT-Airports: Department of Transportation, Airports Division DOT-Harbors: Department of Transportation, Harbors Division DOT-Highways: Department of Transportation, Highways Division DOTAX: Department of Taxation FTZ: Foreign Trade Zone HCDA: Hawai'i Community Development Agency HHFDC: Hawai'i Housing Finance and Development Corporation HHSC: Hawai'i Health Systems Corporation HSPLS: Hawai'i State Public Library System HTA-CC: Hawai'i Tourism Authority, Convention Center NELHA: Natural Energy Laboratory of Hawai'i Authority PSD: Department of Public Safety UH: University of Hawai'i system

Selected details from specific responses, such as vehicle fleet data, are attached as appendices.

Consolidated LBE Reports from State of Hawai'i Executive Agencies Fiscal Year 2008 Relating to the Statutory Requirements of Act 96 and Act 160 of 2006

Act 96 SLH 2006: Buildings and Facilities

(1) Design and construct buildings meeting the Leadership in Energy and Environmental Design silver or two green globes rating system or another comparable state-approved, nationally recognized, and consensus-based guideline, standard, or system, except when the guideline, standard, or system interferes or conflicts with the use of the building or facility as an emergency shelter;

AG: Not applicable; the Department of the Attorney General (AG) does not design or construct buildings.B&F: Not applicable. The department does not oversee the design, construction or maintenance of building facilities.

DAGS: The Division of Public Works (PWD) already implemented and constructed a pilot project, Waipahu Intermediate School Cafeteria, which received a LEED Certified rating. Construction of this project was completed under the DOE due to Act 51; however staff from the Division of Public Works were actively involved in project.

PWD has already gained experience and learned from the Waipahu Intermediate School Cafeteria project, including just becoming more familiar with LEED or sustainable design. Now the division has at least one source to identify potential costs impacts from this pilot project. The project only sought a LEED Certified rating due to budget constraints and to some degree the type of facility, which may not allow or provide for enough points in the LEED rating system without being unreasonable in the design and associated costs.

PWD currently is working on four designated projects to achieve a LEED Silver rating. The four projects are:

- <u>Mānoa Public Library</u> <u>Expansion and Site Improvements, DAGS Job No. 12-36-6364</u> This project has been bid and a construction contract in the amount of \$8,159,000 has been awarded to Allied Pacific Builders, Inc. The project is currently pending building permit approvals and PWD anticipates starting construction in January 2009 and completing construction in mid 2010.
- <u>New Kohala Public Library, DAGS Job No. 11-36-6367</u> This project has been bid and a construction contract in the amount of \$6,895,900 has been awarded to Isemoto Contracting Co., Ltd. The project is currently pending building permit and zoning approvals and PWD anticipates starting construction in September 2008 and completing construction in late 2009.
- <u>Keaukaha Military Reservation Joint Military Center, Phase 1, DAGS Job No. 21-14-7292</u> This is a design-build project which received design-build proposals on April 10, 2008. An award in the amount of \$50,768 to Nan, Inc. was made on June 10, 2008 and the notice to proceed was issued on August 11, 2008. The project is currently under design by the designbuilder Nan, Inc. It is anticipated that the construction part of the design-build contract will start in mid 2009 with a completion date in early 2011.
- <u>Maui Regional Public Safety Complex, DAGS Job No. 15-27-5562</u> This project is currently starting design. Initially the project was planned to be accomplished in two phases, with Phase 1 estimated at approximately \$50 million and Phase 2 estimated at over \$150 million. The project now will be designed and constructed in one phase and the estimated cost is over \$200 million. The goal of this project will be to achieve a LEED Silver rating.

The projects above are part of developing our strategy. For the immediate strategy, the Division of Public Works will implement projects in accordance with Act 96, SLH 2006 "to the extent possible." PWD's general strategy in defining and applying "to the extent possible" is to take the following steps:

- 1st level: Look for and implement sustainable design practices and elements that PWD does already, thus no impact on operation/function and cost.
- 2nd level: Look for and implement sustainable design practices and elements that PWD may not have normally done, but can do without negative impact to cost and negative impact to operation/function of the facility.
- 3rd level: Look for and <u>possibly</u> implement sustainable design practices and elements that PWD may not currently do that are not very costly and improve operation/function of the facility. Associated costs, benefits, budget and maybe even schedule will start to become factors in deciding whether to implement.
- 4th level: Look for and <u>possibly</u> implement requirements that PWD may not currently do and will impact cost and will improve operation/function of the facility. Associated costs, benefits, budget and schedule will be factors in deciding whether to implement.
- 5th level: And so forth...

Part of the strategy also includes <u>knowing what we do not want to do</u>: PWD shouldn't implement sustainable design practices and elements that do not offer any real value. The division definitely does not want to implement sustainable design requirements to get LEED points just to achieve a rating that does not provide a real value even if the project budget would allow it. As PWD gains experience and knowledge from the projects that will occur over the year, the division intends to develop a LEED or generically state, Sustainable Design and Commissioning application guideline and programmatic support for PWD and possibly other state agencies.

DBEDT: On behalf of the State of Hawai'i, DBEDT renewed its membership with the U.S. Green Building Council (USGBC) in 2008. USGBC administers the Leadership in Energy and Environmental Design (LEED) rating system. DBEDT continues to cosponsor many LEED training sessions and continues to serve on the USGBC Hawai'i Provisional Chapter's Education Committee. There are now more State of Hawai'i LEED projects completed, under construction and consideration. This fiscal year, DAGS personnel planned to join DOT, DOE and DBEDT in having LEED-accredited professionals on staff. DBEDT has helped coordinate LEED workshops to prepare additional state personnel and others to take the USGBC examination and become LEED accredited professionals.

Through State of Hawai'i General Funds, DBEDT has a contract with USGBC to provide training assistance to State of Hawai'i agencies. Through this agreement, training and reference documents on implementing LEED projects will be provided on October 20-24, 2008, and in early 2009 by the USGBC to State of Hawai'i program and project managers.

Green Building Services, Inc. (GBS) has been providing State of Hawai'i agencies with green building-related technical assistance. GBS presented at a Consulting Engineers Council of Hawai'i Conference in February 2008 and conducted a LEED Commercial Interiors Assessment for a project with the Department of Transportation's Airports Division. GBS has met with and provided technical assistance to the State of Hawai'i's DOE providing portable classroom Request for Proposals (RFP) language, Construction Waste Management Specifications and a LEED for Existing Buildings assessment for DAGS, and reviewing Conservation Use Permit language with DLNR. GBS will also assist State of Hawai'i agencies such as HCDA, DAGS and others with an Implementation Guide for Project Managers on LEED Projects.

DBEDT convened the State Facilities Energy Management Advisory Committee (EMAC) in 2007, which made recommendations for increasing the use of energy savings contracts, improving building design, reduction of energy consumption, expanding the use of renewable energy, and procuring energy efficient products. The report was submitted to the state Legislature in January 2008.

DBEDT staff attended all meetings of the State Building Code Council, created by legislation to update and unify building codes statewide. Staff also:

- Chaired the International Energy Conservation Code (IECC) committee.
- Held ten meetings for the purpose of modifying the IECC to suit Hawai'i's unique conditions.
- Testified before the Honolulu City Council on Bill 87 which would require all new commercial construction on O'ahu to be LEED compliant.
- Applied to the U.S. Department of Energy for a grant to become an "early adopter" of the next iteration of the IECC.

DBEDT convened the Lead By Example initiative's Leadership Working Group to brief over 20 agency and departmental managers about energy and resource efficiency topics, including green building practices.

DCCA: Not applicable; DCCA did not construct or renovate any buildings.

- DHHL: DHHL will encourage its Land Development Division to plan design and all future housing projects to meet LEED Silver or two green globes rating. DHHL will also encourage its Land Management Division to require all new general lessees and licensees to plan and design their facilities to meet the same requirement. All potential lessees are instructed to consider energy efficiency. DHHL will continue to work with DBEDT in a statewide effort on energy efficiency. DHHL is in the process of developing its own energy policy to enable native Hawaiians to lead in Hawai'i's effort to achieve energy self sufficiency and sustainability.
- DHRD: Not applicable. The department does not design or construct buildings.
- DHS: The Department of Human Services will continue to coordinate all building and facility projects with DAGS to ensure that all construction, and repairs and alterations projects are in compliance with the applicable standards and guidelines.
- DLIR: The Department of Labor and Industrial Relations (DLIR) does not own or manage any buildings. The majority of DLIR personnel are housed in building facilities constructed and managed by DAGS. The remaining DLIR personnel are out-stationed in privately-owned buildings. The DAGS Leasing Branch secures all rental lease agreements for DLIR occupants housed in privately-owned buildings. In addition, DLIR does not have any plans to design or construct new buildings or facilities at this time. DLIR will continue to learn about energy efficiency and environmental designs. As DLIR staff gain more knowledge in energy efficiency and environmental designs, appropriate steps will be taken to incorporate these standards into DLIR standards. DLIR will work with the appropriate DAGS agencies to incorporate energy efficiency measures to reduce energy consumption.
- DLNR: DLNR continues to work with DBEDT in a statewide collaboration on energy efficiency, as a member of DBEDT's Lead by Example Leadership Group. DLNR will continue to work with the Leadership Group on ideas to implement energy savings across the state. As department staff learns more about such initiatives, they will incorporate such guidelines into DLNR standards.

DLNR's facility portfolio is limited. Most of buildings owned by DLNR are composed of base yards, harbor facilities and park restrooms. DLNR incorporates energy saving concepts into all of its owned facilities as appropriate. Energy saving concepts include the use of solar water heaters, natural ventilation and lighting, use of energy efficient lights, and water savings using waterless urinals or low flush toilets. Additionally, DLNR has begun to incorporate energy savings practices into design projects such as recycling existing asphalt and concrete pavement into backfill material.

DLNR evaluates the feasibility of implementing energy conservation measures when capital improvement projects are designed. As DLNR staff learns more about energy efficiency and environmental design, they will incorporate these concepts into building and facility design and renovations.

- DOA: This requirement is not applicable since the department utilizes the engineering services of the Public Works Division of DAGS and follows their guidelines and standards for designing and constructing buildings.
- DOE: The Department of Education (DOE) now designs all new buildings or facilities to meet the requirements of LEED Silver. In addition, all consultants are now required to have a LEED Accredited Professional on the project team. 'Ewa Makai Middle School, scheduled to begin construction in early 2009, will be the first DOE new school where the entire campus will be designed to meet LEED Silver certification. DOE is also designing Wailuku Elementary II and Kihei High School to comply with LEED Silver standards. Single facility projects which are being designed to LEED standards include a new gymnasium for Pāhoa High, a new classroom building at Na'alehu, a new cafeteria for Lahainaluna High, a new classroom building for Campbell High and a new administration building for Kalāheo Elementary. Although not specifically covered by Act 96, DOE is moving toward applying the requirements for LEED for existing buildings for all major renovation and upgrade projects.
- DOH: The Department of Accounting and General Services handles all capital improvement projects for the Department of Health. DOH coordinates its own small projects such as office renovations and minor improvements costing less than \$50,000. The department does not have any plans for the
construction of new buildings, however, it will design and construct for LEED Certification should funding become available.

- DOT-Airports: The Airports Division has been designing and constructing buildings and facilities with energy efficient technology for over 12 years. The Honolulu International Airport Modernization Program will incorporate sustainability goals and LEED guidelines for their projects. The new maintenance projects will implement commissioning and apply energy saving designs throughout the system. Airfield taxiway lighting system and guidance signs replacement projects have annual kWh reductions of 600,000. DOT-Air received HECO rebates of \$33,000. The division is committed to design and construct buildings and facilities with energy efficiency technology and LEED standard for the Statewide Airport System.
- DOT-Harbors: The division will: train staff on LEED methodology; require design consultants and construction contractors to be knowledgeable of and able to comply with Act 96 SLH 2006; ensure that all designs for new construction meet LEED Silver certification; and develop program milestones to encourage 100% implementation over a period of time.
- DOT-Highways: The division will require design consultants to comply with Act 96, SLH 2006 and ensure that all new designs meet LEED Silver certification.
- DOTAX: Department of Taxation (DOTAX) buildings are constructed and managed by DAGS.
- FTZ: Not applicable; FTZ does not design or construct buildings.
- HCDA: HCDA does not have plans to construct any buildings.
- HHFDC: The HHFDC Asset Management staff attended a webinar concerning actions that could be taken towards gaining LEED Certification on older buildings, conducted by IREM. The plan is attend as many training webinars and seminars as possible to bring our asset properties to the highest level of efficiency and compliance.
- HHSC: For all new construction, Hawai'i Health Systems Corporation will assess the cost of LEED building criteria. If the cost for LEED design exceeds the budget of the project, then the project will incorporate as many energy conservation measures as possible. For long range planning, HHSC will try to include LEED design costs whenever possible.
- HSPLS: The Hawai'i State Public Library System (HSPLS) has been working directly with DAGS on the new North Kohala and Mānoa Public Libraries. These new projects are trying for a LEED Silver rating. The construction contract for the new North Kohala Public Library went out to bid and was awarded to Isemoto Contracting Co., Ltd. for \$6,895,900. Construction is set to start in September 2008 and completed in late 2009. The construction contract for the new Mānoa Public Library went out to bid and was awarded to Allied Pacific Builders, Inc. This project is anticipated to start in November 2008 and be completed in mid 2010.
- HTA-CC: HTA has no plans to design or construct any buildings at this time.
- NELHA: NELHA is home to the Gateway Center, only one of eight LEED Platinum-rated buildings. This building has been the recipient of numerous international and national awards for its "greenness." Study groups from around the world are visiting it to gain knowledge and understanding of how they can implement green technologies as exemplified by this building into their designs. As yet, no Hawaiian groups come to see or visit for the same purpose except for a few very small ones led by the original architects. NELHA has not built any buildings since Gateway. NELHA is in continuing discussions with private investors to build a LEED Platinum office structure at the Gateway.
- PSD: In collaboration with DAGS-Division of Public Works, PSD is directing the consulting architects and engineers selected for the Maui CCC Relocation to Pu'unene project (DAGS Job No. 15-27-5562) to prepare construction bidding documents based upon LEED Silver or better. Consultants selected have advised PSD and DAGS that members of their staff who are LEED accredited will be assigned in various capacities to this project. Additionally, for projects to develop PSD regional complexes on O'ahu and Kaua'i as well as new transitional housing, PSD is directing planning consultants to set the basis of design at LEED Silver or better.
- UH: Systemwide, the University of Hawai'i will continue to apply the LEED rating system in all Capital Improvement Program new and major renovation projects. Sustainability guidelines are being included in the development for all campus long range development plans and project development reports. In general, the goal is for LEED Silver rating certification and, if the goal cannot be attained due to budget constraints, other sustainable design principles will be incorporated into the new or major renovation projects. The status of current projects is:

- UH Mānoa School of Medicine has been completed; LEED Certification is pending U.S. Green Building Council (USGBC) approval.
- UH Mānoa Frear Resident Housing has been completed; LEED Silver is pending USGBC approval.
- UH Mānoa Kennedy Performance Arts Facilities currently under design with goal of LEED Silver.
- UH Mānoa Campus Center Renovation and Addition currently under planning with goal of LEED Silver.
- UH Mānoa Gartley Hall Renovation currently under design with goal of LEED Silver.
- UH Mānoa New Classroom Building currently under planning with goal of LEED Silver.
- UH Mānoa Pacific Regional Biosafety Laboratory funded for design and construction with a goal of LEED Silver.
- UH Mānoa Edmondson Hall Renovation funded for design with goal of LEED Silver.
- UH West O'ahu New campus development in Kapolei currently under design and registered as a LEED project with the USGBC with goal of LEED Silver.
- UH Hilo Student Life Center has been completed; LEED Gold pending USGBC approval.
- UH Hilo Hawaiian Language Building currently under design with goal of LEED Silver.
- UH Hilo Sciences and Technology building designed and currently under construction with goal of LEED Silver.
- UH Hilo Student Services Building Addition and Renovation currently under design with goal of LEED Silver.
- Maui CC Science Facility currently under design with goal of LEED Silver.
- Kapi'olani CC Culinary Institute of the Pacific facilities at the former Cannon Club site along Diamond Head currently under design with the goal of LEED Silver.
- Leeward CC Education and Innovation Instructional Facility currently under planning and design with goal of LEED Silver.
- Windward CC Library and Learning Center facility currently under design with goal of LEED Silver.
- Honolulu CC Advanced Technology Training Center funded for design with a goal of LEED Silver.
- Systemwide Information Technology Center currently under design with goal of LEED Silver.

Act 96 SLH 2006: Buildings and Facilities

(2) Incorporate energy-efficiency measures to prevent heat gain in residential facilities up to three stories in height to provide R-19 or equivalent on roofs, R-ll or equivalent in walls, and high-performance windows to minimize heat gain and, if air conditioned, minimize cool air loss. R-value is the constant time rate resistance to heat flow through a unit area of a body induced by a unit temperature difference between the surfaces. R-values measure the thermal resistance of building envelope components such as roof and walls. The higher the R-value, the greater the resistance to heat flow. Where possible, buildings shall be oriented to maximize natural ventilation and day-lighting without heat gain and to optimize solar for water heating. This provision shall apply to new residential facilities built using any portion of state funds or located on state lands;

AG: Not applicable; DAGS handles this.

- B&F: Not applicable. The department does not oversee the design, construction or maintenance of building facilities.
- DAGS: The PWD very rarely will be involved in residential facilities; however, energy-efficiency measures to prevent heat gain can apply to any facility. These measures are already taken into design consideration. One of the rare housing projects that is currently being accomplished by the PWD is the Leeward Homeless Shelters, Villages of Mā'ili transitional housing. Solar water heaters are being installed and will produce hot water for 80 units and laundry facilities. This work is being accomplished under the Governor's Emergency Proclamation to address the homeless situation on the Leeward Coast. The strategy for PWD on these measures is finding ways to improve, starting just simply by being more aware of these energy-efficiency measures, doing better review of designs, and considering new products and technologies.
- DBEDT: DBEDT coordinated the May 2008 Build & Buy Green Conference & Expo at the Hawai'i Convention Center which was attended by about 500 people, including many from state agencies. The topics of R-19 insulation, radiant barriers, orientation, natural lighting, and natural ventilation were discussed at length.

DBEDT staff met with DHHL to incorporate Hawai'i BuiltGreen[™] requirements into DHHL's request for proposals for new housing developments on O'ahu and other islands that include the above provisions for new residences.

DBEDT provided DOE with the results of a pilot project, in which DBEDT participated, which tested different passive cooling strategies at Waipahu High School. DOE will consider the least costly of the alternatives—painting the roofs and walls of portable classrooms with heat-reflective coatings. This strategy should lower interior temperatures by as much as 10 degrees, either eliminating or alleviating the need for air conditioning.

DCCA: DCCA buildings are maintained by DAGS.

DHHL: DHHL will continue to promote, design and build new affordable homes using the Hawai'i BuiltGreen[™] and Energy Star® programs to ensure the designing and building of new energy and resource efficient homes in Hawai'i.

DHRD: Not applicable. The department does not own or operate residential facilities.

DHS: As applicable, DHS will continue to coordinate these activities with DAGS to effect energy efficient measures.

- DLIR: DLIR does not manage, own, or construct residential facilities or buildings. All facilities occupied by DLIR are constructed and managed by DAGS or in private building leases promulgated by DAGS Leasing Branch. DLIR will work with DAGS to incorporate energy efficient measures into building facilities occupied by DLIR.
- DLNR: DLNR does not have any residential facilities in its building inventory.

DOA: Not applicable since the department does not have any residential facilities.

DOE: DOE designs all roofs on new facilities to meet the R-19 or equivalent insulation standard. DOE also installs additional insulation when re-roofing older roofs to meet the R-19 standard or equivalent insulation standard where feasible. New schools are planned to meet LEED Silver requirements which should incorporate the use of insulation, orientation of buildings to maximize natural ventilation, use of daylighting, and possible implementation of solar water heating. DOE designs all new facilities to meet the R-11 or equivalent insulation standard but does not retrofit walls of existing buildings.

Schools being retrofitted for large air conditioning systems for multiple classrooms will be retrofitted with insulation and energy efficient windows to minimize heat gain and cool air loss where feasible. In addition, DOE has begun a number of pilot projects to look into the feasibility of various heat abatement strategies other than air conditioning. These include a heat abatement pilot at Kahuku High that looks at various options to cool portable classrooms, and a pilot involving possible heat abatement strategies at 'Ewa Beach Elementary.

- DOH: Not applicable. The Department has no residential facilities except for historic homes at Kalaupapa Settlement. These buildings are being restored to their original condition by the National Park Service.
- DOT-Airports: Not applicable at this time. DOT-Airports will apply this requirement if the division builds or funds any new construction or renovation to residential facilities. The Noise Attenuation Project in Hilo where homes are partially renovated has installed R-12.25 wall insulation and R-12.25 with R-38.4 attic insulation. The R value provided high heat resistance and sound insulation per requirements of FAA regulations.

DOT-Harbors: Not applicable to Harbors. Residential facilities are not within Harbors' scope of responsibilities.

DOT-Highways: Not applicable to the Highways Division.

DOTAX: DOTAX buildings are constructed and managed by DAGS.

FTZ: Not applicable; FTZ does not manage any residential facilities.

HCDA: HCDA has not constructed any residential buildings under three stories.

- HHFDC: HHFDC has three high rise buildings: One building is completing major renovations and one more building is scheduled for major renovation to start in August 2008. Whenever possible and architecturally and economically feasible, the R-value is being checked and increased. When not renewing the entire membrane roof material, a seal coating with a more reflective color is being applied. HHFDC has six two-story complexes that are being surveyed for proper attic insulation and ventilation. As appropriate, the result will be addressed.
- HHSC: When any renovations to existing residential facilities are planned, HHSC will incorporate energy efficiency measures to prevent heat gain whenever possible.
- HSPLS: Not applicable; HSPLS has no residential facilities.

HTA-CC: HTA has not constructed, nor does it intend to construct any residential buildings under three stories.

NELHA: NELHA does not have any residential assets. NELHA is prohibited from having residential structures on its lands.

- PSD: PSD obtained a \$500,000 G. O. Bond authorization (7/1/2007) from the 2007 Legislative Session for energy efficiency projects. It intends to conduct an energy efficiency assessment of all PSD facilities owned or leased by the department statewide. The DAGS/PSD consultant selection committee has recently recommended selecting InSynergy, Inc. to perform the aforementioned energy efficiencies assessments. Upon receipt of the planning "Notice-to-Proceed" (expected by 1/1/2009), the consultant will be tasked with completion of the assessments within 4 to 6 months. The majority of the subsequent efforts will be retrocommissioning. The initial assessment will provide retrocommissioning projects' scope[s] of work, estimate of probable costs, duration to complete retrofitting and project priority.
- UH: UH Mānoa Existing resident halls are not air conditioned. The new Frear Resident Housing recently completed includes air conditioning with individual unit controls to minimize energy consumption; building designed with long walls facing north and south, walls insulated, specified insulated glazing with low-e coating to minimize heat gain, and specified operable windows to minimize use of air conditioning. UH Hilo Existing resident halls are not air conditioned. Maui CC Existing resident halls are not air conditioned.

Systemwide, the University of Hawai'i will continue to apply the LEED rating system in all Capital Improvement Program new and major renovation projects. The design principles for energy-efficiency measures to prevent heat gain will be incorporated into the building to the extent possible.

Act 96 SLH 2006: Buildings and Facilities

(3) Install solar water heating systems where it is cost-effective, based on a comparative analysis to determine the cost-benefit of using a conventional water heating system or a solar water heating system. The analysis shall be based on the projected life cycle costs to purchase and operate the water heating system. If the life cycle analysis is positive, the facility shall incorporate solar water heating. If water heating entirely by solar is not cost-effective, the analysis shall evaluate the life cycle, cost-benefit of solar water heating for preheating water. If a multi-story building is centrally air conditioned, heat recovery shall be employed as the primary water heating system. Single family residential clients of the department of Hawaiian home lands and any agency or program that can take advantage of utility rebates shall be exempted from the requirements of this paragraph so they may continue to qualify for utility rebates for solar water heating;

AG: Not applicable; DAGS handles this.

- B&F: Not applicable. The department does not oversee the design, construction or maintenance of building facilities.
- DAGS: Typical DAGS-managed State Office Buildings do not utilize enough hot water to make installation of solar water heating systems cost-effective. The DAGS overall strategy is to continue encouraging our "clients" (other state agencies that seek technical support and assistance from DAGS) to consider using solar water heating systems in their projects, whenever feasible or advantageous to the state.
- DBEDT: DBEDT coordinated the 2008 Build & Buy Green Conference & Expo at the Hawai'i Convention Center which was attended by approximately 500 people, with many from state agencies. Solar water heating, life-cycle cost analysis, and heat recovery technologies were discussed at length.
 - DBEDT provided DHHL with brochures and other information on renewable energy, solar water heating, sustainable residential building design, and energy conservation at home to distribute to DHHL's clients and to implement on DHHL projects.

DBEDT prepared a life-cycle cost benefit analysis of four water heating technologies for the County of Kaua'i. Solar water heating achieved the least costly life cycle rating.

- DCCA: Not applicable; DCCA does not use hot water.
- DHHL: DHHL will continue to encourage beneficiaries to take advantage of utility rebates to install solar water heating systems. DHHL will identify efficient and conservation retrofit applications and develop a plan to assist the homesteaders to retrofit their homes (including solar water heater system, insulation/radiant barriers, low-heating systems, low-flow toilet and shower heads, Energy Star® appliances, etc).
- DHRD: Not applicable. The department does not own or operate any buildings or facilities.
- DHS: As applicable, DHS will continue to coordinate these activities with DAGS to maximize energy efficiency and cost effectiveness.
- DLIR: DLIR does not manage, own, or construct residential facilities or buildings. All facilities occupied by DLIR are constructed and managed by DAGS or in private building leases promulgated by DAGS Leasing Branch. DLIR will work with DAGS to incorporate solar powered systems to improve the energy efficient measures in building facilities occupied by DLIR.
- DLNR: DLNR's facility portfolio is limited. Most of buildings owned by DLNR are composed of base yards, harbor facilities and park restrooms. DLNR incorporates energy saving concepts into all of its owned facilities as appropriate. Energy-saving concepts include the use of solar water heaters. DLNR evaluates the feasibility of implementing energy conservation measures such as use of solar water heaters when capital improvement projects are designed. As DLNR staff learns more about energy efficiency and solar water heating design, they will incorporate these concepts into building and facility design and renovations.

Kaho'olawe Island Reserve Commission (KIRC): To reduce the electrical demands on Kaho'olawe, KIRC has converted two of its four residential water heaters on Kaho'olawe to solar power. KIRC is planning to convert the remaining water heaters and be fully solar-powered for hot water by the next fiscal year.

- DOA: May not be applicable since very few HDOA facilities have a need for water heating systems, however, as part of our retro-commissioning projects we will review the cost-benefit of converting to a solar water heating system.
- DOE: DOE school cafeteria kitchens use gas water heaters and boilers. This reduces the opportunities for savings by replacing existing systems with solar water heating. However, upon replacement of the existing water heating system, DOE will analyze the life cycle cost for solar water heating system.
- DOH: The Department will strive to install solar water heating systems in its new buildings or retrofits. Presently, there are no plans to change any water heating systems at any of the health centers. An assessment will be done when a project of this nature is initiated to determine if the water heating system being changed can be converted to a solar system.
- DOT-Airports: Not applicable at this time. DOT-Airports will apply this requirement if we build or fund any new construction or renovation to residential facilities.
- DOT-Harbors: There is minimum need for hot water in the commercial harbor system. Therefore, this requirement is not applicable to the Harbors Division.
- DOT-Highways: The Highways Division will perform life cycle cost analysis when replacing water heating systems. The division's Kaua'i District Office has installed an "on-demand" propane water heating system.
- DOTAX: DOTAX buildings are constructed and managed by DAGS.
- FTZ: Not applicable; FTZ does not have a water heating system for its facility.
- HCDA: HCDA does not own any buildings where it has decision making responsibility over the heated water system.
- HHFDC: Solar water heating panels are installed on one of our Big Island projects, La'ilani in the Kailua-Kona area. Presently, we are replacing units that have begun leaking. Of the 200 units available, approximately 10 % have been replaced.

Solar water heating is not an option at all properties. To maximize the efficiency that can be gained it is important that there be sufficient storage capacity for use at a later time. Replacement of already installed solar panels does not qualify for rebates. A survey will be conducted of the remaining outer island and O'ahu -based low-rise projects as to the suitability of installing solar water heating panels.

All three of HHFDC's high rise buildings have central air conditioning for the commercial tenants only. Presently, one, Pohulani Elderly, is being studied for a/c plant replacement and heat recovery is being considered.

HHSC: HHSC shall evaluate the benefit of solar water heating for their facilities whenever improvements are planned or funded.

HSPLS: Not applicable.

- HTA-CC: HTA has reviewed with the Hawai'i Convention Center management its existing hot water systems to see if solar hot water could be added. Based on the limited frequency the hot water is needed and the large quantities that are needed on short notice during those periods of time, solar hot water isn't practical for their application. There would be no cost savings, only added cost.
- NELHA: NELHA installed solar water heating systems many years ago. NELHA has also air conditioned all of its buildings for many years using cold deep seawater. NELHA is the world leader in implementing this strategy, which has been neglected by other agencies and private businesses in Hawai'i that prefer to use electricity for air conditioning requirements. The current estimate is that for four relatively small buildings, the use of seawater air conditioning saves \$20,000 \$25,000 per month in electricity expense. In the past year, NELHA and the Kona International Airport have been in discussion about NELHA providing the airport with "cold" when its new enclosed terminals are opened in several years. The architects and engineers working on that project recognize the tremendous cost savings that can be garnered through use of this strategy.
- PSD: With the collaboration of DAGS-Division of Public Works, the department intends to "piggyback" onto DAGS' Lead by Example projects, such as retrocommissioning and retrofitting. As mentioned earlier and throughout this FY 2008 PSD report, the department intends to survey all PSD facilities statewide, owned and/or leased, to identify opportunities that shall yield energy savings, optimize the usage of sustainable materials and replace/upgrade operating systems that result in measurable savings as called for in Act 96.

As mentioned in §2 above, a planning consultant has been selected. PSD anticipates needs assessment actions should be underway by January 2009 and retro-commissioning actions

commencing between 1st and 2nd quarter of FY 2010. Projects will be implemented via a prioritized matrix to be developed by InSynergy.

PSD and DAGS, as expending agency, are striving to pursue the assessment actions on an expedited tract; however, PSD believes that the care with which the initial assessment actions are done will ultimately lead to "streamlining" all subsequent implementation actions that follow.

UH: UH Mānoa – Frear Resident Hall completed with a hot water system utilizing a heat recovery system. UH Hilo – The Student Life Center completed with a heat pump system for hot water heating. CC – No new installation of hot water system. Systemwide, the University of Hawai'i will continue to apply the LEED rating system in all Capital Improvement Program new and major renovation projects. The design principles for solar water heating systems where it is cost effective will be incorporated into the building to the extent possible.

Act 96 SLH 2006: Buildings and Facilities

- (4) Implement water and energy efficiency practices in operations to reduce waste and increase conservation;
- AG: All departmental staff have been provided tips on energy efficient practices and information on the benefits of energy efficiency. With the assistance of DAGS, signs have been posted to remind staff to turn off computers, lights, and other equipment when exiting. Water leaks are to be reported to the Administrative Services Office immediately, including sprinkler systems and outdoor faucets.
- B&F: The department encourages employees to initiate and implement energy efficient practices (i.e. turning off office lights when not in use or when leaving for the day, turning off computer terminals at the end of the day, distributing Energy Star® saving tips, etc.). The department stresses the importance of energy saving efforts initiated by DAGS.
- DAGS: As funding has become available, the department has initiated various energy conservation/efficiency projects for DAGS facilities statewide. The projects are in various stages of design and construction. These projects include: the replacement of aging air conditioning and elevator equipment; retrofitting with energy efficient electronic ballasts and super T-8 lamps; the installation of light sensor switches; and the installation of protective tinting on building windows to reduce heat gain.

A major pilot project that was initiated in FY 2008 is the Central Services Division Photovoltaic (PV) System. A Request for Proposals was solicited to provide PV/solar power via a Power Purchase Agreement (PPA). The power provider, through a PPA, would design, install, operate, maintain and sell power to the state at a rate that is anticipated to be lower than the HECO rate and the PV system would also reduce the consumption of energy generated by fossil fuels. Proposals were received and we are currently under negotiations.

The landscape irrigation system at the Kalanimoku Building has been replaced with a system that incorporates rain sensors and a sub-meter as water conservation measures.

During fiscal year '08, eleven pilot retrocommissioning projects have been initiated on O'ahu, Hawai'i, Maui and Kaua'i to develop strategies that would result in energy savings. Some projects have completed the investigation phases and implemented minor repairs. Other recommended work will need to be included in future CIP budget requests.

In addition to DAGS facilities, DAGS Central Services Division and PWD has worked with the Hawai'i State Public Library System (HSPLS) in implementing energy efficiency practices. Projects being accomplished by DAGS for the HSPLS include retrofitting with energy efficient electronic ballast and super T-8 lamps. In FY 2008, twelve libraries throughout the state were bid out for the retrofits and/or accomplished by DAGS in-house crews. DAGS currently has 21 library lighting retrofit projects under design in which are expected to be bid and constructed in FY 2009.

DAGS, on behalf of the HSPLS, also plans to implement retrocommissioning on all libraries statewide during FY 2009 subject to available funding. Qualifications from interested retrocommissioning consultants have been solicited and are currently pending selection for the various projects.

Other departmental initiatives to save water and electricity include:

- The Kakuhihewa Building in Kapolei uses non potable water for landscape irrigation.
- Low-flow plumbing fixtures are specified for new construction and renovation projects. Existing fixtures are being replaced with low-flow fixtures as replacement is required. Some ultra-low flow urinals (one pint per flush) have been installed to examine how well they work and future installations will be completed as funding becomes available.
- Sensor-type flush valves and faucets have been installed and future installations will be completed as funding becomes available.
- DAGS has recently completed a project to install a non-chemical filter system for the A/C System at the State Capitol Building. This is be the first of this type of system installed at a DAGS managed facility and should decrease domestic water usage and also provides the option of using the water for other non-potable ways.
- DBEDT: DBEDT coordinated the 2008 Build & Buy Green Conference & Expo at the Hawai'i Convention Center, attended by many from state agencies. Water and energy efficiency practices were discussed at

length as a means of achieving LEED Silver and Hawai'i BuiltGreen[™] 3-Star Level. Hawai'i BuiltGreen[™] is a program of the Hawai'i Building Industry Association, a non-profit trade organization representing building developers, builders, suppliers and associates.

DBEDT developed documents, spreadsheets and other material to assist DAGS and other agencies with prioritizing energy conservation measures related to the building envelope, air conditioning, lighting, motors and other energy systems.

DBEDT staff are on the Building Owners and Managers Association of Hawai'i (BOMA) Energy Committee and participated in BOMA's Sustainability Week and Sustainability Summit in May 2008. DBEDT staff also developed a Green Office and Retail Checklist and Greening Tips for State of Hawai'i and private sector entities to promote and to implement water and energy efficiency practices to increase conservation and reduce waste.

DBEDT continued to meet with the Board of Water Supply (BWS) on water-saving technologies that might be used in BWS' on-going water efficiency program.

DBEDT convened the Lead By Example initiative's Leadership Working Group to brief over 20 agency and departmental managers about energy and resource efficiency topics.

DBEDT, with assistance of a consultant, Envirospec/Green Purchasing Institute, initiated a Green Cleaning Products pilot testing program for selected K-12 schools and the University of Hawai'i with the goal of expanding use throughout state facilities. One benefit of green cleaning products includes using concentrated products which require less energy to transport, and which use less water. Green cleaning products which are made of environmentally preferable materials sometimes require less water rinsing due to their reduced toxicity.

- DCCA: Continued the practice of using water saving fixtures throughout the building. The building has a lighting system that utilizes motion sensors. All exterior bulbs have been replaced with compact fluorescents. DCCA has reviewed cost and consumption data for air conditioning usage and will implement a plan to reduce the air conditioning consumption where appropriate. The department implemented a schedule whereby the landscape is watered during the evening hours and only for 10 minutes. DCCA distributed a memorandum from DAGS outlining conservation actions. The department also solicited additional suggestions for conservation from staff; upon completion of review, DCCA will implement measures that are feasible.
- DHHL: As indicated in item #3, above, every effort will be made to comply with the water and energy efficiency practices in operations to reduce waste and increase conservation.
- DHRD: The department encourages all employees to implement energy conservation practices. Examples include turning off the lights in the restrooms and hallways at the end of the day; turning off copier machines and computers rather than leaving the equipment on sleep mode; using the stairs; and turning off office lights when going to meetings. In May, DAGS implemented the following energy reduction initiatives for the Leiopapa A Kamehameha building, which this department occupies: (a) adjusted the starting time for the building air conditioning system so that it turns on an hour later, and (b) conducted preliminary assessments for a retrocommissioning project.
- DHS: DHS continues to issue water and energy conservation procedures for buildings and offices, in coordination with procedures issued by DAGS.
- DLIR: An assessment of electricity usage was completed for nine of the DLIR offices that are not maintained by DAGS Central Services. The assessment of the nine offices covered the period July 1, 2005 through June 30, 2008. Based on the review, nine offices utilized a total of 905,325 kilowatt hours resulting in a total cost of \$270,521.52. Based on the energy usage, DLIR will work with DAGS to insure that best energy saving practices are incorporated into reminder memoranda as required to address energy conservation. DLIR will also work with DAGS to incorporate some of the following energy saving measures:
 - Replace old toilets and sinks with low flow fixtures (toilets and sinks),
 - Replace old lighting fixtures,
 - Request that DAGS Leasing Branch conduct energy efficiency analyses in privately-leased buildings and work with landlords to replace old toilets, sinks, air conditioners, and lights.
- DLNR: The department installs low-flow fixtures (toilets and sink faucets) to replace older fixtures, which use more water, as department facilities are renovated. Additionally, some remote restrooms use composting toilets, which require very little water. The department has installed waterless urinals in some boat harbor improvements. Additionally, the Commission on Water Resource Management (CWRM) recently received a donation of low-flush toilets from the Board of Water Supply. CWRM

provided this donation to DLNR Engineering Division to replace any damaged units which will allow DLNR facilities to continue to increase water efficiency.

Staff are reminded to turn off equipment when not in use, keep blinds closed, and report equipment malfunctions. Energy efficient light bulbs are used where feasible and timed sensors have been installed to allow automatic shutoff of lights. Additionally, natural ventilation and lighting are used in most comfort stations. When purchasing new equipment the department tries to purchase energy efficient machines when available, such as energy efficient copiers, etc. The department also tries to remind staff to turn off computers and other appliances that are not in use, or at the end of the day.

Kaho'olawe Island Reserve Commission (KIRC): KIRC is planning to implement an energy conservation demonstration project by remodeling one of its six berthing facilities to reduce energy consumption. Through improved ventilation and innovative design features, KIRC hopes to improve the building's natural air circulation, improve shielding from the hot, desert-like conditions of Kaho'olawe thus reducing cooling cost significantly. If this project is successful, plans will then be developed to convert all remaining berthing facilities to this new design and significantly reduce energy requirements and cost.

Kaho'olawe presents a unique opportunity for alternatives to reduce energy consumption due in part to the island's small population and isolation. Additionally, because of the island's unique status as a cultural and environmental preserve, the use of alternative water systems and energy resources is believed to be most appropriate and necessary. As part of KIRC's mandated requirements under HRS 6-K, the restoration program brings 15 to 20 volunteers, adults and students, to the island on Mondays to assist in planting native plants as part of the restoration program. The students normally leave Kaho'olawe on Thursday afternoon. To achieve the conservation of water and energy, KIRC recaptures all the water from the shower facilities. The Reverse Osmosis system produces about 1,500 gallons per day of fresh water, which is more than adequate for the demand.

There are no harbor facilities on Kaho'olawe, in the past the majority of equipment, personnel and supplies have been transported by helicopter. Recently, KIRC has obtained and is operating a 40-foot landing craft that is now transporting the majority of its personnel, equipment and materials. KIRC has significantly reduced fossil fuel usage by shifting to ocean transport verses helicopter.

Additionally, the 11-acre base camp on Kaho'olawe is not connected to the utility grid and operates with diesel generators. One of the steps recently taken was to install a more energy-efficient generator, which reduced diesel usage from 150 gallons per day to 75 gallons per day. As further energy savings projects are implemented, the energy requirements on Kaho'olawe will decrease, at which time KIRC is planning to replace the current diesel generator with an even smaller unit that will further reduce diesel fuel usage.

DOA: DOA continued to identify energy efficiency projects and related costs. The department delegated \$80,000 in general obligation bond funds to DAGS to initiate retrocommissioning study of departmental facilities. Budget requests for funding to implement specific energy efficiency projects for FY09 were submitted. The legislature appropriated \$50,000 in general obligation bond funds in FY09 in the capital improvements project budget for one energy efficiency project.

The department continued to retrieve information electronically on gas consumption and odometer readings from DAGS Automotive Management Division, Tesoro and Hawai'i Petroleum. DOA continues to use a vehicle refueling log for programs that have vehicles which refuel at places other than DAGS, Tesoro and Hawai'i Petroleum. DOA continued to retrieve information electronically on gas consumption and odometer readings for each vehicle from DAGS Automotive Management Division, Tesoro and Hawai'i Petroleum.

DOA monitored and compiled kWh consumption data and cost for electricity for FY08. The department distributed DAGS' memo requesting employees to conserve energy and to report any water waste from open faucets, leaky plumbing fixtures, and broken and/or inefficiently run irrigation systems. DOA developed a spreadsheet to compare FY08 data to FY05, FY06, and FY07 on electricity kWh consumption and percentage increase/decrease from previous year, and distributed it to program managers for their review and information.

DOE: DOE has developed an internal system that enables the comprehensive managing of all utilities – electricity, water, sewage disposal, and gas – for all schools through a central office. As of March 1, 2007, the payment for all utilities was centralized into one office. The department is now able to

monitor utility use by schools, specifically identifying schools with higher than anticipated consumption.

DOE implemented a school energy conservation program on July 1, 2007. DOE has calculated the "unadjusted" allocation of kilowatt hours (kWh) for all schools using the average electricity consumption in the 36 months through June 2006 as a base. Beginning this school year, schools that reduce their consumption below the allocated amount will receive half the value of the savings; schools that fail to reduce their consumption below the allocated amount. The state office will bear the risk of increases (and benefit from any reductions) in electricity rates. We will reconcile the school kWh usage against the allocation twice a year, in January for the preceding July through December, and in July for the preceding January through June. Schools earning a rebate will receive those funds via an allocation from the electricity funds and will be able to use those funds at their discretion. Schools requiring a charge back will receive a bill for collection from the Auxiliary Services Branch.

Immediate steps for conservation programs continue and are listed as follows:

- Continue with implementation of LEED Silver for new and major construction projects. Training for LEED New Construction has been completed by key DOE personnel. Supplemental training is required on "LEED for Schools" guidelines just recently released by US Green Building Council.
- Continue with installation of low-flow bathroom fixtures whenever fixtures require replacement.
- All incandescent lamps are being replaced with compact fluorescent lamps (CFL).
- A study for measuring the effectiveness of motion (occupancy) detectors for controlling classroom lighting has been completed. Future Energy Service Company (ESCO) work will include motion/occupancy detection switches for classroom lighting.
- Life Cycle Costs Analysis (LCCA) will be performed on school equipment and operations.
- LCCA results will be used to determine product selection for ESCO, Performance Contracting, Municipal Leasing, and/or Purchase Power Agreement activities.
- Continue meetings with vendors seeking new energy conserving technologies. Continuation with pilot (test) studies of new promising technologies.
- Establishment of an Energy and Water Conservation "Steering Committee" or "Task Force" within the School Facilities and Support Services to expedite and streamline multiple conservation activities between branches and within the DOE as a whole.
- Open discussion with the Board of Water Supply to seek innovation water conservation concepts, projects, and/or studies such as Irrigation Management Control System, plant species, drip irrigation, and captured rainwater.
- Install an electrical submeter all new facilities.

Immediate steps for school conservation are listed below: Electricity:

- Set air conditioning so that the room temperature is 76 degrees.
- Do not turn on any air conditioning until 7:00 a.m. or (if the air conditioning unit is turned on and off manually) until the room temperature reaches 74 degrees, which ever comes later, and turn off all air conditioning no later than 4:30 p.m.
- Use timers to turn off 75 percent of night lights between the hours of 10:00 p.m. and 6:00 a.m.
- By June 15, 2009, replace all appliances (refrigerators, microwave ovens, toasters, coffee makers, rice cookers, etc.) in classrooms and offices with Energy Star®-rated appliances. Personal appliances should be limited to no more than one of each on each floor of a building. All other personal appliances shall be removed by December 31, 2008.
- Purchase or lease only Energy Star®-rated computers, copiers, printers, and servers.

• Turn off computers, printers, and copiers at the end of the day.

Water:

- All schools and offices shall cut back on water usage by at least 10 percent. Water lawns early in the morning or late in the afternoon or evening.
- Timers on automatic sprinklers should be adjusted to water the lawns on Sundays, Tuesdays, and Thursdays, either before 9:00 a.m. or after 5:00 p.m.

- Manually water lawns on Mondays, Wednesdays, and Fridays, either before 9:00 a.m. or after 5:00 p.m.
- Car wash fundraisers should be curtailed.
- Flooding water beds or shooting down lanai areas is highly discouraged.
- DOH: The department encourages its employees to be energy efficient. Employees have been advised to conserve energy thru routine emails and signs posted in the building. There is music playing in the stairwells to encourage employees to use the stairs to conserve energy and improve their health.
- DOT-Airports: The Airports Division must try to minimize water usage, but must also be mindful of the time constraints on passengers. The airport is exempt from rules on low-flush toilets to accommodate high use and passenger time restrictions, but implements sensors for toilet flushing and sink use to keep from wasting water. The Airports Division utilizes R-1 water where possible and non-potable water for landscape irrigation. As an example, Kona International Airport at Keāhole uses the effluent from their Wastewater Treatment Plant for irrigation, while Honolulu International Airport uses non-potable water from the Sumida Watercress Farm for irrigation. At Honolulu International Airport and Dillingham Airfield, the Airport has a contract with an outside firm to provide monitoring of the water system so leaks can be found and repaired quickly to keep from wasting water. Meters are also read and checked against prior usage to see if there is a spike in water usage, which may indicate a problem.

The airports must also try to conserve energy usage, but must also be mindful of the comfort level of the passengers and workers. At Honolulu International Airport, there is an Energy Monitoring and Control System to turn off lights in areas that are not in use and reduce or eliminate air conditioning in these same areas. Current projects at Honolulu International Airport include the elimination of older, less efficient chillers with new chillers and a chilled water loop system which will enable chillers to be shut down during low utilization periods and to operate on fewer chillers, but at a higher efficiency. At Kona International Airport at Keāhole, plans are continuing for the use of cold "deep sea" water for chilled water for cooling enclosed areas, and installing a new parking deck covered with photovoltaic cells to provide the airport with its current energy needs.

DOT-Harbors: Water efficiency:

- Install, where practical, low flow toilets, low flow shower heads, and faucet aerators.
- Install timers or require staff to conduct irrigation and watering of plants during early morning or evenings to reduce water lost to evaporation.

• Develop program milestones to encourage 100% implementation over a period of time. Energy efficiency:

- Install timers onto HVAC and/or motion detectors onto lighting systems and other equipment as appropriate.
- Install tinting to windows and glass doors as appropriate.
- Monitor lighting levels and use natural window/skylight lighting if sufficient.
- Turn off lights in room not in use.
- Installed a more energy efficient a/c unit for the Harbors Division Administration building.
- Develop program milestones to encourage reduction of energy consumption over a period of time.

DOT-Highways: Water Efficiency –Design new xeriscape landscaping where possible. Energy Efficiency –The Highways Division continues to install energy efficient traffic signal lamps in new installations or when traffic signals are modified, and has programmed the replacement of computer equipment with Energy Star® compliant equipment.

DOTAX: DOTAX buildings are constructed and managed by DAGS.

FTZ: FTZ had two forty-ton chiller units installed about five years ago and one fifty-ton chiller unit installed two years ago. The chiller units were purchased and installed based on a 2001 Energy Feasibility Study of the Foreign-Trade Zone No. 9 prepared by Global Engineering & Construction, LLC. Approximately 40 new individual air conditioning units with high efficiency motors were purchased and installed last year, also based on the 2001 study. FTZ uses T8 fluorescent lights in its administrative and tenants' offices.

FTZ had Mr. Howard Wiig, an Institutional Energy Analyst from DBEDT's Strategic Industries Division brief FTZ staff on energy efficiency, specifically in the areas of lighting and HVAC. As

result, FTZ completed a photometric survey before installing a new perimeter lighting system. This eliminated five 400W metal halide fixtures which will provide substantial savings.

FTZ had a lighting specialist, Sterling Nakano, discuss with staff the options for replacing the incandescent light bulbs in the warehouse with energy efficient CFL bulbs. FTZ is taking steps to replace the 300W bulbs with much more energy efficient CFL bulbs. This project should be completed by the end of 2008.

- HCDA: HCDA has installed moisture sensors on irrigation system in Kaka'ako Waterfront and Kaka'ako Makai Gateway Parks and contracted for Kewalo Basin Park to conserve water.
- HHFDC: All property managers have been notified of water restriction hours and the number of days that green belt areas can be watered. This process is monitored with the use of Board of Water monthly figures. Each spike up or down is accounted for. Additionally, all properties are being inventoried for the need and installation of sub-meters. This should eliminate paying for run-off water that goes into the ground and down the storm drains and not back to the treatment plants.
- HHSC: HHSC facilities are replacing existing water closets with low-flush water closets whenever possible. HHSC is also considering installation of non-chemical water treatment devices on the cooling towers to help reduce water usage.
- HSPLS: HSPLS has replaced the aging air conditioning systems at Mililani and Salt Lake-Moanalua Public Libraries to improve operating and energy efficiency in FY08. HSPLS has executed contracts through DAGS to retrofit lighting fixtures at all 51 public libraries, statewide. These fixtures are being replaced with energy efficient electronic ballasts and super T-8 lamps.
- HTA-CC: Water conservation practices continue to be in place at the Hawai'i Convention Center. HTA continues to look into other methods including rain catchment. Additionally, new super T-8 retrofits and replacement bulb and ballast packages have been installed in the exhibition halls, ballroom, administrative areas and the fire stairwells.
- NELHA: NELHA uses seawater air conditioning wherever practicable, even in pump station control rooms. The cost of installing such equipment, most of which is built in NELHA's own shops, is negligible compared to the savings it can generate. NELHA uses timed irrigation systems, produces much of its own drinking water, and turns off lights when nobody is in a room. Computers are shut down when not in active use. In some areas, seawater instead of potable water is used to irrigate grass areas.

To the extent practicable, NELHA uses a flexible work week schedule -4x10's for the water quality control laboratory and a similar schedule for CEROS employees. This has greatly reduced employee fatigue and helped to generate energy savings in terms of motor vehicle fuel for the island. NELHA would definitely be capable of introducing even more flexible hours for approximately onehalf of the staff.

NELHA's average monthly HELCO electrical bill is about \$138,000. The only items in that bill over which NELHA has control are lights, computers, and a/c in its own buildings. All other electricity is used to pump and distribute seawater to the commercial tenants at NELHA, and NELHA has no control over their usage, which results in demand charges since use of water is unrestricted. NELHA can influence only about \$20,000 per month of the total energy consumption at the facility. The practices NELHA instituted years ago and still follows include: turning off bathroom lights when the room is not in use, turning off office lights during the lunch hour and whenever outside light is adequate, turning off computers when not in use, operating the Gateway buildings without inside lighting and relying on ambient outside light to the greatest possible extent.

- PSD: PSD will collaborate with DAGS-Division of Public Works to contract for the retrocommissioning of Public Safety facilities, statewide. This is a process to verify whether or not the building environment is operating properly and where "sick" buildings are discovered, it is the process of providing fixes for them to create a better environment. Additionally, the department will request DAGS to scope opportunities for retrofitting various systems, such as lighting, to reduce the levels of energy consumption. Finally, as funding allows, a survey will be conducted to evaluate energy savings opportunities and strategies to implement same via widely used alternative financing strategies.
- UH: Systemwide Energy and water-efficient retrofits in routine renovations are applied where feasible. Windward CC – sub-metering all buildings, air conditioning, and irrigation to obtain lower operating costs. Kapi'olani, Leeward, and Honolulu CCs – planning sub-metering of air conditioning and irrigation units to obtain lower operating costs. Maui CC – new renovated Student Center Building includes waterless urinals. Waterless urinals are being incorporated into the design of the Nursing Portables and new Science Building projects.

Systemwide, the University of Hawai'i will continue to implement water conservation and energy efficiency practices in operations through its repairs and maintenance programs.

Act 96 SLH 2006: Buildings and Facilities

- (5) Incorporate principles of waste minimization and pollution prevention, such as reducing, revising, and recycling as a standard operating practice in programs, including programs for waste management in construction and demolition projects and office paper and packaging recycling programs;
- AG: All purchasing staff have been advised to first consider recycled materials, especially paper, when reviewing and processing purchase requisitions. AG offices continue to utilize the recycle bins in the copier rooms and within each division boxes are provided for recycling paper. Staff have also been trained to save and transmit documents electronically, whenever possible.

B&F: The department participates in an office paper recycling program whenever possible.

- DAGS: Recycling programs for office paper and cardboard for 13 major state office buildings serviced by the department are in place. An informal program for recycling aluminum cans, glass and plastic bottles exists in each facility. These items are usually recycled by the custodial staff and/or building occupants. Also, reverse vending machines have been installed at the State Capitol by Reynolds Recycling as a pilot project. These machines allow individuals to redeem aluminum cans, glass and plastic bottles for cash. During this fiscal year, the recycling effort will be expanded to include the recycling of discarded computers, office equipment and furniture.
- DBEDT: DBEDT coordinated the 2008 Build & Buy Green Conference & Expo at the Hawai'i Convention Center, attended by many from state agencies. Build It LEED from the Cascadia USGBC Chapter was presented during one of the breakout session tracks on Construction, and demolition waste management and pollution prevention practices were discussed at length as a means of achieving LEED Silver and Hawai'i BuiltGreen[™] 3-Star Level.

GBS has met with and provided technical assistance to DAGS on model Construction Waste Management Specifications for use on State of Hawai'i projects.

DBEDT's agreement with Envirospec supported a green cleaning pilot project with State of Hawai'i agencies. Using green cleaning products reduces the volume of toxic chemicals entering the wastewater stream as well as the amount of volatile organic compounds and other toxic chemicals that may be released during the cleaning process. Green cleaning products are often packaged in easy-to-recycle and re-use containers. The pilot sites for this project were coordinated and selected with the Department of Education and the University of Hawai'i.

DBEDT, with others, recommended to DAGS that cardboard be included as a resource to be separated and recycled. The suggestion was implemented.

DBEDT introduced to DAGS an extremely fast-acting and energy efficient electric hand dryer which would eliminate the need for paper hand towels. Although that particular technology was not used, DAGS did later install electric hand dryers in state rest rooms.

The DOT Harbors Division utilized a marine debris recycling bin to recycle marine debris found on DOT-Harbors property. The bin was installed by a Marine Debris Task Force that includes DBEDT.

DBEDT convened the Lead By Example initiative's Environmentally Preferable Purchasing (EPP) Working Group to brief agency and departmental managers about how 'green purchasing' helps minimize waste and offers cost, energy, and resource efficiency benefits. DBEDT staff are working with the State Procurement Office to add more EPP products to the procurement list.

- DCCA: DCCA sent a reminder memorandum to departmental staff regarding energy and water conservation, and recycling. The department encouraged the use of recycled paper and placed blue recycle bins in the building to facilitate recycling. Recycled paper is picked up weekly by Island Recycling, contracted through DAGS.
- DHHL: DHHL will continue to encourage staff to recycle office paper and other recyclables when possible. DHHL plans to develop a comprehensive strategic plan for the protection, restoration, and preservation of our lands and facilities.
- DHRD: The department participates in the office paper and telephone book recycling program coordinated by DAGS and also recycles used printer cartridges.
- DHS: DHS continues to implement waste minimization and recycling procedures, consulting with the appropriate agencies such as DAGS and DOH.

- DLIR: In FY08, DLIR received an Environmental Preferable Purchasing (EPP) survey and the results of the consolidated survey results will be forwarded to the Department of Health in accordance with the required deadline. The following are the mandated Federal and State laws, and the applicable Administrative Directives:
 - Resource Conservation and Recovery Act (RCRA), Section 6002, 42 U.S.C. 6962. RCRA requires state and local government agencies and their contractors receiving appropriated federal funds to purchase EPA-designated recycled content products.
 - Section 103D–1005(b) of the Hawai'i Revised Statutes. Section 103D-1005(b) requires state purchasing agencies and encourages county purchasing agencies to: apply preferences to purchase of products with recycled content; be consistent with RCRA Section 6002, E/O. 13101 and its progeny; and ensure, to the maximum extent economically feasible, the purchase of materials that may be recycled or reused when discarded and to avoid the purchase of products deemed environmentally harmful.
 - Administrative Directive 06-01, signed by Governor Lingle in January, 2006, requires state agencies to purchase environmentally preferable products that reduce their impact on the environment and improve indoor environmental quality. Also included are Energy Star® and low toxicity products.

DLIR will continue to utilize the SPO price list and require all programs to purchase recycled and environmentally preferable products.

- DLNR: DLNR encourages its staff to implement office paper recycling and such a program is in place. DLNR has begun to incorporate energy savings practices into design projects such as the recycling of existing asphalt and concrete pavement into backfill material. Kaho'olawe Island Reserve Commission (KIRC): KIRC has very specific SOPs in place regarding recycling waste and is in the process of converting all of paper goods, specifically paper "china," to biodegradable products.
- DOA: DOA continued to work with DAGS to have Island Recycling on O'ahu pick up two bins of white paper once a month that employees place in recycling bins. The department continued to use a container next to the vending machine to collect empty soda cans for recycling. Information was distributed to departmental employees regarding the University of Hawai'i eWaste Disposal Day which provides an opportunity for Hawai'i state departments and residents to dispose of computers and other unwanted electronic equipment by dropping them off at various UH campuses.
- DOE: Construction projects which incorporate LEED standards require strategies for waste management and recycling of construction materials. The recycling of office paper and packaging is being explored; however, the additional cost of such programs does not make recycling feasible at this time due to budget restrictions. About 45 schools on O'ahu participate in the Honolulu City and County community recycling bin program. In addition, schools are incorporating recycling activities into their fundraising programs.
- DOH: All facilities are encouraged to recycle and reduce waste. Bins are available for recycling cans, bottles and paper. Programs are encouraged to go "paperless." Two sided copying is a requirement.
- DOT-Airports: The Airports Division has implemented a statewide dedicated unit for environmental compliance. This consists of Environment Health Specialists located at the major airports (Honolulu International Airport, Kona International Airport at Keāhole, Kahului Airport and Lihu'e Airport) to ensure compliance with all environmental regulations and provide training to tenants and employees with regards to environmental regulations. At all airports, white paper and cardboard are recycled and the amount recycled is monitored. Glass, newspaper, plastic and aluminum recycling is made difficult by security regulations at airport locations but recycling programs are in place at all major airports.
- DOT-Harbors: The division requires double sided printing from copiers and printers as practical. Recycling bins for aluminum cans, bottles, plastic and papers are provided where convenient. DOT-Harbors will develop program milestones to encourage 100% implementation over a period of time.
- DOT-Highways: The Highways Division has been using electronic documents where possible to eliminate the need for paper. The division is also working with industry to find a way to use recycled products in our pavements without losing quality.

DOTAX: DOTAX's standard operating practices include monthly paper recycling.

FTZ: FTZ recycles cans and paper products. Products to be recycled are captured and taken to the recycle center once a quarter.

- HCDA: HCDA has incorporated recycling of bottles, cans, plastic and paper within its office. In demolition projects, the contractor is encouraged to separate and recycle materials whenever practical.
- HHFDC: Most office paper used by HHFDC is labeled 30 % post-consumer content. HHFDC has recycle boxes throughout the offices for depositing non-sensitive paperwork and a shredder to dispose of sensitive paperwork. Either way, paper, as much as possible, is recycled. All restroom paper products are also labeled as containing recycled paper. This holds true for all the rental properties in the agency's portfolio. Most of HHFDC's construction is reconstruction. As specifications are being written it is suggested to the architects and engineers concerned that guidelines need to be given regarding recycling demolition materials. This will limit the amount of waste going to the landfills.
- HHSC: HHSC facilities have implemented recycling as standard operating practice.
- HSPLS: HSPLS continues to participate in recycling waste paper through the DAGS-contracted private disposal companies, statewide.
- HTA-CC: The Hawai'i Convention Center continues to have an extensive recycling program for both administrative areas and events. The Center partners with show management to maximize the recycling of event material and donate excess food to charities that use it to feed the homeless.
- NELHA: NELHA recycles everything that is recyclable. Recyclable trash from the adjacent beach park trash containers is stolen on a nightly basis by human scavengers. NELHA stores old equipment (including computers, software, pipe, pump parts, old vehicles, etc.) for potential reuse in view of how difficult it is to obtain authority for the purchase of new equipment. Everything that can be rebuilt and reused is rebuilt and reused (rebuilding the facility's own motors and pumps saves quite literally thousands of dollars annually, when one considers that a simple impeller for a 200 hp pump costs \$18,000, one can image the cost to have the overhaul done through outside services.) NELHA's boneyard is a source of much valuable material that can be used for patches, repairs, and other needs; for example, replacement parts as in many instances replacement parts of much of NELHA's equipment cannot even be purchased any longer as the manufacturers have ceased servicing the equipment.
- PSD: PSD is recommending that the department's Inspection and Investigation Office (IIO) coordinate efforts with all PSD programs, writing the necessary Policies and Procedures and implementing practices to minimize the accumulation of waste and/or pollution reduction/prevention as a standard operating procedure throughout the department. PSD's Inspection and Investigation Officer has concurred with this recommendation and assigned his Environmental Health, Safety and Sanitation Specialist the duty of working will all PSD units to implement it.
- UH: <u>University of Hawai'i System</u> As part of a national program, Apple Computer e-cycled the University's electronics at no charge. University departments scheduled pickups which ran through July 31, 2008.

<u>University of Hawai'i at Mānoa</u> – 538 tons sent to the landfill; 953 tons sent to H-Power; 12.75 tons of computers recycled (not including ITS recycling days); 367 tons of metal recycled; 140 tons of paper and cardboard recycled; 375 tons of green waste recycled at Hawaiian Earth Products; approximately 200 tons of greenwaste turned into mulch and used on campus. Total waste: 2,585 tons, of which 1,094 tons were recycled, giving UHM a 42% recycling rate.

<u>University of Hawai'i at Hilo</u> – UHH participates in e-waste recycling by participating in both the Apple Computer recycling and County of Hawai'i recycling. For the times when no e-waste "drives" are scheduled, UHH takes old computer equipment to Bayside Computer Center for proper recycling. UHH has dozens of recycling bins on campus. Recycled items are sorted (white paper, newspaper, mixed paper, cardboard, glass, plastic, aluminum). Sorted recycled items are picked up by a local vendor (Business Services Hawai'i) and transported to a local processing plant. HI-5 redemption containers are emptied by University clubs as fund raisers. UHH Housing dormitories have seven different "collection locations" for recycling. UHH Main Campus has two major collection locations for recycling totes, and two cardboard dumpsters. As necessary, special arrangements are made to pick up enormous amount of shredded documents at the end of yearly cycles. UHH food vendors use reusable plates, glasses, tableware where practical for eat-in dining, and paper products where practical for carry out dining. Food by-products are used as slop for farm pigs.

<u>University of Hawai'i -West O'ahu</u> – UHWO faculty, staff and students do an informal voluntary recycling of HI-5 aluminum cans and plastic bottles. HI-5 cans and bottles are recycled by the janitorial staff. UHWO also recycled 1,326 pounds of e-waste (computers, monitors, keyboards, etc.) on October 26, 2007. UHWO continue to recycle white and mixed color paper collected in the

mailroom. Paper is recycled at the Community Recycling Center Program bin located at Leeward Community College. UHWO also purchased 4 recyclable plastic picnic tables and 6 recyclable plastic benches for their new E Building lanai. These products are 97% post consumer recycled HDPE (High Density Polyethylene), which qualifies these tables and benches as "green."

<u>Community Colleges</u> – See Appendix 1 for report addressing the individual campuses' efforts to minimize waste and prevent pollution.

Act 96 SLH 2006: Buildings and Facilities

- (6) Use life cycle cost-benefit analysis to purchase energy efficient equipment such as Energy Star® products and use utility rebates where available to reduce purchase and installation costs; and
- AG: All staff involved in purchasing equipment have been advised of the Energy Star® program and must document reasons for not purchasing Energy Star®, when available.

B&F: The department will include the use of life cycle cost-benefit analysis where applicable.

DAGS: Mechanical equipment (i.e., a/c, pumps, etc.) have long been required by DAGS to be of the high efficiency type and utility rebates have been used to help offset installation and higher pricing costs for the energy efficient products. DAGS worked with HECO to improve internal procedures to insure utility rebates are not missed. DAGS considers cost/benefit analysis for replacing existing a/c systems with new, more efficient, systems even prior to the existing systems reaching their expected life span. Energy Star® equipment, where available, will be a standard requirement for all construction.

DBEDT: DBEDT conducted or co-sponsored numerous seminars on energy efficiency for state employees and the private sector.

DBEDT continues to advocate Energy Star® Product Promotion and Procurement, which included the following activities:

- Conducting Energy Star® product procurement workshops to promote purchasing of Energy Star® products by State of Hawai'i and local government housing as well as other state, federal agencies, and the territories.
- Providing technical assistance to housing, local government, state and/or federal agency representatives in purchasing Energy Star® products.
- Promoting other training opportunities such as on-line Energy Star® webcasts in areas such as Energy Star® Procurement and Products.
- Providing technical assistance to support labeling three Energy Star® State of Hawai'i buildings.
- Coordinating participation and attendance of various state agency representatives at the training sessions.

DBEDT coordinated the 2008 Build & Buy Green Conference & Expo at the Hawai'i Convention Center, attended by many from state agencies. Life-cycle cost analysis and Energy Star® products were discussed at length as a means of achieving Hawai'i BuiltGreen[™] 3-Star Level.

Governor Lingle joined the National Energy Star® Change a Light, Change the World Campaign and also proclaimed October 2006 Energy Awareness Month. A similar proclamation has been proposed for the 2008 Change a Light, Change the World Campaign. DBEDT coordinated Hawai'i's observance of the US Department of Energy's Change a Light, Change the World program, including publicizing economic benefits via life-cycle costing.

DBEDT convened the State Facilities Energy Management Advisory Committee (EMAC) in 2007, which made recommendations for increasing the use of energy savings contracts, improving building design, reduction of energy consumption, expanding the use of renewable energy, and procuring energy efficient products.

DBEDT staff spoke to DOT-Harbors' Planning Division about relighting state harbor areas and recommended photovoltaic-powered LED outdoor lamps as a means of reducing electricity use while complying with Homeland Security guidelines. Life cycle costing is included in calculating the avoided cost of not having to trench to bring in new electrical lines.

DBEDT staff helped to stage the International Illuminating Design Awards program. Awardees included two cost-effective lighting projects that reduced electricity consumption by as much as 70% while improving safety and visual acuity.

DBEDT convened the Lead By Example initiative's Environmentally Preferable Purchasing (EPP) working group to brief agency and departmental managers about how 'green purchasing,' including electronic equipment, offers cost, energy, and resource efficiency benefits. DBEDT staff are working with the State Procurement Office to add more EPP products to the procurement list.

DCCA: DCCA purchased Energy Star® products for all available computer equipment, and as applicable will purchase Energy Star® products when replacing office equipment. Life cycle cost-benefit analysis was used to purchase computer equipment such as servers and PCs.

- DHHL: DHHL will promote and design new affordable homes using the Energy Star® program to ensure the best energy and resource efficient homes and facilities.
- DHRD: The department uses the State Procurement Office price/vendor lists for procurement of most of its equipment. Copiers that are leased and computers that are purchased are Energy Star® products.
- DHS: DHS procurement procedures include requirements for purchasing energy efficient products such as Energy Star®, and as applicable will utilize available utility rebates.
- DLIR: DLIR programs are required to purchase Energy Star® products and will continue to check whether utility rebates are available and can be utilized in the purchase of the products as part of the procurement procedure/policy.
- DLNR: DLNR uses life cycle cost-benefit analysis to purchase energy efficient equipment such as Energy Star® products, and uses utility rebates where available to reduce purchase and installation costs.
- DOA: ASO sent a reminder to staff in March and July 2008 of the department's Energy and Water Conservation and Resource Efficiency Program which provides policies, guidelines and practices with the goal of minimizing energy, fuel and water consumption and implementing resource-efficient operations, including purchasing energy efficient equipment such as Energy Star® products and using utility rebates where available.
- DOE: DOE is encouraging all schools and offices to purchase Energy Star® or any energy efficient alternative equipment that passes life cycle cost-benefit analysis. DOE applies for and receives utility rebates for various energy efficient equipments being installed during construction projects. The total rebates DOE received for equipments installed in 2007 was about \$150,000 with an annual kWh reduction of 1,185,000. DOE will continue to seek utility rebates for on-going project work and seek establishment of utility rebates for new energy efficient technologies.
- DOH: Mechanical and electrical equipment purchases are coordinated by the CIP office. It has been a standard practice to purchase energy efficient items. If any HECO programs are initiated in the future, the department will apply for them. Programs will be instructed to purchase Energy Star® products.
- DOT-Airports: Energy efficiency in equipment is always a major consideration in cooling tower, chiller and other HVAC equipment at all airports. All appliance specifications and purchases are required to be the energy efficient type such as Energy Star® products whenever it is available.
- DOT-Harbors: The division will train staff on life cycle cost analyses and on available Energy Star® technologies. Staff will replace existing equipment with comparable Energy Star® equipment.
- DOT-Highways: The Highways Division continues to install energy efficient traffic signal lamps in new installations or when any traffic signals are modified, and has programmed the replacement of computer equipment with Energy Star® compliant equipment.
- DOTAX: DOTAX uses life cycle costs to evaluate equipment procurements and will use utility rebates where available to reduce purchase and installation costs.
- FTZ: FTZ purchased another Energy Star® copy machine during the last year. FTZ is in the process of purchasing new energy-efficient computers this year.
- HCDA: HCDA has instructed property manager in projects where HCDA is general partner to replace light fixtures, air conditioners, stoves and refrigerators with energy efficient fixtures.
- HHFDC: HHFDC rental projects are required to purchase Energy Star® products whenever applicable. All replacement items, if not Energy Star®, are evaluated for purchase on a cost / efficiency basis. HHFDC is contacting HECO regarding applicable rebate applications.
- HHSC: Hawai'i Health Systems Corporation will incorporate in its procurement process the acquisition of Energy Star® products and other energy saving equipment.
- HSPLS: HSPLS has incorporated life cycle cost benefit analysis through DAGS for new and replacement air conditioning system and equipment. HSPLS has been improving the process in working with HECO to receive the applicable and appropriate rebates for eligible equipment.
- HTA-CC: Currently Energy Star® lighting products have been installed in the exhibition hall, ballroom, administrative areas and fire stairwells. New Energy Star® pumps have been installed on potable cold water system. All five projects have received HECO rebates.
- NELHA: These steps have been taken by NELHA for many years. Recently, in spare staff time, NELHA installed wireless monitoring equipment at three pump stations and staff wrote a complex computer program to enable remote monitoring of the stations' activities. In time, being able to remotely control the operation of the pump stations may result in energy savings for the island through less staff travel to and from NELHA during non-working hours to restore service when a station(s) goes off line due to power interruptions or other causes. Utility rebates have been used whenever available.

- PSD: The department has been challenging DAGS-Division of Public Works and the projects' consultants to plan and design new building operating systems that incorporate the highest provable energy efficiencies. Insofar as utility rebates are concerned, the consultants are reporting that utility rebates have not provided sufficient documented evidence of system efficiencies claimed by manufacturers and, further, that utilities have confirmed that neither they nor independent third parties have verified the accuracy of certain claims by manufacturers of such equipment and/or systems. Accordingly, the department has taken the position of accepting only independently documented efficiency claims and the consultants provide design solutions incorporating this requirement to the manufacturers.
- UH: Systemwide In all new and major renovation projects, a life cycle cost-benefit analysis for mechanical and electrical systems is included in the project basis of design report. Campuses continue to work with the local electric company in their rebate program to purchase energy efficient air conditioning and lighting through the campuses' repair and maintenance programs. Maui CC implemented a campus procurement policy where all purchases of appliances which are rated by the Energy Star® program must have the Energy Star® efficiency rating. The University of Hawai'i will continue to apply the LEED rating system systemwide in all Capital Improvement Program new and major renovation projects.

The University continues to purchase Energy Star® products from the SPO vendor lists for copier and facsimile machines and personal computers and printers.

UH Hilo continues to work with HELCO on energy efficient air conditioning and light fixtures on all renovation and new projects and replacement equipment. UHH has also purchased refrigerators, dehumidifiers and air conditioners (window and portable), that have the Energy Star® labels for efficient operation. In addition, UHH has energy efficient light fixtures and motion sensors to turn off lights when no one's around.

Act 96 SLH 2006: Buildings and Facilities

- (7) Procure environmentally preferable products, including recycled and recycled-content, bio-based, and other resource-efficient products and materials.
- AG: Recycled paper is required, unless previously approved by the Administrative Services Office. Staff are aware of the policy to utilize environmentally friendly products; however, there is very minimal use of hazardous materials within the department.

B&F: The department currently purchases environmentally preferred products as contained in the SPO price lists.

DAGS: Cleaning products with the Green Seal or equal certification are being integrated into the custodial program. The State Procurement Office (SPO) continues to provide to Executive Departments, other jurisdictions, and the counties, the SPO Price and Vendor List utilizing Energy Star®, recycled, or environmentally preferred products (EPP). Prior to re-solicitation for new contract terms, assessments of current contract specifications and review of market availability are conducted to ensure energy efficient products and supplies are made available through the SPO Price and Vendor lists.

For products and supplies not covered by SPO Price and Vendor list, purchasing agencies are required to utilize the following preferences:

- Recycled Products, HRS 103D-1005
- Biofuel preference, HRS 103D-1012
- Preference for oil products with greater recycled content, HRS Chapter 103D, Part XIII
- DBEDT: DBEDT, through Lead By Example Environmentally Preferable Procurement Working Group meetings, provided information and training to executive agency leadership on state policies and procedures relating to green purchasing. These meetings broadened awareness of purchasing mandates and efficient means of identifying and selecting environmentally preferable products via the state procurement system.

DBEDT, as part of Lead By Example, contracted with Envirospec, Inc., an environmental health and environmentally preferable purchasing consultancy, to initiate a pilot program for testing environmentally preferred alternatives to industrial janitorial chemicals. The three schools selected were McKinley High School, Kapālama Elementary School, and the University of Hawai'i. "Green" cleaning products and vendors were screened and selected based on rigorous criteria and tested in reallife settings for safety, efficacy and other attributes. Preliminary recommendations and a final report were completed in FY08.

DBEDT convened the State Facilities Energy Management Advisory Committee (EMAC) in 2007, which made recommendations for increasing the use of energy savings contracts, improving building design, reduction of energy consumption, expanding the use of renewable energy, and procuring energy efficient products.

DBEDT procured office and copy paper with 35% post-consumer recycled content.

DBEDT provided input into the EPP Survey sent out by DOH and DAGS SPO in August 2008 to assess the FY 2008 environmental purchasing efforts of the state agencies. Results from the DOH and DAGS SPO survey are expected in late 2008.

DBEDT coordinated the 2008 Build & Buy Green Conference & Expo at the Hawai'i Convention Center, attended by many from State agencies. Environmentally preferred purchasing practices, including recycled, bio-based, and other resource-efficient products and materials, were discussed at length as a means of achieving Hawai'i BuiltGreen[™] 3-Star Level.

DBEDT continues to work with the State Departments of Accounting and General Services (DAGS) and Health (DOH), the University of Hawai'i at Mānoa, and other agencies to expand the state's buy-recycled purchasing efforts and examine opportunities to purchase other environmentally-preferable products. DBEDT developed and is working on updating, the following in support of the Environmentally Preferable Purchasing (EPP) - Resources, Outreach, and Technical Assistance Project:

- List of EP Products available in Hawai'i webpage and publication
- Fact Sheets on Federal Executive Orders, Hawai'i Statutes and Resources webpage and publication
- Case Study of Successful EPP Efforts webpage and publication

- Evaluation and Report of present procurement practices and procedures
- Recommendations regarding procedural, specs, bid requests, etc., guidance to address EPP concerns
- Review and follow-up of technical assistance with summary of impact and degree of change in agency procurement practice as a result of the technical assistance

DCCA: DCCA purchased recycled paper products when available on and off bid list.

- DHHL: Where possible, DHHL shall choose environmental friendly products and material and will continue to encourage contractors to use recycled products.
- DHRD: The department purchases environmentally preferable products as contained in the State Procurement Office price/vendor lists. Office paper, paperboard and packaging products are examples of items purchased that are recycled content products.
- DHS: DHS continues to coordinate with the State Procurement Office (SPO) to ensure that price list products satisfy environmentally preferable product requirements.
- DLIR: The DLIR policy mandates the purchase of recycled paper and the utilization of the State Procurement Offices Price List (SPO PL) for all purchases where products are available through the SPO PL. DLIR issued a departmental instructional memo to insure conformance with the results of the EPP Survey.
- DLNR: DLNR encourages the use of recycled products with contractors. DLNR also adheres to the allowed 10% price preference for bids using recycled products in accordance with Section 103D-1005, Hawai'i Revised Statutes.

Kaho'olawe Island Reserve Commission (KIRC): KIRC is in the process of converting all of their paper goods, specifically paper "china," to biodegradable products.

Division of Aquatic Resources (DAR): DAR purchases and uses biodegradable soaps. In particular, DAR uses these products in the Northwest Hawaiian Islands, where there are strict policies on this and any other discharge of durable wastes.

- DOA: ASO sent a reminder to staff in March and July 2008 of the department's Energy and Water Conservation and Resource Efficiency Program which provides policies, guidelines and practices with the goal of minimizing energy, fuel and water consumption and implementing resource-efficient operations including promoting the 4 Rs – reduce, recycle, reuse and re-buy—and encouraging use of the DBEDT Environmental Product Guide which lists environmentally preferred products.
- DOE: Recycled copier paper is an option for schools to purchase.
- DOH: Presently, the department has not addressed this issue except through state sponsored programs. Programs will be advised to purchase these products, provided they are not mandated to purchase specific items from the statewide Bid List.
- DOT-Airports: The Airports Division purchases their products through the state procurement system, but will consider the "Green Seal" products first.
- DOT-Harbors: The division will implement environmentally preferable procurement. It is using recycled copier paper and will develop program milestones to encourage 100% implementation over a period of time.
- DOT-Highways: Highways Division has been working with industry to find a way to use recycled products in our pavements without losing quality.
- DOTAX: DOTAX coordinates with the State Procurement Office for the purchase of environmentally preferable products including recycled and recycled-content, bio-based, and other resource-efficient products and materials.
- FTZ: All paper products, including copy and bond paper, paper towels and toilet paper, are purchased through the State Bid List and contain the recommended post consumer content.
- HCDA: HCDA has not had occasion to procure such items.
- HHFDC: As stated earlier, it is HHFDC's goal to continue recycling and using recycled paper products. Also it is the agency's goal to use biodegradable cleaning products.
- HHSC: Hawai'i Health Systems Corporation will incorporate in its procurement process the acquisition of environmentally preferable products.

HSPLS: HSPLS continues to explore and include those environmentally preferable products in its supply lists for all libraries.

HTA-CC: The Hawai'i Convention Center continues to mandate that sustainable products be given preference in procurement so as to be environmental friendly at all times. Napkins and box lunch

bags made from recycled material are currently used. Cups, cutlery and clamshell containers are made from bio-compostable material.

NELHA: NELHA purchases recycled content paper products and has done so for many years. NELHA also has looked at refilling its own printer cartridges and/or changing out printers (when current ones are worn out) for models that require less ink. NELHA has cannibalized old computers for RAM and DRAM memory units in order to keep outdated equipment functional and avoid replacement.

NELHA personnel are extremely environmentally conscious and highly motivated to contribute to a better environment. Staff in some departments have asked for 4x10 workdays in order to economize on transportation fuel and reduce carbon emissions on the island.

Staff are encouraged to reuse paper by printing on the back side of previously printed paper for draft reports, etc.

NELHA is looking at purchasing just biodiesel to run its fleet of trucks and electrical generators, although the biodiesel will be quite a bit more expensive in the large quantities NELHA requires. Fortunately, one existing tenant and one prospective tenant intend to produce biodiesel for commercial testing purposes and production and as a result NELHA may in the near future have a source of this environmentally friendly product for use in generators and diesel equipment such as front end loaders, standby truck-mounted generators, and pump station stand-by generation equipment.

PSD: PSD utilizes SPO-generated price lists and vendor lists as required.

UH: LEED (Leadership in Energy & Environmental Design) requirements are included in all new construction projects. The University continues to participate in various SPO price and vendor lists that include recycled products. The University continues to participate in the SPO price list for bulk gasoline and gas credit card services. The University is a participant in the WSCA Industrial Supplies vendor list from which many environmentally preferable products have been purchased. All Invitations for Bids issued by the University of Hawai'i include a Recycled Products Preference (Reference: Section 103D-1005, HRS, and Subchapter 4, Chapter 3-124, HAR). UH Hilo purchases goods made out of post consumer recycled goods as much as practicable. Restroom paper products (toilet paper and hand towels) meet or exceed EPA's guideline for post consumer recycled content.

(1) Comply with Title 10, Code of Federal Regulations, Part 490, Subpart C, "Mandatory State Fleet Program", if applicable;

AG: Not applicable; AG does not have a fleet.

B&F: Not applicable to B&F.

(a) DAGS: Agencies must be in compliance with federal regulations. DAGS AMD has determined it is compliance with the federal requirement by purchasing only new alternative fuel vehicles. Vehicle purchases continue to comply with 10 CFR, Part 490, on alternative fuel E85 vehicles. Covered Fleet Vehicle purchases conducted by SPO continue to comply with 10 CFR, Part 490, on alternative fuel E85 vehicles and Non-Covered Fleet Act 96 Part IV, HRS section 103D-412, Energy Efficient Vehicles.

DBEDT: Does not apply. DBEDT does not have a "covered fleet."

- DCCA: Not applicable; DCCA does not own any vehicles.
- DHHL: DHHL is already in compliance and will continue to comply with Title 10.
- DHRD: Not applicable. The department does not have any transportation vehicles.
- DHS: DHS continues to coordinate with DAGS-Automotive Management Division (AMD) to ensure that vehicle purchases comply with the applicable requirements.
- DLIR: DLIR currently owns two gas engine-operated vehicles and is not required to comply with Title 10, Code of Federal Regulations.
- DLNR: Federal regulations are not currently applicable to DLNR.
- DOA: The department is in compliance with Title 10, Code of Federal Regulations.
- DOE: DOE has organized its fleet program by complex areas and offices. Based on this organization, only the Office of School Facilities and Support Services meets the requirements to be designated as a "covered fleet."
- DOH: The programs are in compliance.
- DOT-Airports: The Airports Division is a covered fleet under the Federal Dept. of Energy Program and is compliant.
- DOT-Harbors: More work needs to be done in this area. The division's attempt to purchase an alternative energy vehicle ran into budget problems as these vehicles cost more than conventionally powered vehicles.
- DOT-Highways: The Highways Division is currently in compliance.
- DOTAX: DOTAX does not have a fleet of thirty vehicles or more.

FTZ: Not applicable; the State of Hawai'i is responsible for developing a "Mandatory State Fleet Program."

- HCDA: HCDA does not maintain fleet of 30+ vehicles.
- HHFDC: Not applicable.
- HHSC: In compliance with Title 10, when purchasing new vehicles through DAGS, energy efficient models (such as hybrids and four cylinder models) will be acquired whenever possible.
- HSPLS: HSPLS has determined that alternative fuel vehicles were either not available or not practical in replacing any library delivery vans. They did not meet the specifications for these heavily used and loaded vehicles.
- HTA-CC: HTA does not maintain a fleet of 30+ vehicles as specified in the above ACT 96 SLH 2006.
- NELHA: NELHA still does not have funding to replace its two ancient diesel trucks. The fleet has been updated (the youngest was a 1995 gasoline-powered truck) with 2005 and 2006 gasoline powered vehicles. However, it should be noted that as an operating entity, NELHA has need of heavy equipment, most of which is not yet even manufactured to meet the above specifications and would, if available, be very cost-prohibitive to purchase.
- PSD: Under the Federal Register, Volume 61, Number 51, page 10631, the activities of State Corrections fall under the excluded "Law Enforcement" vehicle category. While our department's vehicles are exempt from the requirements of Title 10 CFR, Part 490, Subpart C, the PSD has requested that flexible fuel compatible engines be used if available.
- UH: University of Hawai'i Transportation Services is currently in compliance.

(2) Comply with all applicable state laws regarding vehicle purchases;

AG: Not applicable; AG does not purchase vehicles.

B&F: Not applicable to B&F.

DAGS: AMD and SPO review departmental requests to purchase passenger vehicles. HAR Section 3-122-13, Development of specifications and HRS Section 103D-412, Energy-efficient vehicles, provides guidance to state and county purchasing agencies on the purchase and leasing of vehicles. SPO, DAGS-AMD, and DBEDT have developed guidelines for the purchase of vehicles including energyefficient vehicles. These guidelines are available on the DBEDT website at http://hawaii.gov/dbedt/info/energy/efficiency/state/

DBEDT: When available, vehicle procurement instructions will be distributed throughout the department. DCCA: DCCA does not plan on purchasing any vehicles.

- DHHL: DHHL will continue to comply with state laws when purchasing vehicles.
- DHRD: Not applicable. The department does not have any transportation vehicles.
- DHS: DHS continues to coordinate with AMD to ensure that vehicle purchases comply with the applicable requirements.
- DLIR: DLIR owns the following vehicles: 1999 Ford Windstar; 1994 Chevrolet Astrovan. DLIR does not have immediate plans to purchase another vehicle in the near future; however, DLIR will adhere to the applicable state laws regarding vehicle purchases.
- DLNR: DLNR will continue to work with DBEDT in a statewide collaboration on energy efficiency, as a member of DBEDT's Lead by Example Leadership Group. DLNR continues to seek the advice of other state agencies through DBEDT's Lead by Example Leadership Group and will implement internal procedures as appropriate.
- DOA: The department is in compliance with all applicable state laws.
- DOE: DOE is complying with all state laws regarding vehicle purchases.

DOH: The programs are in compliance.

- DOT-Airports: The Airports Division is compliant under the Federal Program.
- DOT-Harbors: SPO procedures are followed including purchasing using HePS.
- DOT-Highways: The Highways Division is currently in compliance, and all vehicles purchased comply with the State Procurement Office rules.
- DOTAX: DOTAX complies with all applicable state laws regarding vehicle purchases.
- FTZ: No new vehicle purchases are projected for the near future.
- HCDA: HCDA's two vehicles are procured and maintained by DAGS.

HHFDC: Not applicable.

- HHSC: HHSC is in compliance with all state laws regarding vehicle purchases and will continue to comply with all applicable state laws.
- HSPLS: The State Procurement Office (SPO) has revised HAR 3-122-13 to reference Act 96/2006, Part IV as amended in HRS 103D-412 for energy efficiency vehicles. HSPLS will be making all of its vehicle purchases through the SPO to ensure compliance with these state laws and rules.
- HTA-CC: Not applicable. HTA has one vehicle procured and maintained by DAGS; the Hawai'i Convention Center has three vehicles that were procured as part of the outfitting of the building in 1997, registered by the State of Hawai'i and are maintained to the manufacturer's suggested specifications.
- NELHA: All vehicles have been purchased in compliance with state laws. When any operating vehicles are purchased, NELHA always first checks with DAGS, SPO, DBEDT, etc. to ascertain the very latest requirements and procedures that must be used, thus saving personnel time and cost. Further DBEDT procurement procedures are followed in the purchase of vehicles.
- PSD: As applicable to the needs of the department, PSD has solicited for E-85 compatible vehicles. Vehicles purchased for FY08 that were E-85 compatible included four mini-vans, one compact sedan, and two 12-passenger vans. As reported last year, PSD encourages the agency to drive its vehicles safely, and with fuel economy in mind.
- UH: University of Hawai'i Transportation Services is currently in procurement compliance.

(3) Once federal and state vehicle purchase mandates have been satisfied, purchase the most fuel-efficient vehicles that meet the needs of their programs; provided that life cycle cost-benefit analysis of vehicle purchases shall include projected fuel costs;

AG: Not applicable; AG does not have a fleet or purchase fuel.

B&F: Not applicable to B&F.

DAGS: The AMD and SPO review will provide opportunities to comply with the policy to procure the most fuel-efficient vehicles. This review will mandate agencies to be compliant with the law.

DBEDT: When available, vehicle procurement instructions will be distributed throughout the department. DCCA: DCCA does not own any vehicles.

- DHHL: DHHL will continue to consider fuel consumption, capacity and need in addition to price when purchasing new vehicles.
- DHRD: Not applicable. The department does not purchase transportation vehicles at this time.
- DHS: DHS continues to coordinate with AMD and SPO to ensure that vehicle purchases meet fuel efficiency requirements in relation to operational needs.
- DLIR: DLIR's two vehicles are in sound operational condition, and thus DLIR has no plan to replace the vehicles in the near future. Prior to purchasing a vehicle in the future, DLIR will insure that any vehicle purchase satisfies federal and state mandates. In addition, DLIR will purchase the most fuel efficient vehicle that meets the needs of our program.
- DLNR: DLNR will continue to work with DBEDT in a statewide collaboration on energy efficiency, as a member of DBEDT's Lead by Example Leadership Group. DLNR continues to seek the advice of other state agencies through DBEDT's Lead by Example Leadership Group and will implement internal procedures as appropriate.
- DOA: ASO reminded staff of the department's Energy and Water Conservation and Resource Efficiency Program which provides policies, guidelines and practices with the goal of minimizing energy, fuel and water consumption and implementing resource-efficient operations, including purchasing the most fuel efficient vehicle that meets the needs of the program once federal and state vehicle purchase mandates have been met.
- DOE: DOE is complying with all state laws regarding vehicle purchases through our Procurement and Contracts Branch.
- DOH: This policy is not in effect. The programs will be advised of this strategy.
- DOT-Airports: The Airports Division doesn't go outside the program; it keeps its purchases under the Federal Program.
- DOT-Harbors: The division needs to do more research and develop an implementation plan.
- DOT-Highways: The Highways Division is currently in compliance.

DOTAX: DOTAX will purchase the most fuel-efficient vehicle that meets the needs of its programs and will include a life cycle cost-benefit analysis, including projected fuel costs, in vehicle procurements. FTZ: Not applicable.

- HCDA: Not applicable; see Item #2 immediately above.
- HHFDC: Not applicable.
- HHSC: HHSC continues to purchase the most fuel efficient vehicles whenever possible.
- HSPLS: HSPLS has been working directly with the SPO to acquire the most fuel-efficient vehicles that meet the needs of our delivery service for all libraries.

HTA-CC: Not applicable: see Item #2, above.

NELHA: See item #1, above. No change from last year in this regard.

- PSD: For most part, the vehicles utilized by the department are heavy-duty vehicles weighing over 8,500 pounds, for which EPA fuel mileage ratings are not available. For those vehicles which are light duty, awards are made on the basis on lowest price. The department is awaiting direction from the Comptroller or SPO with regard to a standardized method of evaluation.
- UH: UH Transportation Services reviews all vehicle purchases for appropriateness. UH Transportation Services keeps historical information on all vehicles assigned to the Transportation Services Fleet. Individual departments keep their own vehicle records pertaining to department owned vehicles. A life cycle cost-benefit analysis has not been done on any vehicles. Vehicle fuel consumption is not tracked. Going forward, the strategy is to develop a web based program to record and compile

individual vehicle data during the current fiscal year. The program must allow departments that own vehicles the ability to enter their program's vehicle data via the web. The web will collect data for analysis to determine life cycle cost-benefit and fuel efficiency; providing historical reference for future purchases.

(4) Purchase alternative fuels and ethanol blended gasoline when available;

AG: Not applicable; AG does not purchase fuel.

B&F: Not applicable to B&F.

- DAGS: SPO Price List No. 07-20, Gas Fueling and Credit Card Services, includes the requirement to establish monthly reports from the vendors of purchases by each cardholder. SPO Price Lists for Bulk Fuel (07-06 O'ahu, 07-05 Hawai'i, 07-03 Maui and 07-04 Kaua'i) are for purchases of ethanol-blended gasoline, E-10 and Ultra Low Sulfur Diesel fuel, by all agencies. The available information will be used to determine total gasoline purchases and expenditures by each purchasing agency.
- DBEDT: DBEDT intends to purchase alternative fuels when available.
- DCCA: DCCA does not own any vehicles.
- DHHL: DHHL intends to purchase alternative fuels and ethanol blended gasoline when available.
- DHRD: Not applicable. The department does not purchase transportation fuels.
- DHS: DHS continues to coordinate with SPO on purchasing alternative fuels from established price lists.
- DLIR: The assessment performed by DLIR indicates that all alternative fuels were purchased from DAGS Automotive Management Division. The DAGS Automotive Management motor pool alternative fuel meets the alternative fuel ethanol blend requirement.
- DLNR: DLNR purchases fuel from vendors as selected by the State Procurement Office in compliance with the Procurement Code. DLNR continues to seek the advice of other state agencies through DBEDT's Lead by Example Leadership Group and will implement internal procedures as appropriate.
- DOA: ASO reminded staff of the department's Energy and Water Conservation and Resource Efficiency Program which provides policies, guidelines and practices with the goal of minimizing energy, fuel and water consumption and implementing resource-efficient operations including the purchase of alternative fuels and ethanol blended gasoline when available.
- DOE: For light duty vehicles, only ethanol-blended gasoline is currently available. For diesel fuel vehicles, biodiesel fuel is being considered where practical.
- DOH: This policy is not in effect. The programs will be advised of this strategy.

DOT-Airports: Yes.

- DOT-Harbors: The division will purchase environmentally preferable fuels when available and practical. DOT-Highways: The Highways Division currently purchases propane as an alternative fuel.
- DOTAX: DOTAX purchases ethanol blended gasoline through DAGS' automotive division.
- FTZ: All fuels are purchased from DAGS' automotive division.
- HCDA: HCDA refuels at DAGS' central motor pool.

HHFDC: Not applicable.

- HHSC: All HHSC facilities are using ethanol blended gasoline.
- HSPLS: The State Procurement Price Lists include the purchase of ethanol-blended gasoline and alternative fuels when they are available. Comptroller Memorandum No. 2005-13 dated May 17, 2005 requires all state departments to purchase only regular 87 gasoline unless granted prior approval from DAGS to purchase premium or mid-grade gasoline.

HTA-CC: Not applicable: see Item #2, above.

- NELHA: Ethanol blended gasoline is the only gasoline available on this island. NELHA is looking at purchasing biodiesel from its tenants who will be manufacturing it in the near future in great quantities.
- PSD: Not applicable, currently only E-10 is available in the State of Hawai'i.
- UH: UH Transportation Services does not purchase biodiesel and ethanol blended fuels. An evaluation is currently being undertaken to assess the feasibility of converting to biodiesel fuel and purchasing ethanol blend gasoline. If feasible, conversion to these fuels during the current fiscal year is desired.

Fleet use of biodiesel (gallons purchased) and total cost (\$):

AG: Not applicable; AG does not purchase fuel. B&F: Not applicable to B&F. DAGS: None. DBEDT: Not applicable. DCCA: DCCA does not own any vehicles. DHHL: No vehicles used biodiesel.

DHRD: Not applicable. The department does not purchase transportation fuels.

DHS: Zero.

DLIR: Not applicable; no diesel fuel used.

DLNR: Not applicable. DLNR purchased 150 gallons of biodiesel, but it was used for invasive species control and not vehicle fuel.

DOA: No biodiesel was purchased in FY08.

DOE: Biodiesel is not available due to state fuel pricelist. Also, limited locations for biodiesel purchasing make it very difficult to establish a purchasing program.

DOH: Zero.

DOT-Airports: The Airports Division does not have a separate tank for storage. No biodiesel.

DOT-Harbors: None. The State Procurement Office Price List for "Bulk Deliveries for Gasoline and Diesel" only has diesel fuel #2.

DOT-Highways: The Highways Division has not purchased any biodiesel.

DOTAX: Not applicable; DOTAX does not purchase diesel fuel.

FTZ: Not applicable.

HCDA: Not applicable.

HHFDC: Not applicable.

HHSC: None.

HSPLS: \$0.

HTA-CC: Not applicable.

NELHA: Zero.

PSD: No biodiesel fuel was purchased for the last fiscal year.

UH: None.

(5) Evaluate a purchase preference for biodiesel blends, as applicable to agencies with diesel fuel purchases;

Not applicable. Superseded by Act 240 of 2006, which established a 5¢ gallon preference for biodiesel. DAGS SPO and DBEDT's Strategic Industries Division are reviewing and drafting Hawai'i Administrative Rules to implement the preference provided in Act 240/SLH 2006 on the requirement of biofuel.

(6) Promote efficient operation of vehicles;

AG: Not applicable; AG does not have a fleet.

B&F: Not applicable to B&F.

- DAGS: DAGS provides guidelines in the general operation of vehicles including a compressive Preventive Maintenance (PM) Schedule for its vehicles. DAGS Motor pool offers PM services to all state vehicles under 8500 GVW.
- DBEDT: Tips for efficient operation of vehicles will be distributed department-wide.
- DCCA: DCCA does not own any vehicles.
- DHHL: Driving and maintenance tips have been attached to each vehicle mileage log.
- DHRD: Not applicable. The department does not have any transportation vehicles.
- DHS: DHS continues to coordinate with AMD in the issuance of vehicle operation procedures.
- DLIR: DLIR vehicles are serviced by DAGS Automotive Management Division Motor Pool on a regular basis. Both of the DLIR vehicles are in sound condition and they operate at maximum efficiency. The vehicles' operational efficiency can be certified and recertified by the DAGS Automotive Management Division.
- DLNR: DLNR encourages maintenance and regular service of vehicles. DLNR continues to seek the advice of other state agencies through DBEDT's Lead by Example Leadership Group and will implement internal procedures as appropriate.
- DOA: ASO reminded staff of department's Energy and Water Conservation and Resource Efficiency Program which provides policies, guidelines and practices with the goal of minimizing energy, fuel and water consumption and implementing resource-efficient operations including tips on efficient operation of vehicles.

DOE: No formal programs have been developed by DOE.

DOH: This policy is not in effect. The programs will be advised.

DOT-Airports: Yes.

DOT-Harbors: Need to do more research and develop implementation plan.

DOT-Highways: Highways Division is currently in compliance with both federal and state laws.

DOTAX: DOTAX will promote efficient operation of vehicles through an educational campaign.

FTZ: FTZ does not have a formal program, but follows the state plan for efficient use of vehicles.

HCDA: HCDA encourages staff to walk to properties/appointments whenever possible.

HHFDC: Not applicable.

- HHSC: HHSC facilities perform required maintenance of vehicles conforming to manufacturer's recommendations.
- HSPLS: HSPLS has guidelines for the general operation and efficient use of all our motor vehicles. We follow the manufacturer's recommended maintenance and servicing schedules for all vehicles. We provide information to all drivers on improving mileage and safety.
- HTA-CC: HTA encourages car pooling when using a State of Hawai'i vehicle and HCC specifically logs all trips and mileage using its three assigned vehicles.
- NELHA: One of the strategies utilized is having employees use their own vehicles for travel around NELHA, into town and back on business, and so forth. This eliminates the use of state vehicles and saves money as most employees are not willing to fill out the necessary paperwork to get reimbursement for their travels.

When it comes to work vehicular use, the use of solar powered golf carts is encouraged whenever possible. Use of trucks is encouraged only when long trips to Gateway or the 55" pump station are required or heavy equipment parts need to be transported. The solar-powered golf carts are not adequate for these types of trips. When trucks are used, NELHA asks that as many people fit into the cab of the truck as can be accommodated by existing seatbelts, thus saving on multiple vehicular usage to the greatest extent possible. One good practice is to put notices on the driver's side dash board: "Is this trip necessary?"

- PSD: IOM No. 2006-2711, dated August 16, 2006, distributed FTC's "Good, Better, Best: How to Improve Gas Mileage" to department's divisions, programs and agencies.
- UH: Information regarding the efficient operation of vehicles is currently not distributed. UH plans to develop information brochures and distribute to vehicle operators during the current fiscal year.

(7) Use the most appropriate minimum octane fuel; provided that vehicles shall use 87-octane fuel unless the owner's manual for the vehicle states otherwise or the engine experiences knocking or pinging;

AG: Not applicable; AG does not purchase fuel.

B&F: Not applicable to B&F.

DAGS: DAGS mandates that all vehicles operate on 87 octane fuel unless exempted by the Comptroller's Office. The department will continue to monitor fuel purchases of all agencies.

DBEDT: This instruction will be distributed department-wide.

DCCA: DCCA does not own any vehicles.

DHHL: DHHL will continue to use the most appropriate minimum octane fuels for its vehicles.

DHRD: Not applicable. The department does not have any transportation vehicles.

DHS: DHS continues the implementation of the present policy requiring the use of 87 octane fuel.

- DLIR: DLIR vehicles are refueled at the DAGS Automotive Management Division Motor Pool. Neither DLIR vehicle has experienced problems with knocking or pinging.
- DLNR: DLNR is in compliance with State Procurement Office bid list rules as stated above. DLNR continues to seek the advice of other state agencies through DBEDT's Lead by Example Leadership Group and will implement internal procedures as appropriate.
- DOA: ASO reminded staff of department's Energy and Water Conservation and Resource Efficiency Program which provides policies, guidelines and practices with the goal of minimizing energy, fuel and water consumption and implementing resource-efficient operations including using the 87 octane fuel unless the owner's manual for the vehicle states otherwise or the engine experiences knocking or pinging.

DOE: DOE has instructed all offices to follow this standard.

DOH: The programs are mandated to purchase specific octane fuel from Tesoro, which has a contract with the State.

DOT-Airports: Yes.

DOT-Harbors: The division will purchase environmentally preferable fuels when available and practical.

- DOT-Highways: Oʻahu, Maui and Kauaʻi are currently using 87-octane fuel. Hawaiʻi will switch to 87octane fuel in 2009.
- DOTAX: DOTAX uses the most appropriate minimum octane fuel, provided that vehicles shall use 87octane fuel unless the owner's manual for the vehicle states otherwise or the engine experiences knocking and pinging.
- FTZ: Fuels are purchased from DAGS automotive division.
- HCDA: HCDA complies by refueling at DAGS' central motor pool.

HHFDC: Not applicable.

HHSC: Under the State Contract, all our vehicles are filled with 87 octane, 10% ethanol blended gasoline.

HSPLS: The State Procurement Price Lists include the purchase of ethanol-blended gasoline and alternative fuels when they are available. Comptroller Memorandum No. 2005-13 dated May 17, 2005 requires all State departments to purchase only regular 87 gasoline unless granted prior approval from DAGS to purchase premium or mid-grade gasoline.

HTA-CC: Both HTA and HCC comply with the above requirement.

NELHA: No vehicles require higher than 87 octane gasoline or 45 cetane diesel fuel. None of NELHA's diesel trucks can pass vehicle safety checks so are not authorized for use on state or county roads. NELHA's diesel electric generators are stationary units, which with the off-highway trucks mean

NELHA purchases off-road diesel, saving a considerable sum as a result.

PSD: PSD follows the Comptroller's Memo 2005-13 on the use of regular grade gasoline.

UH: UH Transportation Services is in compliance.

- (8) Beginning with fiscal year **2005-2006** as the baseline, collect and maintain, for the life of each vehicle acquired, the following data:
 - (A) Vehicle acquisition cost;

AG: Not applicable; AG does not purchase vehicles.

- B&F: Not applicable to B&F.
- DAGS: DAGS tracks this information for all its vehicles and will continue to keep accurate records.
- DBEDT: Data will be collected if vehicles are acquired.
- DCCA: DCCA does not own any vehicles.
- DHHL: See Appendix 2.
- DHRD: Not applicable. The department does not have any transportation vehicles.
- DHS: DHS maintains the vehicle acquisition cost in the fixed asset inventory system.
- DLIR: 1999 Ford Windstar acquired on 1-23-01 for \$17,500.00; 1994 Chevrolet Astrovan acquired on 5-3-01 for \$5,900.00.
- DLNR: DLNR has a department-wide database that captures vehicle acquisition cost and is developing a program to track vehicle expenses and energy consumption for all cars in the department's inventory. Additionally, DLNR continues to seek the advice of other state agencies through DBEDT's Lead by Example Leadership Group and will implement internal procedures as appropriate.
- DOA: The department continued to record vehicle acquisition cost for all new and existing vehicles in its Automotive Management System.
- DOE: DOE has developed a database system (Maximo) to capture these data and is in the process of implementing and training users to input the data. See Appendix 3.
- DOH: These data are not available in one central file. Each program maintains its own records. Presently the Department has over 40 programs at 80 facilities throughout the State. A database must be created for the individual programs to input the information requested in items A thru F. This database should be web accessible.
- DOT-Airports: See Appendix 4. Also, the Airports Division has a contract in progress for fuel pump replacement and an online program to further gather this information through computer program tracking.
- DOT-Harbors: See Appendix 5.

DOT-Highways: The Highways Division is currently in the process of gathering data. See Appendix 6. DOTAX: DOTAX will comply for each vehicle acquired beginning fiscal year 2005-2006.

FTZ: No vehicle was purchased in FY 2005-2006 and there is no intent to purchase any vehicle in the foreseeable future.

HCDA: Not applicable; maintained by DAGS.

HHFDC: Not applicable.

- HHSC: Lē'ahi Hospital
 - FY 07 2001 Dodge Stratus \$5,200 2001 Dodge Stratus - \$5,000
 - FY 08 2004 Chevy Malibu \$8,200 2001 Dodge Caravan - \$4,500

Hilo Medical Center

- FY 07 2002 Oldsmobile Alero \$6,883 2002 Oldsmobile Alero - \$6,883 2002 Oldsmobile Alero - \$6,883
- FY 08 2001 Dodge Stratus \$4,992 2002 Oldsmobile Alero - \$5,192 2002 Dodge Intrepid - \$6,392 2003 Oldsmobile Alero - \$6,205

Maui Memorial Medical Center

FY 06 2002 Oldsmobile Alero - \$5,000 2003 Oldsmobile Alero - \$5,000 1998 Chevy Van - \$4,500

- FY 07 2007 Ford E450 van \$24,730
- FY 08 2003 Oldsmobile Alero \$5,500 2003 Oldsmobile Alero - \$5,500 2002 Oldsmobile Alero - \$5,000 2001 Chevy S-10 Pickup - \$4,700 2000 Ford 150 - \$6,000

HSPLS: HSPLS has this information included as part of its inventory of all fixed assets and equipment. HTA-CC: HTA complies.

NELHA: 2005 Chevrolet ³/₄ ton pickup: \$20,390.00; 2006 Chevrolet ³/₄ ton pickup: \$22.245.00.

PSD: See Appendix 7 for FY 08 vehicle acquisition costs.

UH: This information is recorded on department hard copy files. The UH plans to convert hard copy data to computer file form during the current fiscal year to facilitate data analysis.

(B) United States Environmental Protection Agency rated fuel economy;

AG: Not applicable; AG does not have vehicles.

B&F: Not applicable to B&F.

DAGS: DAGS has this information on file for its vehicles and will continue to keep accurate records.

DBEDT: Data will be collected if vehicles are acquired.

DCCA: DCCA does not own any vehicles.

DHHL: See Appendix 2.

DHRD: Not applicable. The department does not have any transportation vehicles.

DHS: DHS continues to coordinate the issuance of applicable requirements with SPO.

DLIR: 1999 Ford Windstar: 17 mpg City and 23 mpg Highway; 1994 Chevrolet Astrovan: 17 mpg City and 22 mpg Highway.

DLNR: DLNR is developing a program to track vehicle expenses and energy consumption for all cars in the department's inventory. DLNR continues to seek the advice of other state agencies through DBEDT's Lead by Example Leadership Group and will implement internal procedures as appropriate.

DOA: DOA continued to compare actual mileage with U.S. EPA fuel economy rating for all new and existing vehicles in the department's Automotive Management System.

- DOE: DOE has developed a database system (Maximo) to capture these data and is in the process of implementing and training users to input the data. See Appendix 3.
- DOH: These data are not available in one central file. Each program maintains its own records. Presently the department has over 40 programs at 80 facilities throughout the state. A database must be created for the individual programs to input the information requested in items A thru F. This database should be web accessible.

DOT-Airports: See Appendix 4.

DOT-Harbors: See Appendix 5.

DOT-Highways: The Highways Division is currently in the process of gathering data. See Appendix 6.

DOTAX: DOTAX will comply for each vehicle acquired beginning fiscal year 2005-2006.

FTZ: No vehicle was purchased in FY 2005-2006 and there is no intent to purchase any vehicle in the foreseeable future.

HCDA: Not applicable; maintained by DAGS.

HHFDC: Not applicable.

HHSC: Lē'ahi Hospital

2001 Dodge Stratus – 20 to 28 MPG 2001 Dodge Stratus – 20 to 28 MPG

2004 Chevy Malibu – 22 to 30 MPG

2001 Dodge Caravan – 16 to 23 MPG

Hilo Medical Center

2002 Oldsmobile Alero - 21 to 32 MPG

2002 Oldsmobile Alero - 21 to 32 MPG

2002 Oldsmobile Alero - 21 to 32 MPG

2001 Dodge Stratus - 20 to 28 MPG

2002 Oldsmobile Alero - 21 to 32 MPG

2002 Dodge Intrepid - 18 to 26 MPG

2003 Oldsmobile Alero - 20 to 29 MPG **Maui Memorial Medical Center** 2002 Oldsmobile Alero - 21 to 32 MPG 2003 Oldsmobile Alero - 21 to 32 MPG 1998 Chevy Van - 12 to 16 MPG 2007 Ford E450 van - 16 to 23 MPG 2003 Oldsmobile Alero - 21 to 32 MPG 2003 Oldsmobile Alero - 21 to 32 MPG 2002 Oldsmobile Alero - 21 to 32 MPG 2001 Chevy S-10 Pickup - 18 to 26 MPG 2000 Ford 150 - 12 to 16 MPG

HSPLS: This information is included with each vehicle at the time of acquisition from the dealers or manufacturers.

HTA-CC: HTA complies.

NELHA: See Appendix 8, "NELHA Vehicle Inventory and Fuel Economy."

PSD: EPA fuel efficiency data are available for light duty vehicles only (< 8500 lbs GVWR).

UH: This information is not recorded in department files. UH will conduct research and record information on departments' records in computer file form during the current fiscal year.

(C) Vehicle fuel configuration, such as gasoline, diesel, flex-fuel gasoline/E85, and dedicated propane;

AG: Not applicable; AG does not have vehicles.

B&F: Not applicable to B&F.

DAGS: DAGS has this information for each vehicle and will continue to track the data.

DBEDT: Data will be collected if vehicles are acquired.

DCCA: DCCA does not own any vehicles.

DHHL: See Appendix 2.

DHRD: Not applicable. The department does not have any transportation vehicles.

DHS: DHS continues to coordinate the issuance of applicable requirements with AMD.

DLIR: 1999 Ford Windstar - Gasoline/E85; 1994 Chevrolet Astrovan - Gasoline/E85.

DLNR: DLNR is developing a program to track vehicle expenses and energy consumption for all cars in the department's inventory. DLNR continues to seek the advice of other state agencies through DBEDT's Lead by Example Leadership Group and will implement internal procedures as appropriate.

DOA: DOA continued to maintain fuel configuration for all new and existing vehicles in the department's Automotive Management System.

DOE: DOE has developed a database system (Maximo) to capture these data and is in the process of implementing and training users to input the data. See Appendix 3.

DOH: These data are not available in one central file. Each program maintains its own records. Presently the Department has over 40 programs at 80 facilities throughout the State. A database must be created for the individual programs to input the information requested in items A thru F. This database should be web accessible.

DOT-Airports: See Appendix 4.

DOT-Harbors: See Appendix 5.

DOT-Highways: The Highways Division is currently in the process of gathering data. See Appendix 6. DOTAX: DOTAX will comply for each vehicle acquired beginning fiscal year 2005-2006.

FTZ: No vehicle was purchased in FY 2005-2006 and there is no intent to purchase any vehicle in the foreseeable future.

HCDA: Not applicable; maintained by DAGS.

HHFDC: Not applicable.

HHSC: Gasoline is the fuel used for all vehicles.

HSPLS: This information is included with each vehicle at the time of acquisition from the dealers or manufacturers.

HTA-CC: HTA complies.

NELHA: See Appendix 8,, "NELHA Vehicle Inventory and Fuel Economy."

PSD: See Appendix 7. Where vehicles are indicated with N/A, the programs did not provide the data.
UH: This information is recorded on department hard copy files. The UH plans to convert hard copy data to computer file form during the current fiscal year to facilitate data analysis.

(D) Actual in-use vehicle mileage;

AG: Not applicable; AG does not have vehicles. B&F: Not applicable to B&F. DAGS: DAGS has this information for each vehicle and will continue to track the data. DBEDT: Data will be collected if vehicles are acquired. DCCA: DCCA does not own any vehicles. DHHL: See Appendix 2. DHRD: Not applicable. The department does not have any transportation vehicles. DHS: DHS continues to coordinate with AMD on the issuance of uniform procedures DLIR: July 1, 2005 to June 30, 2006 1999 Ford Windstar - 2096.1 Miles 1994 Chevrolet Astrovan - 248.0 Miles July 1, 2006 to June 30, 2007 1999 Ford Windstar - 1616.6 Miles 1994 Chevrolet Astrovan - 166.3 Miles July 1, 2007 to June 30, 2008 1999 Ford Windstar - 1541.70 Miles 1994 Chevrolet Astrovan - 148.40 Miles DLNR: DLNR is developing a program to track vehicle expenses and energy consumption for all cars in the department's inventory. DLNR continues to seek the advice of other state agencies through DBEDT's Lead by Example Leadership Group and will implement internal procedures as appropriate. DOA: DOA continued to record in-use vehicle mileage for all new and existing vehicles in the department's Automotive Management System. The department continued to retrieve information electronically on gas consumption and odometer readings for each vehicle from DAGS Automotive Management Division, Tesoro and Hawai'i Petroleum for FY08. DOA continued to maintain vehicle refueling logs for programs that have vehicles which refuel at places other than DAGS, Tesoro and Hawai'i Petroleum. It also continued to retrieve information electronically on gas consumption and odometer readings for each vehicle from DAGS Automotive Management Division, Tesoro and Hawai'i Petroleum for FY08. DOE: DOE is in the process of implementing and training users to input the data. See Appendix 3. DOH: These data are not available in one central file. Each program maintains its own records. Presently the Department has over 40 programs at 80 facilities throughout the State. A database must be created for the individual programs to input the information requested in items A thru F. This database should be web accessible. DOT-Airports: See Appendix 4. DOT-Harbors: See Appendix 5. DOT-Highways: The Highways Division is currently in the process of gathering data. See Appendix 6. DOTAX: DOTAX will comply for each vehicle acquired beginning fiscal year 2005-2006. FTZ: No vehicle was purchased in FY 2005-2006 and there is no intent to purchase any vehicle in the foreseeable future. HCDA: HCDA complies. HHFDC: Not applicable.

HHSC: Lē'ahi Hospital

2001 Dodge Stratus 4,249 miles 2001 Dodge Stratus 4,074 miles 2004 Chevy Malibu 992 miles 2001 Dodge Caravan 618 miles Hilo Medical Center 2002 Oldsmobile Alero 18,845 miles 2002 Oldsmobile Alero 18,884 miles 2002 Oldsmobile Alero 19,649 miles

- 2001 Dodge Stratus 9,135 miles 2002 Oldsmobile Alero 8,550 miles 2003 Oldsmobile Alero 3,725 miles 2003 Oldsmobile Alero 3,725 miles **Maui Memorial Medical Center** 2002 Oldsmobile Alero - 23,041 miles 2003 Oldsmobile Alero - 93,447 miles 2003 Oldsmobile Alero - 93,447 miles 2007 Ford E450 van - 18,499 miles 2003 Oldsmobile Alero - 8,314 miles 2003 Oldsmobile Alero - 5,784 miles 2002 Oldsmobile Alero - 17,504 miles 2001 Chevy S-10 Pickup - 27,647 miles 2000 Ford 150 - 10,779 miles
- HSPLS: 152,068 total miles.
- HTA-CC: HTA complies.

NELHA: See Appendix 8, "NELHA Vehicle Inventory and Fuel Economy."

- PSD: See Appendix 7. Where vehicles are indicated with N/A, the programs did not provide the data.
- UH: This information is recorded on department hard copy files. The UH plans to convert hard copy data to computer file form during the current fiscal year to facilitate data analysis.
 - (E) Actual in-use vehicle fuel consumption; and

AG: Not applicable; AG does not have vehicles.

B&F: Not applicable to B&F.

DAGS: DAGS has this information for each vehicle and will continue to track the data.

DBEDT: Data will be collected if vehicles are acquired.

DCCA: DCCA does not own any vehicles.

DHHL: See Appendix 2.

- DHRD: Not applicable. The department does not have any transportation vehicles.
- DHS: DHS continues to coordinate with AMD on the issuance of applicable procedures.
- DLIR: July 1, 2005 to June 30, 2006

1999 Ford Windstar – 226.7 Gallons

1994 Chevrolet Astrovan - 21.7 Gallons

July 1, 2006 to June 30, 2007

1999 Ford Windstar – 176.4 Gallons

1994 Chevrolet Astrovan - 20.6 Gallons

July 1, 2007 to June 30, 2008

1999 Ford Windstar – 169.00 Gallons

1994 Chevrolet Astrovan – 20.8 Gallons

- DLNR: DLNR is developing a program to track vehicle expenses and energy consumption for all cars in the department's inventory. DLNR continues to seek the advice of other state agencies through DBEDT's Lead by Example Leadership Group and will implement internal procedures as appropriate.
- DOA: DOA continued to record in-use vehicle fuel consumption for all vehicles in the department's Automotive Management System. It also continued to retrieve information electronically on gas consumption and odometer readings for each vehicle from DAGS Automotive Management Division, Tesoro and Hawai'i Petroleum for FY08. The department continued to maintain vehicle refueling logs for programs that have vehicles which refuel at places other than DAGS, Tesoro and Hawai'i Petroleum. DOA continued to retrieve information electronically on gas consumption and odometer readings for each vehicle from DAGS Automotive Management Division and Hawai'i Petroleum. DOA continued to retrieve information electronically on gas consumption and odometer readings for each vehicle from DAGS Automotive Management Division and Hawai'i Petroleum for FY08.

DOE: DOE is in the process of implementing and training users to input the data. See Appendix 3.

DOH: These data are not available in one central file. Each program maintains its own records. Presently the department has over 40 programs at 80 facilities throughout the state. A database must be created for the individual programs to input the information requested in items A thru F. This database should be web accessible.

DOT-Airports: See Appendix 4..

DOT-Harbors: See Appendix 5.

DOT-Highways: The Highways Division is currently in the process of gathering data. See Appendix 6. DOTAX: DOTAX will comply for each vehicle acquired beginning fiscal year 2005-2006.

FTZ: No vehicle was purchased in FY 2005-2006 and there is no intent to purchase any vehicle in the foreseeable future.

HCDA: Not applicable; part of central motor pool data.

HHFDC: Not applicable.

HHSC: Lē'ahi Hospital

2001 Dodge Stratus - 193 gallons 2001 Dodge Stratus - 194 gallons 2004 Chevy Malibu – 41 gallons 2001 Dodge Caravan - 34 gallons **Hilo Medical Center** 2002 Oldsmobile Alero - 723 gallons 2002 Oldsmobile Alero - 739 gallons 2002 Oldsmobile Alero - 662 gallons 2001 Dodge Stratus - 330 gallons 2002 Oldsmobile Alero - 361 gallons 2002 Dodge Intrepid - 417 gallons 2003 Oldsmobile Alero – 128 gallons Maui Memorial Medical Center 2002 Oldsmobile Alero – 1,280 gallons 2003 Oldsmobile Alero – 4,450 gallons 1998 Chevy Van - 1,842 gallons 2007 Ford E450 van - 1.028 gallons 2003 Oldsmobile Alero – 396 gallons 2003 Oldsmobile Alero – 275 gallons 2002 Oldsmobile Alero – 972 gallons 2001 Chevy S-10 Pickup - 1,455 gallons 2000 Ford 150 - 898 gallons

HSPLS: 10,490.37 gallons.

HTA-CC: HTA complies.

NELHA: See Appendix 8, "NELHA Vehicle Inventory and Fuel Economy."

PSD: FY08 information is See Appendix 7. Where vehicles are indicated with N/A, the programs did not provide the data.

UH: This information is not recorded in department files. The UH will begin vehicle fuel usage data collection in computer file form during the current fiscal year to facilitate data analysis.

(F) Actual in-use annual average vehicle fuel economy;

AG: Not applicable; AG does not have vehicles.
B&F: Not applicable to B&F.
DAGS: DAGS has this information for each vehicle and will continue to track the data.
DBEDT: Data will be collected if vehicles are acquired.
DCCA: DCCA does not own any vehicles.
DHHL: See Appendix 2.
DHRD: Not applicable. The department does not have any transportation vehicles.
DHS: DHS continues to coordinate with AMD on issuing applicable procedures.
DLIR: July 1, 2005 to June 30, 2006

1999 Ford Windstar – 9.25 Miles Per Gallon
July 1, 2006 to June 30, 2007
1999 Ford Windstar – 9.16 Miles Per Gallon

1994 Chevrolet Astrovan - 8.07 Miles Per Gallon

A decrease of 3.36 miles per gallon resulted from mechanical problems with the vehicle. The mechanical problems reduced the vehicle total miles driven in FY07 by a total of 81.7 miles (248 miles in FY06 to 166.3 in FY07), a 33 percent reduction. The inability to drive the vehicle accounts for decrease in the miles per gallon of 33 percent. The mechanical problems which prohibited the use of vehicle has been repaired by the DAGS Automotive Division.

July 1, 2007 to June 30, 2008

1999 Ford Windstar - 9.12 Miles Per Gallon

1994 Chevrolet Astrovan - 8.87 Miles Per Gallon

- DLNR: DLNR is developing a program to track vehicle expenses and energy consumption for all cars in the department's inventory. DLNR continues to seek the advice of other state agencies through DBEDT's Lead by Example Leadership Group and will implement internal procedures as appropriate.
- DOA: DOA is calculating FY08 annual average vehicle fuel economy for each vehicle. Once completed, information will be distributed to program managers for their review and information.
- DOE: DOE is in the process of implementing and training users to input the data. See Appendix 3.
- DOH: These data are not available in one central file. Each program maintains its own records. Presently the department has over 40 programs at 80 facilities throughout the state. A database must be created for the individual programs to input the information requested in items A thru F. This database should be web accessible.

DOT-Airports: See Appendix 4.

DOT-Harbors: See Appendix 5.

DOT-Highways: The Highways Division is currently in the process of gathering data. See Appendix 6. DOTAX: DOTAX will comply for each vehicle acquired beginning fiscal year 2005-2006.

FTZ: No vehicle was purchased in FY 2005-2006 and there is no intent to purchase any vehicle in the foreseeable future.

HCDA: Not applicable; part of central motor pool data.

HHFDC: Not applicable.

HHSC: Lē'ahi Hospital

2001 Dodge Stratus – 22 mpg 2001 Dodge Stratus – 21 mpg 2004 Chevy Malibu – 24 mpg 2001 Dodge Caravan – 18 mpg **Hilo Medical Center** 2002 Oldsmobile Alero – 26 mpg 2002 Oldsmobile Alero – 25 mpg 2002 Oldsmobile Alero – 29 mpg 2001 Dodge Stratus – 27 mpg 2002 Oldsmobile Alero – 23 mpg 2002 Dodge Intrepid – 25 mpg 2003 Oldsmobile Alero – 29 mpg **Maui Memorial Medical Center** 2002 Oldsmobile Alero – 18 mpg 2003 Oldsmobile Alero – 21 mpg 1998 Chevy Van – 12 mpg 2007 Ford E450 van - 18 mpg 2003 Oldsmobile Alero – 21 mpg 2003 Oldsmobile Alero – 21 mpg 2002 Oldsmobile Alero – 18 mpg 2001 Chevy S-10 Pickup - 19 mpg 2000 Ford 150 – 12 mpg

HSPLS: 14.5 miles per gallon. HTA-CC: HTA complies.

NELHA: See Appendix 8, "NELHA Vehicle Inventory and Fuel Economy."

PSD: See Appendix 7.

UH: This information is not recorded in department files. The UH will facilitate data analysis during the current fiscal year.

Act 96 SLH 2006: Transportation Vehicles and Fuel

- (9) Beginning with **fiscal year 2005-2006** as the baseline with respect to each agency that operates a fleet of thirty or more vehicles, collect and maintain, in addition to the data in paragraph (8), the following:
 - (A) Information on the vehicles in the fleet, including vehicle year, make, model, gross vehicle weight rating, and vehicle fuel configuration;

AG: Not applicable; AG does not have a fleet.

B&F: Not applicable to B&F.

DAGS: DAGS has this information for each vehicle and will continue to track the data.

DBEDT: Does not apply. DBEDT does not operate 30 or more vehicles.

DCCA: DCCA does not own any vehicles.

DHHL: DHHL does not operate a fleet of 30+ vehicles.

DHRD: Not applicable. The department does not operate a fleet of vehicles.

DHS: As applicable, DHS will coordinate the issuance of procedures with AMD.

DLIR: DLIR only owns two light-duty vehicles and these questions are not applicable.

- DLNR: DLNR continues to gather the required information on its vehicle fleet. DLNR is developing a program to track vehicle expenses and energy consumption for all cars in the department's inventory. DLNR continues to seek the advice of other state agencies through DBEDT's Lead by Example Leadership Group and will implement internal procedures as appropriate.
- DOA: DOA continued to maintain information on vehicle year, make, model, gross vehicle weight rating, and vehicle fuel configuration for all new and existing vehicles in the department's Automotive Management System.

DOE: DOE is in the process of implementing and training users to input the data. See Appendix 3.

DOH: These data are not available in one central file. Each program maintains its own records. Presently the department has over 40 programs at 80 facilities throughout the state. A database must be created for the individual programs to input the information requested in items A thru F. This database should be web accessible.

DOT-Airports: All this information is under the new contract in progress issued by Airport Division Engineering Facilities Maintenance Section. See Appendix 4.

DOT-Harbors: See Appendix 5.

DOT-Highways: The Highways Division is currently in the process of gathering data. See Appendix 6.

DOTAX: Not applicable; DOTAX does not have a fleet of thirty vehicles or more.

FTZ: Not applicable; FTZ does not operate a fleet of thirty or more vehicles.

HCDA: HCDA does not maintain fleet of 30+ vehicles.

HHFDC: Not applicable.

HHSC: None of the hospitals operates a fleet of thirty or more vehicles.

HSPLS: Not applicable; HSPLS does not operate a fleet of more than 30 vehicles.

HTA-CC: Not applicable.

NELHA: Not applicable; NELHA does not operate a fleet of thirty or more vehicles.

PSD: See Appendix 7.. The following classification was used to determine the gross vehicle weight rating (GVWR):

VEHICLE CLASSIFICATION	WEIGHT
Class 1	0 - 6,000 lbs
Class 2	6,001 - 10,000 lbs
Class 3	10,001 - 14000 lbs
Class 4	14,001 - 16,000 lbs
Class 5	16,001 - 19,500 lbs
Class 6	19,501 - 26,000 lbs
Class 7	26,001 - 33,000 lbs
Class 8	33,001 lbs and over

UH: This information is recorded on department hard copy files. UH will convert hard copy data to computer files during the current fiscal year to facilitate data analysis.

(B) Fleet fuel usage, by fuel;

AG: Not applicable; AG does not have a fleet.

B&F: Not applicable to B&F.

DAGS: DAGS has this information for each vehicle and will continue to track the data.

DBEDT: Does not apply. DBEDT does not operate 30 or more vehicles.

DCCA: DCCA does not own any vehicles.

DHHL: DHHL does not operate a fleet of 30+ vehicles.

DHRD: Not applicable. The department does not operate a fleet of vehicles.

DHS: As applicable, DHS will coordinate the issuance of procedures with AMD.

DLIR: DLIR only owns two light-duty vehicles and these questions are not applicable.

DLNR: DLNR is developing a program to track vehicle expenses and energy consumption for all cars in the department's inventory. DLNR continues to seek the advice of other state agencies through DBEDT's Lead by Example Leadership Group and will implement internal procedures as appropriate.

DOA: DOA continued to record in-use vehicle fuel consumption for all vehicles in the department's Automotive Management System. It also continued to retrieve information electronically on gas consumption and odometer readings for each vehicle from DAGS Automotive Management Division, Tesoro and Hawai'i Petroleum for FY08. The department continued to use vehicle refueling logs for programs that have vehicles which refuel at places other than DAGS, Tesoro and Hawai'i Petroleum. DOA continued to retrieve information electronically on gas consumption and odometer readings for each vehicle from DAGS Automotive Management Division, Tesoro and Hawai'i Petroleum for FY08. Once completed, information will be distributed to program managers for their review and information. See Appendix 3.

DOE: DOE is in the process of implementing and training users to input the data.

DOH: These data are not available in one central file. Each program maintains its own records. Presently the department has over 40 programs at 80 facilities throughout the state. A database must be created for the individual programs to input the information requested in items A thru F. This database should be web accessible.

DOT-Airports: All under the new contract in progress issued by Airport Division Engineering Facilities Maintenance Section. See Appendix 4.

DOT-Harbors: See Appendix 5.

DOT-Highways: The Highways Division is currently in the process of gathering data. See Appendix 6. DOTAX: Not applicable; DOTAX does not have a fleet of thirty vehicles or more.

FTZ: Not applicable; FTZ does not operate a fleet of thirty or more vehicles.

HCDA: HCDA does not maintain a fleet of 30+ vehicles.

HHFDC: Not applicable.

HHSC: None of the hospitals operates a fleet of thirty or more vehicles.

HSPLS: Not applicable; HSPLS does not operate a fleet of more than 30 vehicles.

HTA-CC: Not applicable.

NELHA: Not applicable; NELHA does not operate a fleet of thirty or more vehicles.

PSD: The following defines how much each program spent for fuel during the past fiscal year.

PROGRAM	COST OF FUEL
Kulani	\$54,032.34
НССС	\$45,368.46
MCCC	\$16,769.35

0000	\$46,588.84
WCCC	\$12,859.99
Intake Service	\$1,846.84
Sheriff	\$136,561.96
Admin	\$12,251.92
HCF	\$23,387.73
WCF	\$8,537.72
KCCC	\$8,014.14
CPS	\$15,482.69
Health care	\$1,109.21
NED	\$19,005.95
НРА	none

UH: This information is not recorded on department hard copy files. UH will begin recording fleet fuel usage by fuel during the current fiscal year.

(C) Fleet mileage; and

AG: Not applicable; AG does not have a fleet.

B&F: Not applicable to B&F.

DAGS: DAGS has this information for each vehicle and will continue to track the data.

DBEDT: Does not apply. DBEDT does not operate 30 or more vehicles.

DCCA: DCCA does not own any vehicles.

DHHL: DHHL does not operate a fleet of 30+ vehicles.

DHRD: Not applicable. The department does not operate a fleet of vehicles.

DHS: As applicable, DHS will coordinate the issuance of procedures with AMD.

DLIR: DLIR only owns two light-duty vehicles and these questions are not applicable.

DLNR: DLNR is developing a program to track vehicle expenses and energy consumption for all cars in the department's inventory. DLNR continues to seek the advice of other state agencies through DBEDT's Lead by Example Leadership Group and will implement internal procedures as appropriate.

DOA: DOA continued to record in-use vehicle mileage for all new and existing vehicles in the department's Automotive Management System. It also continued to retrieve information electronically on gas consumption and odometer readings for each vehicle from DAGS Automotive Management Division, Tesoro and Hawai'i Petroleum for FY08. The department continued to maintain vehicle refueling logs for programs that have vehicles which refuel at places other than DAGS, Tesoro and Hawai'i Petroleum. DOA continued to retrieve information electronically on gas consumption and odometer readings for each vehicle from DAGS Automotive Management Division, Tesoro and Hawai'i Petroleum. DOA continued to retrieve information electronically on gas consumption and odometer readings for each vehicle from DAGS Automotive Management Division, Tesoro and Hawai'i Petroleum for FY08. Once completed, information will be distributed to program managers for their review and information.

DOE: DOE is in the process of implementing and training users to input the data. See Appendix 3.

DOH: These data are not available in one central file. Each program maintains its own records. Presently the department has over 40 programs at 80 facilities throughout the state. A database must be created for the individual programs to input the information requested in items A thru F. This database should be web accessible.

DOT-Airports: All this information is under the new contract in progress, issued by Airport Division Engineering Facilities Maintenance Section. See Appendix 4.

DOT-Harbors See Appendix 5.

DOT-Highways: The Highways Division is currently in the process of gathering data. See Appendix 6. DOTAX: Not applicable; DOTAX does not have a fleet of thirty vehicles or more.

FTZ: Not applicable; FTZ does not operate a fleet of thirty or more vehicles.

HCDA: HCDA does not maintain a fleet of 30+ vehicles.

HHFDC: Not applicable.

HHSC: None of the hospitals operates a fleet of thirty or more vehicles.

HSPLS: Not applicable; HSPLS does not operate a fleet of more than 30 vehicles.

HTA-CC: Not applicable.

NELHA: Not applicable; NELHA does not operate a fleet of thirty or more vehicles.

PSD: See Appendix 7. Where vehicles are indicated with N/A, the programs did not provide the data.

UH: This information is recorded on department hard copy files. UH will compile and record data on computer file during current fiscal year.

(D) Overall annual average fleet fuel economy and average miles per gallon of gasoline and diesel.

AG: Not applicable; AG does not have a fleet.

B&F: Not applicable to B&F.

DAGS: DAGS has this information for each vehicle and will continue to track the data.

DBEDT: Does not apply. DBEDT does not operate 30 or more vehicles.

DCCA: DCCA does not own any vehicles.

DHHL: DHHL does not operate a fleet of 30+ vehicles.

DHRD: Not applicable. The department does not operate a fleet of vehicles.

DHS: As applicable, DHS will coordinate the issuance of procedures with AMD.

DLIR: DLIR only owns two light-duty vehicles and these questions are not applicable.

DLNR: DLNR is developing a program to track vehicle expenses and energy consumption for all cars in the department's inventory. DLNR continues to seek the advice of other state agencies through DBEDT's Lead by Example Leadership Group and will implement internal procedures as appropriate.

DOA: DOA is calculating FY08 annual average vehicle fuel economy for each vehicle. Once completed, the information will be distributed to program managers for their review and information.

DOE: DOE is in the process of implementing and training users to input the data. See Appendix 3.

DOH: These data are not available in one central file. Each program maintains its own records. Presently the department has over 40 programs at 80 facilities throughout the state. A database must be created for the individual programs to input the information.

DOT-Airports: All this information is under the new contract in progress, issued by Airport Division Engineering Facilities Maintenance Section. See Appendix 4.

DOT-Harbors: See Appendix 5.

DOT-Highways: The Highways Division is currently in the process of gathering data. See Appendix 6. DOTAX: Not applicable; DOTAX does not have a fleet of thirty vehicles or more.

FTZ: Not applicable; FTZ does not operate a fleet of thirty or more vehicles.

HCDA: HCDA does not maintain fleet of 30+ vehicles.

HHFDC: Not applicable.

HHSC: None of the hospitals operates a fleet of thirty or more vehicles.

HSPLS: Not applicable; HSPLS does not operate a fleet of more than 30 vehicles.

HTA-CC: Not applicable.

NELHA: Not applicable; NELHA does not operate a fleet of thirty or more vehicles.

PSD: See Appendix 7. City MPG and highway MPG were accumulated based on the vehicle type and the GVWR.

Article II. UH: This information is not recorded in department files. UH will begin data analysis to determine fleet fuel economy during the current fiscal year.

Renewable Energy and Resource Development

All affected agencies and programs are directed to review internal policies, rules, and practices regarding permitting requirements affecting renewable energy development. To the extent possible, permitting policies and practices should be streamlined to expedite implementation of renewable energy projects. It is requested that agencies prepare a report to my office identifying the specific steps they have taken to expedite the approval of renewable energy projects.

DBEDT: DBEDT prepared a report outlining potential models for permit facilitation and streamlining as implemented by other states, in response to SCR 164 of the 2007 session of the Hawai'i State Legislature. The report is available on DBEDT's energy website.

During the 2008 session of the Hawai'i State Legislature, two bills were passed that help to expedite the permitting of renewable energy projects in Hawai'i. HB 2863 and HB 2505 were passed in FY 2008, and signed on July 1, 2008 as Act 207 and Act 208 respectively.

Act 207 establishes new responsibilities for the Director of DBEDT as the state's Energy Resources Coordinator. The Coordinator will create a streamlined permitting process that includes state and county permits required for the siting, development, construction, and operation of a new renewable energy facility of at least 200 megawatts capacity. The bill requires the Coordinator to hold a public meeting on the island where the project will be located to promote awareness and encourage public input.

Act 208 establishes a full-time renewable energy facilitator position in DBEDT. The facilitator will report to the Energy Resources Coordinator. The facilitator's duties will include facilitating existing permits, proposing changes to the permit process and coordinating energy projects.

DLNR: DLNR continues to review internal policies, rules, and practices regarding permitting requirements affecting renewable energy development. To the extent possible, DLNR streamlines permitting policies and practices to expedite implementation of renewable energy projects. Two of these permitting processes are detailed below.

DLNR issuance of Conservation District Use Permits: The Office of Conservation and Coastal Lands (OCCL) oversees activities within the Conservation District. OCCL rules state that "energy generation facilities utilizing the renewable resources of the area (e.g. hydroelectric or wind farms)...and other such land uses which are undertaken by non-governmental entities which benefit the public and are consistent with the purpose of the conservation district." Thus, renewable energy projects can be located within the Conservation District with approval by way of a Conservation District Use Permit.

DLNR issuance of Incidental Take Licenses: In order to be in compliance with both state and federal endangered species laws, energy and resource development projects that impact threatened and endangered species must be issued an Incidental Take License by both DLNR and the United States Fish and Wildlife Service (USFWS). Both agencies require that project proponents complete a Habitat Conservation Plan (HCP) prior to the issuance of the take licenses. In order to minimize procedural burdens on the applicants, DLNR works cooperatively with USFWS in concurrently processing the request for take licenses. After notice in the periodic bulletin of the Office of Environmental Quality Control, a public hearing is held on the islands affected, which is, whenever possible, held jointly with USFWS. The Board of Land and Natural Resources (BLNR) may approve the federal HCP without requiring a separate version if the federal HCP satisfies all the criteria of the state endangered species statutes. All state agencies, to the extent feasible, work cooperatively to process applications for HCPs on a consolidated basis including concurrent processing of any state land use permit application that may be required. In order to further streamline the process of approving an HCP and the issuance of an Incidental Take License, the state established the Endangered Species Recovery Committee that serves as a consultant to the BLNR by reviewing all HCPs and making recommendations regarding whether they should be approved.

DLNR Revised Application to Lease State Lands: For instances when renewable energy producers are interested in leasing state lands, the application form has been revised to comply with Section 171-95 (a) (2) (3) (c), HRS. Land Division takes steps to process the request in a timely manner. Staff coordinates the applicants' request for a lease with OCCL, DOFAW, OHA, and other

government agencies. Then, staff obtains approval from the Land Board for the issuance of a direct lease.

DOA: Research on renewable energy projects may require the importation of various types of microorganisms or plant materials that require permitting through the Plant Industry Division of DOA. During FY08, the Plant Industry Division has been upgrading its Invicta database software and its hardware platform which will make the import process more efficient. Governor Lingle signed Act 159 in FY07 which established an energy feedstock program within DOA to encourage the production of energy feedstock in Hawai^ci and create milestones and objectives for energy feedstock to be grown in the state to meet its energy requirements. The legislature did not appropriate any funds for the program so DOA has been implementing and moving this program forward in FY 08 primarily thorough collaboration with the Strategic Industries Division in DBEDT.

FTZ: FTZ is supporting the efforts of the DBEDT Strategic Industries Division in this regard.

HCDA: There are no plans to expedite approval processes as HCDA already has Administrative Rules that mandate decisions be made within a set amount of time or else permits are automatically approved. However, HCDA is currently requiring, as a permit condition, private developers to consult with HECO, DBEDT Energy Division, and the Board of Water Supply on ways to conserve/preserve resources. HCDA is also considering, as part of its Mauka Area Plan & Rules incorporation of LEED standards as a requirement of all development – public or private – in its Kaka'ako Community Development District. Same is true at Kalaeloa. Neither will be complete before January 12, 2007, but this policy direction may be incorporated into report.

HHFDC: HHFDC is evaluating the possibility of installing a photovoltaic system at the Pohulani Elderly Project building.

- HTA-CC: HTA and HCC continue reviewing all CIP projects to implement where possible renewable energy or energy efficient programs and projects whenever available.
- UH: UH Mānoa Established the positions of Energy Manager and Assistant Energy Manager to review the application of renewable energy and energy reduction technology to the existing Campus Renewal CIP projects.

<u>Act 160</u>

(1) Energy consumption in kilowatt hours for the past year (July 1, 2007, to June 30, 2008) FY '08 (kWh consumption);

Data were received directly from the electric utilities and are presented in Table 2.

FY '08 (paid for kWh consumption);

Data were received directly from the electric utilities and are presented in Table 4.

<u>Act 160</u>

(2) Steps taken to inventory, investigate, plan, and implement energy reduction efforts; and

AG: The department continues to issue reminders to staff to "Switch it Off," keep blinds closed, and report equipment malfunctions. All new equipment purchases must be Energy Star®, or approved by Administrative Services Office if not Energy Star®.

B&F: Please see items 4, 5, 6 and 7 under "Act 96 SLH 2006: Buildings and Facilities."

DAGS: DAGS is replacing mechanical equipment as the equipment reaches its expected life span or begins to cause problems, and as funding is available. The new equipment has higher efficiencies due to newer technologies and because the older equipment has decreased in efficiency due to age.

DAGS is working with the service and maintenance contractors to aid in the inventory process, which works well since they have the greatest knowledge of the operations and condition of the equipment because they physically see and inspect all of the major equipment on a quarterly basis, at minimum.

DAGS is preparing cost/benefit analyses for replacing existing a/c systems with new, more efficient, systems prior to the existing systems reaching their expected life span.

A cost/benefit analysis determined that replacing the existing energy efficient electronic ballasts and T-8 lamps with the new Super T-8 lighting ballasts and lamps is cost justified. Projects for lighting retrofits are being done with Super T-8s.

DAGS has been working closely with HECO to streamline the process for tracking projects to ensure and encourage maximum participation in rebate programs. HECO rebates are being submitted as projects get implemented.

During fiscal year '08, eleven pilot retrocommissioning projects were initiated on O'ahu, Hawai'i, Maui and Kaua'i to develop strategies that would result in energy savings. Some projects have completed work up to the investigation phases and implemented minor repairs. Other recommended work will need to be included in future CIP budget requests.

DAGS, on behalf of the HSPLS, also plans to implement retrocommissioning on all libraries statewide during FY 2009 subject to available funding. Qualifications from interested retrocommissioning consultants have been solicited and are currently pending selection for the various projects.

DBEDT: DBEDT worked with DOT- Airports Division to develop a statewide Request for Proposals (RFP) for photovoltaic systems. In March 2008, DOT awarded a competitive contract to develop these photovoltaic systems at 10 transportation facilities, including the Honolulu, Kona, Kalaeloa, Kahului, Līhu'e, Moloka'i and Lāna'i Airports as well as the Hawai'i Foreign Trade Zone in Honolulu. The solar systems are scheduled to be developed and installed at the 10 DOT facilities over the next two years.

Conferences, Seminars and Meetings: A total of 2,211 people attended DBEDT-sponsored energy-related conferences, seminars and meetings. The following are meetings and conferences not discussed above.

<u>Rebuild Hawai'i Consortium.</u> The Rebuild Hawai'i Consortium met on November 27, 2007. Topics included American Samoa Power Authority; Sustainability Planning/Projects at DOD; Hawai'i BuiltGreenTM Certification; Workforce Education in Photovoltaic Design at HPU; SunEdison in Hawai'i; impact of UV on productivity, indoor air quality and energy savings; and City and County of Honolulu-Sustainability Plan. At the Consortium meeting held March 6, 2008, new officers were elected. The meeting topics included the HECO Home Energy Challenge video; the Hawai'i Clean Energy Initiative; the Ni'ihau PV project; the Hawai'i Air National Guard/Hickam AFB—Air Compressor project; preliminary research on Cold Seawater Agriculture Applications; Micro-Planet voltage regulator demonstrations; Johnson Controls' needs assessment tool; Sustainable Saunders project; and the proposed transfer of energy efficiency DSM programs to a third-party public benefits fund administrator. Another meeting of the Consortium was held June 13, 2008. Presentation topics included: USDOE-Hawai'i Clean Energy Initiative; HECO Efficiency Update; Update on Green House Gas Task Force and Climate Change Registry; Wave Energy; Restaurant Benchmarking Project; the latest on LED Lighting; Energy Systems Analysis. There were 51 participants.

<u>2007 Pacific Coast Electrical Association Conference and Expo (PCEA-07).</u> DBEDT and the US Department of Energy (USDOE) were co-sponsors of the HECO Pacific Coast Electrical Association conference and exposition held on Maui, September 6-8, 2007. More than 315 representatives of utilities, government, vendors, private sector and non-profit organizations attended this bi-annual event. The theme of the conference was "Today's Innovation....Tomorrow's Independence." There were 350 attendees, including energy managers, property managers, consultants, vendors, trade allies, utility personnel, and government representatives. The PCEA featured tracks on energy efficiency, facilities and plant engineering, renewable energy and sustainability, and new technologies. DBEDT received a grant from the USDOE to support Hawai'i State Energy Program personnel travel to this event. The USDOE also hosted an exhibit at the event.

2007 Pacific Peer Exchange. DBEDT organized the 2007 Pacific Peer Exchange Meeting held on September 4, 2007, in Honolulu. Representatives from the Territories of American Samoa and Guam, Commonwealth of the Northern Mariana Islands, State of Hawai'i, counties of Kaua'i and Hawai'i, and the U.S. Department of Energy Golden Field Office participated in the Peer Exchange meeting. Funding was provided by USDOE for the participation at this event for the Pacific entities. The agenda included updates on issues, funding opportunities, and procedures by the State of Hawai'i, NETL, Golden Project Management Center, as well as updates on current activities by other participants. The participants found the Pacific Peer Exchange valuable as it provided an opportunity to meet and interact with USDOE personnel as well as the Pacific entities and to learn from each other.

<u>American Samoa Power Authority Board of Directors (ASPA) briefing.</u> DBEDT-SID arranged for a briefing for the five members of the American Samoa Power Authority Board of Directors, Chief Executive Officer, Special Projects and Grants Manager, and Engineering Services Division by companies in Hawai'i that provide products and services that might be of interest to them. The Board of Directors also manages water and sewer and solid waste. The utility has a 30 MW base load. Imperium Hawai'i provided information on biodiesel and its development in Hawai'i. Sopogy, Inc. provided information on a modular concentrated solar thermal system that could have applications in the islands. Luis Vega discussed small wind and solar systems for Pacific Islands, based on his experience with village systems in Fiji, and also some cautions and parameters for an OTEC plant. Maurice Kaya spoke about Hawai'i energy policies and programs. The meeting ended with agreements for Hawai'i to continue to provide information to ASPA, especially in the area of energy efficiency.

<u>West Coast Collaborative (RBA Cohort).</u> Hawai'i is working with a collaborative of Western States (Alaska, California, Idaho, Oregon and Washington) to have a single voice on various projects that would impact the region. The group will work with regional and national goals to evaluate tools which benchmark building energy and impact on the environment. The first project will be to understand how Energy Star® Portfolio Manager works, its basic structure, and derivation of assumptions. This project will be funded by NASEO through Oregon. DBEDT is collaborating on a statement of work.

<u>University of Washington Industrial Assessment Center.</u> DBEDT-SID assisted the University of Washington Industrial Assessment Center with local contacts for energy audits of large manufacturing/industrial facilities in Hawai'i. The program is funded by USDOE.

<u>Sustainability Design Tools Workshops.</u> A workshop on Commissioning and LEED was held April 4, 2008. Featured presenters were Frank Shadpour, President of SC Engineers, Inc. and an ASHRAE Fellow; Tim Jacoby, Vice President of Facilities, Plant Operations and Planning at Rady Children's Hospital in San Diego, California; and George Benda, CEO of Chelsea Group. The workshop covered the benefits of commissioning and retrocommissioning, what is involved and strategies for implementation. The emphasis was on LEED projects and utilization of controls. Real world examples of various commercial building projects were presented.

The last of a series of 13 Sustainability Workshops, a partnership between HECO and DBEDT, was held June 27, 2008. The purpose of the workshop was to define sustainability, provide case studies of Hawai'i business efforts, and discuss tools that businesses can use to direct their sustainability efforts. "Sustainability" was defined as "meeting the needs of the present without compromising the ability of future generations to meet their needs." The workshop reviewed basic issues, defined commonly used terminology, and presented methods used to achieve sustainability. Speakers included conference presenters Kirsten and David Turner; case study presenters from Punahou School, US Army Garrison, Maui Land & Pineapple Company, and Grace Pacific. Discussion of Tools included ecological foot printing, green house gas accounting, energy efficiency audits, financing energy efficiency, triple bottom line accounting, and workforce development. There were an estimated 100 participants.

<u>U.S Department of Defense (DOD) Pacific Region Energy Management Forums.</u> Staff attended the US Army/ USDOE sponsored forum at Fort Shafter on March 17 and 18, 2008. Information on environmental sustainability, strategic initiatives, renewable energy technologies, energy challenges, oil outlook. Information on initiatives for acquisition of on-site energy generation including production of renewable energy for all DOD installations in Hawai'i; Army privatized housing initiative; zero net energy installations; and sustainable design was presented. Staff met with representatives of the US Department of Energy Federal Management Training to lay the ground work for technical assistance and training for state facilities.

Staff attended a DOD Industry Forum on August 15-16, 2007 at the Marine Corps Base Hawai'i Officers' Club on O'ahu. The intent of the Forum was to educate and inform industry of DOD's procurement/acquisition process, opportunities, land assets, contractual and legal parameters, business and program goals and DOD's strategic and economic vision for distributed generation. It is understood that DOD is planning to issue requests for proposals for distributed generation, especially renewable energy in the State of Hawai'i, on a DOD-Hawai'i-wide basis.

State Facilities Energy Management Advisory Committee: DBEDT convened the State Facilities Energy Management Advisory Committee (EMAC) in 2007. The Committee was created by the Hawai'i State Legislature through Act 96 of 2006, Governor Lingle's comprehensive "Energy For Tomorrow" energy initiative. This legislation called for the State's Energy Resource Coordinator to appoint an advisory committee to provide input on State energy management in the following seven areas:

- (1) Improve the use of energy-savings contracts;
- (2) Improve procurement of Energy Star® and other energy efficient products;
- (3) Improve building design;
- (4) Reduce energy use;
- (5) Enhance applications of efficient and renewable energy technologies at state facilities;
- (6) Establish benchmarks and evaluate the State's progress in incorporating energy efficiency and conservation for state facilities, vehicles, and equipment; and

(7) Make recommendations on how and when to conduct periodic energy audits.

The committee was composed of representatives from state agencies including the University of Hawai'i, energy service companies, utility companies, equipment manufacturers, construction and architectural companies, environmental, energy and consumer groups, and other energy related organizations. After meeting several times in the fall of 2007, the committee issued a final report the Legislature with recommendations on energy management, which included:

- Ask the State Legislature to provide to DBEDT funding to conduct energy audits of state facilities in accordance with American Society of Heating, Refrigerating, and Air Conditioning Engineers (ASHRAE) Standards.
- Adopt ASHRAE Standard 90.1, 2004, as the minimum energy standard for new and renovated buildings and facilities to bring buildings in compliance with the U.S. Green Building Council's Leadership in Energy and Environmental Design (LEEDTM) standards.

- Set up an "award" system by which agencies that implement energy savings projects receive a share of the savings in the next annual budget for pursuit of additional energy savings projects, as an incentive to actively pursue energy conservation.
- Provide DBEDT with funding to identify LEED projects, develop commissioning (enhanced and fundamental commissioning) and retrocommissioning guidelines as defined by LEED
- Consider establishing a State of Hawai'i Department of Energy which would be given additional administrative powers in order to fulfill the energy mandates already established by the Administration and the State Legislature.

Other Energy Efficiency Projects:

<u>Technical assistance for Energy Performance Contracting (EPC).</u> DBEDT's technical consultant provided information on EPC project financing mechanisms and processes, focusing on municipal tax-exempt leasing, and addressed in detail the substantial financial benefits to Hawai'i Public Housing Authority (HPHA) associated with HUD's frozen rolling base incentive. A representative of Budget and Finance met with the HPHA and provided assurances to the Chairman of the Board that HPHA would not be assuming a financial risk by proceeding with the investment grade audit portion of the RFP. He also provided information on HUD's evolving asset management approach to their project-based accounting procedures and described how the new standards might affect HPHA's ability to bundle EPC projects.

The consultant also provided technical assistance to state facilities including: developing guidelines to implement energy performance contracting; provided guidelines on how to select facilities; developed a spreadsheet to list building and selected conservation measures to use in collecting data to identify candidate projects; and provided guidelines for performance-based maintenance contracts.

The <u>Rebuild Hawai'i Coordinator program</u> was established in 2004. The initial contract created the position of Rebuild Hawai'i Coordinator to work with Hawai'i Rebuild America partnerships, Rebuild Hawai'i Consortium members, and other interested organizations to promote efficient energy resource utilization and provide technical assistance to Hawai'i Rebuild America partners to encourage energy efficiency in buildings. A significant part of this program was to provide technical assistance to the Hawai'i Public Housing Authority. A report on the potential of enhanced use leasing for state facilities projects was also prepared.

<u>Commissioning and Retrocommissioning.</u> The Energy Program Specialist was assigned the management of a consulting contract for Commissioning and Retrocommissioning upon the resignation of another staff member. Major effort was expended in updating contract files and becoming familiar with the project. A roadmap was developed for use by the Branch Manager to authorize further work by the consultant. There are two active projects to provide technical assistance to state agencies. One is for a retrocommissioning project at the University of Hawai'i's Coconut Island Laboratory; the other, to review the DAGS Design Consultant Criteria Manual.

<u>Technical assistance from the U.S. Department of Energy (USDOE).</u> On February 1, 2008, the Manager of the Energy Efficiency Branch and Energy Conservation Program Specialist met with David Rodgers, USDOE to discuss energy efficiency opportunities in buildings, educational facilities, challenges in Hawai'i for energy service companies (ESCOs), and to stress the importance of more information on power purchase agreements and integrated efficiency/renewable energy financial tools. The Director of DAGS briefed Rodgers on the statewide solicitation for EPC.

On March 19, 2008, the Manager of the Energy Efficiency Branch and Energy Conservation Program Specialist met with David McAndrew, USDOE Federal Energy Management Program (FEMP) and representatives of Pacific Northwest National Laboratory and the National Renewable Energy Laboratory to share information on programs available and opportunities for mutual cooperation. Support to the Hawai'i Clean Energy Initiative from FEMP and the labs could include training for energy auditors, use and understanding of monitoring and verification, and use and understanding of various financing alternatives for ESPC. USDOE has made technical assistance to Hawai'i for ESPC a high priority and is offering various services through the State Energy Office. Mark Bailey is the contact at USDOE and Carilyn Shon is the Hawai'i contact.

Preliminary discussions were held with the Energy Services Coalition (ESC) which has been provided funding by the USDOE through the National Association of State Energy Officials (NASEO) to assist State Energy Offices with high level and programmatic support to build the capability in the

state to support energy savings performance contracting. ESC was assigned by the Hawai'i Energy Office to assist DAGS to develop a statewide solicitation for EPC. The draft RFP for qualifying ESCOs was completed, submitted to DAGS for review, and subsequently advertised. Qualified companies are expected to be identified by September 2008.

DBEDT consultant Dave Birr provided sample EPC documents to DAGS and met with them and HPHA representatives to discuss issues in implementation of EPC. He also provided training to DAGS and state facilities through the National Association of Energy Services Companies (NAESCO) under a separate agreement with Lawrence Berkley National Laboratory/USDOE.

<u>Hawai'i Public Housing Authority.</u> DBEDT continued to provide technical assistance to the Hawai'i Public Housing Authority (HPHA). The project would include 5,363 federally-funded residential units that would be retrofit with energy and water efficiency improvements. Estimates of the value of the project are from \$10 - \$15 million with annual energy and water savings of \$1 to \$1.2 million. The project would be carried out under HUD requirements and would use third party financing. Two days of training for the HPHA evaluation committee were held April 21 and 22, at HPHA.

DBEDT staff was appointed a member of the evaluation committee for the HPHA EPC and attended meetings of the evaluation committee and oral interviews of three selected proposers on June 4, 5, and 6. The award is expected in August 2008.

State of Hawai'i Air National Guard (HIANG) Air Compressor System. The Rebuild Coordinator organized and led a partnership among DBEDT, Hawai'i Air National Guard, Hickam Air Force Base, and Hawaiian Electric Company (HECO), which resulted in a \$161,000 replacement of a very inefficient compressor system that was being used by HIANG at the Base. Resulting annual resource savings were approximately \$37,000 in electricity and \$11,000 in water costs. This savings is equivalent to 257,000 kilowatt-hours per year (kWh/yr) and 4 million gallons of water per year. Net of the HECO rebate, the simple payback of this project is 36 months. HECO provided \$10,000 for an audit/design study of the replacement compressor system, as well as a \$13,233 customized rebate; DBEDT provided over \$4,000 in in-kind services. The rebate is being used for additional energy efficient capital improvements at Hickam Air Force Base. In addition, copper windings from the old compressor have been recycled, and the proceeds are being used to enhance the Base's recycling program.

<u>Garbage To Energy</u>. DBEDT staff met with several garbage-to-energy companies featuring much-improved techniques for separating recyclables and producing both usable fuel and electricity from garbage. DBEDT arranged for meetings with regulatory and pollution-monitoring agencies to assess the environmental feasibility of the technologies and to expedite the permitting process. If deployed, these technologies could eliminate much of Hawai'i's garbage while supplying a significant fraction of each county's electricity in addition to supplying some gaseous and liquid fuel.

Integrated Resource Planning/Demand-side Management. SID staff attended a HECO Demandside Management (DSM) Technical Meeting on August 3, 2007 which was focused on future DSM Program Design in light of the Decision and Order from the Hawai'i Public Utilities Commission transferring HECO's DSM programs to a Public Benefits Fund Administrator as of the end of December 2008. The meeting also discussed program development methodology and pilot programs and pricing initiatives. DBEDT provided comments/questions relating to HECO's July 23, 2007 request for "input on how to balance the DSM objectives to determine and optimal DSM portfolio." Technical questions were related to balancing the DSM objectives through an optimal portfolio, Maximum Achievable Potential results, proposed expenditure cap for DSM, and Ratepayer Impact Measure benefit cost ratio.

Staff also attended IRP Technical Sessions: August 30, 2007 on HECO's preliminary load forecast and distributed generation data; October 17, 2007 on incorporating as-available renewable energy onto the HECO system; April 15, 2008 to learn about the utility's approach to Greenhouse Gas analysis, load forecast, fuel price forecast, and supply-side resources.

This round of the IRP, IRP-4, is very complex with consideration of Greenhouse Gas (GHG) and biofuels impacts. HECO acknowledged the importance of the Hawai'i Clean Energy Initiative (HCEI) but stated that this IRP was to be provided to the Public Utilities Commission prior to the results of the initiative being known. HECO's efforts would be to work, within the time frame allowed, to ensure that the IRP and HCEI are not too detached from each other. The load forecast assumptions were broadened to include NYMEX contract prices (futures) as well as the EIA

forecasts and HECO historical trends. Discussion of GHG issues included complexity of including price increases related to GHG regulation such as carbon tax or cap and trade. Demand-side management savings were not included in the forecast, since their DSM programs would be seamlessly transferred to Public Benefits Fund administration in January 2009. On the supply-side, HECO indicated that they would not install or improve any additional fossil-fuel fired generation.

DBEDT is also participating in the IRP updates conducted by the other utilities, HELCO, MECO and KIUC.

<u>Hawai'i Energy Efficiency Program (HEEP)</u>. The Public Utilities Commission opened a docket, February 19, 2008, to investigate issues and requirements raised by the Hawai'i Public Benefits Fund. The PUC will be selecting the HEEP Administrator to implement third-party administered programs (formerly utility DSM programs) by the end of 2008. An RFP will be issued to select prospective service providers. While DBEDT is not participating in this docket, it is monitoring activities. In response to inquiries from ESCOs, DBEDT provided contact information for further information at the utilities and PUC. SID staff attended a January 24, 2008, briefing by HECO explaining the proposed transfer and current status of its rebate program. HECO anticipates that current programs will be continued under the Administrator and that the transfer will be "seamless."

<u>UH-TIM Restaurant Benchmarking Project.</u> The University of Hawai'i Travel Industry Management School (UH-TIM) project provides services related to establishing a Hawai'i Center for Environmental Leadership in Tourism, developing outreach materials, conducting energy analysis, curriculum development, and workshop plans to affect real change and improvements to energy efficiency in present practices in the restaurant industry continues. The Project Manager submitted a research plan for the restaurant benchmarking portion of the project.

Reports and publications: A revision to the 2004 version of the *Guide for Energy Performance Contracting* is underway. *Comparison of Pennsylvania and Colorado Energy Performance Contracting Process* for state facilities is underway.

DCCA: DCCA consulted with DAGS to determine the optimum air conditioning temperature and the necessity of air conditioning certain areas. Reviewed air conditioning maintenance activities and schedules to ensure the proper maintenance of the air conditioning system. Surveyed staff practices in keeping doors closed in air conditioned areas, and made recommendations for proper practices where appropriate.

DHHL: DHHL will continue to keep an inventory of department electric meters, departmental operations and construction.

- DHRD: The department encourages all employees to implement energy conservation practices. Examples include turning off the lights in the restrooms and hallways at the end of the day; turning off copier machines and computers rather than leaving the equipment on sleep mode; using the stairs; and turning off office lights when going to meetings. In May, DAGS implemented the following energy reduction initiatives for the Leiopapa A Kamehameha building, which this department occupies: (a) adjusted the starting time for the building air conditioning systems so that it turns on an hour later; and (b) conducted preliminary assessments for a retro commissioning project.
- DHS: DHS is a participating department in the state's Lead by Example program. As a part of this statewide project, DHS is developing a plan to implement energy reduction efforts.
- DLIR: An assessment of electricity use was completed for nine of the DLIR offices that are not maintained by DAGS Central Services. The assessment of the nine offices covered the period July 1, 2005 through June 30, 2008. Based on this review, the nine offices utilized a total of 1,328,613 kilowatthours, resulting in a total cost of \$421,856.68. Based on the energy usage, DLIR will consult with DAGS and issue a department memorandum reminding all offices of the need to adhere to energy efficiency practices such as turning off electrical lights, printers, copier machines, etc. when not in use. The department will continue to request assistance from DAGS to provide analysis of the nine affected DLIR program offices. Based on DAGS' analysis, DLIR will develop a plan work to with DAGS and DLIR offices to develop and implement energy saving measures to reduce electricity usage. DLIR will also assess each office's space need requirements and consider consolidation of offices.

DLIR participated in an Environmental Preferable Purchasing (EPP) survey mandated under the following Federal and State laws, and the applicable Administrative Directives:

1. Resource Conservation and Recovery Act (RCRA), Section 6002, 42 U.S.C. 6962. The RCRA requires state and local government agencies and their contractors receiving appropriated federal funds to purchase EPA-designated recycled content products.

- 2. Section 103D–1005(b) of the Hawai'i Revised Statutes. Section 103D-1005(b) requires state purchasing agencies and encourages county purchasing agencies to
 - Apply preferences to purchase of products with recycled content;
 - Be consistent with RCRA Section 6002, E/O. 13101 and its progeny;
 - Ensure, to the maximum extent economically feasible, the purchase of materials that may be recycled or reused when discarded and to avoid the purchase of products deemed environmentally harmful.
- 3. Administrative Directive 06-01 signed by Governor Lingle in January 2006 requires State agencies to purchase environmentally preferable products that reduce their impact on the environment and improve indoor environmental quality. Also included are Energy Star® and low toxic products as examples of environmentally preferable products.

The DLIR plan includes the following:

- DLIR will continue to utilize the results of the EPP survey to structure and plan for the period July 1, 2008 to June 30, 2009. In addition, DLIR will continue to utilize the SPO price list and require all programs to purchase recycled and environmentally preferable products.
- DLIR programs have not been major users of Energy Star® products; however, DLIR will continue to include Energy Star® products as part of the procurement approval process. In addition, the DLIR will also include in our procurement procedure a policy to check whether utility rebates are available and can be utilized in the purchase of the products.
- The DLIR policy mandates the purchase of recycled paper and utilization of the State Procurement Offices Price List (SPO PL) for all purchase where products are available through the SPO PL. The DLIR will issue a departmental instructional memo to continue to insure conformance with the results of the EPP Survey as an integral part of the procurement policy.

The gasoline usage and cost of fuel for the two vehicles owned by DLIR were derived by manually reviewing all invoices submitted by the DAGS Automotive Management Division and preparing a spreadsheet. The DLIR plan includes the following:

- DLIR owns the following vehicles: 1998 Ford Windstar; 1994 Chevrolet Astrovan. DLIR does not have immediate plans to purchase another vehicle in the near future; however, DLIR will adhere to the applicable state laws regarding vehicle purchases.
- DLIR's two current vehicles are in sound operational condition and thus DLIR has no plan to replace the vehicles in the near future. Prior to purchasing a vehicle in the future, DLIR will insure that any vehicle purchase satisfies federal and state mandates. In addition, DLIR will purchase the most fuel efficient vehicle that meets the needs of our program.
- DLNR: DLNR continues to work with DBEDT in a statewide collaboration on energy efficiency, as a member of DBEDT's Lead by Example Leadership Group. DLNR will continue to work with the Leadership Group on ideas to implement energy savings across the state.

Act 96, SLH 2006, mandated that each state agency comply with a variety of energy directives involving buildings and facilities, transportation vehicles and fuels. To this extent, DLNR is developing a program to track vehicle expenses and energy consumption for all cars in the department's inventory. Additionally, DLNR is seeking the advice of other state agencies through DBEDT's Lead by Example Leadership Group and will implement internal procedures as appropriate.

DLNR's facility portfolio is limited. Most of buildings owned by DLNR are composed of base yards, harbor facilities and park restrooms. DLNR incorporates energy saving concepts into all of its owned facilities as appropriate. Energy saving concepts include the use of solar water heaters, natural ventilation and lighting, and use of energy-efficient lights. Additionally, DLNR has begun to incorporate energy savings practices into design projects such as the recycling of existing asphalt and concrete pavement into backfill material.

DLNR evaluates the feasibility of implementing energy conservation measures when capital improvement projects are designed. As DLNR staff learns more about energy efficiency and environmental design, they will incorporate these concepts into building and facility design and renovations.

For energy reduction efforts at non-DLNR owned offices and buildings, staff have implemented office paper recycling. Staff are also reminded to turn off equipment when not in use, keep blinds closed, and report equipment malfunctions. Energy efficient light bulbs are used where feasible and timed sensors have been installed to allow automatic shutoff off of lights.

DLNR uses life cycle cost-benefit analysis to purchase energy efficient equipment such as Energy Star® products and uses utility rebates where available to reduce purchase and installation costs.

DLNR further encourages the use of recycled products with contractors. DLNR also adheres to the allowed 10% price preference for bids using recycled products in accordance with Section 103D-1005, Hawai'i Revised Statutes.

Kaho'olawe Island Reserve Commission (KIRC): KIRC is planning to implement an energy conservation demonstration project by remodeling one of its six berthing facilities to reduce energy consumption. Through improved ventilation and innovative design features, KIRC hopes to improve the building's natural air circulation, improve shielding from the hot, desert-like conditions of Kaho'olawe thus reducing cooling cost significantly. If this project is successful, plans will then be developed to convert all remaining berthing facilities to this new design and significantly reduce energy requirements and cost.

To reduce the electrical demands on Kaho'olawe, KIRC has converted two of its four residential water heaters on Kaho'olawe to solar power. KIRC is planning to convert the remaining water heaters and be fully solar-powered for hot water by the next fiscal year.

Kaho'olawe presents a unique opportunity for alternatives to reduce energy consumption due in part to the island's small population and isolation. Additionally, because of the island's unique status as a cultural and environmental preserve, the use of alternative water systems and energy resources is believed to be most appropriate and necessary. As part of KIRC's mandated requirements under HRS 6-K, the restoration program brings 15 to 20 volunteers, adults and students, to the island on Mondays to assist in planting native plants as part of the restoration program. The students normally leave Kaho'olawe on Thursday afternoon. To achieve the conservation of water and energy, KIRC recaptures all the water from the shower facilities. The Reverse Osmosis system produces about 1,500 gallons per day of fresh water, which is more than adequate for the demand.

There are no harbor facilities on Kaho'olawe, in the past the majority of equipment, personnel and supplies have been transported by helicopter. Recently, KIRC has obtained and is operating a 40-foot landing craft that is now transporting the majority of its personnel, equipment and materials. KIRC has significantly reduced fossil fuel usage by shifting to ocean transport verses helicopter.

Additionally, the 11-acre base camp on Kaho'olawe is not connected to the utility grid and operates with diesel generators. One of the steps recently taken was to install a more energy-efficient generator, which reduced diesel usage from 150 gallons per day to 75 gallons per day. As further energy savings projects are implemented, the energy requirements on Kaho'olawe will decrease at which time KIRC is planning to replace the current diesel generator with an even smaller unit that will further reduce diesel fuel usage.

DOA:

- Previously identified retro-commissioning and specific energy efficiency projects and related costs for FB 2007-2009.
- Legislature appropriated a total of \$215,058 in general funds in FY08 in the department's operating budget for lighting and window tinting projects and \$79,434 in general obligation bond funds in FY08 in the department's capital improvement program budget for retro-commissioning projects.
- Continued to retrieve information electronically on gas consumption and odometer readings from DAGS Automotive Management Division, Tesoro and Hawai'i Petroleum for FY08. Continued to use vehicle refueling log for program that have vehicles that refuel at places other than DAGS, Tesoro and Hawai'i Petroleum.
- Continued to retrieve information electronically on gas consumption and odometer readings for each vehicle from DAGS Automotive Management Division, Tesoro and Hawai'i Petroleum for FY08.
- Monitored and compiled kWh consumption data and cost for electricity for FY08.
- Reminded staff of department's Energy and Water Conservation and Resource Efficiency Program which provides policies, guidelines and practices with goal to minimize energy, fuel and water consumption and implement resource-efficient operations. Includes department's target consumption goals for electricity, fuel and environmentally preferred products.
- Distributed DAGS' memo requesting employees to conserve energy and to report any water waste from open faucets, leaky plumbing fixtures, and broken and/or inefficiently run irrigation systems.

- Developed a spreadsheet to compare data in FY05, FY06, FY07, and FY08 on electricity kWh consumption and percentage increase/decrease from previous year and distributed to program managers for their review and information.
- DOE: DOE has developed an internal system that enables the comprehensive management of all utilities electricity, water, sewage disposal, and gas for all schools through a central office. As of March 1, 2007, the payment for all utilities was centralized into one office. The office is now able to track DOE accounts to establish programs that monitor utility use by schools, specifically identifying schools with higher than anticipated consumption.

DOE implemented a school energy conservation program on July 1, 2007. DOE has calculated the "unadjusted" allocation of kilowatt hours (kWh) for all schools using the average electricity consumption in the 36 months through June 2006 as a base. Beginning this school year, schools that reduce their consumption below the allocated amount will receive half the value of the savings; schools that fail to reduce their consumption below the allocated amount will be charged for half the value of the kWh used above the allocated amount. The state office will bear the risk of increases (and benefit from any reductions) in electricity rates. The office will receive the school kWh usage against the allocation twice a year, in January for the preceding July through December, and in July for the preceding January through June. Schools earning a rebate will receive those funds via an allocation from the electricity funds and will be able to use those funds at their discretion. Schools requiring a charge back will receive a bill for collection from the Auxiliary Services Branch. Immediate steps for conservation programs continue and are listed as follows:

- Continue with implementation of LEED Silver for new and major construction projects. Training for LEED New Construction has been completed by key DOE personnel. Supplemental training is required on "LEED for Schools" guidelines just recently released by USGBC.
- Continue with installation of low-flow bathroom fixtures whenever fixtures require replacement.
- All incandescent lamps are being replaced with compact fluorescent lamps (CFL).
- A study for measuring the effectiveness of motion (occupancy) detectors for controlling classroom lighting has been completed. Future ESCO work will include motion/occupancy detection switches for classroom lighting.
- Life Cycle Cost Analysis (LCCA) will be performed on school equipment and operations.
- LCCA results will be used to determine product selection for ESCO, Performance Contracting, Municipal Leasing, and/or Purchase Power Agreement activities.
- Continue meetings with vendors seeking new energy conserving technologies. Continuation with pilot (test) studies of new promising technologies.
- Establishment of an Energy and Water Conservation "Steering Committee" or "Task Force" within the Office of School Facilities and Support Services to expedite and streamline multiple conservation activities between branches and within the DOE as a whole.
- Open discussions with the Board of Water Supply to seek innovative water conservation concepts, projects, and/or studies such as an Irrigation Management Control System, plant species, drip irrigation, and captured rainwater.

Immediate steps for school electricity conservation are listed below:

- Set air conditioning so that the room temperature is 76 degrees.
- Do not turn on any air conditioning until 7:00 a.m. or (if the air conditioning unit is turned on and off manually) until the room temperature reaches 74 degrees, which ever comes later, and turn off all air conditioning no later than 4:30 p.m.
- Use timers to turn off 75 percent of night lights between the hours of 10:00 p.m. and 6:00 a.m.
- By June 15, 2009, replace all appliances (refrigerators, microwave ovens, toasters, coffee makers, rice cookers, etc.) in classrooms and offices with Energy Star®-rated appliances. Personal appliances should be limited to no more than one of each on each floor of a building. All other personal appliances shall be removed by December 31, 2008.
- Purchase or lease only Energy Star®-rated computers, copiers, printers, and servers.
- Turn off computers, printers, and copiers at the end of the day.

The following capital improvement projects (CIP) have added to DOE's overall energy usage.

• New portables (connected to the existing school's electrical meter):

- O'ahu: Mililani Ike Elementary (2); Campbell High (5); Moanalua High (2); Waipahu Elementary (3); 'Ewa Elementary (1); Kahuku High & Intermediate (1); Leilehua High-SPED (2); Kahuku High- SPED (1); Leilehua High- Stryker (3); Mililani High- Stryker (2); Mililani Middle- Stryker (3); Solomon Elementary- Stryker (4); Ka'ala Elementary- Stryker (1); 'Ānuenue Elementary (1)
- Hawai'i: DeSilva Elementary (1); Waimea Elementary (2)
- Maui: Maui High (2); King Kamehameha III Elementary (2)
- New facilities, all on O'ahu:
 - o Mauka Lani Elementary- 8 classroom building connected to existing meter
 - Pearl Ridge Elementary- cafeteria expansion connected to existing meter
- o Sunset Beach Elementary- administration building connected to existing meter
- Wai'anae High- 8 classroom building connected to existing meter

These increases were somewhat offset through DOE's ongoing program to retrofit classrooms with more energy efficient fluorescent light fixtures (conversion of T-12 light fixtures to T-8 light fixtures) and heating, ventilation and air conditioning (HVAC) equipment.

- DOH: All future designs for renovations and construction will be LEED Certified. Air conditioning for the various health centers is shut off at 4:30 p.m. and on holidays and weekends. Window units have been installed in several offices to avoid having to turn on the central bldg units for those working late or on weekends. Air conditioning units for all DOH renovations are energy efficient and qualify for a HECO rebate. The air conditioning systems at Diamond Head Health Center and Leeward Health Center are being retrofitted due to their age. The new units are more energy efficient and this will reduce energy consumption. The air conditioning system at Ala Moana Health Center has just been retrofitted with more energy efficient units. This will reduce energy consumption. As light fixtures are retrofitted, lamps and ballasts are changed to more energy efficient ones.
- DOT-Airports: The Airports Division is collecting data on the division's current construction projects in the design phase. The division will investigate the facilities' energy consumption to plan for reduction, and also plan for efficient design. The division is implementing energy efficient fixtures and equipment in its planned projects.

The Airports Division is investigating existing facilities for options to reduce energy use.

The replacement and relocation of the Diamond Head Chiller Plant project is under construction. The new equipment will have high energy reduction and efficiency.

Renovation of Airport Lounge project has been awarded for construction. This is the first LEED CI project.

- DOT-Harbors: The division needs to develop a program to ensure that inventorying, investigations, and plans and implementations are effective and in compliance with regards to Act 160.
- DOT-Highways: The Highways Division has an inventory of equipment and a baseline of energy consumption. The division has also started the replacement of traditional traffic signal lamps with the new LED lamps as well as a systematic replacement of older computer equipment with Energy Star® compliant equipment with LCD screens and variable speed CPUs.
- DOTAX: DOTAX continues to follow energy conservation best practices as outlined by the Director of Taxation in his memorandum dated March 1, 2006. DOTAX continues to monitor and control usage of after-hour and weekend air conditioning.
- FTZ: FTZ is in the process of replacing the current lighting system inside the warehouse by reducing the number of lights and replacing the 300 incandescent light bulbs with energy efficient 40-60 watt CFL bulbs. These bulbs are on back-order due to high national demand. FTZ may also install a relay to allow lights inside the warehouse to be turned on remotely and tied in with new security system. HCDA: Not applicable.
- HHFDC: HHFDC has taken steps to reduce energy consumption. Whenever possible, incandescent lamps are being replaced with fluorescent equivalents. Fluorescent T-12 lamp set-ups are continually being retrofitted with T-8 electronic ballasts and lamps. An electrical control timer has been installed on the air conditioning plant at our main office building to control the day and hours of operation.
- HHSC: HHSC is looking into implementing energy audits on all of their facilities when funds are available. The energy audits will assist each facility with recommendations to reduce energy.
- HSPLS: HSPLS has replaced the aging air conditioning systems at Mililani and Salt Lake-Moanalua Public Libraries to improve operating and energy efficiency in FY08. HSPLS has executed contracts through

DAGS to retrofit lighting fixtures at all 51 public libraries, statewide. These fixtures are being replaced with energy efficient electronic ballasts and super T-8 lamps.

HTA-CC: 1) Raise temperature setpoints by one degree, from 72 degrees to 73 degrees. 2) Monitor schedules to optimize use of AC in client and administration areas. 3) Reduce the amount of "conditioned" air being blown out thru Exhibit Hall doors.

NELHA: The Green Energy Zone concept was investigated and proposed to the legislature. Implementation will proceed.

A substantial portion of NELHA's energy costs is dependent upon tenant demand and consumption of seawater – NELHA has no control over these amounts. Therefore, to implement energy reductions, it is necessary to either create energy production projects for NELHA or to cease development of economic enhancement projects.

- PSD: Under Act 213-07, the department received a capital appropriation of \$500,000 to perform initial planning efforts to identify, prioritize and seek funding to design and construct various retrofits to PSD facilities that would result in measurable savings in energy consumption and reflect the department's efforts (as well as those of other state agencies) to comply with the intent of Act 160. PSD is currently awaiting approval of its FY 2009 CIP Expenditure Plan (transmitted in August, 2008) to the Office of the Governor. That, in turn, will enable DAGS to proceed with all post-Project Initiation activities. Presently, the department has, with the assistance of DAGS-DPW, made a selection of a consulting firm (InSynergy) to conduct an assessment of energy efficiency improvements throughout all PSD programs, statewide. Upon completion of these assessments, expected between 1st and 2nd Quarters of FY 2010, a series of retro-commissioning projects will be implemented using a number of financing strategies, as yet determined.
- UH: UH Mānoa the University has established a campus-wide Energy Management Committee that is responsible for identifying, evaluating, and implementing building level and departmental level energy reduction projects. The UH Sea Grant Center for Smart Building and Community Design and the Vice Chancellor for Administration, Finance and Operations support a staffer who works part-time on campus sustainability issues including lighting and air conditioning. The University has established a campus energy website to provide information on campus energy polices and projects, at www.soest.haswaii.edu/UHMEnergy. A "search and destroy" program has been established to replace incandescent light bulbs on campus. There are literally thousands of incandescent light bulbs on campus. Whenever someone finds an incandescent light, they can report its location at telephone number 956-2861 and someone will arrange for its immediate replacement.

UH Hilo – The University has no new initiatives; but continues to turn lights off when building occupants are vacated.

Honolulu CC, Kapi'olani CC, Leeward CC, Windward CC, Hawai'i CC, Kaua'i CC – there are no new initiatives at these campuses; but the campuses continue to consolidate classes into filled buildings during evening, weekends, and summer to minimize air conditioning, lighting and other utility costs.

Maui CC – the campus is currently testing voltage regulators on the campus from a vendor, MicroPlanet. These voltage regulators might improve campus energy efficiency depending on how badly MCC's sour power fluctuates. If the test results are positive, then Maui CC will purchase the voltage regulators. The campus exterior lights are connected on to the computerized EMS system to control timers more efficiently. Door sensors have been installed in the Science Building lecture halls which deactivate the air conditioning units when doors are left open for more than five minutes. In addition, the Science Building has been connected to the computerized EMS system to control air conditioning timers more efficiently.

<u>Act 160</u>

- (3) A **plan** or alternatives to reduce energy consumption in the future;
- AG: AG is looking to the Lead by Example policy group and DAGS for further ideas to implement for energy savings. The department is working with DAGS to have air conditioning systems evaluated and updated, if deemed necessary. The office is also working with DAGS to reduce lighting in lesser used areas and hallways.
- B&F: The department previously issued a memorandum encouraging all employees to initiate and implement energy efficient practices (i.e., turning off office light when not in use or when leaving for the day, turning off computer terminals at the end of the day, distributing Energy Star® saving tips, etc. The department, as well as all other departments, is working with DBEDT and DAGS in this effort to identify and implement energy reduction initiatives.
- DAGS: PWD efforts include: developing a LEED application guideline for state agencies; providing LEED and commissioning programmatic support; projects to apply for LEED Silver certification at New Mānoa Library, New Kohala Library, Keaukaha Military Reservation, Joint Military Center, and the Maui Regional Public Safety Complex; the Kamamalu Building Renovation which was previously listed as a LEED pilot project has been suspended indefinitely; retrocommissioning projects for various DAGS facilities statewide, including the State Capitol; on-going training and partnering with HECO and in conjunction with DBEDT; sub-metering where feasible; updating and implementing additional policies; and keeping abreast of the latest energy reducing innovations and practices.

A major pilot project that was initiated in FY 2008 is the Central Services Division Photovoltaic (PV) System. A Request for Proposals was issued to request PV/solar power via a Power Purchase Agreement (PPA). The power provider, through a PPA, would design, install, operate, maintain and sell power to the state at a rate that is anticipated to be lower than the HECO rate and PV system would also reduce the consumption of energy generated by fossil fuels. Proposals were received and are under negotiation.

DBEDT: DBEDT will continue to offer technical assistance and training opportunities to state facilities in assessing potential for energy, water, and renewable energy measures, financing considerations, and implementation. This will include continuing to invite state employees and consultants to seminars on energy efficiency.

DBEDT signed an agreement with the US Environmental Protection Agency on October 14, 2005 to participate in the Energy Star® 10% Challenge program. The goals are to improve the energy efficiency of state facilities by 10% and reduce greenhouse gas emissions. The State of Hawai'i's Partnership Plan includes: developing public and private partnerships to promote EPA's Portfolio Manager energy performance rating system; providing training for public and private partnerships to identify opportunities for improvements; participating in and promoting EPA's Energy Star® webcasts, programs, and resources; and incorporating Energy Star® products in state agency procurements.

DBEDT provided invitations to participate in the spring 2008 webcasts on Energy Star® programs and resources, as well as materials to state agencies on how to prioritize energy conservation measures, benchmark their buildings and conduct financial calculators on payback related to implementation of energy efficiency measures.

DBEDT's energy-related work is supported by federal funds, often the result of winning nationwide competitive grant solicitations. On February 1, 2008, the Manager of the Energy Efficiency Branch and Energy Conservation Program Specialist met with David Rodgers, USDOE to discuss energy efficiency opportunities in buildings, educational facilities, challenges in Hawai'i for energy service companies, and to stress the importance of more information on power purchase agreements and integrated efficiency/renewable energy financial tools. The Director of DAGS briefed Rodgers on the statewide solicitation for energy performance contracting services.

On March 19, the Manager of the Energy Efficiency Branch and Energy Conservation Program Specialist met with David McAndrew, U.S. DOE Federal Energy Management Program (FEMP) and representatives of Pacific Northwest National Laboratory and the National Renewable Energy Laboratory to share information on programs available and opportunities for mutual cooperation. Support to the state from FEMP and the labs could include training for energy auditors, use and understanding of monitoring and verification, and use and understanding of various financing alternatives for energy performance contracts.

DBEDT has requested a one-year, no cost extension and amendment to the federal grant that funded 2007 PCEA, Peer Exchange, and Rebuild Hawai'i activities.

<u>Hawai'i-EPA Clean Energy-Environment State Partnership</u>. The state has agreed to work with the federal Environmental Protection Agency (EPA) in developing an action plan for clean energy as part of EPA's Clean Energy-Environment State Partnership. Hawai'i is at the forefront of clean energy and environmental initiatives. This partnership will strengthen the state's position as it undertakes new programs promoting energy efficiency and renewable energy sources.

The State Department of Health is an observer/advisor in the Hawai'i partnership. EPA provides partners with access to a comprehensive technical assistance package. Hawai'i's partnership focuses on Green Power Purchasing, Lead by Example (building efficiency, financing, Environmentally Preferable Purchasing, and biofuels), and Climate Change. This partnership will also give DBEDT the opportunity to learn from EPA and other states ways to measure impact of energy and resource efficiency programs on Hawai'i by determining multipliers for energy and cost-savings, energy system, greenhouse gas, air quality and human heath, and economic and macroeconomic benefits.

Major work was organizing a priority task group teleconference for Lead by Example on October 10, 2007; and a general Partnership teleconference on October 23, 2007. The Climate Change Action Group held a meeting on February 20, 2008, to discuss the current status of climate change policy efforts in Hawai'i. Larry Lau, Department of Health, presented an update on the State Task Force and discussed the Climate Registry Board. Data needs, methodologies, and processes were also discussed.

A teleconference with EPA representatives on possible technical assistance for DBEDT's intervention in the "wheeling" docket was also held.

This year the following information and exchange was also provided by EPA on topics listed below.

- Models and programs that states have used to help low-income households implement energy efficiency measures;
- Models that can estimate the impacts of GHG mitigation policies and information on GHG inventory best practices from other states;
- Best practice guidance for Lead-By-Example activities;
- Best practice guidance for purchasing green power by facilitating contact between Hawai'i, EPA's Green Power Partnership, and EPA's Landfill Methane Outreach Program;
- Energy Star®'s Portfolio Manager and Target Finder;
- Financing options, as well as environmentally preferred product purchasing, and
- Approaches other states have used to finance energy efficiency projects and/or meet energy efficiency goals in schools.
- DCCA: The department will continue its practice of using energy-saving light bulbs and maintaining its energy efficient lighting system that is activated by motion detectors. DCCA will evaluate its air conditioning system and discuss the suitability of a retrocommissioning project with DAGS. The department will continue to encourage energy conservation and share appropriate energy reduction tips submitted by staff.
- DHHL: DHHL conducts in-house energy programs to inform all staff to reduce energy consumption using guidelines and recommendations from the educational leaflets from the US Department of Energy.
- DHRD: The department will continue to encourage all employees to implement energy conservation practices and will work with DAGS to identify energy efficiency initiatives.
- DHS: DHS is a participating department in the State's Lead by Example program. As a part of this statewide project, DHS is developing a plan to reduce future energy consumption.
- DLIR: Based on its energy use, DLIR plans to do the following:
 - Continue to consult with DAGS and issue a department memorandum reminding all offices of the need to adhere to energy efficiency practices such as turning off electrical lights, printers, personal computers, copier machines, etc. when not in use.
 - Continue to request assistance from DAGS to provide analysis for the nine affected DLIR program offices. Based on DAGS' analysis, DLIR will continue to develop plans to develop and implement energy saving measures to reduce electricity use.
 - Assess each office's space need requirements and consider consolidation of offices.

- Conduct self-audits of DLIR offices to identify and reduce energy consumers such as small appliances and electronic equipment.
- DLNR: DLNR is currently in the design phase of a large project to improve energy systems at 'Iolani Palace that began in FY 2008 and which will serve as a demonstration for energy efficiency across the state. Construction is scheduled to begin in October 2009. 'Iolani Palace is not only a Hawaiian national treasure but is the only official state residence of royalty in the United States. Built in 1882, the Palace was the official residence of the Hawai'i kingdom's last two monarchs. Restoration in the 1970s included the installation of air-conditioning units to help preserve the building as well as the treasures held within.

Located in a humid environment, the Palace is highly susceptible to mold growth and other forms of biodeterioration. Inadequate air conditioning systems can lead to variations in relative humidity, which can further lead to chemical reactions. The negative results of these chemical reactions are that: metals may corrode; many dyes may fade; glass collections may be damaged; furniture joints may be loosened; paint chipping may emanate from canvases; and paper may be cockled. Thus, as with any historical site, 'Iolani Palace's air conditioning system is of great importance to the environment in which the collections are housed.

The existing air conditioning system has deteriorated and has failed to provide the necessary climate control for uniform temperature and humidity. The system continues to experience breakdowns and continued system failures will lead to eventual damage and loss of invaluable cultural artifacts.

Thus, the entire air conditioning system needs to be replaced. This creates an opportunity for DLNR to look toward energy efficiency in the development of a new air conditioning system for the Palace. Staff have begun to look at new technologies in air conditioning systems which utilize photovoltaic technology and recycled water. Additionally, commissioning of the chosen system will be included for optimum performance.

Taking into consideration its historic significance, the Palace's façade would not be altered. However, adjoining buildings could be utilized for alternative energy production, which could in turn be used at the Palace. With \$900,000 allocated in FY 2006 (Act 160) for design and construction, DLNR has begun to design an air conditioning and climate control system for the Palace. In 2007, the project was allocated \$4.5 million to continue and implement the project.

The state would benefit greatly from having 'Iolani Palace serve as a pilot project for energy efficient air conditioning technology while saving money and preserving Hawai'i's history.

DOA: DOA will initiate lighting and window tinting operating projects and retrocommissioning CIP projects. The department will send out reminders to employees to practice energy and water conservation measures. It will also replace air conditioning systems and units with energy efficient ones. DOA plans to upgrade to more energy efficient pumps and motors on irrigation systems as funds allow. It will install timers and other electronic controls on selected irrigation systems. DOA will promote car-pooling and bicycling, establish energy efficiency working groups, and establish maximum allowable air conditioning settings by building and by season.

DOE: Plans for future energy consumption reduction include both energy conservation measures and efforts with renewable energy.

A) Energy Conservation Measures

- Energy Audits: The Energy Conservation Coordinator will continue with on-site school assistance for energy audits and educational exchange.
- "Energy Conservation Program:" Investigative work will continue to establish feasibility and planning for a key program component 3 year baseline. The baseline will allow for calculation of monetary incentives for schools that conserve energy and penalties for those who go beyond their baseline limit.
- Technology Pilot Studies: Various types of technologies are available that may reduce energy use for DOE. However, their adaptability, suitability, etc. for use with DOE remains an element of risk management.
- Education and Training: More education and training will be sought from energy conservation equipment vendors. There will be continuation with LEED education for DOE employees via on-the-job and USGBC product offerings.
- Energy Service Company (ESCO)-Utility Energy Services Contracts (UESC)-Power Purchase Agreements (PPA) Effort: Investigative work will continue in the areas financing energy

conservation equipment retrofitting with the assistance of ESCO, UESC, and PPA.

- Enhanced Energy Audit: Investigation into the possible expansion of the energy audit to go beyond school equipment inventory count to measurement and verification aspects of energy conservation enterprises.
- DOE Operations and Maintenance Best Practices: DOE will internally hold internal meetings among offices and branches that will align and focus energy conservation efforts. This can include product selection by committee based upon maintenance, performance, LEED, and cost benefits.
- DOE School Best Practices: An investigation for identification of school equipment and/or operations that may best benefit energy conservation with the least amount of negative impact to school operations and functions will be reviewed. This will also include procurement and availability of energy efficient products or products favoring LEED criteria.
- DOE is developing guidelines, standards, and best practices to meet new energy efficiency requirements for all CIP and repair and maintenance (R&M) projects.
- B) Renewable Energy

The Legislature, through Act 96, SLH 2006, appropriated \$5 million to DOE for a pilot photovoltaic project. The specific objectives, as set forth in the Act, as they relate to this photovoltaic pilot project include:

- To have, at minimum, a project site at one of the public schools within each of the counties of O'ahu, Hawai'i, Kaua'i and Maui.
- Installation of photovoltaic (PV) system to be timed in conjunction with substantial roof repairs or roof replacement.
- To use net energy metering to offset the cost of the system.
- To recapture system cost within three quarters of the useful life of the PV system.
- When advantageous, to use energy-savings contract such as third party lease or purchase to maximize the objectives of this section.
- Report results and recommendations from this project.

The Governor released the funds for this project and DOE selected Energy Industries (EI) as the consultant to implement this program. Energy Industries is a Hawai'i based Energy Service Company (ESCO) that specializes in reducing the energy expenses of its clients by identifying and implementing energy conservation measures (ECMs) that reduce electrical demand load. EI also specializes in the integration of renewable and distributed energy systems along with energy conservation measures. The contract with EI included the following deliverables:

- Rating and selection of project sites (schools) based on a weighted scorecard.
- Develop basis of design and determine optimal implementation.
- Project management and quality assurance during construction.
- Measurement, verification, and reporting of pilot results one year after PV installation.

Based on the life cycle analysis from EI, DOE determined that it is not economically feasible for the department to purchase and install PV systems without taking advantage of the federal and state tax credits. Therefore, a better strategy of obtaining PV systems for the schools would be to develop a power purchase agreement (PPA) and have a 3rd party vendor install and maintain the PV systems. DOE would purchase the kilowatts generated by the system at a discounted rate.

DOE has developed a Request For Proposal (RFP) for this project that will require the installation of one 30 - 50 kW system on the islands of Hawai'i, Maui, and Kaua'i, and four systems on O'ahu. The RFP is currently being reviewed by the Attorney General's Office before the DOE issues it. DOE hopes to get the proposal out by the end of November 2008.

- DOH: All future designs for renovations and new construction will be LEED Certified. The department's fiscal office will insure that any appliance purchases by programs meet Energy Star® ratings. The department's fiscal office will insure that vehicle purchase meet all energy conservation requirements. The department will request CIP funds for installing a central energy management system to control the air conditioning units at all of its major buildings. Presently, the timers are located at each individual building and not controlled at one location. This is not an efficient way to control air conditioning for multiple buildings.
- DOT-Airports: The Airports Division will inform its employees and tenants about saving energy. The Airports Division will educate its engineering staff regarding building green and using energy efficient

technology in order to implement whole-building design practices. The Airports Division will upgrade design and construction standards and guidelines according to the LEED standard.

- DOT-Harbors: The division will increase awareness and training for employees on available energy conservation technology or practices. It will also develop program milestones or metrics to encourage reduction of energy consumption.
- DOT-Highways: All future building projects will be designed to meet LEED Silver certification, all new traffic signals will use LED lamps, and all new computer equipment will be Energy Star® compliant.
- DOTAX: DAGS is currently working on energy savings measures, including air conditioning retrocommissioning, for the Ke'elikōlani Building in which the DOTAX O'ahu District Office is located.
- FTZ: FTZ is working with DOT-Airports to prepare a RFP for solar electricity generation for its 5A roof in downtown Honolulu. At this time, FTZ is anticipating generating approximately 0.3 MW.
- HCDA: HCDA plans to incorporate energy savings devices and procedures in future developments as well as retrofit where appropriate.
- HHFDC: HHFDC continues to monitor all energy uses. In conjunction with electrical use, the agency is monitoring synthetic natural gas and water. Upon seeing a change up or down, the reason for the change is investigated. The end plan is to use all the alternatives possible and maximize the amount of rebates and enticements for change to not only reduce energy consumption but to reduce the amount paid monthly and recoup as much of the initial up-front costs as possible.

HHSC: HHSC plans to use the approved ESCO list that DAGS is developing to implement energy reduction at all of their facilities.

HSPLS: HSPLS has been working directly with DAGS on the new North Kohala and Mānoa Public Libraries. These new projects are trying for a LEED Silver rating. The construction contract for the new North Kohala Public Library went out to bid and was awarded to Isemoto Contracting Co., Ltd. for \$6,895,900. Construction is set to start in September 2008 and completed in late 2009. The construction contract for the new Mānoa Public Library went out to bid and was awarded to Allied Pacific Builders, Inc. This project is anticipated to start in November 2008 and completed in mid 2010.

HTA-CC: 1) Get clients involved by posting "Green" signs at doorways to ask their help in keeping doors closed. 2) Educate employees and ask for their help in turning off room lights where possible. 3) Monitor daily consumption and demand.

- NELHA: NELHA filed a Request for Proposals (RFP) on July 23, 2008 to construct and operate a very large PV project for its use. It is believed such a project could substantially reduce energy costs over the next twenty years. The RFP awaits issuance by DBEDT. An RFP for construction and operation of a 1 MWe OTEC plant is expected to be filed through DBEDT in the near future, with the same goal in mind.
- PSD: As mentioned earlier in this report, the department will collaborate with DAGS-Division of Public Works to engage the services of an energy efficiency expert with specific familiarity with survey work performed at correctional facilities across the U. S. mainland to: assess PSD's current energy usage dynamic, statewide; evaluate the current condition of the department's building operating systems production and/or consumption of energy; evaluate the building systems' impacts, favorable or otherwise, on the buildings' energy usage proper; analyze the various options available that would enable the department to meet the goals set forth in Act 96; and make recommendations on the upgrade pathways the department should pursue, together with priority setting; project work scope and opinions of probable costs associated with each recommendation.
- UH: UH Mānoa The University is planning to design up to fifteen re-roofing projects so that they are capable of being retrofitted with up to 500kW photovoltaic systems.

UH Hilo – No new plans.

Honolulu CC – No new plans.

Kapi'olani CC – No new plans.

Leeward CC – No new plans.

Windward CC - No new plans.

Hawai'i CC - No new plans.

Maui CC – will be soliciting a Request for Proposals to establish a Power Purchase Agreement (PPA) for photovoltaics (PV) in the campus rear parking lot. The College is working with Maui Electric Company (MECO) with a pilot "Green Pricing" program which will allow MECO to install

PV systems on their buildings. Maui CC would purchase the power from MECO at a discount and all excess power would be sold to the community by MECO. This pilot program is in the early feasibility study stage. The Campus has received a donated wind turbine and is currently researching a location to install the wind turbine system.

Kaua'i CC – No new plans.

Community College System – The community colleges are in continuous discussion with various third parties regarding participating in a power purchase program using a PV system. The third party will install the PV system at no cost and in return the colleges will purchase the electricity generated by the PV system at a guaranteed rate lower than the local utility rate.

WASTE PREVENT POLLUTION	COMMUNITY COLLEGES
ROGRAM TO MINIMIZE V	INIVERSITY OF HAWAII -

UNIVERSITY OF	HAWAII - COMMUNITY COLI	LEGES						
Campus	Program Title	Description of Program	Vendor (if applicable)	Duration of	Materiais Recvcie	Quantity	Any Other Information	
				Program		Recycled (Per Yr)		
Honolulu CC	AMT	Recycle used automobile oil	Commercial	Over 20 years				
	AMT	Recycle used solvents	Commercial	Over 20 years				
	AMT	Recycle coolants	Recycling Machine	1 year				
	AMT	Recycle training cars	Metal recycle	Over 20 years				
	AERO	Recycle engine oil	self cleaning by strainer	Over 10 years				
	Various	Recycle metals	Commercial	Over 20 vears				
	Café	Recycle cooking oils & grease traps	Commercial	Over 20 vears				
	Auto Body Diesel	Grease trap	Commercial	Over 20 years				
	Various	Aluminum cans, plastics, white paper, computer ink	Commercial	Over 10 years				
		cartridges						_
	Campus	E-cycle electronics	Apple Computer	To start 10/08				_
Windward CC	Cans/Plastic	The janitors at the college began recycling cans	Janitors	Approximately 7	Cans and Plastics			
	Kecycling	and plastics.		years				
	Paper recycling	A part of a paper recycling effort campuswide,	Campus Wide	Approximately	Paper			-
		faculty and staff use notepads that have been		27 years				
		converted from used paper.						
	Green Waste	WCC has designated a site on campus where	Groundskeeper	Approximately	Green waste, i.e., grass,			
	recycling	green waste is collected and used by the grounds		27 years	leaves, plant trimmings,			
		crew as mulch.			tree branches and			_
<u>A-</u>					prunings.			_
1	Telephone Books	The faculty and staff at the college turn in old		Approximately 7	Telephone Books			
		telephone books in an effort to recycle the old		years	-			_
		books.						_
	Campus	E-cycle electronics	Apple Computer	To start 10/08				
Maui CC	Maui County	Maui CC has agreed to allow usage of space on	Maui County who hires	Approximately 4	Newspaper, plastics,			
	Recycling Site	campus for a community recycling site run by Maui	Maui Disposal to operate	years	bottles, cardboard, HI-5			
		County. This site allows MCC a convenient	the recycling center.		redemptiom			
		location for the campus to recycle bottles, plastics,						
		and paper waste. This is also a HI-5 redemption						
00,		center.						
Maul CC	Maul CC Campus	A Maui CC student club manages several recycling	Hawai'i Institute for	Approximately 3	Plastic bottles and cans			
	Kecycling Program	collection points on campus and transports	Human Rights	years				
		recycables from the collection points to the Maui						
		County recycling/redemption site.						
	Administrative	Paper generated by the Administrative Services	Helaní Farms Hāna and	Approximately 3	Shredded paper	250 garbage bags a		_
	Services shredded	Unit at MCC is shredded and given to a local flower	Maui Floral Farms in	years		year		
	paper	farmer who uses the shredded paper for their	Kula					
		business.						
	Hecycled glass chips	Maui CC purchases large quantities of recycled	Aloha Plastic Recycling	Approximately 7	Glass chips	50 tons of glass		_
		glass chips to use in planter beds located	Company	years		chips		
	Recycled Disefic	Marii OC has constructed and included and included						
	Parking Curbs	mulded with recycled plactic builds to the second state	Alona Mastic Kecycling	Approximately 9	Recycled Plastics	100 Parking Lot		
	Como Rinna		Company	Vears				

[1				· · · · · · · · · · · · · · · · · · ·	·····					-	
Any Other Information												
Quantity Recycled (Per Yr)	100-300											
Materials Recycle	Telephone Books	Saves paper product use from landfill and saving for culinary dept. in purchases										
Duration of Program	4 years	Started Spring 2006	Began approximately 2 years ago	Began approximately 4 vears ado	Began approximatly 4	Began approximately 2 vears ado	Began approximately 2 years ago	Began approximately 2 years ago	Began approximately 4 years ago	Began approximately 2 years ago	Began approximately 2 vears ago	Began approximately 3 years ago
Vendor (if applicable)	Judy Moon	Paina/Logo designed on campus	NA	NA	Maui Disposal	NA		NA	NA	NA	NA	۲
Description of Program	When the new telephone books are issued, a staff member organizes a collection site on campus to collect the old phone books as part of an annual phone book recycling contest.	When people purchase a MCC plastic reusable coffee mug in the campus cafeteria, they receive a discount on their beverage each time they use it.	MCC Culinary converted to use of recyclable and reusable bags on campus and eliminating poly propylene containers and plastic bags from the MCC Culinary facilty	MCC Culinary converted to use of re-usable melamine plast and stainless steel flatware in its Foodcourt dining facility	MCC Culinary recycles all glass, plastic and cardboard food and beverage containers	MCC Culinary began using biodegradable com bags in all garbage and compost bins	MCC Culinary eliminated use of plastic spoons and utensils in kitchen labs and educational settings.	MCC Culinary Fine Dining Restaurant began service water upon request only.	MCC Culinary Arts provide their green waste to the local farmer for re-use.	MCC Culinary Arts capture cooking oils and fats for local Biodiesel producers	MCC Culinary Arts began a composting program where student learn and practice separataing compostable matter in the kitchen labs	MCC hosted and is now an active member of the Small Islands of the World Conference who is consortium of island institutions around the world working towards island sustainability.
Program Title	Telephone Books	Keusable Coffee Mugs	Culinary Arts- Use of Recyclable Products	Culinary Arts - Use of re-usable plates and flatward	Culinary Arts - Recycling Program	Culinary Arts - Biodegradable corn bags	Culinary Arts - Eliminated use of plastic spoons and utensils in kitchen labs	Culinary Art- Fine Dining Restaurant - Water	Green Waste	Cullnary Arts - Cooking Oils and Fats	Composting	Islands of the World
Campus						Maui CC						

PROGRAM TO MINIMIZE WASTE PREVENT POLLUTION UNIVERSITY OF HAWAII - COMMUNITY COLLEGES 06/07/08

PROGRAM TO MINIMIZE WASTE PREVENT POLLUTION UNIVERSITY OF HAWAII - COMMUNITY COLLEGES 08/07/08

<u> </u>	ogram Title	Description of Program	Vendor (if applicable)	Duration of	Materials Recvole	Quantity	Any Other Information	
MCC - MECO		MCC and MECO signed and executed a	VIN	Program		Recycled (Per Yr)		
Partnership		partnership to reduce MCC's institutional electrical consumption and to enhance MCC's Sustainable Technology curriculum		re-signed approximately 1 year ago.				
MCC New Science Bldg		MCC's new Science Bldg is designed to meet a minimum of LEEDs Silver	Design Partners	Design 50% completed				1
MCC Wind Turbine		MCC received a donation of windturbine. MCC is assessing a location for the installation of the turbine						1
MCC PV Project		MCC has run a Sustainable Tech class to teach students how to assemble and install PV units. This class will be installing these units on to the College's rooftops incrementally, class by class.		Began Spring 2008.				······································
MCC PV Rear Part Lot	king	MCC RFP to solicit for a PPA for a PV system to cover the MCC rear parking lot	AA	RFP appoximately 95% completed				
MCC - Waterless Urinals		MCC's newly renovated Student Center Bldg was equipped with waterless urinals in both Men's room in the facility	Falcon Waterless Urinals	Opened in 2008		Saves approx 10,000 gallons of water per urinal		
MCC - MECO Gr Pricing Program	u eeu	MCC and MECO is currently assessing engaging in a pilot Green Pricing Program, where MECO install PV panels on MCC rooftops and sells the power to MCC at a discount and MECO sells the excess power to the public as part of the green pricing program	Υ.	Assessing feasibility				
VerDiem Power Management Sofi	ware	MCC installed a power management software on to its network to control PC's and appratus that are left on over night on the campus in labs, classrooms, etc	Ver Diem	Installed approximately 2 years ago				••••••••••••••••••••••••••••••••••••••
Micro-Planet Volt: Regulators	age	MCC is testing voltage regulators on the campus to test whether MCC's incoming power has fluctuations which these regulators would level out and therefore reduce overall power consumption on the campus	Micro-planet	MCC piloting the voltage regulators for 90 days. Install about 2 weeks				
MCC - Chevron Partnership		Chevron is conducting a feasibility study of MCC's campus in order to propose a plan to assist MCC to reduce MCC's greenhouse gas generation	Chevron	Chevron Chevron conducting a free feasibility studv.				
MCC - DBEDT Anemometer Loai Program		MCC was contracted by DBEDT to run a State-wide anemometer loan program for entities interested in wind energy and needing to test the wind factors in specific locations around the State.	DBEDT	Contract signed in 2008				

PROGRAM TO N UNIVERSITY OF 08/07/08	MINIMIZE WASTE PREVENT I ⁻ HAWAII - COMMUNITY COL	OLLUTION					
Campus	Program Title	Description of Program	Vendor (if applicable)	Duration of Program	Materials Recycle	Quantity Recycled (Per Yr)	Any Other Information
Kapi'olani CC	Community Recycling Center Program	Designed to providde convenient recycling drop-off services to campus and neighboring community.	City & County of Honolulu in conjunction with Honolulu Disposal	Approximately 4 years	Aluminum cans, glass, cardboard, newspapers, paper	Undetermined	
	Apple Computer E- Cycling Program	Recycling program for computers, monitors, peripherals from all computer manufacturers	Apple Computers	1 year	Personal computers, monitors and peripherals	17 pailets (approximately 400 pieces)	Program supported and staffed by KCC staff in CELTT and Auxiliary Servicias
	Campus Recycling Program	A KCC student group manages several recycling collection points for aluminum cans and transports them to the recycling bins.	None	Approximately 4 years	Aluminum cans	Undetermined	0205 120
	community Mulch Program	KCC is designated as one of the City & Conty of Honolulu's recycled green waste sites, where mulch is delivered to various campus sites and is available for campus and community pickup and use.	City & County of Honolulu	Approximately 4 years	Green waste	Undetermined	
	Campuswide Recycling	Recycling bins (3) will be placed near the entry points to all major campus buildings.	None	Approximately 1 year	Aluminum cans, office paper, bottles	Undetermined	Program will be supported by KCC Auxiliary Services Staff.
A-4	Energy Management System	Integrate energy management systems for air coniditioning	Web Control	Approximately 2 vears	Engergy Conservation	Undetermined	Administration
Kapi olani CC	Re-usable Coffee Mugs	To cut down on the use of foam cups, KCC will sell thermal mugs for use in purchasing discounted coffee. This is also to encourage the purchase of coffee in the cafeteria rather than have individuals use coffee pots in the offices to reduce power consumption.	ano	Approximately 1 year	Sustainability, energy conservation	Undetermined	Sponsoring group is KCC Sustainability Committee
	Products	Purchase carpet meeting LEED standards Purchase disposable utensils which are biodegradable	Inteface FLOR Undetermined	Approximately 1 year Approximately 1	Sustainability Sustainability	Undetermined	Administration KCC Sustainability
Kaua'i CC	Recycle cooking oil and grease	Vegetable oil and grease is cleaned out of the grease traps by the vendor, the cooking oil is recycled.	Kaua'i Grease Trap Maintenance	Approximately 18 years	Vegetable oil and grease	200 gallons	Committee
	Collection of waste oil from vehicles	Kaua'i CC students bring their cars to the automotive shop to learn how to properly change and collect the vehicle oil. The collection is given to the vendor.	Speedie Lube	Approximately 31 years	Engine Oil	100 gallons from Auto Technology, 25 gallons from Operations & Main	
	white paper recycling program	Kaua'i CC faculty started a program recycling white of paper. Facilities; the maintenance staff transports the paper to a collection dumptster where the vendor collects the paper to be recycled.	Garden Island Dispodal	Approximately 7 y ears	White paper	1000 bs.	

Appendix 1. UH Community Colleges Waste and Pollution Initiatives

	· · · · · · · · · · · · · · · · · · ·																					
	Any Other Information	40-cubic yard roll-off container custom designed for recycling															Droaram is curroatty	heing established - soon	to be implemented	-	Program is supported by Apple Computer	
	Quantity Recycled (Per Yr)	Undetermined		Undetermined			1 Indetermined		Indetermined			Undetermined			Undetermined					Detentially, to a day day	Potentially nundreds of pounds	
	Materials Recycle	1) aluminum cans, glass	2) neewspaper, corrugated cardhoard office namer	Green waste			ll ihrarv & reference hooks		Green weste from cofotorio	CICCII MASIC II OIII CAICICIIA		Tree & shrub pruning			Metals, aluminum, oil		Cartridues for printers	facsimiles, copiers, and	multi-function machines	Compliant and monitore	cumptures and monitors, all brands	
	Duration of Program	on-going program		Program went	Into effect in April 2006 &	continues	Program	inception -	On-doind	brootam	program	On-going	program	2	On-going	program	To be	determined		on-aoina	program	
	Vendor (if applicable)	City & County of Honolulu in conjunction with Honolulu Disposal		City & County of	Honolulu in conjunction with Hawaiian Earth	Products						Akahi Services			Snitzer Steel, metals	Lennox, aluminum, Unitek oil	Entrade Corporation	-		Annie Committers		
	Description of Program	Designed to provide convenient recycling drop-off services to campus community.		Leeward CC is designated as one of the City &	where mulch is available for campus & Community	pick-up and use	Waianae campus donates unwanted reference &	library books to students, community members, and the homeless shelter rather than disconting	Native Hawaiian/Shade House program recycles all	freshareen waste from the campus cafeteria into	compost	Tree and shrub pruning are converted to wood	chips & recycled to use as mulch for the Native	Hawaiian plant collection and the Halau Lei and Medicinal Garden	Automotive program recycles metal, aluminum and	oil parts/prodcuts/by-products through various recvcling companies	Leeward CC is in the preliminary stagesof	establishing a recycling program for used printer	cartridges	Statewide computer recycling effort involving UH	and the K-12 schools to be coordinated at the UH-	Mânoa campus
	Program Title	Community Recycling Center Program		Community Mulch			Used Library &	Reference Books	Green Waste			Tree Pruning and	Wood Chips		Automotive Programs		Cartridge Recycling			Computer Recycling	,	
08/07/08	Campus	Leeward CC					Leeward CC								Λ.					****		

PROGRAM TO MINIMIZE WASTE PREVENT POLLUTION UNIVERSITY OF HAWAII - COMMUNITY COLLEGES

Inventory	
DHHL Vehicle	FY 2008

.

es
~
0
·=
_
<u></u>
\sim
-
Jahu
U.
-

			fuel	gasoline87							
	actual tuel	consum.	(gal)	9701.70	2854.11	4991.86	2495.44	5330.15	1065.80	440.14	on vehicle
		<u> </u>	average (5.84	4.11	5.32	6.07	6.79	4.86	3.94	available (
gallons per	100 miles	(fuel	economy)	08 6.667/5	08 4.762/3.448	08 5.882/4.762	08 7.143/5	08 7.692/5.882	08 5.556/4.167	08 4.545/3.333	08 no fuel rating
			As of Date	11/12/20	11/10/20	11/10/20	11/12/20	11/12/20	11/12/20	11/10/20	11/10/20
			Mileage	166,125	69,443	93,832	41,111	78,500	21,930	11,171	7,427
		Acquisition	Cost	\$17,053.04	\$5,900.00	\$4,500.00	\$24,460.42	\$8,000.00	\$4,500.00	\$7,200	\$27,996.23
		Model	Year	1992	1995	1992	2005	1997	2001	2004	2008
			Serial Number	2GNEG25H8N4132080	1G1L055MISY264061	1FTCR10U2NUDO6502	1FMZU62K75ZA32343	3GNEK18RXVG164830	1B4GP25301B158589	1B3EL36104N341974	1FBNE31L88DA59307
			Vehicle Desci	Van passenge	Corsica	Ranger	Explorer 4x4	Tahoe	Caravan	Stratus	E-350 12psgr
			Model	Chevy	Chevy	Ford	Ford	Chevy	Dodge	Dodge	Ford
		License	Plate	SH7297	SH9412	SH9110	SHB577	SHB268	SHD 358	SHD 359	SHD 319

Maui Vehicles

								gallons per			
								100 miles		actual fuel	
License				Model	Acquisition			(fuel		consum.	
Plate	Model	Vehicle Desci Se	rial No.	Year	Cost	Mileage	As of date	economy)	average (gal)	fuel
SH8652	Jeep	Cherokee SU 1J₂	4FJ28S3VL578912	1997	\$23,812.35	62,960	11/13/2008	6.667/5	5.84	3,677	gasoline 87

Kauai Vehicles

	oline-87
fuel	5.32 gas
fuel (gal)	194
average	5.97
gallons per 100 miles (fuel econom y)	6.667/5.
As of Date	11/19/2008
Mileage	32,585
Acquisition Cost	\$24,943.59
Model Year	1999
Serial N	1FMZU:
iption	xplorer 4x4
Vehicle Descr	Ford MPVH E
Model	Ford
License Plate	SH9218

Inventory	
DHHL Vehicle	FY 2008

Oahu Vehicles

Molokai Vehicles

			el	asoline	esel	esel	asoline	asoline	asoline
	el	onsump.	Jal) fu	6810.6 ga	0.0 di	0.0 di	7045.8 ga	2588.1 ga	1466.8 ga
	fu	8	average (g	26.3			6.52	5.13	5.84
gallons per	100 miles	(fuel	economy)	6.667/5.263	n/a	n/a	7.143/5.882	5.263/5	6.667/5
			As of Date	11/14/2008	11/14/2008	11/14/2008	11/14/2008	11/14/2008	11/14/2008
			Mileage	114,081	41,529	27,170	108,064	50,450	25,116
		Acquisition	Cost	\$24,424.04	\$1,600.00	\$55,434.00	\$32,490.00	\$26,051.43	\$24,355.97
		Model /	Year (1995	1984	1997	2002	2004	2006
			Serial No.	1FMDU34X8SUC34215	1GCGD34J4EF343955	1GDP7H1J0VJ501905	1GBHK24U52E113017	1FMZU72K24ZA03031	IFTNF21566EC86474
			Description	Explorer 4x4	Cargo truck 2	GMC dump tr	Silvarado 4x4	Explorer 4x4	Ford pick up I
			Model	Ford	Chevy	GMC	Chevy	Ford	Ford
		License	Plate	SH8310	SH8369	SH8558	SHA305	SHA907	SHC230

West Hawaii Vehicles

		fuel	gasoline	gasoline	gasoline	gasoline	gasoline	gasoline
	fuel consum.	(gal)	613.664	5463.7872	3230.6296	5049.52	0	
	-	average	6.35	5.84	5.84	6.35		
gallons per 100 miles	(fuel	economy)	7.143/5.556	6.667/5	6.667/5	7.143/5.556		n/a
		As of Date	11/21/2008	11/21/2008	11/21/2008	11/21/2008	11/21/2008	
		Mileage	9,664	93,558	55,319	79,520	53,625	no mileage
	Acquisition	Cost	\$24,999.95	\$25,088.95	\$13,166.04	\$26,568.59	\$30,449.95	
	Model	Year	2007	1998	1986	2005	1997	2005
		Serial No.	IFMCU93167KA15624	1GCGK24R9WE252855	1WBUCCJF8GH	1D7HU18N45J516396	1GBHK34J4VF008123	2SWUW11456260072
	Vehicle	Description	Escape	4x4 pick up tr	Dump truck a	1500 Quad ca	Flatbed truck	Trailer
		Model	Ford	Chevy	GMC	Chrysler	Chevy	SnowBr
	License	Plate	SHC612	SH9064	SH9054	SHB591	SH8514	SH847

East Hawaii Vehicles

Fuel	gasoline -87	gasoline -87	gasoline -87
fuel cons. (gal)	4043.6601	1007.5548	1085.7889
average	5.97	5.32	6.79
gallons per 100 miles (fuel economy)	6.667/5.263	5.882/4.762	7.692/5.882
As of Date	11/12/2008	11/12/2008	11/12/2008
Mileage	67,733	18,939	15,991
Acquisition Cost	\$24,999.01	\$24,778.06	\$31,381.05
Model Year	2002	2005	2008
Serial No.	4M2ZU76E11UJ09823	5TEUU42N55Z122690	1D7HU18218J178398
Description	Mountaineer	Tacoma 4x4 v	Ram 1500
Model	Mercury	Toyota	Dodge
License Plate	SHA154	SHB897	SH 337

	Year	License Plate #	NIN	GVWR	EPA Hwy Fuel	EPA City Fuel	Acq. Cost	Fuel Type	In-use Mileage	In-use Fuel Consum.	In-use Avg Fuel Econ	Annual Mileage	Annual Fuel Consum	Annual Avg Fuel Econ
1992 SH	ς Υ	14208	1HTSCNPL5NH409720	19000			\$0.00	DIESEL	297.00	35.10	8.46			
2003 S	S	HA653	1NPZH27X73D714835	14908			\$0.00	DIESEL	304.00	39.40	7.72	304.00	39.40	7.72
2003	0,	SHA901	1FTNF20D33ED82433	XXXX			\$0.00	DIESEL	2,417.00	159.70	15.13	2,417.00	159.70	15.13
2005		SHB437	1FTSF20PX5EA36577	9400			\$0.00	DIESEL	816.00	84.50	9.66	816.00	84.50	9.66
2005	-	SHB438	1FTSF20P15EA36578	9400			\$0.00	DIESEL	2,040.00	138.00	14.78	2,040.00	138.00	14.78
9002		SHB440	1F1SF20PX5EA36580	9400			\$0.00	DIESEL	1 110 00	40.09	13.//	1 110 00	40.09	13.//
			1 F I S F 2 U F 9 0 E B 1 2 5 7 9 1 E T S E 2 0 D E E E B 1 2 5 8 0	9400			\$0.00		7 272 00	BC.CC1	10.40	7 272 00	100.00	10.40
2006		SHC345	1FDWF36P36EB24320	3400 13000			\$0.00	DIESEL	202.00	30.64	6.59	202.00	30.64	6.59
2008		SHC719	1FDSX20R78EA28953	XXXX			\$0.00	DIESEL	35,517.00	341.93	103.87	35,319.00	319.21	110.65
2008	~	SHC741	1FDSX20R98EA28954	XXXX			\$0.00	DIESEL	9,752.00	768.44	12.69	8,448.00	692.93	12.19
1992		SHC759	J8DK7A1U2N3200748	XXXX			\$0.00	DIESEL	1,703.00	83.98	20.28	1,703.00	83.98	20.28
200	ω	SHC762	1FDWX36R28EA24355	XXXX			\$0.00	DIESEL	6,733.00	627.24	10.73	6,144.00	574.49	10.69
200	ω	SHD163	1PDXF46R98EA09249	XXXX			\$0.00	DIESEL	667.00	51.02	13.07	167.00	25.64	6.51
199	6	SHD164	1GBHG31F3X1153760	XXXX			\$0.00	DIESEL	2,157.00	206.06	10.47	1,569.00	154.41	10.16
199	5	SH4061	1GBGC24K3NE197466	8000			\$0.00	GAS	8,950.00	768.65	11.64	8,338.00	728.68	11.44
199	2	SH4062	1GBGC24K4NE198206	7200		-	\$0.00	GAS	1,052.00	16.20	64.94	1,052.00	16.20	64.94
199	2	SH4063	1GBGC24K9NE198136	8600	17 1	с С	\$0.00	GAS	5,833.00	530.87	10.99	5,253.00	480.46	10.93
199	32	SH4065	1GBGC24K1NE196882	7200			\$0.00	GAS	2,690.00	268.70	10.01	2,386.00	241.70	9.87
19	91	SH4092	1B6KE3657MS321949	7100			\$0.00	GAS	479.00	781.04	0.61	400.00	730.64	0.55
19	89	SH4107	1GT6CS14Z0K8528101	4900			\$0.00	GAS	492.00	24.70	19.92	492.00	24.70	19.92
19	06	SH4135	1GCGR33KOLF304739	7200	18 1	5	\$0.00	GAS	27,996.00	312.50	89.59	27,996.00	312.50	89.59
19	90	SH4136	1GCGR33K8LF304617	9000	13 1	0	\$0.00	GAS	3,701.00	370.62	9.99	3,309.00	338.24	9.78
19	90	SH4138	1GBGC24KXLE229696	8600	13 1	0	\$0.00	GAS	1,955.00	167.48	11.67	1,955.00	167.48	11.67
2	066	SH4140	1GBGC24K2LE229689	8600			\$0.00	GAS	3,202.00	79.25	40.40	749.00	27.00	27.74
Ψľ	066	SH4142	1GBGC24K4LE229709	8600			\$0.00	GAS	2,506.00	193.63	12.94	1,915.00	143.77	13.32
200	991	SH4143	1GBGR33K4MF300604	9070			\$0.00	GAS	1,543.00	118.80	12.99	1,543.00	118.80	12.99
20	00	SH4103	1G1DC14HAGJ525747	07200			\$0.00	240	2 75A 00	35155	77.7	2 75 A DO	354 55	7.77
	91	SH4207	1B6MF3656MS327606	10000			\$0.00	SAS	3 443 00	557 00	6.18	2,104.00	487 10	5.97
19	06	SH4212	1GBHC34K1LE232934	10000			\$0.00	GAS	4,336.00	563.90	7.69	3,811.00	504.50	7.55
19	88	SH4219	1FDJF37G1JKA14207	8800			\$0.00	GAS	671.00	14.00	47.93	671.00	14.00	47.93
19	92	SH4229	1GBGC24KXNE196864	7200			\$0.00	GAS	4,196.00	448.60	9.35	3,929.00	423.60	9.28
19	92	SH4230	1GBGC24K2NE196907	8600			\$0.00	GAS	7,506.00	107.15	70.05	632.00	50.48	12.52
19	93	SH5748	1GBJ7H1M7PJ105062	24980			\$0.00	GAS	2,964.00	468.60	6.33	2,741.00	426.40	6.43
19	93	SH5946	1GCFC24K6PE196757	7200			\$0.00	GAS	972.00	62.20	15.63	972.00	62.20	15.63
19	93	SH5947	1GCFC24K1PE197377	7200			\$0.00	GAS	2,026.00	101.60	19.94	2,026.00	101.60	19.94
19	92	SH7663	1GCFC24H3NE113402	7200			\$0.00	GAS	1,291.00	67.16	19.22	1,291.00	67.16	19.22
20	8	SH7741	1GBJC34RZYF475443	7200			\$0.00	GAS	4,628.00	340.98	13.57	4,628.00	340.98	13.57
19	93	SH7750	1GCFC24H2PZ139484	7200			\$0.00	GAS	10,749.00	884.33	12.15	9,601.00	785.68	12.22
199	92	SH7759	1GCFC24KXNE209619	7200			\$0.00	GAS	1,260.00	100.30	12.56	1,260.00	100.30	12.56
199	92	SH7760	1GCFC24K4NE212144	7200			\$0.00	GAS	3,208.00	211.21	15.19	3,208.00	211.21	15.19
199	91	SH7762	1GCFC24H6MZ120707	7200			\$0.00	GAS	1,233.00	98.70	12.49	1,233.00	98.70	12.49
19	91	SH7763	1GCFC24HXMZ120709	7200			\$0.00	GAS	657.00	108.90	6.03	657.00	108.90	6.03
19	91	SH/764	1GCFC24H3MZ154880	7200			\$0.00	GAS	3,550.00	207.40	17.12	3,550.00	207.40	17.12
20	- L	C0//HC	1GCFC24H3MZ 153499	1200			\$0.00	CAO CAO	169.00	23.00	11.00	169.00	23.00	1.35
195	~	SH1113	1B7HU2410HS446401	66UU			\$0.UC	GAG	2,616.00	219.80	11.90	2,616.00	219.80	11.90

State of Hawaii Department of Education Vehicle Fuel Report FY 08
Annual Avg Fuel Econ	23.73	32.11	17.84	12.73	13.3/	18.16	13.59	13.69	18.48	11.95	36.30	32.73	8.78	10.94	10.89	7.94	13.18	11.05	21.26	21.28	21.70	20.57	20.47	10.39	6.68	11.40	9.54	64.06	9.61	1.11	1/.01	9.74	22.19	12.94	19.27	21.07	76.92	28.77	31.08	23.99	9.96	7.98	16.36	10.11	12.63	49.45
Annual Fuel Consum	68.56	108.73	108.70	85.60	49.20 81.60	37.40	37.60	157.30	79.38	100.90	94.10	191.60	511.88	219.10	176.70	64.58	343.20	413.17	326.67	54.98	164.13	9.48	18.95	573.89	73.00	513.60	613.80	519.97	161.30	21.50	166.28	499.91	89.87	41.72	20.96	142.51	93.94	113.18	327.74	193.47	16.17	110.75	46.40	819.10	24.15	15.53
Annual Mileage	1,627.00	3,491.00	1,939.00	1,090.00	1 407 00	679.00	511.00	2,154.00	1,467.00	1,206.00	3,416.00	6,271.00	4,496.00	2,398.00	1,925.00	513.00	4,523.00	4,566.00	6,945.00	1,170.00	3,562.00	195.00	388.00	5,965.00	488.00	5,854.00	5,858.00	33,309.00	1,550.00	212.00	2,828.00	4,871.00	1,994.00	540.00	404.00	3,002.00	7,226.00	3,256.00	10,186.00	4,642.00	161.00	884.00	759.00	8,281.00	305.00	768.00
In-use Avg Fuel Econ	23.73	32.11	17.84	12.73	13.3/	18.16	13.59	13.69	18.48	11.95	36.30	32.73	8.78	10.94	10.89	7.94	13.15	11.05	21.26	21.28	21.70	20.57	20.47	10.44	6.68	11.67	9.54	64.06	9.61	1.11	11/.01	9.74	22.19	12.94	19.27	21.07	76.92	28.77	31.08	23.99	96.6	7.98	14.73	10.13	12.63	49.45
In-use Fuel Consum.	68.56	108.73	108.70	85.60	49.20 e1 60	37.40	37.60	157.30	79.38	100.90	94.10	191.60	511.88	278.40	176.70	64.58	391.20	413.17	326.67	54.98	164.13	9.48	18.95	640.21	73.00	576.60	613.80	519.97	161.30	27.50	166.28	499.91	89.87	41.72	20.96	142.51	93.94	113.18	327.74	193.47	16.17	110.75	67.20	919.10	24.15	15.53
In-use Mileage	1,627.00	3,491.00	1,939.00	1,090.00	658.00	679.00	511.00	2,154.00	1,467.00	1,206.00	3,416.00	6,271.00	4,496.00	3,046.00	1,925.00	513.00	5,144.00	4,566.00	6,945.00	1,170.00	3,562.00	195.00	388.00	6,684.00	488.00	6,727.00	5,858.00	33,309.00	1,550.00	212.00	2,828.00	4,871.00	1,994.00	540.00	404.00	3,002.00	7,226.00	3,256.00	10,186.00	4,642.00	161.00	884.00	00.066	9,311.00	305.00	768.00
Fuel Type	GAS	GAS	GAS	GAS	GAS	GAS	GAS	GAS	GAS	GAS	GAS	GAS	GAS	GAS	GAS	GAS	GAS	GAS	GAS	GAS	GAS	GAS	GAS	GAS	GAS	GAS	GAS	GAS	GAS	GAS	GAS	GAS	GAS	GAS	GAS	GAS	GAS	GAS	GAS	GAS	GAS	GAS	GAS	GAS	GAS	GAS
Acq. Cost	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
																																												_		
EPA City Fuel																																													16	
EPA EPA Hwy City Fuel Fuel																																													22 16	
EPA EPA GVWR Hwy City Fuel Fuel	2500	2500	7200	7200	7200	7200	7200	7200	2470	7200	4695	4695	8800	5258	7200	7200	7200	7200	2830	2830	2830	2830	2830	8600	19660	8600	7200	6000	10000	10000	/200	8600	2/00	2/00	2/00	2700	2700	2700	2700	7200	10100	10100	5600	5060	7200 22 16	2160
VIN GVWR Hwy City Fuel Fuel	1Y1SK5265SZ101563 2500	1Y1SK5267SZ101581 2500	1GCFC24H8SE283332 7200	1GCFC24H4SE284641 7200	1GCFC24MX1E190844 /200	1GCFC24M8TE192804 7200	1GCFC24M9TE189538 7200	1GCFC24M1TE191770 7200	1G1JC524XV7123532 2470	1GCFC24M3VE125997 7200	1FACP52U1PG260744 4695	1FALP5215PG266231 4695	1GCFC24H9MZ162191 8800	1G1BL537XPR133210 5258	1GCFC24M5WZ127387 7200	1GBHC34R3WF015798 7200	1GCFC24H1MZ162749 7200	1GCFC24H6MZ161497 7200	KMJF24M3WU699195 2830	KMHJF24M8WU697555 2830	KMHJF24M2WU691251 2830	KMHJF24M4WU696113 2830	KMHJF24M7WU691259 2830	2B4HB25Y4RK548003 8600	1FDNK64P9MVA06555 19660	1GCFC24H6MZ163394 8600	1GCFC24H1NE159682 7200	1GCFCZ4H4MZ1/5348 6000	1GDHC34K1ME5532840 10000	1GBHC34F OX F014518 10000	1GCGC24R5XR/16263 /200	1GCGG35K5PF340970 8600	3G1JC5240YS118569 2/00	3G1JC5243YS118Z12 2/00	3G1JC5246YS11/829 2/00	3G1JC5240YS118491 2700	3G1JC5243YS117433 2700	3G1JC5249YS118117 2700	3G1JC5245YS118101 2700	1GBHC34R9YF409552 7200	1B7MM3656PS268169 10100	1B7ME3653NS646717 10100	1GCDC14Z2RZ236018 5600	1GCFC24H3PZ139347 5060	1GCFC24Z5RZ245617 7200 22 16	JTDBT123810110695 2160
License VIN GVWR Hwy City Plate # VIN GVWR Hwy City Fuel Fuel	SH8077 1Y1SK5265SZ101563 2500	SH8078 1Y1SK5267SZ101581 2500	SH8158 1GCFC24H8SE283332 7200	SH8159 1GCFC24H4SE284641 7200	SH8289 1GCFC24MX1E190844 7200 CL0200 1CCEC24M2TE100868 7200	SH0230 1GCLC24M31E103000 / 200 SH8291 1GCFC24M8TE192804 7200	SH8292 1GCFC24M9TE189538 7200	SH8293 1GCFC24M1TE191770 7200	SH8411 1G1JC524XV7123532 2470	SH8465 1GCFC24M3VE125997 7200	SH8633 1FACP52U1PG260744 4695	SH8634 1FALP5215PG266231 4695	SH8638 1GCFC24H9MZ162191 8800	SH8667 1G1BL537XPR133210 5258	SH8778 1GCFC24M5WZ127387 7200	SH8864 1GBHC34R3WF015798 7200	SH8870 1GCFC24H1MZ162749 7200	SH8871 1GCFC24H6MZ161497 7200	SH8961 KMJF24M3WU699195 2830	SH8965 KMHJF24M8WU697555 2830	SH8967 KMHJF24M2WU691251 2830	SH8969 KMHJF24M4WU696113 2830	SH8970 KMHJF24M7WU691259 2830	SH8978 2B4HB25Y4RK548003 8600	SH8980 1FDNK64P9MVA06555 19660	SH9042 1GCFC24H6MZ163394 8600	SH9043 1GCFC24H1NE159682 7200	SH9044 1GCFCZ4H4MZ1/5348 6000	SH9069 1GDHC34K1ME5532840 10000	SH9301 1GBHC34FOXF014518 10000	SH9458 1GCGC24R5XR/16263 /200	SH9507 1GCGG35K5PF340970 8600	SH952/ 3G1JC5240YS118569 2/00	SH9528 3G1JC5243YS118212 2/00	SH9529 3G1JC5246YS11/829 2/00	SH9531 3G1JC5240YS118491 2700	SH9534 3G1JC5243YS117433 2700	SH9535 3G1JC5249YS118117 2700	SH9537 3G1JC5245YS118101 2700	SH9559 1GBHC34R9YF409552 7200	SH9616 1B7MM3656PS268169 10100	SH9653 1B7ME3653NS646717 10100	SH9769 1GCDC14Z2RZ236018 5600	SH9770 1GCFC24H3PZ139347 5060	SH9771 1GCFC24Z5RZ245617 7200 22 16	SH9804 JTDBT123810110695 2160
Year License VIN GVWR Hwy City Plate # VIN Fuel Fuel	1995 SH8077 1Y1SK5265SZ101563 2500	1995 SH8078 1Y1SK5267SZ101581 2500	1995 SH8158 1GCFC24H8SE283332 7200	1995 SH8159 1GCFC24H4SE284641 7200	1996 SH8289 1GCFC24MX1E190844 7200 1006 SH8200 1CCFC24M2TE1908889 7200	1996 SH8291 1GCFC24M8TE192804 7200	1996 SH8292 1GCFC24M9TE189538 7200	1996 SH8293 1GCFC24M1TE191770 7200	1996 SH8411 1G1JC524XV7123532 2470	1996 SH8465 1GCFC24M3VE125997 7200	1993 SH8633 1FACP52U1PG260744 4695	1993 SH8634 1FALP5215PG266231 4695	1991 SH8638 1GCFC24H9MZ162191 8800	1993 SH8667 1G1BL537XPR133210 5258	1998 SH8778 1GCFC24M5WZ127387 7200	1998 SH8864 1GBHC34R3WF015798 7200	1991 SH8870 1GCFC24H1MZ162749 7200	1991 SH8871 1GCFC24H6MZ161497 7200	1998 SH8961 KMJF24M3WU699195 2830	1998 SH8965 KMHJF24M8WU697555 2830	1998 SH8967 KMHJF24M2WU691251 2830	1998 SH8969 KMHJF24M4WU696113 2830	1998 SH8970 KMHJF24M7WU691259 2830	1994 SH8978 2B4HB25Y4RK548003 8600	1991 SH8980 1FDNK64P9MVA06555 19660	1991 SH9042 1GCFC24H6MZ163394 8600	1992 SH9043 1GCFC24H1NE159682 7200	1991 SH9044 1GCFC24H4MZ1/5348 6000	1991 SH9069 1GDHC34K1ME5532840 10000	1999 SH9301 1GBHC34FOXF014518 10000	1999 SH9458 1GCGC24K5XK/16263 /200	1993 SH9507 1GCGG35K5PF340970 8600	2000 SH952/ 3G1JC5240YS118569 2700	2000 SH9528 3G1JC5243YS118212 2700	2000 SH9529 3G1JC5246YS11/829 2/00	2000 SH9531 3G1JC5240YS118491 2700	2000 SH9534 3G1JC5243YS117433 2700	2000 SH9535 3G1JC5249YS118117 2700	2000 SH9537 3G1JC5245YS118101 2700	2000 SH9559 1GBHC34R9YF409552 7200	1993 SH9616 1B7MM3656PS268169 10100	1992 SH9653 1B7ME3653NS646717 10100	1994 SH9769 1GCDC14Z2RZ236018 5600	1993 SH9770 1GCFC24H3PZ139347 5060	1994 SH9771 1GCFC24Z5RZ245617 7200 22 16	2001 SH9804 JTDBT123810110695 2160
Model Year License VIN EPA EPA	Prizm 1995 SH8077 1Y1SK5265SZ101563 2500	Prizm 1995 SH8078 1Y1SK5267SZ101581 2500	XXXX 1995 SH8158 1GCFC24H8SE283332 7200	XXXX 1995 SH8159 1GCFC24H4SE284641 7200	XXXX 1996 SH8289 1GCFC24MX1E190844 /200 VVVV 1006 SH8260 1CCFC24MA3TE1808888 7200	XXX 1996 SH8291 1GCFC24M8TE192804 7200	XXXX 1996 SH8292 1GCFC24M9TE189538 7200	XXXX 1996 SH8293 1GCFC24M1TE191770 7200	Cavalier 1996 SH8411 1G1JC524XV7123532 2470	XXXX 1996 SH8465 1GCFC24M3VE125997 7200	XXXX 1993 SH8633 1FACP52U1PG260744 4695	XXXX 1993 SH8634 1FALP5215PG266231 4695	XXXX 1991 SH8638 1GCFC24H9MZ162191 8800	XXXX 1993 SH8667 1G1BL537XPR133210 5258	XXXX 1998 SH8778 1GCFC24M5WZ127387 7200	XXXX 1998 SH8864 1GBHC34R3WF015798 7200	XXXX 1991 SH8870 1GCFC24H1MZ162749 7200	XXXX 1991 SH8871 1GCFC24H6MZ161497 7200	Elantra 1998 SH8961 KMJF24M3WU699195 2830	Elantra 1998 SH8965 KMHJF24M8WU697555 2830	Elantra 1998 SH8967 KMHJF24M2WU691251 2830	Elantra 1998 SH8969 KMHJF24M4WU696113 2830	Elantra 1998 SH8970 KMHJF24M7WU691259 2830	XXXX 1994 SH8978 2B4HB25Y4RK548003 8600	XXXX 1991 SH8980 1FDNK64P9MVA06555 19660	XXXX 1991 SH9042 1GCFC24H6MZ163394 8600	XXXX 1992 SH9043 1GCFC24H1NE159682 7200	XXXX 1991 SH9044 1GCFC24H4MZ1/5348 6000	XXXX 1991 SH9069 1GDHC34K1ME5532840 10000	XXXX 1999 SH9301 1GBHC34F-0XF014518 10000	XXXX 1999 SH9458 1GCGC24K5XK/16263 /200	XXXX 1993 SH9507 1GCGG35K5PF340970 8600	Cavaller 2000 SH952/ 3G1JC5240YS118569 2700	Cavaller 2000 SH9528 3G1JC5243YS118212 2700	Cavaller 2000 SH9529 3G1JC5246YS11/829 2/00	Cavalier 2000 SH9531 3G1JC5240YS118491 2700	Cavalier 2000 SH9534 3G1JC5243YS117433 2700	Cavalier 2000 SH9535 3G1JC5249YS118117 2700	Cavalier 2000 SH9537 3G1JC5245YS118101 2700	XXXX 2000 SH9559 1GBHC34R9YF409552 7200	XXXX 1993 SH9616 1B7MM3656PS268169 10100	XXXX 1992 SH9653 1B7ME3653NS646717 10100	XXXX 1994 SH9769 1GCDC14Z2RZ236018 5600	XXXX 1993 SH9770 1GCFC24H3PZ139347 5060	XXXX 1994 SH9771 1GCFC24Z5RZ245617 7200 22 16	Echo 2001 SH9804 JTDBT123810110695 2160

Annual Avg Fuel Econ	35.24	31.10	31.86	26.77	32.10	27.45	30.19	11.13	14.80	11.02	15.95	14.61	14.68	13.86	19.57	11.48	18.40	22.40 23.36	17.58	10.80	11.21	11.53	11.35	72.14 21.14	11.03	21.28	23.98	16.46	11.96	15.43	8.83	90.01 90 0	0.00	17.60	12.85	11.08	13.43	-66.17	8.96	18.90	18.68
Annual Fuel Consum	212.38	81.09	285.27	91.22	52.52	109.05	226.07	479.54	211.50	482.70	029.70	166.50	575.66	176.60	46.40	288.54	143.80	183.10	102.00	690.80	624.70	562.42	401.25	663.8U 45.37	355.50	29.94	75.34	28.79	493.57	502.58	895.11	309.43	308.06	86.00	772.40	19.14	66.70	458.23	828.30	124.00	167.00
Annual Mileage	7,484.00	2,522.00	9,088.00	2,442.00	1,686.00	2,993.00	6,824.00	5,339.00	3,130.00	5,320.00	10,044.00 5 1 00 00	2,433,00	8,451.00	2,448.00	908.00	3,311.00	2,646.00	4 278 00	1,793.00	7,463.00	7,000.00	6,482.00	4,555.00	8,060.00	3,921.00	637.00	1,807.00	474.00	5,904.00	7,755.00	7,901.00	3,/9/.UU 5 446 00	2,410.00 4 709 00	1.514.00	9,922.00	212.00	896.00	-30,322.00	7,422.00	2,343.00	3,120.00
In-use Avg Fuel Econ	35.24	31.10	31.86	26.77	32.10	27.45	30.19	10.99	14.79	11.11	10.01	14.46	14.71	13.66	19.57	11.91	18.61	21.00	17.80	10.80	11.37	11.60	12.09	72.12	10.87	21.28	23.98	16.46	12.29	15.43	9.05	10.49	12 59	17.60	12.88	11.08	13.43	-60.34	8.99	19.30	18.68
In-use Fuel Consum.	212.38	81.09	285.27	91.22	52.52	109.05	226.07	503.02	235.90	528.70	704.40	203.60	622.64	204.90	46.40	342.52	1/4.30	00.78 00101	107.40	690.80	744.70	601.51	428.63	153.90	388.55	29.94	75.34	28.79	542.46	502.58	946.55	384.60	424.95	86.00	853.50	19.14	66.70	496.67	902.60	157.50	167.00
In-use Mileage	7,484.00	2,522.00	9,088.00	2,442.00	1,686.00	2,993.00	6,824.00	5,529.00	3,488.00	5,874.00	11,112.00	2,945,00	9,156.00	2,799.00	908.00	4,081.00	3,243.00	2,101.00	1,912.00	7,463.00	8,470.00	6,980.00	5,183.00	9,135.00	4,224.00	637.00	1,807.00	474.00	6,669.00	7,755.00	8,564.00	4,033.00 F 040.00	5 351 00	1.514.00	10,990.00	212.00	896.00	-29,970.00	8,111.00	3,040.00	3,120.00
Fuel Type	GAS	GAS	GAS	GAS	GAS	GAS	GAS	GAS	GAS	GAS	GAC	GAS	GAS	GAS	GAS	GAS	GAS	CAC CAC	GAS	GAS	GAS	GAS	GAS	GAS	GAS	GAS	GAS	GAS	GAS	GAS	GAS	GAU CAO	SAS SAS	GAS	GAS	GAS	GAS	GAS	GAS	GAS	GAS
Acq. Cost	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	00.0¢	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	00.0¢	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	00.04	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
EPA City Fuel															_	16																									
PA wy Jel																																									
ш±ш																22																									
GVWR H	2160	2160	2160	2160	2160	2160	2160	7200	6150	6000	5300	5600	6000	5700	5300	7200 22	4722	4122	4722	8600	8600	8600	8600	4900	8600	2700	2430	3300	8800	6250	10000	8000	7200	7200	7200	7200	7200	7200	8600	4722	4722
VIN GVWR H	JTDBT123410110029 2160	JTDBT123810110101 2160	JTDBT123X10110617 2160	JTDBT123510110492 2160	JTDBT123110110473 2160	JTDBT123610110713 2160	JTDBT123910110480 2160	1GCFC24H1RZ266816 7200	1B7HL26X2TS682625 6150	1FTDF172XVKD55847 6000	1GCCS1429K822655/ 5300	1GCDS19ZUN6Z20101 3300 1GCDC14Z9RZ223993 5600	1GCEC14Z2RZ267791 6000	1GNDM15Z6RB232081 5700	1GCCS14Z9R8225523 5300	1GCFC24ZXRZ245435 7200 22	1FALP224VG223165 4722	1FALF3220VG223103 4722 1FAI P5226VG223166 4722	1FALP5222VG223164 4722	1GCGG35KOPF340875 8600	1GFGG35K6PF240704 8600	1GBGC24KORE260917 8600	1GBGC24K3RE261673 8600	1GCFC24H8PZ13/190 /200 1GCCS1423R8226201 4900	1GCGG35K0PF339354 8600	1FAFP33PX2W107773 2700	1NXBR12E81Z493686 2430	1FAFP5326YA142204 3300	1GBHC34K2RE313546 8800	1FTEF15Y5SLB50325 6250	1GBHC34K5RE176621 10000	1GBGCZ4K6KE3U2619 8600 1CDUC34K3DE176073 10000	1GCFC24H6R7267679 7200	1GCFC24HRZ267583 7200	1GCFC24H8RZ266579 7200	1GCFC24H8RZ268123 7200	1GTFC24H6RE550414 7200	1GTFC24H3RE549494 7200	1GBHC34KXRE177120 8600	1FAFP5222WG216116 4722	1FAFP5226WG216118 4722
License VIN GVWR H	SH9806 JTDBT123410110029 2160	SH9808 JTDBT123810110101 2160	SH9809 JTDBT123X10110617 2160	SH9810 JTDBT123510110492 2160	SH9812 JTDBT123110110473 2160	SH9814 JTDBT123610110713 2160	SH9815 JTDBT123910110480 2160	SH9841 1GCFC24H1RZ266816 7200	SH9842 1B7HL26X2TS682625 6150	SH9843 1FTDF172XVKD55847 6000	SH9921 1GCCS1429K822655/ 5300 SU0022 1CCCS1670B9226181 5300	SH9922 1GCCS1920K0220101 3300 SH9923 1GCDC14Z9RZ223993 5600	SH9928 1GCEC14Z2RZ267791 6000	SH9977 1GNDM15Z6RB232081 5700	SHA120 1GCCS14Z9R8225523 5300	SHA121 1GCFC24ZXRZ245435 7200 22	SHA138 1FALP224VG223165 41/22 SUA153 1EAL DE220//C223165 47/22	SHA133 IFALF3220VG223103 4/ 22 SHA174 1EA D5226VG223166 4722	SHA175 1FALP5222VG223164 4722	SHA220 1GCGG35KOPF340875 8600	SHA221 1GFGG35K6PF240704 8600	SHA222 1GBGC24KORE260917 8600	SHA229 1GBGC24K3RE261673 8600	SHA249 1GCFC24H8PZ13/190 /200 SHA284 1GCCS1423R8226201 4900	SHA297 1GCGG35K0PF339354 8600	SHA300 1FAFP33PX2W107773 2700	SHA328 1NXBR12E81Z493686 2430	SHA329 1FAFP5326YA142204 3300	SHA333 1GBHC34K2RE313546 8800	SHA334 1FTEF15Y5SLB50325 6250	SHA337 1GBHC34K5RE176621 10000	SHA338 1GBGCZ4K6KE3UZ619 8600 SUA330 1CBUC34K3DE176073 10000	SHA330 1GDFC34N3NE170973 10000 SHA340 1GCFC24H6R7267679 7200	SH344 1GCFC24HRZ267583 7200	SHA352 1GCFC24H8RZ266579 7200	SHA367 1GCFC24H8RZ268123 7200	SHA368 1GTFC24H6RE550414 7200	SHA383 1GTFC24H3RE549494 7200	SHA384 1GBHC34KXRE177120 8600	SHA447 1FAFP5222WG216116 4722	SHA449 1FAFP5226WG216118 4722
Year License VIN E Plate # VIN GVWR H	2001 SH9806 JTDBT123410110029 2160	2001 SH9808 JTDBT123810110101 2160	2001 SH9809 JTDBT123X10110617 2160	2001 SH9810 JTDBT123510110492 2160	2001 SH9812 JTDBT123110110473 2160	2001 SH9814 JTDBT123610110713 2160	2001 SH9815 JTDBT123910110480 2160	1994 SH9841 1GCFC24H1RZ266816 7200	1996 SH9842 1B7HL26X2TS682625 6150	1997 SH9843 1FTDF172XVKD55847 6000	1994 SH9921 1GCCS1429K8Z2655/ 5300 1004 SH0022 1/CCCS1020B9226194 5200	1994 SH9922 1GCCS19Z0K0Z20101 3300 1994 SH9923 1GCDC14Z9RZ223993 5600	1994 SH9928 1GCEC14Z2RZ267791 6000	1994 SH9977 1GNDM15Z6RB232081 5700	1994 SHA120 1GCCS14Z9R8225523 5300	1994 SHA121 1GCFC24ZXRZ245435 7200 22	199/ SHA138 1FALP224VG223165 4/22 1007 SU10152 1EALD5220VC223163 4722	199/ 300133 115425200525103 4722 1997 SH4174 1541 552567673166 4722	1997 SHA175 1FALP5222VG223164 4722	1993 SHA220 1GCGG35KOPF340875 8600	1993 SHA221 1GFGG35K6PF240704 8600	1994 SHA222 1GBGC24KORE260917 8600	1994 SHA229 1GBGC24K3RE261673 8600	1993 SHA249 1GCFC24H8PZ13/190 /200 1994 SHA284 1GCCS1423R8226201 4900	1993 SHA297 1GCGG35K0PF339354 8600	2002 SHA300 1FAFP33PX2W107773 2700	2001 SHA328 1NXBR12E81Z493686 2430	2000 SHA329 1FAFP5326YA142204 3300	1994 SHA333 1GBHC34K2RE313546 8800	1995 SHA334 1FTEF15Y5SLB50325 6250	1994 SHA337 1GBHC34K5RE176621 10000	1994 2014338 1GBGCZ4K6KE302619 8600 1004 2014330 1CBUC34K3E172673 10000	1994 SHA339 1GBHC34A3KE170973 10000 1994 SHA340 1GCFC24H6R72679 7200	1994 SHA344 1GCFC24HRZ267583 7200	1994 SHA352 1GCFC24H8RZ266579 7200	1994 SHA367 1GCFC24H8RZ268123 7200	1994 SHA368 1GTFC24H6RE550414 7200	1994 SHA383 1GTFC24H3RE549494 7200	1994 SHA384 1GBHC34KXRE177120 8600	1998 SHA447 1FAFP5222WG216116 4722	1998 SHA449 1FAFP5226WG216118 4722
Model Year License VIN GVWR H Plate # Plate # FI FI FI	Echo 2001 SH9806 JTDBT123410110029 2160	Echo 2001 SH9808 JTDBT123810110101 2160	Echo 2001 SH9809 JTDBT123X10110617 2160	Lecho 2001 SH9810 JTDBT123510110492 2160	Echo 2001 SH9812 JTDBT12310110300 2100	Echo 2001 SH9814 JTDBT123610110713 2160	Echo 2001 SH9815 JTDBT123910110480 2160	XXXX 1994 SH9841 1GCFC24H1RZ266816 7200	Dakota 1996 SH9842 1B7HL26X2TS682625 6150	XXXX 1997 SH9843 1FTDF172XVKD55847 6000	S-10 1994 SH9921 1GCCS1429K8Z26557 5300 C 10 1004 CU0022 1/CCCS1020B0226551 5300	3-10 1994 SH9922 19CCS1920K0220101 3300 XXXX 1994 SH9923 1GCDC14Z9RZ223993 5600	XXXX 1994 SH9928 1GCEC14Z2RZ267791 6000	XXXX 1994 SH9977 1GNDM15Z6RB232081 5700	XXXX 1994 SHA120 1GCCS14Z9R8225523 5300	XXXX 1994 SHA121 1GCFC24ZXRZ245435 7200 22	Iaurus 199/ SHA138 1FALP224VG223165 4/22 Tourus 4007 SUA153 4 EAI DE220//C002463 4722	Taurus 199/ STA133 FALP3ZOVGZ23103 4/22 Taurus 1007 SHA174 1FALP32SUG273466 4723	Taurus 1997 SHA175 1FALP5222VG223164 4722	XXXX 1993 SHA220 1GCGG35KOPF340875 8600	XXXX 1993 SHA221 1GFGG35K6PF240704 8600	XXXX 1994 SHA222 1GBGC24KORE260917 8600	XXXX 1994 SHA229 1GBGC24K3RE261673 8600	XXXX 1993 SHAZ49 1GCFCZ4H8PZ13/190 //200 S-10 1994 SHA284 1GCCS1423R8226201 4900	XXXX 1993 SHA297 1GCGG35K0PF339354 8600	Focus 2002 SHA300 1FAFP33PX2W107773 2700	Corolla 2001 SHA328 1NXBR12E81Z493686 2430	Taurus 2000 SHA329 1FAFP5326YA142204 3300	XXXX 1994 SHA333 1GBHC34K2RE313546 8800	XXXX 1995 SHA334 1FTEF15Y5SLB50325 6250	XXXX 1994 SHA337 1GBHC34K5RE176621 10000	XXXX 1994 SHA338 1GBGCZ4K6KE302619 8600 VVVV 1001 EUA330 1CBUC34K3EE17E073 10000	XXXX 1994 31A339 1GBHC34N3KE170973 10000 XXXX 1994 SHA340 1GCFC34H6R7367679 7200	XXXX 1994 SHA344 1GCFC24HRZ267583 7200	XXXX 1994 SHA352 1GCFC24H8RZ266579 7200	XXXX 1994 SHA367 1GCFC24H8RZ268123 7200	XXXX 1994 SHA368 1GTFC24H6RE550414 7200	XXXX 1994 SHA383 1GTFC24H3RE549494 7200	XXXX 1994 SHA384 1GBHC34KXRE177120 8600	XXXX 1998 SHA447 1FAFP5222WG216116 4722	XXXX 1998 SHA449 1FAFP5226WG216118 4722

Annual Avg Fuel Econ	12.60	11.18	11.70	8.73	7 14	13.75	10.65	9.64	8.87	5.08	9.52	9.67	9.97	21.99	9.09	19.86	20.83	22.87	10.36	22.50	25.90	27.01	24.78	16.01 32 47	17.51	10.61	11.05	11.01	11.94	10.21	11.05	9.90	9.58	16.09	12.40	9.01	12.59	12.74	18.45	19.73	20.24	14.40	18.54	24.56 26.10
nnual Fuel Consum	546.26	720.47	301.50	250.53	920.00 200.12	102.50	620.49	593.00	195.47	19.10	899.43	542.30	425.32	257.40	586.90	97.10	122.03	20.77	1,007.30	307.95	78.20	471.62	166.91	62.15 230.43	12.51	640.30	560.90	565.20	658.81	505.54	465.81	700.20	457.53	46.50	195.20	694.94	574.71	201.72	126.70	192.66	284.55	160.38	213.88	729.79 340.97
Annual /	6,882.00	8,054.00	3,527.00	2,187.00	0,333.00 2 071 00	1.409.00	6,606.00	5,719.00	1,734.00	97.00	8,559.00	5,246.00	4,242.00	5,661.00	5,335.00	1,928.00	2,542.00	475.00	10,432.00	6,929.00	2,025.00	12,739.00	4,136.00	995.00 7 775 00	219.00	6,791.00	6,196.00	6,225.00	7,866.00	5,160.00	5,148.00	6,929.00	4,381.00	748.00	2,420.00	6,259.00	7,238.00	2,569.00	2,337.00	3,802.00	5,760.00	2,309.00	3,965.00	17,927.00 8,901.00
n-use Avg uel Econ	12.43	11.20	11.28	8.67	7 14	13.75	10.93	9.51	8.87	5.08	9.46	9.70	9.98	22.11	9.14	15.11	20.83	22.87	10.44	22.50	25.90	27.01	24.78	32.47	17.51	10.61	11.39	10.91	12.21	10.26	11.60	9.70	9.46	16.09	12.40	9.24	12.94	12.74	-1.70	19.73	20.24	14.40	18.54	24.56 26.10
n-use Fuel Ir Consum.	593.22	800.67	407.50	274.39	900.12	102.50	670.88	674.81	195.47	19.10	971.83	585.50	451.51	269.60	622.90	185.20	122.03	20.77	1104.60	307.95	78.20	471.62	166.91	62.15 230.43	12.51	640.30	619.90	625.24	722.17	561.36	491.17	802.20	525.13	46.50	195.20	764.98	641.54	201.72	151.80	192.66	284.55	160.38	213.88	729.79 340.97
In-use Mileage	7,375.00	8,965.00	4,595.00	2,378.00	6,333.00 2.071.00	1.409.00	7,336.00	6,420.00	1,734.00	97.00	9,192.00	5,678.00	4,505.00	5,961.00	5,692.00	2,799.00	2,542.00	475.00	11,529.00	6,929.00	2,025.00	12,739.00	4,136.00	995.00 7 775 00	219-00	6,791.00	7,059.00	6,823.00	8,817.00	5,760.00	5,697.00	7,780.00	4,967.00	748.00	2,420.00	7,065.00	8,302.00	2,569.00	-258.00	3,802.00	5,760.00	2,309.00	3,965.00	17,927.00 8,901.00
Fuel Type	GAS	GAS	GAS	GAS	CAS GAS	GAS	GAS	GAS	GAS	GAS	GAS	GAS	GAS	GAS	GAS	GAS	GAS	GAS	GAS	GAS	GAS	GAS	GAS	GAS.	GAS	GAS	GAS	GAS	GAS	GAS	GAS	GAS	GAS	GAS	GAS	GAS	GAS	GAS	GAS	GAS	GAS	GAS	GAS	GAS GAS
Acq. Cost	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00 \$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00 \$0.00
EPA City Fuel																																												
EPA Hwy Fuel																														16 15	19 15													
EPA GVWR Hwy Fuel	6000	8600	8600	10000	10000	15000	10000	5960	10000	19600	10000	5260	10000	4722	0006	6930	2700	2160	8600	2760	2760	2760	2760	2/60 2760	2760	8600	8600	5600	9360	8600 16 15	8600 19 15	5620	10000	4400	7200	9500	9500	7200	3420	3219	3219	3420	3420	3219 XXXX
VIN GVWR Hwy Fuel	1FTDF1721VKD55817 6000	1GCGG35K2SF146082 8600	1GCGG35K1SF147496 8600	1GBHC34K6SE240588 10000		15011554155555554 15000	1GBHC34K4SE203233 10000	1GBHC34K9RE311406 5960	1GBHC34K8SE117729 10000	1FDNK64P7NVA14185 19600	1GBHC34K2SE204476 10000	1GBHC34K7RE311047 5260	1GBHC34K8SE203428 10000	1FAFP522OXG290362 4722	1GTGC33R3XF094531 9000	1FTRF27Z9WKB88228 6930	3G1JC5240YS118488 2700	JTDBT123910109989 2160	1GBGC24R5TE125582 8600	3N1CB51D63L782093 2760	3N1CB51D43L715136 2760	3N1CB51D53L713783 2760	3N1CB51D33L711417 2760	3N1CB51D03L/12850 2/60 3N1CB51D03L775366 2760	3N1CB51D23L775254 2760	1GBGC24ROTE122590 8600	1GBGC24R5TE125033 8600	1FDHF25H8TEB77037 5600	1GBGC24R9TE125648 9360	1FDHF25H5TEB77044 8600 16 15	1GBGC24R7TE130380 8600 19 15	1FDHF25H8TEB77040 5620	1GBJK34R3TE184368 10000	1GCCS14X8V8190112 4400	1GCFC24M9VE249787 7200	1FTJE34L9VHC12562 9500	1FTJE34L7VHC12561 9500	1GCFC24M6WZ128077 7200	JTDBF30K240157478 3420	JTDBF30K140157942 3219	JTDBF30K740157184 3219	JTDBF30K140157956 3420	JTDBF30KX40157230 3420	JTDBF32K440157897 3219 JTDBE32K653007292 XXXX
License VIN GVWR Hwy Plate # FUel	SHA548 1FTDF1721VKD55817 6000	SHA549 1GCGG35K2SF146082 8600	SHA674 1GCGG35K1SF147496 8600	SHA675 1GBHC34K6SE240588 10000	SHA6/6 1F1EF15YXSLB5U319 625U SHA717 1GRHC34K0SF240665 10000	SHA794 1FDXF46P23EC13754 15000	SHA820 1GBHC34K4SE203233 10000	SHA821 1GBHC34K9RE311406 5960	SHA822 1GBHC34K8SE117729 10000	SHA838 1FDNK64P7NVA14185 19600	SHA839 1GBHC34K2SE204476 10000	SHA840 1GBHC34K7RE311047 5260	SHA841 1GBHC34K8SE203428 10000	SHA869 1FAFP5220XG290362 4722	SHA896 1GTGC33R3XF094531 9000	SHA897 1FTRF27Z9WKB88228 6930	SHA928 3G1JC5240YS118488 2700	SHA929 JTDBT123910109989 2160	SHA999 1GBGC24R5TE125582 8600	SHB130 3N1CB51D63L782093 2760	SHB131 3N1CB51D43L715136 2760	SHB132 3N1CB51D53L713783 2760	SHB133 3N1CB51D33L711417 2760	SHB134 3N1CB51D03L/12850 2760 SHB135 3N1CB51D031775266 3760	SHB136 3N1CB51D231 775254 2760	SHB191 1GBGC24ROTE122590 8600	SHB192 1GBGC24R5TE125033 8600	SHB197 1FDHF25H8TEB77037 5600	SHB198 1GBGC24R9TE125648 9360	SHB199 1FDHF25H5TEB77044 8600 16 15	SHB200 1GBGC24R7TE130380 8600 19 15	SHB305 1FDHF25H8TEB77040 5620	SHB306 1GBJK34R3TE184368 10000	SHB339 1GCCS14X8V8190112 4400	SHB397 1GCFC24M9VE249787 7200	SHB473 1FTJE34L9VHC12562 9500	SHB474 1FTJE34L7VHC12561 9500	SHB764 1GCFC24M6WZ128077 7200	SHB943 JTDBF30K240157478 3420	SHB944 JTDBF30K140157942 3219	SHB945 JTDBF30K740157184 3219	SHB946 JTDBF30K140157956 3420	SHB949 JTDBF30KX40157230 3420	SHB950 JTDBF32K440157897 3219 SHC330 JTDBE32K653007292 XXXX
Year License UIN GVWR Hwy Fuel	1997 SHA548 1FTDF1721VKD55817 6000	1995 SHA549 1GCGG35K2SF146082 8600	1995 SHA674 1GCGG35K1SF147496 8600	1995 SHA675 1GBHC34K6SE240588 10000	195 SHA6/6 1FTEFT5YASLB3U319 623U 1005 SHA717 1/CBHC34K9SF240665 10000	2003 SHA794 1FDXF46P23EC13754 15000	1995 SHA820 1GBHC34K4SE203233 10000	1994 SHA821 1GBHC34K9RE311406 5960	1995 SHA822 1GBHC34K8SE117729 10000	1992 SHA838 1FDNK64P7NVA14185 19600	1995 SHA839 1GBHC34K2SE204476 10000	1991 SHA840 1GBHC34K7RE311047 5260	1995 SHA841 1GBHC34K8SE203428 10000	1999 SHA869 1FAFP522OXG290362 4722	1999 SHA896 1GTGC33R3XF094531 9000	1998 SHA897 1FTRF27Z9WKB88228 6930	2000 SHA928 3G1JC5240YS118488 2700	2001 SHA929 JTDBT123910109989 2160	1996 SHA999 1GBGC24R5TE125582 8600	2003 SHB130 3N1CB51D63L782093 2760	2003 SHB131 3N1CB51D43L715136 2760	2003 SHB132 3N1CB51D53L713783 2760	2003 SHB133 3N1CB51D33L711417 2760	2003 SHB134 3N1CB51D03L/12850 2/60	2003 SHB136 3N1CB51D231 775254 2760	1996 SHB191 1GBGC24ROTE122590 8600	1996 SHB192 1GBGC24R5TE125033 8600	1996 SHB197 1FDHF25H8TEB77037 5600	1996 SHB198 1GBGC24R9TE125648 9360	1996 SHB199 1FDHF25H5TEB77044 8600 16 15	1996 SHB200 1GBGC24R7TE130380 8600 19 15	1996 SHB305 1FDHF25H8TEB77040 5620	1996 SHB306 1GBJK34R3TE184368 10000	1997 SHB339 1GCCS14X8V8190112 4400	1997 SHB397 1GCFC24M9VE249787 7200	1997 SHB473 1FTJE34L9VHC12562 9500	1997 SHB474 1FTJE34L7VHC12561 9500	1998 SHB764 1GCFC24M6WZ128077 7200	2004 SHB943 JTDBF30K240157478 3420	2004 SHB944 JTDBF30K140157942 3219	2004 SHB945 JTDBF30K740157184 3219	2004 SHB946 JTDBF30K140157956 3420	2004 SHB949 JTDBF30KX40157230 3420	2004 SHB950 JTDBF32K440157897 3219 2005 SHC330 JTDBE32K653007292 XXXX
Model Year License VIN GVWR Hwy Fuel	XXXX 1997 SHA548 1FTDF1721VKD55817 6000	XXXX 1995 SHA549 1GCGG35K2SF146082 8600	XXXX 1995 SHA674 1GCGG35K1SF147496 8600	XXXX 1995 SHA675 1GBHC34K6SE240588 10000	XXXX 193 SHA6/6 1F1EF15YXSLB5U319 6250 XXXY 1005 SHA717 1GRHC34K0SF240665 10000	XXXX 2003 SHA794 1FDXF46P23EC13754 15000	XXXX 1995 SHA820 1GBHC34K4SE203233 10000	XXXX 1994 SHA821 1GBHC34K9RE311406 5960	XXXX 1995 SHA822 1GBHC34K8SE117729 10000	XXXX 1992 SHA838 1FDNK64P7NVA14185 19600	XXXX 1995 SHA839 1GBHC34K2SE204476 10000	XXXX 1991 SHA840 1GBHC34K7RE311047 5260	XXXX 1995 SHA841 1GBHC34K8SE203428 10000	XXXX 1999 SHA869 1FAFP5220XG290362 4722	XXXX 1999 SHA896 1GTGC33R3XF094531 9000	XXXX 1998 SHA897 1FTRF27Z9WKB88228 6930	Cavalier 2000 SHA928 3G1JC5240YS118488 2700	Echo 2001 SHA929 JTDBT123910109989 2160	XXXX 1996 SHA999 1GBGC24R5TE125582 8600	Sentra 2003 SHB130 3N1CB51D63L782093 2760	Sentra 2003 SHB131 3N1CB51D43L715136 2760	Sentra 2003 SHB132 3N1CB51D53L713783 2760	Sentra 2003 SHB133 3N1CB51D33L711417 2760	Sentra 2003 SHB134 3N1CB51D03L/12850 2/60 Sentra 2003 SHB134 3N1CB51D03L/12850 2/60	Sentra 2003 SHB136 3N1CB51D23I 775254 2760	XXXX 1996 SHB191 1GBGC24ROTE122590 8600	XXXX 1996 SHB192 1GBGC24R5TE125033 8600	XXXX 1996 SHB197 1FDHF25H8TEB77037 5600	XXXX 1996 SHB198 1GBGC24R9TE125648 9360	XXXX 1996 SHB199 1FDHF25H5TEB77044 8600 16 15	XXXX 1996 SHB200 1GBGC24R7TE130380 8600 19 15	XXXX 1996 SHB305 1FDHF25H8TEB77040 5620	XXXX 1996 SHB306 1GBJK34R3TE184368 10000	XXXX 1997 SHB339 1GCCS14X8V8190112 4400	XXXX 1997 SHB397 1GCFC24M9VE249787 7200	XXXX 1997 SHB473 1FTJE34L9VHC12562 9500	XXXX 1997 SHB474 1FTJE34L7VHC12561 9500	XXXX 1998 SHB764 1GCFC24M6WZ128077 7200	Camry 2004 SHB943 JTDBF30K240157478 3420	Camry 2004 SHB944 JTDBF30K140157942 3219	Camry 2004 SHB945 JTDBF30K740157184 3219	Camry 2004 SHB946 JTDBF30K140157956 3420	Camry 2004 SHB949 JTDBF30KX40157230 3420	Camry 2004 SHB950 JTDBF32K440157897 3219 XXXX 2005 SHC330 JTDBE32K653007292 XXXX

	-	-						-											-																				
Annual Avg Fuel Econ	23.99	23.50	15.08	22.64	101.67	9.28	9.20	12.10	12.32	9.79	10.67	5.88	10.33	20.02	10.09	10.98	10.60	8.77	9.75	11.32	9.43	104.55	10.31	14.50	11.28	10.47	19.16	17.87	14.09	16.99	8.89	43.94	11.50	19.51	21.65	19.78	20.18	22.52	10.05
Annual Fuel Consum	100.35	434.95	23.81	226.16	26.32	830.68	513.10	515.02	628.11	577.96	7.78	875.60	674.23	178.14	684.92	720.42	273.10	678.90	492.60	489.58	934.10	396.85	543.50	113.30	582.50	257.96	316.50	87.30	124.60	108.70	529.79	67.38	11.91	229.22	63.52	226.01	23.93	340.28	174.40
Annual Mileage	2,407.00	10,220.00	359.00	5,120.00	2,676.00	7,706.00	4,720.00	6,232.00	7,739.00	5,656.00	83.00	5,146.00	6,968.00	3,567.00	6,912.00	7,912.00	2,895.00	5,956.00	4,803.00	5,544.00	8,806.00	41,489.00	5,601.00	1,643.20	6,573.00	2,702.00	6,065.00	1,560.00	1,756.00	1,847.00	4,711.00	2,961.00	137.00	4,471.00	1,375.00	4,470.00	483.00	7,664.00	1,752.00
In-use Avg Fuel Econ	23.99	23.50	15.08	22.64	101.67	15.12	8.91	12.12	12.15	9.65	10.67	5.87	10.19	20.02	10.07	11.30	10.60	9.38	9.73	11.37	9.49	104.55	10.33	14.50	11.48	10.47	19.12	18.01	14.16	17.05	8.89	39.25	11.50	19.51	21.65	19.78	20.18	22.52	9.97
In-use Fuel Consum.	100.35	434.95	23.81	226.16	26.32	926.96	587.60	576.02	687.93	619.18	7.78	1000.30	744.86	178.14	750.87	770.31	301.10	740.70	545.60	558.15	989.10	396.85	567.50	113.30	652.50	257.96	340.50	103.40	135.80	146.60	529.79	81.20	11.91	229.22	63.52	226.01	23.93	340.28	237.40
In-use Mileage	2,407.00	10,220.00	359.00	5,120.00	2,676.00	14,013.00	5,233.00	6,980.00	8,360.00	5,974.00	83.00	5,868.00	7,592.00	3,567.00	7,562.00	8,708.00	3,191.00	6,947.00	5,308.00	6,346.00	9,387.00	41,489.00	5,861.00	1,643.20	7,493.00	2,702.00	6,509.00	1,862.00	1,923.00	2,500.00	4,711.00	3,187.00	137.00	4,471.00	1,375.00	4,470.00	483.00	7,664.00	2,366.00
Fuel Type	GAS	GAS	GAS	GAS	GAS	GAS	GAS	GAS	GAS	GAS	GAS	GAS	GAS	GAS	GAS	GAS																							
Acq. Cost	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
EPA City Fuel																																							
EPA Hwy Fuel																																							
GVWR	XXXX	XXXX	XXXX	XXX	13000	8800	8800	8800	8800	8800	XXXX	10000	8800	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXX										
NIA	JTDBE32K553007557	JTDBE32K753007852	JTDBE32K253008228	JTDBE32K853009612	1FDWF36P36EB24320	3B6KC26Z0XM580704	3B6KC26Z7XM580702	3B6KC2628XM580708	3B6KC26Z5XM580701	3B6KC26Z2XM580705	1GCCS14X6V8188441	2B7KB31Z1MK431016	3B6KC26Z6XM580707	1FAHP53U65A265636	3B6KC26Z7XM580697	3B6KC26Z6XM580710	3B6KC26Z3XM580714	3B6MF3654XM572026	3B6KC26Z9XM579034	2B7KB31Y7YK147516	3B6KF26Z5WM269551	1FDSX20R78EA28953	1FDSX20R58EA28952	1FDSX20R38EA28951	2FTRF7Z5YCA40773	1FDWX36R28EA24355	1FTYR10V5XPB66509	1FAFP53262A202988	1FAFP53221A226171	1GDDS1455Y8298268	1GCHK33J0YF488233	1GCCS1450Y8301593	1C3LC46R17N676511	1C3LC46R17N676508	1C3LC46R37N676512	1C3LC46R77N676514	1C3LC46RX7N676510	1C3LC46R57N676513	1GCHG35R5Y1270788
License Plate #	SHC331	SHC332	SHC335	SHC336	SHC345	SHC350	SHC351	SHC352	SHC353	SHC354	SHC365	SHC378	SHC383	SHC397	SHC449	SHC450	SHC451	SHC452	SHC453	SHC454	SHC580	SHC719	SHC742	SHC749	SHC761	SHC762	SHC800	SHC801	SHC802	SHC876	SHC877	SHC878	SHC915	SHC916	SHC917	SHC919	SHC920	SHC921	SHD165
Year	2005	2005	2005	2005	2006	1999	1999	1999	1999	1999	1997	1999	1999	2005	1999	1999	1999	1999	1999	2000	1998	2008	2008	2008	2000	2008	1999	2002	2001	2000	2000	2000	2007	2007	2007	2007	2007	2007	2000
-															~		>	>	×	×	×	×	×	×	×	\checkmark	\sim	×	<u> </u>	×	×	×	×	×	×	×	×	×	×>
Mode	XXXX	XXXX	XXXX	XXX	XXXX	(XXX	RAM	(XXX	(XXX	(XXX)	(XXX	(XXX)	XXX	XXX	XX	XXX	XX	XX	XX	XXX	XX XX	XX	хX Х	XX	XX	XX	XXX	XX	XX	XXX	XX	XX							

POWERLINES

A Hawaiian Electric Company, Inc. Publication Copyright 2008, No.1 Spring 2008

Energy Efficiency Takes-Off at the Honolulu International Airport

Energy Efficiency Tips 4 Focus on Safety: GFCIs & AFCIs 6 Energy Expo Update 8 Energy\$olutions Update 9 Maui Harness Wave Energy 10 Business Engagement 13

Departure Gates

HENOLULU INTERNATIONAL AIRCOL

A-13



To Our Valued Commercial Customers

ALOHA! Our Spring Issue is packed full of helpful tips on staying safe and saving energy.

- Honolulu International Airport utilizes high-intensity LED technology in the taxiway light fixtures and guidance signs.
- Top ten tips to assist commercial and residential customers become more energy efficient
- Learn how GFCIs and AFCIs can help to prevent electric shock and fire.
- MECO and Oceanlinx partner to develop an innovative and environmentally based wave energy project.

Mark your calendars for HECO's 2008 Efficient Electro-Technology Exposition & Conference, which will be held on Thursday, September 18, 2008 at the Hawai'i Convention Center. We look forward to seeing you!

Mahalo,

Dr. Karl E. Stahlkopf Senior Vice President of Energy Solutions and Chief Technology Officer Energy Efficiency Takes-Off at the Honolulu International Airport

As part of a bold and strategic energy plan that encourages and supports market-based development of reliable, cost-effective, and self-reliant energy for Hawai'i, Governor Linda Lingle issued Administrative Directive No. 06-01 (Energy and Resource Efficiency and Renewable Energy and Resource Development) in January 20, 2006. This directive states in part that State agencies must assess their practices and programs to reduce energy use in order to establish a secure energy and economic future for the people of Hawai'i. Honolulu International Airport, one of the most energy-intensive facilities on the island of Oahu was the first State of Hawai'i – Department of Transportation (DOT) Airports Division's facility to take action towards saving energy, cutting costs, and improving its sustainability. With \$4 million



in funds, energy efficiency projects took off in 2007 with the replacement of the airfield taxiway light fixtures and guidance signs.

Taking advantage of the increased performance and lowered cost of high-intensity Lighting Emitting Diode (LED) technology, the DOT Airports Division's team of engineers were able to replace all of the 30-watt

incandescent taxiway lamps with 1-watt high-intensity LED lamps. Along with the lamps, the 30/45-watt isolation transformers were also replaced with lower wattage more efficient transformers. Each taxiway light fixture uses an isolation transformer to isolate low-voltage in the lamp from the high operating voltage present on the airfield series of lighting circuits. When one of the lamps fails, the isolation transformer plays a key role in helping to prevent the interruption of power to the remaining loads. The overall wattage reduction for the entire taxiway lighting system (lamp and isolation transformer) was estimated to be 36-watt per fixture. This is based upon efficiencies listed under the Siemens Elevated Taxiway Edge Light product specifications. With the retrofit of 1755 taxiway lights and isolation transformers, Honolulu International Airport was able to achieve a reduction in energy consumption of nearly 300,000 kWh per year and savings of more than \$27,000 on their annual electric bill. In addition to the energy and dollar savings, Hawaiian Electric Company, Inc. (HECO) Energy\$olutionsSM for Business program provided a customized rebate of over \$19,000.

Benefits from using this new class of high-intensity LED comes from the extensive lifetime of the lamp. The LEDs used in the taxiway light fixtures at Honolulu International Airport have an average life of 100,000 hours under high-intensity conditions and more than 200,000 hours under actual operating conditions. With a far greater life expectancy than conventional incandescent lamps (i.e., 1000 hours), there is a significant potential for savings in both maintenance costs as well as reduction in operational disruptions.



Additional energy efficiency measures implemented at the airport were the retrofitting of 286 guidance signs. The main purpose of these signs is to guide pilots to a particular point on the



airfield, identify holding positions, identify taxiway and runway intersections, and prohibit aircraft entry into designated areas. The old guidance signs, internally illuminated by two or more 50-watt high-pressure sodium (HPS) lamps, were replaced with new Siemens' Signature Series guidance signs, which use 18-watt pin mount compact fluorescent lamps (CFLs). Each new guidance sign is made of two to four modules containing two lamps per module, thus the total number of CFL lamps installed for 286 guidance signs is 1422 CFLs.

As a result of these new energy efficient guidance signs replacement, Honolulu International Airport saved an additional 300,000 kWh in energy consumption per year and received a standard rebate of over \$14,000 under HECO's Energy\$olutions[™] for Business program. The CFL provides a more uniform distribution of light, making guidance signs more readable.

The next energy efficiency "arrival" from Honolulu International Airport is the replacement and relocation of the Diamond Head Chiller Plant. The new chiller plant will have the capability to air-condition the entire airport while the Ewa and Overseas/Main Terminal Chiller Plants undergo separate renovations. In fact, the three chiller plants will be consolidated into one central plant. This project is already on its way and it will be the subject of a future Powerlines publication.

Energy Savings Highlights:Annual Savings\$54,000Annual kWh Reduction600,000HECO Rebates\$33,000

AVERAGE VEHICLE MPG						7.18								7.33	6.19			3.21								2.50		4.11				6.64	insuff data	2.33	001						3.47	3.34	2.66	ZC.T	11.06
VEHICLE FUEL ONSUMPTI ON						133.3								564.4	181.1			2397.4								256		275.5				242.5		332 272 8	2						3346.1	673.7	835.8	ß	1332.6
VEHICLE MILEAGE C						957.4								4139	1121			7685								639.2		1133				1609.4	000	900	8						11598	2250	2224	GC 1	14738
EPA RATED MPG																																													
TYPE FUEL																																													
FUEL USAGE	Diesel	Diesel	Diesel		Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Discol	Diesel	Diesel	E-10	E-10	Diesel	Diesel	Diesel	Diesel	Diesel	Discel	Diacal	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	E-10
FUEL	Diesel	Diesel	Diesel		Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Discol	Diesel	Diesel	Gas	Gas	Diesel	Diesel	Diesel	Diesel	Diesel	Discel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Gas
GWR																																													
Vehicle Acquisition Cost	125,000.00	125,000.00	4/2,204.00 157,402.00	65,445.58	232,795.00	176,949.75	74,205.25	223,694.75	167,511.00	79,241.20	772 604 74	223,034.74	75,300,99	58,355.87	58,355.88	568,195.50	568,195.50	814,746.00	103,111.93	142,484.00	142,484.00	142,484.00 142,484.00	142.484.00	142,484.00	142,484.00	87,412.00	71,031.44	73,537.00	39.015.74	197,985.00	197,985.00	48,165.00	500.00	172 861 30	166.965.19	164,239.12	164,239.12	164,239.12	178,690.47	214,581.96	214,581.96	218,748.60	200,957.68	128 517 00	32,513.07
License Plate					SH4435	SH4441	SH4459	SH4459	SH4851	SH4851	2044852	SH4854	SH4854	SHB722	SHB723	SHC128	SHC129	SHC130	SH4048	SH4391	014394	SH439/ SH4308	SH4400	SH4402	SH4404	SH4437	SH4440	SH4451	SH5241	SH7120	SH7122	SH7232	SHA286	SHA868	SHB234	SHB235	SHB236	SHB237	SHB259	SHC165	SHC166	SHC315	SHD101	SHD325	SHA729
MAKE, MODEL, Vehicle Identification Number	FIRE ENGINE - DONATION FROM BARBERS PT	FIRE ENGINE - DONATION FROM BARBERS PT	TRUCK, ARRE STKR # 101 BNAN IX/S094493 TRUCK, ARRE STKR #10TBKAK1X7S094493	TRUCK, CF UTILITY, #1FDSX34Y36EB20064	TRUCK PUMP PIERCE 1P9CT01D6JA040266	TRUCK GMC RESCUE E-1 1GDJR33J9LF700631	TRUCK CF OSHKOSH TA1500 SN41741	TRUCK CF OSHKOSH TA1500 SN41741	TRUCK CF T3000 VIN# 10T9L5EHXJ1033606	TRUCK CF 13000 VIN# 1019L5EHXJ1033606		TRUCK CF OSTROOM 1A1300 SN41/42 TRUCK CF T1500 V/IN# 10T91 5RH1G1028551	TRUCK CF T1500 VIN# 10T9L5BH1G1028551	TRUCK, FORD VIN# 1FMNU40S35EB36907 Y2	TRUCK, FORD VIN# 1FMNU40S55EB36908 Y-1	TRUCK, OSHKOSH 1500, VIN #10TBKAK135S08	TRUCK, OSHKOSH 1500 VIN#10TBKAK135S0855	TRUCK, OSHKOSH 3000 VIN#10TDKAK165S0855	SWEEPER ELGIN G-2030D 1FDXH70P5NVA08324	TRACTOR BUS 1C9CA2DS2LW077532 L-1832	TRACION BUS IC9CAZUS3LW0//338 L-1638	TRAUTUR BUS TUSUAZUS4LWU/ / 247 L-1847 TP ACTOR RUS 100C 420551 M/0775501 - 1850	TRACTOR BUS 1C9CA2DS5LW077556 L-1856	TRACTOR BUS 1C9CA2DS3LW077562 L-1862	TRACTOR BUS 1C9CM2DS4MW077565 L-1865	TANKER WATER KEN 1NKWL59XOKS525225	TRUCK INTL DUMP 2MSFBG3R7LC038210	TRUCK TRACTOR KEN 1XKDD20X2MS557716 TRUCK INT AD 411TA 440620CH424024	BUS PARATRANSIT 287KB31ZONK170351	TRACTOR BUS #1C9M3ABS7RW535716 L-2070	TRACTOR BUS #1C9M3ABSORW535718 L-2072	TRUCK FORD DUMP F800 1FDXF80EXSVA16909	BUS, 1994, FORD 1FDKE30GORHB02840	SWEEPER IN L/ELGIN #171 SCABIN32H334U3/ SWFEPER JOHN 770 CVCI ONF#H582061	SHUTTLE FL25 VIN# 1FFFL25X93A043881	SHUTTLE EL25 VIN# 1EEEL25X13A043888	SHUTTLE EL25 VIN# 1EEEL25X33A043889	SHUTTLE EL25 VIN# 1EEEL25XX3A043890	TRACTOR EL 100 VIN#1EEEL25X94A043896	SWEEPER TENNANT CENT 1GDM7F1305F516772	SWEEPER TENNANT CENT 1GDM7F1305F518151	SWEEPER TENNANT CENT 1GDM7F1325F533444	SWEEPER, FRGHTLNR, 1FVAB6BV37DX09507	TRUCK, DUMP, THTWYAHT78J642411 TRUCK_INTL_2008_1HSXRAPT081663210	SEDAN FORD CROWN VIC #2FAHP71W13X150057
YEAR	2000	2000	2007	2006	1988	1990	1991	1991	1988	1988	1991	1981	1987	2005	2005	2005	2005	2005	1993	1991	1.661	1001	1991	1991	1991	1989	1991	1991	1993	1995	1995	1995	2002	2003	2004	2004	2004	2004	2004	2006	2006	2007	2008	2008	2003
Vehicle Type (Light, under 8500 lbs, Medium, 8500-15000, Heavy 15000+)	Fire	Fire	Fire	Fire	Fire	Fire	Fire	Fire	Fire	Fire	FIre	Fire	Fire	Fire	Fire	Fire	Fire	Fire	Heavy	Heavy	Heavy	Неали	Heavy	Heavy	Heavy	Heavy	Heavy	Heavy	Heavy	Heavy	Heavy	Heavy	Heavy	Неали	Heavy	Heavy	Heavy	Heavy	Heavy	Heavy	Heavy	Heavy	Heavy	Неалу	Law
Sub unit (VIP, OMF, etc.)	100	100	995 995	995	325	325	325	325	330	330	330	100	100	325	325	325	325	325	175	520	070	520	520	520	520	175	175	175	520	520	520	175	125	175	520	520	520	520	520	175	175	175	181	181	310
							1	1	- I.	- L	1							- 1									1					1							- 1			- I.			

1 of 10

AVERAGE VEHICLE MPG	10.82	75.55	10.38	10.66	00.01	8.42		9.00	11.18	11.22	11.40	9.13		9.75	9.06	11 50	16.02	10.01		15.85	6.50	12.49	6.19	12.30		1	15.19	11.92		16.10		10.36	6.06		6.84	7.52	7.11	8.57		8.70	9.15	4.84	13.03	10.99	10.62
VEHICLE FUEL CONSUMPTI ON	835.2	1446	590.4	1513.1	1401.9	2319.9		1389	881.6	565.2	9 000. I	73.5		40.8	26.7	62	110	2		213	46.5	138.8	210	368		000	208	84.5		325		230.3	46.5		550.5	305.7	883.7	319		781	153.5	94.5	460.2	206	263.5
VEHICLE MILEAGE C	9035	109238.6	6130	16137	14/ 32	19544		12499.4	9855.5	6341.5	8.01/0	671		398	242	834 F	2013	207		3376	302.3	1733	1300	4526			3159	/001		5234		2385	282		3763	2298	6286	2733		6793	1404	457	5998	2263	2799
EPA RATED MPG																																													
TYPE FUEL																																													
FUEL USAGE	E-10	E-10	E-10	E-10	E-10	E-10		E-10	E-10	E-10	E-10	E-10	E-10	E-10	E-10	E-10	П-10	E-10	E-10	E-10	E-10	E-10	E-10	E-10			E-10	E-10	E-10	E-10		E-10	E-10	E-10	E-10	E-10	E-10	E-10	E-10	E-10	E-10	E-10	E-10	E-10	<u>п-10</u>
FUEL CONFIG	Gas	Gas	Gas	Gas	Gas	Gas		Gas	Gas	Gas	Gas	Gas	Gas	Gas	Gas	Gas	Gac	Gas	Gas	Gas	Gas	Gas	Gas	Gas			Gas	Gas	Gas	Gas		Gas	Gas	Gas	Gas	Gas	Gas	Gas	Gas	Gas	Gas	Gas	Gas	Gas	Gas
GWR		-	-																			-	-	Ū								-								-		_	Ū		
Vehicle Acquisition Cost	32,513.07	32,513.07	32,513.07	32,513.07	6.000.00		7,000.00	7,500.00	33,160.16	33,160.16	33, 100. 10 33 160 16	17.979.95	6,539.59	10,328.84	12,082.56	13,451./3 18 260 48	11 310 90	18,418,00	13,348.57	12,395.87	17,798.00	12,395.87	19,218.81	15,174.00	17,828.69	21,542.00	15,145.00	16,409.28 13 429 30	10,566.00	10,150.00	13,140.62	10,762.57	14,558.38	7 883 44	20 649 50	20,649.50	23,259.00	16,908.40	14,019.00	17,543.89	17,543.89	6,100.00	15,869.36	4,900.00	6,200.00
License Plate	SHA730	SHA731	SHA732	SHA733	SHB972	SHC341	SHC423	SHC678	SHC806	SHC807	SHCROG	SH4049	<mark>SH4356</mark>	SH4364	SH4379	SH44081 SH4408	SH4817	SH4824	SH4826	SH4884	SH4885	SH4886	SH4887	SH4888	SH4889	SH4890	SH4893	SH4894 SH4896	SH4897	SH4898	SH4899	SH4900	SH4902	SH5492 SH5403	SH6112	SH6114	SH6324	SH6326	SH6339	SH7257	SH7258	SH7371	SH7712	SH7787	SH8055
MAKE, MODEL, Vehicle Identification Number	SEDAN FORD CROWN VIC #2FAHP71W13X150060	SEDAN FORD CROWN VIC #2FAHP71W53X150062	SEDAN FORD CROWN VIC #2FAHP71W53X150059	SEDAN FORD CROWN VIC #2FAHP71W33X150061	JEEP CHEROKEE 1J4FJ28SOWL239641	SUV, 2000 Ford Expedition	SUV, 1999, DODG, 1B4HS28ZXXF670302	SUV 2007 FORD 1FMPU16L2YLB73440	SEDAN CROWN VIC 2FAHP71W87X153401	SEDAN CROWN VIC 2FAHP71WX7X153402	SEDAN CROWN VIC ZFAHP71W1/A153403 SEDAN CROWN VIC 2FAHP71W37X153404	VAN GMC SAFARI XT 16KDM19Z4NB546331	WAGON STN. 4DR CHEV MALIBU, 1T35H9Z4157	WAGON STN FORD 1FABP44F2EZ184232	S/W CHEV CELEBRITY 1G1AW81W486180038	WAGON STN FORD 1FABP55UIJG192119 WAGON STA FORD 1FACD55115NG188181	WGN STN CHEV 1G1 IC8440N7323046	WAGON STA CHEV. 261AW84T612116465	WAGON CHEV CELEBRITY 1G1AW81W2J6260928	TRK CHEV P/U S10 1GCCS14Z3M8192740	TRUCK CHEV P/U 2GCEC19Z1L1239179	TRK CHEV P/U S10 1GCCS14Z2M8192731	TRUCK CHEV U/BDY 1GBGC24K9ME119952	TRUCK CHEV U/BDY 1GCDC14H3LZ226824	TRUCK P/U CREW CAB 1GTGR33KXMF700484	TRUCK-CHEV 1GNDT13Z4M2218954	TRUCK GMC P/U 1G1DC14Z7NZ537684	TRUCK CHEV P/U 1GCUCI4ZXNZ2031/8 TRUCK DODGE P/I1187EN14X0.1S735902	TRUCK GMC PU 1GTCS14EXM8512651	TRUCK CHEV P/U 1GCCS14E6M8142797	TRUCK CHEV P/U 1GCDC14H5JZ270692	TRUCK CHEV P/U 1GCCS14R7J8205131	TRUCK FORD P/U 1FTFF25H8HPA97387	SEDAN CHEV LUMINA 261WN5418N9269253 WAGONI STNI CHEV 17351A7405338	TRUCK GMC SIFREA #167633KXP.1749901	TRUCK GMC SIERRA #1GTGC33K4P5749859	TRUCK GMC COUP P/UP#1GDGK29K3PE556773	TRUCK GMC TC P/UP #1GTEC19H3PE556716	VAN FORD 1FMEE11H7PHB23772	TRUCK CHEV P/UP 1GCDC14H3RZ259279	TRUCK CHEV P/U 1GCDC14H1RZ259040	TRUCK CHEV P/U 1GCDC14ZOJZ244915	TRUCK GMC #1GTCS14WTY8123335	TRUCK CHEV P/U S-10 1GCCS14Z3K8215141	SEUAN ULD UIERA 4UR 163A633W3R0430433 TRUCK CHEV P/U #16CDC14ZXKZ232708
YEAR	2003	2003	2003	2003	2006	2000	2006	2007	2007	2007	2002	1993	1979	1985	1987	1988	1003	1991	1989	1991	1991	1991	1991	1991	1991	1991	1993	1993	1991	1991	1989	1989	1988	1993 1080	1994	1994	1994	1994	1994	1995	1995	1995	2000	1995	1995
Vehicle Type (Light, under 8500 lbs, Medium, 8500-15000, Heavy 15000+)	Law	Law	Law	Law	Law	Law	Law	Law	Law	Law	Law	Liaht	Light	Light	Light	Light	Light	Light	Light	Light	Light	Light	Light	Light	Light	Light	Light	Light	Liaht	Light	Light	Light	Light	Light	Light	Light	Light	Light	Light	Light	Light	Light	Light	Light	Light
Sub unit (VIP, OMF, etc.)	310	310	310	310	315	180	310	310	310	310	310	110	100	170	110	131	001	131	100	122	176	122	172	110	160	315	173	110	177	131	110	131	160	240	177	177	174	174	160	110	172	175	177	172	177
ation and)	4	4	4	4 4	4 4	3 1	4	4 1	4	4,	4 4	- 1	7 1	3 1	51	- τ ν σ	- .	- r	7 1	1	3 1	-	3 1	3 1	2	4 0	 	ς τ τ	3 1	3 1	3 1	3 1	2 1	4 4		3 1	3 1	3 1	2 1	3 1	3 1	3 1	3 1	3 3 7 7	ი - ლ
Loc (Isl	12 1	12 1	12	12 1	12	12	12 1	12 1	12 1	12	10	12	12 1	12 1	12 1	10	101	12	12	12 1	12 1	12 1	12 1	12	12 1	12	12	12	12	12	12 1	12 1	12	12 1	101	12	12 1	12 1	12	12	12	12	12	12 1	12

	AVERAGE VEHICLE MPG	5.73	7.66	11.58	9.37 8.45	13.45	18.48	12.00	11.85	10.34	14.88	14.80			14.76	17.78	5.23	9.76		33.55	10.33	12.41	11.49			11.23	9.77	77.0L	20. 	11.21		9.11	0.1C	8.60	12.64	10.50	10.14	11.65	10.13	7.79	12.74	1. 1.	13.9	15.56	8.79
	VEHICLE FUEL CONSUMPTI ON	65.4	552.3	345.4	178	126	123.5	118	116	202.5	120	114.5	2		88.7	104.3	94.5	149.3	C L L	20.8	418	61.1	75.6			217	619.6	1//10.0	140	352.8		513.3	105.5	280.5	606.2	1044.7	748	206	161	503.5	305.3	434.4 2734 5	139	236.9	183.3
	VEHICLE MILEAGE	375	4229	4000	253 1504	1695	2282	1416	1379	2093	1786	1695	200		1309	1854	494	1461		18/2	8106 8106	758	869			2436	6056.2 4 0007 r	C. / 6081	000	3954		4678	6210	2412	7663	10967	7586	2399	1631	3923	3891	20104	1939	3687	1612
	EPA RATED MPG																																												
	FUEL																																												
	FUEL USAGE	E-10	E-10	E-10	E-10 F-10	E-10	E-10	E-10	E-10	E-10	E-10	п-10 П-10	E-10	E-10	E-10	E-10	E-10	E-10	E-10	E-10	E-10 E-10	E-10	E-10	E-10	E-10	E-10	E-10	Е-10 1	E-10 E-10	E-10	Diesel	E-10	П-10	E-10	E-10	E-10	E-10	E-10	E-10			E-10	E-10	E-10	E-10
	FUEL CONFIG	Gas	Gas	Gas	Gas Gas	Gas	Gas	Gas	Gas	Gas	Gas	Gas	Gas	Gas	Gas	Gas	Gas	Gas	Gas	Gas	Gas	Gas				Gas	Gas	Gas	E-85	E-85	Diesel	E-85	20-1 28-1	E-85	E-85	E-85	E-85	E-85	E-85			ב-מק	Propane/	Gas	E-85
	GWWR																																									_			
	Vehicle Acquisition Cost	26,043.51	26,043.51	5,400.00	5,200.00 4 500 00	5,200.00	13,041.61	20,129.56	17,500.00	5,200.00	18,311.21	18 311 21	21.667.11	13,599.17	15,680.94	17,745.72	19,715.28	19,173.44	28,645.65	17,640.00	21,400.00 15,842.46	22.770.66	16,853.60	20,785.00	20,785.00	41,318.28	23,894.58	23,894.58	22,034.79 152,408.00	31,817.81	174,131.85	32,810.97	21 680 01	31.680.01	31,680.01	5,500.00	5,500.00	5,500.00	5,000.00	9,500.00	5,000.00	Z0,102.01	5,000.00	24.821.98	35,899.06
	License Plate	SH8080	SH8081	SH8282	SH8315 SH8315	SH8321	SH8476	SH8477	SH8478	SH8658	SH8774	SH8776	SH8874	SH8876	SH8906	SH8926	SH9029	SH9436	SH9569	SH9593	SH9600	SH9794	SHA473	SHA499	SHA500	SHA515	SHA557	803AHS	SHA604 SHA630	SHA710	SHB451	SHB592		SHC237	SHC286	SHC301	SHC302	SHC303	SHC305	SHC421	SHC422		SHC594	SHC662	SHC676
	MAKE, MODEL, Vehicle Identification Number	TRUCK CHEV P/UP RACK #1GCGC33K5SF001049	TRUCK CHEV P/U #1GCGC33K1SF001016	TRUCK CHEV P/U C10FS 1GCDC14Z6KZ233550	SEDAN FORD TEMPO 1FACP36X2PK174767 TRUCK CHEV 1500 1GCDC142K7229321	SEDAN FORD TEMPO 1FACP36X7PK160752	CHEV 4DSD 1G1JC5246V7136732	VAN PASSENGER CHEV 1GNDM19WXVB139106	TRUCK CHEV CS-10 #1GCCS1446V8112112	TRUCK DODGE P/U D150 1B7GE16X7MS297546	FORD 2DSW 2FMDA51U8WBB57680	FORD 2DSW 2FMDA5101WBB57079 FORD 2DSW 2FMDA5111XWRR57681	VAN CHEV FR WACKENHUT 16CDM19W0VB229969	P/U CHEV FR WACKENHUT 1GCCS144XWK114899	FORD TAURUS-4DR. 1FAFP52U1WG196328	WGN STA HYUN ELE KMHJW24M3WU109447	VAN CARGO FORD E-150 1FTRE1468WHB60537	VAN GMC SAFARI 7 PX 1GKDM19W5XB536318	MPVH,1999,JEEP 1J4FF28S2YL122051		UNEVROLET INTALAS 261WF35EUT9152168 TRLICK CHEV S-10 #1GCCS14W2VK192338	FORD TAURUS LX 4DR, MODP52 1FAFP5221YG2	TRUCK FORD RAN X P/U #ITYR14V02PB36000	VAN 02 CHEV ASTRO #1GCDM19XX2B150572	VAN 02 CHEV ASTRO #1GCDM19XX2B150662	CHEVROLET TAHOE, 4 DR, #1GNEK13Z32R1873	EXPLORER FORD # 1FMZU73W22ZC61841		VAN P DODGE 1D4GP253138101035 Friction Tester	2003 FORD EXPLORER 1FMZU72K93ZA12274	TRACTOR EL 100 VIN#1EEEL25X04A043916	TRUCK FORD EXPLORER 1FMZU72K75UA28828		SUV DODGE DURANGO 1D4HB38P66F178178	SUV DODG DURANGO 1D4HB38P26F178176	VAN DODGE 1999 2B4GP44G3XR410524	VAN DODGE 1999 2B4GP44G9XR410527	VAN DODGE CARAVAN 2B4GP44G8XR411586 '99	TRUCK FORD RANGER 1FTYR10V2XUA36382	TRUCK, 1999, FORD, 1FTSW30L7XEB29918	TRUCK, 1999, FORD, 1FTYR10V5XPB58636 TRUICK TOPPE 4 500 #4 D7101 4 5006 17 7 000	IRUCK μυμυσε 1300 #1 μ/ ΠΑ 105 800 1/ 1038 2004 Εγγίλισε ΟΡΟ 4ΕΜΖΙ 173Κ Χ47Δ61905	TRUCK, 1998, FORD, 1FTYR10VXXPB58633	SUV SATURN VUE-6 5GZCZ53417S824102	SUV DODG DURANG 2007 1D8HB38P07F512611
	YEAR	1995	1995	1996	1996 1996	1996	1996	1996	1997	1997	1997	1997	1998	1998	1998	1998	1998	1999	2000	0002	2000	2000	2003	2003	2003	2003	2003	2003	2003	2003	2005	2005	2002	2006	2005	2006	2006	2006	2006	2006	2006	2004	2007	2007	2007
T.m.s. / John	1	Light	Light	Light	Light Light	Light	Light	Light	Light	Light	Light	Light	Liaht	Light	Light	Light	Light	Light	Light	Light	Light	Liaht	Light	Light	Light	Light	Light	Light	Light	Light	Light	Light	Light	Liaht	Light	Light	Light	Light	Light	Light	Light • i~••	Lignt Licht	Light	Liaht	Light
Mobiolo	venicie undei Medium Heav																																												
Cub unit Wohiolo	Venicie (VIP, vundei OMF, Medium etc.) Heav	175	177	110	110	177	100	122	172	110	122	122	315	315	101	131	501	110	100	900	310	310	110	315	315	103	310	310	122	301	520	175	0/1	175	131	160	160	110	110	175	131 17E	181	131	170	174
cloidely time deal	ation (VIP, under and) OMF, Medium etc.) Heav	3 1 175	3 1 177	3 1 110	3 1 110 3 1 177	3 1 177	1 1 100	1 1 122	3 1 172	3 1 110	1 1 122	1 1 100	4 1 315	4 1 315	1 1 101	3 1 131	4 1 501	5 1 110	4 1 100 6 1 500	6 1 900	3 1 177	4 1 310	3 1 110	4 1 315	4 1 315	4 1 103	4 1 310	4 1 310	4 104 11 122	4 1 301	4 1 520	3 1 175	0 - 1 0 2 1 - 1 0 2 1 - 1 0	3 1 175	3 1 131	2 1 160	2 1 160	5 1 110	3 1 110	3 1 175	3 1 131	181 15	3 1 131	3 1 170	3 1 174

		_				_								_	_	_	_	_	_	_	_	_				_		_			_		_						_							_
AVERAGE VEHICLE MPG		12.60	11.58	8.55	13.80	11.72	17.57	10.06	9.05	11.20	7 60	Wed	Men	new							9.40		5.58	0.17	CU.8	9.39	3.20	1.76		3.94	4.42	8.24	5.47	4.47	9.58	25.30	6.93	4.93	0.00	29.77				T	7.37	1.17
VEHICLE FUEL CONSUMPTI ON		251.2	1704	176.3	240.5	132	81	180.8	214.7	448.1	nsuff data	0.00									365		163	0.010	822.8 150.6	450.4	77.5	104		691.2	703.5	855.6	427.8	108	445.5	302.5	134	51.5	34.4	852.9				+	1071.1	30344
VEHICLE MILEAGE		3165	2594	1508	3318	1547	1423	1818.2	1943.8	5016.8		3388	0000								3430		910.3	1901	1700	4232	755	183		2724	3108	7051	2340	483	4265.8	7654.5	928	254	0	25392					7894	35402
EPA RATED MPG																																														
TYPE FUEL																																														
FUEL USAGE	E-10	E-10	Е-10 г 10	E-10	E-10	E-10	E-10	E-10	E-10	Е-10	E-10			E-10	E-10	E-10	E-10	E-10	E-10		E-10		Е-10				E-10	E-10	E-10	E-10	E-10	Е-10	E-10	E-10	E-10	E-10	E-10	Diesel	Diesel	E-10	E-10	Diesel	Diesel	Diesel	E-10	E-10
FUEL CONFIG	E-85	E-85	E-85	E-85	E-85	E-85	E-85	E-85	E-85	E-85	Gas F of	E-85	с	E-85	E-85	E-85	E-85	E-85	E-85		Gas		Gas	Gas	Gas	Gas	Gas	Gas	Gas	Gas	Gas	Gas	Gas	Gas	Gas	Gas	Gas	Diesel	Diesel	Gas	Gas	Diesel	Diesel	Diesel	Gas	Gas
GVWR				_									-							-	-	-			_								-					_					_			
Vehicle Acquisition Cost	35,899.06	51,679.88	19,498.00	5 000 00	5,000.00	13,500.00	5,000.00	22,437.92	22,437.91	50,622.61	8,000.00	27 557 06	35 530 89	28.485.85	7.200.00	7,200.00	7,000.00	7,000.00	7,000.00	20,592.00	19,199.00	35,500.00	24,639.01	20,342.11	32,130.20	20,100.21	25,261.82 56 487 00	147.384.00	7,500.00	27,269.84	23,007.20	36,229.44	27,295.00	49,218.43 24 202 06	36,157.41	21,728.77	21,728.77	55,250.00	43,625.00	32,808.15	68,778.05	98,099.00	98,099.00	90,033.00	31,093.42	30,322.68
License Plate	SHC677	SHC695	SHC711	SHC870	SHC871	SHC872	SHC903	SHC904	SHC905	SHC906	SHD176		SHD323	SHD324	SHD414	SHD416	SHD417	SHD418	SHD419	SH4830	SH7988	SH8005	SH8056		0000010		SH8401	SH8571	SH8659	SH8728	SH8729	SH8730	SH8773	SH8905 SH0187	SH9621	SH9677	SH9678	6796HS	SH9680	SH9701	SH9829	SH9855	SH9881 CLID882		SH9929	SH9991
MAKE, MODEL, Vehicle Identification Number	SUV 2007 DODGE 1D8HB38P97F512610 OKA	MPVH DODGE VIN 1D8HD38P87F512477	TRUCK CHEVY 2007 1GCEC14Z37Z166577	TRUCK CHEV 1 2007 19CHC23037F 124339 TRUCK CHEV S-10 2000 1GCCS1451Y8300985	TRUCK CHEV S-10 2000 1GCCS1453Y8302771	TRUCK CHEV TAHOE 2002 1GNEK13Z42J314531	TRUCK CHEVY S-10 1GCCS1450Y8276534	TRUCK FORD F150 1FTPX12V07KC98170	TRUCK FORD F150 1FTPX12V27KC98171	TRUCK FORD F150 1FTPW14V07KC95012	TRUCK FORD MPVH 1FMPU16L2YL73437			TRUCK DODGE 08 VIN 1D3HA18N08J174251	DODGE STRATUS 2004 VIN 1B3EL36T94N34162	DODGE STRATUS 2004 VIN 1B3EL36TX4N34162	SEDAN, FORD TAURUS #1FAFP53205A114037	SEDAN, FORD TAURUS #1FAFP53225A114038	SEDAN, FORD TAURUS #1FAFP53245A114039	TRUCK CHEV CAB/DUMP 1GBHR33K8MF300447	TRUCK CHEV P/U 3/4 1GCFC24K4SZ112338	TRUCK P/U CHEV 1GCHC34K5SE108529	TRUCK FORD F350 1FTJW35HXSEA26906		TRUCK FORD 250 COUP 1FTHX26H25KC15782 TELICK FORD P/114ET 1///35H06E163574		KUUK FUKU P/U 1F1JW35H2SEA/7073 VAN FORD ROOM 5 41 1FT1F34 OVHA2854	TRUCK GMC AERIAL 1GDM7H1J2VJ502749	VAN DODGE RAM 250 #434035	TRUCK FORD #1FTJW35H5VEC03723	TRUCK CHEV P/U 1GCHC34R2VF048768	TRUCK FORD P/U F250 1FDHX26H3VEC03722	TRUCK CHEV FLAT 1GBHC34R5VF054830	VAN CHEV BUCKET #1GCHG39K2W10138/ TDLICK CMC 1CTEC11T3YE600661	TRUCK GMC UTILITY #16THC34R1YF425112	TRUCK FORD P/UP CAB #K818517	TRUCK,P/U 1GCGC33R1YF47889	TRUCK CHEV TOW # 1GBLC34F2UF469586	TRUCK CHEV FLAT BOOM #1GBLC34FPU459753	TRUCK CHEV 1GBGC33R4YF481787	TRUCK, CHEVROLET 2000, 1GBJG31R9Y121065	HANDI VAN 2000, LT-250 BUS, 1FUSE35F8YH	HANDI VAN 2000, LI-250 BUS, 1FUSE35F4YH	HANDI VAN 2000, LI 230 DUO, I FUOESTATT HANDI VAN 2000 I T-250 RUS 1EDSF36F2YH	TRUCK FORD F350 3FTSW30S31MA51811	CAB CREW FORD SRW HX2AND VHF
YEAR	2007	2007	2006	2008	2008	2008	2008	2008	2008	2008	2008	2008	2008	2008	2008	2008	2008	2008	2008	1991	1995	1995	1995	1995	1005	1990	2661	1997	1997	1997	1998	1997	1998	1998	2000	2000	2001	2000	2000	2001	2001	2001	2001	2001	2001	2001
Vehicle Type (Light, under 8500 lbs, Medium, 8500-15000, Heavy 15000+)	Light	Light	Light	Light	Light	Light	Light	Light	Light	Light	Light	Light	l ioht	Light	Liaht	Light	Light	Light	Light	Medium	Medium	Medium	Medium	Medium	Medium	Medium	Medium	Medium	Medium	Medium	Medium	Medium	Medium	Medium	Medium	Medium	Medium	Medium	Medium	Medium	Medium	Medium	Medium	Medium	Medium	Medium
Sub unit (VIP, OMF, etc.)	400	100	176	177	175	131	125	173	177	246	101	000	181	131	100	100	181	181	181	175	131	006	175	0/1	1/4	0/1	171	175	177	177	175	174	175	110	172	200	160	172	172	175	100	105	105	105	175	006
ation and)	7 1	-	с С	- .	3 1	3 1	1	3 1	3 1	4	, , ,		- -	- -		-	3 1	3 1	3 1	3 1	3 7	6 1	с С		 v c	 0 0	n 4	- - ~	3 1	3 1	3 1	9 7	3,1	ν γ	- -	7 1	2	3 1	3 1	3 1	- <u>-</u>	4,	4 4	4 4	- - ო	6 1
Loc (Isl)	12 1	12	12 1	67 1	67 1	12 1	67 1	12 1	12 1	12 1	12	1 5	10	12	12	12	12 1	12 1	12 1	12 1	12 1	12	12		<u> </u>		121	12	121	12 1	12	12 1	12 1	12	12	12 1	12 1	12 1	12	12 1	12 1	121	121	10	12	12

Fuel Report	- A 8.29.08
REV	DOT

AVERAGE VEHICLE MPG	6.19	7.80	4.88		9.92	7.15		1.1.1	32.19	80.71	7.09	8.56	9.72	6.73	6.45	9.11	6.01	6.55	7.07	7.34	6.94	0.00	4 28	5.68	4.64	5.03	4.89								3.12			10.04	601 70	D81.12		
VEHICLE FUEL CONSUMPTI ON	1794.3	362.7	554		522.5	236.7	1.004	437.8	147.5	1.182	337	124.5	254.7	1083	60	235.5	182	287.5	354.1	959.3	205	1115	239.9	108	197	06	118.5								49.4		1	81.5	10	110	T	
VEHICLE MILEAGE	11110	2830.1	2702		5183	1692	7001	3401	4748	0†1.G	2389	1066	2476	7291	386.7	2146	1094	1882	2503	7045	1422	232	1027.5	613.7	915	453	580								154		0	818	1 01100	80442.4		
EPA RATED MPG																																										
TYPE FUEL																																										
FUEL USAGE	E-10	E-10	E-10	E-10 E-10	E-10	E-10		E-10	Е-10 г 10	DI-10	E-10	E-10	E-10	E-10	Diesel	E-10	E-10	E-10	E-10	E-10	Е-10 г 10		Diesel	E-10	E-10	E-10	E-10	Diesel	Diesel	E-10	E-10	E-10				E-10		E-10	C T	Е-10	E-10	2
FUEL CONFIG	Gas	Gas	Gas	Gas Gas	Propane/	Sas Cas	Propane/	Gas	Gas	Jronano/	ropane/ Gas	^{>} ropane/ Gas	^{>} ropane/ Gas	Gas	Diesel	^o ropane/ Gas	Gas	Gas	Gas	-85	Gas	odS Poo	Diesel	Gas	Gas	Gas	Gas	Diesel	Jiesel	Gas	Gas	Gas				Gas		Gas		jas	Gas	
GVWR		Ŭ	Ū					0			_ 0	HO	<u> </u>			<u> </u>		0							0	0																-
Vehicle Acquisition Cost	29,940.44	25,418.67	21,867.51	58,355.87 58,355.88	7,500.00	34 496 40		5,500.00	58,088.29	58,088.29	7,000.00	5,500.00	6,000.00	43,619.93	8,500.00	5,500.00	7,500.00	7,500.00	5,500.00	9,000.00	9,000.00	00.000.8	51,114.47 64 064 01	53,473.29	53,473.29	53,473.27	53,473.29	32,669.10	41,821.91 27 400 42	37.498.42	37,498.42	36,708.57			34,880.60	20,449.94	10,269.64	8,264.88	10,684.93	18,020.90	14.734.42	5,925.00
License Plate	SHA559	SHA560	SHA709	SHB720 SHB721	SHB780	SHB959		SHC103	SHC227	2HU228	SHC304	SHC306	SHC307	SHC316	SHC319	SHC340	SHC418	SHC419	SHC420	SHC873	SHC874	200002	SHC949	SHD242	SHD243	SHD244	SHD245	SHD440	SHD441 SHD441	SHD443	SHD444	SHD445	division	division	SH4454	SH4819	SH4861	SH4871	SH4875	SH4892	SH4901	SH5402
MAKE, MODEL, Vehicle Identification Number	SUV FORD EXCURSION # 1FMNU41S83EA28116	TRUCK FORD F-350 # 1FTSW31S72ED24254	VAN FORD CUSTODY # 1FBSS31S92HB64439	FORD EXCURSION, 1FMNU40S35EB92362 FORD EXCURSION. 1FMNU40S35EB92361	TRUCK FORD F-250 1998 #1FTRF27Z5WKB8822	TRUCK FORD F350 1FTWW30Y85FB15939		IRUCK F-250 1998 1F IKF27Z0WKB88229	TRUCK F350 CAB CREW 1FTSW31P96EC37831	IRUCK F300 CAB CKEW 1F ISW31P / 0EC3/830	TRUCK F250 1998 1FTRF27Z8XKC12553	TRUCK F250 1FTRF27Z6WKB88218	TRUCK F250 1FTRF27Z2WKB88216	TRUCK FORD F350 HEIL #1FDWW36PX6EB89214	AMB, 1997, FORD, 1FDKF38F1VED04655	TRUCK, 1998, FORD, 1FTRF27Z1WKB88224	TRUCK, 1999, DODG, 3B6KC26Z4XM580706	TRUCK, 1999, DODG, 3B6KC26Z3XM580700	VAN FORD VIN 1FBSS31L7WHC07187	TRUCK CHEV 2000 1GCGC33R2YF488250	TRUCK CHEV 2000 1GCGC33R0YF490403			TRUCK, FORD F350 1FDWW36Y68EC19174	TRUCK, FORD F350 1FDWW36Y68EC19175	TRUCK, FORD F350 1FDWW36Y68EC19176	TRUCK, FORD F350 1FDWW36Y68EC19177	TRUCK, 08 DODGE, # 3D6WG36A18G131429		TRUCK. FORD F250 #1FTSW20788EC19179	TRUCK, FORD F250 #1FTSW20Y68EC19178	TRUCK, FORD F250 # 1FTSX20558EB73099	DODGE STRATUS 2004 VIN 1B3EL36TX4N34162	DODGE STRATUS 2004 VIN 1B3EL36T94N34162	TRUCK FORD F/B 1FDWK64PTMVA01441	AUTO CHEV 1G1AW51WOK624888	TRUCK FORD P/U 1FIDF15NXGPB32162	TRUCK CHEV P/U, 1GCCC14D1EJ175415	TRUCK FORD 1FTCF10E3CRA17954		IRUCK, CHEV F/U, #1900013K00203300 TRUCK FORD P/U 1FTFF25HXPA97388	TRUCK CHEVEROLET PICK UP
YEAR	2003	2003	2003	2005 2005	2006	2005		5002	2006	2000	2006	2006	2006	2006	2006	2006	2006	2006	2007	2008	2008		2008	2008	2008	2008	2008	2008	8002	2008	2008	2008	Dodge	Dodge	1991	1990	1987	1985	1982	1993	1988	1989
Vehicle Type (Light, under 8500 lbs, Medium, 8500-15000, Heavy 15000+)	Medium	Medium	Medium	Medium Medium	Medium	Medium	Modium	Medium	Medium	Medium	Medium	Medium	Medium	Medium	Medium	Medium	Medium	Medium	Medium	Medium	Medium	Medium	Medium	Medium	Medium	Medium	Medium	Medium	Medium	Medium	Medium	Medium										
Sub unit (VIP, OMF, etc.)	310	310	310	100	179	160		131	325	325	177	110	110	175	310	110	110	110	160	175	177	0.11	181	181	181	181	181	181	181	181	181	181	100	100	175	175	172	131	174	G/1	172	160
Location (Island)	12 1 4 1	12 1 4 1	12 1 4 1	12 1 7 1 12 1 7 1	12 1 3 1	12 1 2 1		12 1 3 1	12 1 4 1	1. 4 1. 71.	12 1 3 1	12 1 3 1	12 1 3 1	12 1 3 1	12 1 4 1	12 1 3 1	12 1 3 1	12 1 3 1	12 1 2 1	12 1 3 1	12 1 3 1		12 1 2 1	12 1 3 1	12 1 3 1	12 1 3 1	12 1 3 1	12 1 3 1	12 1 3 1	12 1 3 1	12 1 3 1	12 1 3 1	12 1 1 1	12 1 1 1	12 1 3 1	12 1 3 1	12 1 3 1	12 1 3 1	12 1 3 1	12 1 3 1	12 1 7 1	12 1 2 1

Vehic und	:le Type (Light, der 8500 lbs,	YEAR	MAKE. MODEL Vehicle Identification Number	License	Vehicle Acauisition GV	FUEL	FUEL	TYPE	EPA	VEHICLE	VEHICLE FUEL	AVERAGE VEHICLE
Mediu He	ım, 8500-15000, avy 15000+)			Plate	Cost	CONFIG	USAGE	FUEL	Ddw		CONSUMPTI	MPG
		2000	TRUCK CHEV P/UP #278836	SH9620	21,020.17							
	i	2006	SUV, 2006, DODG, 1D4HB38P86F178179	SHC532	59,692.33					8276	836	9.90
	Fire	1989	TRUCK OSHKOSH T-300 TPLICK OSHKOSH T-300	SH4436 SH4436	246,153.89 81 606 18	Diesel	Diesel					
	Fire	1000		SH4837	375 032 08	Diecel	Diacal					
	Fire	1990	TRUCK OSHKOSH 1500	SH4838	326.182.20	Diesel	Diesel					
	Fire	1988	TRUCK OSHKOSH 1988 10T965BH8J1032846	SH4842	277,517.00	Diesel	Diesel					
	Fire	1990	TRUCK CRYW 3,000 SN006724	SH4964	209,754.00	Diesel	Diesel					
	Fire	1990	TRUCK CF P3000 VIN# 10T9L5EH5L1039994	SH4966	37,592.98	Diesel	Diesel					
	Fire	1990	TRUCK CF P3000 VIN#10T9L5EH5L1039994	SH4966	338,340.00	Diesel	Diesel					
	Fire	1990	TRUCK CF P19 VIN# 10T9L5BE1L1039579	SH4967	28,394.08	Diesel	Diesel					
	Fire	1990	TRUCK CF P19 VIN#10T9L5BE1L1039579	SH4967	255,541.00	Diesel	Diesel					
	Fire	2006	TRUCK OSHKOSH STI-1500 10TBKAK1X5S08560	SHC323	578,308.00	Diesel	Diesel					
	Fire	2007	TRUCK OSHKOSH STI-3000 10TDKAK126S08982	SHC530	49,099.00							
	Fire	2007	TRUCK OSHKOSH STI-3000 10TDKAK126S08982	SHC530	816,845.00							
	Fire	2007	TRUCK OSHKOSH STI-3000 10TDKAK146S08982	SHC533	863,959.00							
	Fire	2007	TRUCK OSHKSH STI-1500 10TBKAK117S094494	SHC869	31,578.00	Diesel	Diesel					
	Fire	2007	TRUCK OSHKSH STI-1500 10TBKAK117S094494	SHC869	599,975.00	Diesel	Diesel					
	Heavy		TRUCK 91 FORD F800 1FDXK84A4MVA08570	SH4839								
	Heavy		SWEEPER ELGIN STREET VACUUM	SH4845								
	Heavy	1983	TRUCK 1-1/2T DOD DUMP 1B6WD34T1CS280903	SH4418	15,411.48	Diesel	Diesel					
	Heavy	1991	TRUCK 91 FORD F800 1FDXK84A4MVA08570	SH4839	44,512.60	Diesel	Diesel					
	Heavy	1987	SWEEPER ELGIN STREET VACUUM	SH4845	81,233.00	Diesel	Diesel					
	Heavy	2000	SWEEPER STRG/ELGIN HF42289/J-0138-D	SH9510	121,811.72	Diesel	Diesel					
	Heavy	2006	SWEEPER JOHNSTON 770 1FVAB7BV85DN91764	SHB908	159,894.81	Diesel	Diesel					
	Heavy	2000	BOOM TRUCK INTERNATIONAL 0299CT0165	STATE950	225,621.48							
	Light	1991	90' CHEVY BLAZER 4 WHEEL DRIVE LT 10506	SH4389	18,560.00	Gas	E-10					
	Light	1990	AUTO DODGE DYNASTY 1B3XC46R3LD848259	SH4823	22,910.05	Gas	E-10					
	Light	1989	BLAZER 2DR 4WD CHEV 1GNCT18Z9K8117925	SH4954	22,240.00	Gas	E-10					
	Light	1984	TRUCK CHEV CHAS CAB 1GBHK34J1EV139599	SH4957	18,337.04							
	Light	1988	TRUCK P/U CHEV 1GCGV24K6HS158303	SH4958	18,556.84							
	Light	1989	TRUCK P/U 3/4T CHEV 1GCFK24K2KE110968	SH4960	16,667.20	(-					
	Light	1991	IRUCK CHEVY S-10 1GCCS14Z1M8Z51817	SH51/0	12,390.58	Gas	н-10 -					
	Light	1951	JEEP WILLY'S (G)CJ3A39065	SH5567	2,825.00	Gas	E-10					
	Light	1993	BLAZER CHEVY 93 1GNDT13W8P2161295	SH5942	21,560.78	Gas	Е-10					
	Light	1993	CHEVY BLAZER 93 1GND113W1P2161297	SH5943	21,561.77	Gas	E-10					
	Light	1994	WAGON STATION GMC 94 1GKDT13W4R2512915	SH6839	19,085.00	Gas	E-10					
	Light	1995	IRUCK 95 GIMC SONOMA 16 ID 19245K528180	SH/931	23,380.00	Gas	E-10					
	Light	1998	TRUCK 91 DODGE DAKOTA 1B7GG26X6MS291706	SH8690	7,900.00	Gas	E-10					
	Light	1998	JEEP CHEROKEE '92 1J4FJ28S2NL218899	SH9030	8,300.00	Gas	E-10					
	Light	2001	SEDAN FORD FOCUS 1FAFP34301W206614	SH9870	14,260.33	Gas	E-10					
	Light	2002	FORD EXPEDITION XLT SUV	SHA349	36,695.68		E-10					
	Light	2003	TRUCK FORD RANGER 1FTYR44V93PA20989	SHA688	21,722.08		E-10					
	Light	2003	FORD EXPLORER 1FMZU72K53UA20868	SHA689	27,287.68	E-85	E-10					
	Light	2007	TRUCK FORD CREW CAB W/DUMP 1FDWW37Y67EB	SHC697	41,918.79							
	Light	2007	DODGE DURANGO 07' 1D8HB48PX7F537201	SHC714	32,247.71	E-85	E-10					
	Light	2007	DODGE 1500 QUAD CAB P/U 1D7HU18P97J5324	SHC715	30,813.34	E-85	E-10					
	Light	2008	FORD EXPEDITION SN#1FMPU16L3YLB73432	SHD175	8,500.00	E-85	E-10					
	Light	2008	TRUCK FORD F-150 1FTRF14V18KB23873	SHD290	34,563.00	E-85	E-10					
	Light	2008	TRUCK FORD F-150 1FTRF14V38KB23874	SHD291	27,771.80	E-85	E-10					
	I jaht	2008	FORD F150 PICKUP 2FTPF17733CA80284	SHD346	8.500.00	F-85	F-10					

AVERAGE VEHICLE MPG			new							8.10	5.86 9.48			new																																	
VEHICLE FUEL CONSUMPTI ON										566.2	125 479 5	0.01																																			
VEHICLE MILEAGE										4588	732.4																																				
EPA RATED MPG																																															
TYPE FUEL																																															
FUEL USAGE	E-10	E-10	E-10						-	E-10	E-10	E-10	2	E-10																								000	Diesei	Diesel							
FUEL CONFIG	E-85	E-85	Gas						(Gas	Gas	Gas	000	Gas																								0000	Diesei	Diesel							
GWR	C	0	-					2	<u>ω</u> .	4	<i>∞</i> 0		1 10	6											0	~					0	0	C	0	4	0	0			0							
Vehicle Acquisitior Cost	7,500.0	12,000.0	5,500.0					12,696.5	21,557.9	29,160.5	32,714.2	30.963.9	35,001.7	39,560.1											17,217.9	13,716.6	22,303.3	9,677.4	14,201.6	35,295.0	9,725.0	9,725.0	17,799.6	7,400.0	19,277.4	18,450.0	4,500.0	34,201.1	5/6,840.0	8/1,5/0.5							
License Plate	SHD347	SHD348	SHD355 SH3417	SH4418	SH4464	SHB114	SHD347	SH3417	SH4464	SH8057	SH8199 SH0188	SHB114	SHC596	SHD354	SH4422	SH4431	SH4460	SH4905	SH4909	SH7231	SH8689	SH9469	SHA952	SHC595	SH4422	SH4431	SH4460	SH4462	SH4900	SH7231	SH7606	SH7607	SH7820	SH8689	SH9469	SHA361	SHA952	SHC395		0000000	SH4832	SH4833	SH4834	SH5494	SH5494	SH9243	SHC014
MAKE, MODEL, Vehicle Identification Number	FORD EXPEDITION SUV 1FMPU16L4YLB73441	FORD F150 CREW CAB 1FTRW07603KD09797	FORD EXPLOREK 2000 1FMIDU/2X0Y2C45/16 TRUCK P/U 3/4T FORD 1FTHF26GIDPB08738	TRUCK 1-1/2T DOD DUMP 1B6WD34T1CS280903	TRUCK 91 FORD F350 CREWCAB 2FTJWBGH3MCA	TRUCK FORD F-250 2004 4X4 W/DUMP BED	FORD EXPEDITION SUV 1FMPU16L4YLB73441	TRUCK P/U 3/4T FORD 1FTHF26GIDPB08738	TRUCK 91 FORD F350 CREWCAB 2FTJWBGH3MCA	TRUCK FORD FLATBED 1FTJW35H7SEA10470	TRUCK FORD 350 1FTJW35H1SEA77078 TRUCK GMC 1GTGC33R1XEO17110	TRUCK FORD F-250 2004 4X4 W/DUMP BED	TRUCK FLATBED FORD 1FDWF36587EA6V963	TRUCK FORD 2008 F250 1FDSF21R48ED07178	TRUCK FORD 86 1FTHF261GPB29549	TRUCK 87 FORD 1FTCR11T7HUC58456	TRUCK 91 FORD UTILITY 1FDHF38G3MKA81327	TRUCK PU CHEVROLET 1G8HJ34W7CS161343	TRUCK CHEV 86 1GCEK14C5GJ166447	TRUCK UTIL. GMC 4X4 1CKDT13W9R0513487 1	TRUCK CHEV 89 1GBJV34J2K121141	GMC VAN #1GKDM19WXXB536329	TRUCK FORD 1FTEF15ZTLB95484	I RUCK FUKU 2007 1F1 SF21P77 EA50163	TRUCK FORD 86 1F1HF261GPB29549	IRUCK 8/ FORD 1FICK111/HUC58456	I RUCK 91 FORD UTILITY 1FUHF38G3MKA8132/	TRUCK P/U FORD 1F ICK10A/NUC2/896	TRUCK PU CHEVROLET 1G8HJ34W /CS161343 TRUCK CHEV 86 1000EK14056 1166447	TRUCK UTIL. GMC 4X4 1CKDT13W9R0513487 1	TRUCK CHEV P/U 1GDC1421RZ259063	TRUCK CHEV P/U 1GCDC14Z0RZ259006	TRUCK FORD PU 2FTEF15N9SCA29961	TRUCK CHEV 89 1GBJV34J2K121141	GMC VAN #1GKDM19WXXB536329	TRUCK CHEVY P/U 2002 1GCCS195628167902	TRUCK FORD 1FTEF15ZTLB95484		I RUCK USHKUSH I-1500 101 BNAN 1255081535	I RUCK OSHKOSH 1-3000 101 DKAK125S081534	IRUCK OSHKOSH 1-1500 1019L5BH2L1039553	TRUCK CF 1-3000 VIN# 1019L5EHOL1040521	TRUCK CF 1-1300 VIN# 10195351351039333 TRUCK CF T-1500 VIN#10T015RH311030550	TRUCK FIRE Y/W BGFL 1500 VIN #006721	TRUCK FIRE Y/W BGFL 1500 VIN #006721	TRUCK FIRE PIERCE #4PICT02M2XA001148	TRUCK STA1500 STRKER 10TRKAK187S094492
YEAR	2008	2008	2008				Ford	1984	1991	1995	1995	2004	2007	2008								GMC		1007	1987	1988	1991	1992	1983	1995	1995	1995	1995	1998	2000	2002	2004	1002		2006							
Vehicle Type (Light, under 8500 lbs, Medium, 8500-15000, Heavy 15000+)	Light	Light	Light Medium	Medium	Medium	Medium	Medium	Medium	Medium	Medium	Medium	Medium	Medium	Medium																								÷	FILE	i Fire	FIre	FIFE	E LIG	Fire	Fire	Fire	Fire
Sub unit (VIP, OMF, etc.)	101	101	101	179	179	179	101	100	179	170	170	179	170	179	179	179	179	180	179	180	179	115	179	6/1	179	1/9	1/9	1/0	180	180	179	170	172	179	115	170	179	6/1	180	180	180	180	180	180	180	180	180
Location (Island)	12 2 5 3	12 2 5 3	12 2 0 3 12 2 4 3	12 2 5 3	12 2 5 3	12 2 5 3	12 2 5 3	12 2 4 3	12 2 5 3	12 2 0 3	12 2 0 3 12 2 0 3	12 2 5 3	12 2 0 3	12 2 4 3	12 2 4 3	2 2 5 3	12 2 5 3	12 2 5 3	12 2 4 3	12 2 0 3	2243	12 2 5 3	57 2 0 3	2 2 4 3	12 2 4 3	2253	2 2 2 3		12 2 5 3	12 2 0 3	12 2 5 3	12 2 0 3	12 2 0 3	12 2 4 3	12 2 5 3	12 2 0 3	57 2 0 3	2 2 4 3	2 3 1 V	12 3 1 2	12 3 1 2	2 1 2 2	10 2 1 2	12 3 3 5	12 3 3 5	12 3 1 2	12312

	1				1	1	Т	1	-	1			1			1	1	1		T	1	1	1	т	1	Т	T	T	1	1	1					1		1		-		—		—	—	—	_	_
AVERAGE VEHICLE MPG																																																
VEHICLE FUEL CONSUMPTI ON																																																
VEHICLE MILEAGE																																																
EPA RATED MPG																																																
TYPE FUEL																																																
FUEL USAGE		Diesel	Diesel	Diesel	Diesel	Discol	Discol	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel				Diesel	Diesel	Diesel	E-10	E-10	E-10		E-10	Е-10	E-10	E-10	E-10	E-10		E-10	c T	Е-10	Е-10	2 4	П-10	2 4	E-10	н 10 10	E-10	E-10	E-10	
FUEL CONFIG		Diesel	Diesel	Diesel	Diesel	Discel	Diccol	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel				Diesel	Diesel	Diesel	E-85	E-85	E-85		Gas	Gas	Gas	Gas	Gas	Gas		Gas		Gas	Gas	000	Gas	Cas	Gas Gas	Gas	Gas	Gas	Gas	500
GVWR																																							_		_							
Vehicle Acquisition Cost		316,669.37	166,814.76	275,948.80	233,855.80	700 950 00	75 204 00	224 334 11	41.150.00	49,899.00	3,000.00	135,881.00	197,432.00	34,280.85	308,522.00	34,280.85	308,522.00	632,135.00	260,140.66			40,259.84	143,455.00	119,780.29	8,500.00	8,500.00	8,500.00	7,499.52	11,032.13	15,393.98	20,570.00	16.170.00	16,170.00	6,228.65	9,678.33	10,439.60	16,594.00	13,772.36	13,112.30	10,116.00	13,112.30	10,116.00	13,772,36	13.772.36	19,486.00	19,177.05	18,535.39	10 177 0F
License Plate	SHC914	SH4832	SH4833	SH4833	SH4834	SH4834	014040	SH4855	SH4858	SH4859	SH5494	SH5494	SH9243	SH9856	SH9856	SH9857	SH9857	SHC914	SHD292	SH4841	SHD292	SH4831	SH4841	SHC628				SH4021	SH4266	SH4380	SH4403	SH4409	SH4410	SH4411	SH4426	SH4433	SH4438	SH4442	CH4443		он4440 СН4447		SH4440 SH4449	SH4450	SH4453	SH4456	SH4457	CHAARD
MAKE, MODEL, Vehicle Identification Number	TRUCK STA1500 STRKER 10TBKAK187S094492	TRUCK OSHKOSH T-1500 10T9L5BH2L1039553	TRUCK CF T-3000 VIN#10T9L5EHOL1040521	TRUCK CF T-3000 VIN# 10T9L5EHOL1040521	TRUCK CF 1-1500 VIN# 1019L5BH3L1039559			TRUCK CF 11300 VIN# 1019L3BH2G 1026374 TRUCK CF T1500 VIN# 10T9I 5BH2G1028574	TRUCK YANKEE WALTER CR ORV500 SN725616	TRUCK FIRE YW 695612	TRUCK FIRE Y/W BGFL 1500 VIN #006721	TRUCK FIRE Y/W BGFL 1500 VIN #006721	TRUCK FIRE PIERCE #4PICT02M2XA001148	TRUCK FIRE MAJOR1500 4ENDAAA8XY1001848	TRUCK FIRE MAJOR1500 4ENDAAA8XY1001848	TRUCK FIRE MAJOR1500 4ENDAAA88Y1001847	TRUCK FIRE MAJOR1500 4ENDAAA88Y1001847	TRUCK STA1500 STRKER 10TBKAK187S094492	AERIAL BUCKET TRUCK	TRK FORD AERIAL BCKT 1FDYL90AXKVA38831	AERIAL BUCKET TRUCK	TRUCK INTL DUMP 1HTSCNML6NH412551	TRK FORD AERIAL BCKT 1FDYL90AXKVA38831	TRUCK #2NPRHZ8X67M731141, 8-CUBIC DUMP	TRUCK, FORD F150 #2FTPF17Z53CA80285	TRUCK, FORD F150 #2FTPF17Z83CA80281	TRUCK, FORD F150 #2FTPF17ZX3CA80282	TRUCK TOYOTA HLUX P/U JT4RN50R6G0158471	WAGON CHEV CELEBRITY 1G1AW81W1H6116975	TRUCK FORD BRONCO II 1FMCU14T6HUC72273	VAN, FURD AERUSTAR TEMDA3TUS5MZAT8329 VAN CHEV ASTRO 16NDM1572MR121908	VAN FORD AEROSTAR 1FMDA118NZA04964	VAN FORD AEROSTAR 1FMDA11UXNZA04965	TRUCK P/U CHEV LUV AIR-M #01-02	TRUCK P/U FORD RANGER 1FTCR11T7GUC95179	TRUCK DODGE RAM 150 #1B7GD14Y7JS718028	TRUCK FORD F-350 1FDJF37H2KKB15038	TRUCK P/U CHEV 1/21 1GCDC14H/LZ230598	IRUCK P/U CHEV 1/21 1GCUU14H8LZZ3168U TELIOK P/I1 CHEV 1/97 1GCDC14H9I 7930117		TRUCK F/U UNEV 1/21 10000 1401 LEZE3330		IRUCK, P/U CHEV 1/21 1GCUU14H9LZZZ9013 TRLICK P/U CHEV 1/9T 1GCDC14H6LZ230334	TRUCK P/U CHEV 1/2T 1GCDC14H3LZ213828	TRUCK P/U FORD F150 1FTEF14N1MKA35320 A	TRUCK P/U CHEV 1/2T 1GCDK14H6MZ130027	TRUCK CHEV 1/2T 1GCDK14H1MZ130503	
YEAR		1991	1990	1990	1990	0661	1007	1987	1973	1969	1976	1977	1999	2001	2001	2001	2001	2007	2008			1992	1989	2007	2008	2008	2008	1987	1987	1988	1991	1991	1991	1981	1987	1998	1989	1991	1991	1001	1001	1001	1991	1991	1991	1991	1991	1001
Vehicle Type (Light, under 8500 lbs, Medium, 8500-15000, Heavy 15000+)	Fire	Fire	Fire	Fire	Fire	FIre Fire		E E	Fire	Fire	Fire	Fire	Fire	Fire	Fire	Fire	Fire	Fire	Fire	Heavy	Heavy	Heavy	Heavy	Heavy	Light	Light	Light	Light	Light	Light	Light	Liaht	Light	Light	Light	Light	Light	Light	Light		LIGIII Linht		Light	Light	Light	Light	Light	1 inht
Sub unit (VIP, OMF, etc.)	180	180	180	180	180	180	170	170	180	180	180	180	180	180	180	180	180	180	174	182	174	182	182	175	995	995	995	170	115	180	111	120	100	180	172	180	170	1/0	1/8	1 0 1	140	- 1 1 1 1	178	170	180	175	170	175
Location (Island)	12 3 1 2	12 3 1 2	12 3 1 2	12 3 1 2	12 3 1 2	2 1 2 7	- 4 - 4 - 4 - 4 - 4 - 4 - 4 - 4 - 4 - 4	12 3 6 2	12 3 6 2	12 3 5 6	12 3 3 5	12 3 3 5	12 3 1 2	12 3 3 5	12 3 3 5	12 3 5 6	12 3 5 6	12 3 1 2	12 3 1 2	12 3 1 2	12 3 1 2	12 3 1 2	12 3 1 2	12 3 1 2	12 3 1 2	12 3 1 2	12 3 1 2	12 3 4 5	12 3 1 2	12 3 1 2	12 3 1 2	12 3 1 2	12 3 1 2	12 3 1 2	12 3 1 2	12 3 2 2	12 3 5 6	12 3 2 2	12 3 1 2	1 C C 4	12 3 1 2	1 0 1 0 1 1 0 1 1 0 1 0 1 0 1 0 1 0 1 0	12 3 1 2 12 3 1 2	12 3 3 5	12 3 5 6	12 3 1 2	12 3 5 6	10 3 1 0

MittVenicleVenicleFUELTYPEEPAVenicleFUELTYPEEPAVenicleVenicleMedium, 8500-15000, Heavy 15000+)YEARMAKE, MODEL, Vehicle Identification NumberPlateCostEVELFUELTYPEEPAVehicleVehicleFUELMedium, 8500-15000, Heavy 15000+)1991TRUCK P/U CHEV 1/2 T 1GCDC14H5NZ112763SH446114,757.08GasE-10PPP5Light1983TRUCK P/U FORD RANGER 1FTCR105SUD23900SH490415,105.24DieselDieselPPP5Light1983TRUCK P/U FORD RANGER 1FTCR105SUD23900SH490415,105.24DieselDieselPPPP11983TRUCK P/U FORD RANGER 1FTCR105SUD23900SH490415,105.24DieselDieselPPPPP11983TRUCK P/U FORD RANGER 1FTCR105SUD23900SH490711,492.00GasE-10PPP
MittVencie Type (Light hedium, 8500-15000, Heavy 1500+)MaKE, MODEL, Vehicle Identification NumberLicense PlateVehicle AcquisitionVehicle FUELFUEL RATEDTYPE RATED MPGFUEL MPGTYPE RATED MPGMake, MODEL, Vehicle Identification Number1Heavy 1500+)Heavy 1500+)1991TRUCK P/U CHEV 1/2 T 1GCDC14H6NZ112763SH446114, 757.08GasE-10MPGWehicle MPG5Light1983TRUCK P/U FORD RANGER 1FTCR105SUD23900SH490415, 105.24DieselDieselPieselPieselPieselPieselPieselPieselPieselMLEAGE0Light1983TRUCK P/U FORD RANGER 1FTCR105SUD23900SH490415, 105.24DieselDieselPie
Imder 8500 lbs, Medium, 8500-15000,Vence Medium, 8500-15000,FUEL Medium, 8500-15000,TVPE Medium, 8500-15000,FUEL Medium, 8500-15000,TVPE Medium, 8500-1500,FUEL Medium, 8500-1500,TVPE Medium, 8500-1500,FUEL Medium, 8500-1500,TVPE Medium, 8500-1500,FUEL Medium, 8500-1500,TVPE Medium, 8500-1500,FUEL Medium, 8500-150,TVPE Medium, 8500-150,FUEL ModelTVPE MPGFUEL MPGTVPE MPGRATED MPGDLight1993TRUCK P/U CHEV 1/2T 1GCDC14H5NZ112763SH490414,757.08GasE-10PPDLight1983TRUCK P/U FORD RANGER 1FTCR105SUD23900SH490415,105.24DieselDieselPPDLight1983TRUCK P/U FORD RANGER 1FTCR105SUD23900SH490415,105.24DieselDieselPPDLight1983TRUCK P/U FORD RANGER 1FTCR105SUD23900SH490611,492.00GasE-10PPDLight1993TRUCK P/U FORD RANGER 1FTCR105SUD13870SH549026,196.00GasE-10PPDLight1991STATION WAGON FORD ZFACP7F3MX119540SH549026,196.00GasE-10PPDLight1991STATION WAGON FORD ZFACP7F3MX119540SH549126,196.00GasE-10PPDLight1991STATION WAGON FORD ZFACP7F3MX119540SH549026,196.00GasE-10PPDLight19
Munder B500 lbs, heavy 15000+) Make, MODEL, Vehicle Identification Number License Vehicle Acquisition Vehicle Full Full <
Munder 8500 lbs, Medium, 8500-15000, Venicle Medium, 8500-150, Venicle Medium, 8500-150, Venicle Medium, 8500-150, Venicle Medium, 8500-150, FUEL Venicle Medium, 8500-150, FUEL FUEL 1 1991 TRUCK P/U FORD RANGER 1FTCR105SUD23900 SH4904 14,757.08 Gas E-10 1 1983 TRUCK P/U FORD RANGER 1FTCR105SUD23900 SH4904 14,757.08 Gas E-10 1 1983 TRUCK P/U FORD RANGER 1FTCR105SUD23900 SH4904 11,492.00 Gas E-10 1 1993 TRUCK P/U FORD RANGER 1FTCR1058DUC13870 SH5472 14,327.00 Gas E-10 1 Light 1993 TRUCK P/U FORD RANGER 1FTCR1058DUC13870 SH5490 26,196.00 Gas E-10 1 Light 1991
Mill Vehicle Ulcense Vehicle Configure Vehicle Configure Configure Vehicle Config Vehicle
March and Construction Marker MoDEL, Vehicle Identification Number License Vehicle Meauny 15000+100 Heavy 15000+100 Heavy 15000+100 Vehicle Acquisition Meauny 15000+100 Heavy 15000+100 Heavy 15000+100 Heavy 15000+100 Vehicle Meauny 15000+100 Heavy 15000+100 Heavy 15000+100 Heavy 15000+100 Heavy 15000+100 Meavy 15000+100 Heavy 15000+100 Heavy 15000+100 Heavy 15000+100 Heavy 15000+100 Meavy 15000+100 Heavy 15000+1000 Heavy 15000+100 Heavy 1600 Heavy 1600 Meavy 15000+100 Heavy 15000+100 Heavy 12000+100 Heavy 1600 Heavy 1600 Meavy 15000+100 Heavy 15000+100 Heavy 1600 Heavy 1600 Heavy 1600 Meavy 15000+100 Heavy 15000+100 Heavy 1600 Heavy 1600 Heavy 1600 Meavy 15000+100 Heavy 1600 Heavy 1600 Heavy 1600 Heavy 1600 Meavy 15000+100 Heavy 1600 Heavy 1600 Heavy 1600 Heavy 1600 Meavy 1600 Heavy 1600 Heavy 1600 Heavy 1600 Heavy 1
Interfactor Marke, MoDEL, Vehicle Identification Number License Vehicle Medium, 8500 15000, Heavy 15000+) YEAR MAKE, MODEL, Vehicle Identification Number Plate Vehicle Medium, 8500 15000, Heavy 15000+) 1991 TRUCK P/U CHEV 1/2 T 1GCDC14H5NZ112/63 SH4461 14, 757.08 Light 1993 TRUCK P/U FORD RANGER 1FTCR 105SUD23900 SH43064 15,888.43 D Light 1983 TRUCK DODGE DUMP 186WD34T6CSSUD239005 SH43064 11,492.00 D Light 1983 TRUCK DODGE RAM350 187LD34W6DS410748 SH4306 10,327.61 D Light 1993 TRUCK P/U FORD RANGER 1FTCR 105SUD23800 SH4306 10,327.61 D Light 1993 TRUCK P/U FORD RANGER 1FTCR 105SUD23800 SH4306 10,327.61 D Light 1993 TRUCK P/U FORD RANGER 1FTCR 105SUD23800 SH4306 10,327.61 D Light 1993 TRUCK P/U CHEV 1/2T 1650C134H9PZ119489 SH4307 11,492.00 D Light 1993 TRUCK P/U CHEV 1/2T 1650C134H9PZ110489 SH4307 11,492
Marker Marker<
Init Vence Lype Lught Light 1991 TRUCK P/U CHEV 1/2 T 1GCDC14H5NZ112763 Light 1991 TRUCK P/U CHEV 1/2 T 1GCDC14H5NZ112763 SH44 D Light 1991 TRUCK P/U CHEV 1/2 T 1GCDC14H5NZ112763 SH46 P P D Light 1991 TRUCK P/U FORD RANGER 1FTCR105SUD23900 SH46 SH46 D Light 1983 TRUCK DODGE DUMP 1B6WD34T5CS280905 SH46 SH46 D Light 1983 TRUCK DODGE RAM350 1B7LD34W6DS410748 SH46 SH46 D Light 1983 TRUCK P/U CHEV 1/2T 1GCDC14H9PZ119489 SH46 SH46 D Light 1983 TRUCK P/U CHEV 1/2T 1GCDC14H9PZ119489 SH46 SH46 D Light 1983 TRUCK P/U CHEV 1/2T 1GCDC14H9PZ119489 SH46 SH46 D Light 1983 TRUCK P/U CHEV 1/2T 1GCDC14H9PZ119489 SH46 SH46 D Light 1983 TRUCK P/U CHEV 1/2T 1GCDC14H9PZ119489 SH46 SH46 SH46 SH46 SH46
Make Make ModeL, Vehicle Identification Number Medium, 8500-15000, Heavy 15000+) YE AR Make, MODEL, Vehicle Identification Number 5 Light 1991 TRUCK P/U CHEV 1/2 T 1GCDC14H5NZ112763 5 Light 1983 TRUCK P/U CHEV 1/2 T 1GCDC14H5NZ112763 5 Light 1983 TRUCK P/U FORD RANGER 1FTCR105SUD23900 6 Light 1983 TRUCK P/U FORD RANGER 1FTCR105SUD23900 7 Light 1983 TRUCK P/U CHEV 1/2 T 1GCDC14H9PZ110448 1 Light 1983 TRUCK P/U CHEV 1/2 T 1GCDC14H9PZ110448 1 Light 1983 TRUCK P/U CHEV 1/2 T 1GCDC14H9PZ110448 1 Light 1983 TRUCK P/U CHEV 1/2 T 1GCDC14H9PZ110448 1 Light 1983 TRUCK P/U CHEV 1/2 T 1GCDC14H9PZ110448 1 Light 1983 TRUCK P/U CHEV 1/2 T 1GCDC14H9PZ110489 1 Light 1983 TRUCK P/U CHEV 1/2 T 1GCDC14H9PZ113489 1 Light 1983 TRUCK P/U CHEV 1/2 T 1GCDC14H9PZ113489 1 Light 1983 TRUCK P/U CHEV 1/2 T
Medium, 8500-15000+) Heavy 15000+) Heavy 15000+) Light 1 Light
 Meduuri, souce 150004) Heavy 150004) Light Light Light Light Light Light
CM CM CM CM CM CM CM CM
Occation 0 3 1 0 3 3 2 0 3 3 3 0 3 1 2 0 3 1 2 1 2 3 3

AVERAGE VEHICLE MPG		5.32			5.47	5.17	4.96			5.74	5.05	18.85		16.06	0.01			19.76		13.75	14.15	20.75	15.23	17.10	13.05	22.95		14.65				insuff date		16.76	16.21	15.06	16.96	17.77		23.72	12.15	13.64
VEHICLE FUEL CONSUMPTI ON		87.2			120.3	91.2	85.7			264.9	82	118.2		118	-			571		411	147	165	98	467	309	497		147						471	501	487	475	451		255	87	91
VEHICLE MILEAGE C		463.9			657.5	471.3	425.4			1520	417	2228.4		1805	200			11284		5664	2079.4	3423	1493	7984	4043	11426.6		2153	0	0				7896	8120	7333	8055	8014		6048	1060	1241
EPA RATED MPG																																										
TYPE		DIESEL				DIESEL	DIESEL			DIESEL	DIESEL	GAS						GAS								GAS			GAS	GAS				GAS	GAS					GAS	GAS	GAS
FUEL USAGE		DIESEL			Diesel	DIESEL	DIESEL	Diesel	Diesel	DIESEL	DIESEL	E10	Diocol	E-10	ц 10 10			E10	E-10	E-10	E-10	E-10	E-10	E-10	E-10	E10	E-10	E-10	E10	E10				E10	E10	E-10	E-10	E-10		E10	E10	E10
FUEL CONFIG		DIESEL			Diesel	DIESEL	DIESEL	Diesel	Diesel	DIESEL	DIESEL	GAS	Dianal	Dicoci Cipe	Са3 Е-85	202		GAS	Gas	Gas	Gas	Gas	Gas	Gas	Gas	GAS	E-85	Gas	GAS	GAS		Traded in		GAS	GAS	Gas	Gas	Gas		GAS	GAS	GAS
GWR									_																																	
Vehicle Acquisition Cost		20,910.12			371,912.04	322,058.64	171,901.33	238,486.31	178,864.74	63,675.63	577,500.00	66,174.58	01 100 01	148 118 27	21 558 22	EE 174 58	29 641 48	29,198.00	32,295.00	31,498.00	16,971.76	25,450.00	21,000.00	20,137.52	23,391.42	4,500.00	14,949.90	32,923.21	21,558.22	5,500.00	20,910.12	104,513.18	18,788.51	20,944.97	14,399.00	34,559.20	27,031.08	60,000.00	63,675.63	45,861.16	43,284.10	33.236.50
License Plate		SH4429	SH4835	SH4836	SH4835	SH4836	SH4844	SH4853	SH4853	SHA3231	SHC465	SHC990		CH0158	001010			SH7950	SH8093	SH8097	SH8650	SH8886	SH8887	SH9580	SH9625	SHB358	SHC308	SHC688	SSHD127	DFL 1391	SH4429	SH6530	SH6864	SH7389	SH8019	SH9493	SH9726	SH9893	SHA231	SHB836	SHC168	SHC567
MAKE, MODEL, Vehicle Identification Number	TRK OSHKOSH STI 3000S 10TDKAK105S085601 TPK OSHKOSH STI 3000S 10TDKAK105S085601	TRUCK P/U CHEV 1GCHK33J9GS166518 Y9	TRUCK CF T3000 VIN# 10T9L5EH8L1040508	TRUCK OSHKOSH T-1500 10T9L5BH0L1039549	TRUCK OSHKOSH T3000 10T9L5EH8L1040508	TRUCK OSHKOSH T-1500 10T9L5BH0L1039549	TRUCK INTL STRUC PUMP 1HTLDTVN4HHA23940	TRUCK CF P-19 VIN# 1079L5BE2T1028595	TRUCK CF P-19 VIN# 1079L5BE2T1028595	TRUCK P/U FORD 450 VIN: 1FDXW47F1YED455 Y3	TRK OSHKOSH STI 3000S 10TDKAK105S085601 Y7	DODGE, 2007, VIN 1D8HD38P67F514888 Y1	SWEEPER LENNANI 0000-2010/ TDLICK INTL DLIMD 1 UTSD72NIOM10325261		TRIICK FORD F150 15TRF10/18KR0066		DODGE 2008 1D8HB38N38E118052	WAGON STA CHEV 1G1BL82P3SR133674	WAGON SPORT CHEV 4WD 1GNDT13W3S2242505	WAGON SPORT CHEV 4WD 1GNDT13W4S2242044	FORD TAURUS 4DR WHITE 1FALP52UXVA281883	SEDAN CHEV LUMINA 2G1WL52K7W9188651	VAN CHEV ASTRO 1GNDM19W6WB130629	TRUCK P/U GMC 1GTEC14T7YZ147835	VAN FORD E150 SN 1FTRE1426YHA14184	TRUCK, FORD 150 VIN:IFTEF15Z1TLB95465	SEDAN DODGE STRATUS 1B3EL46T86N21542	TRUCK FORD F-150 CREW 4X4 1FTPW14V86KD9	TRUCK, FORD F150, 1FTRF12V18KB29966	TRUCK W/DUMPBED GAS UTILITY S/NRG044746	TRUCK P/U CHEV 1GCHK33J9GS166518	TRUCK MSTR CHEV 1GBM7H1J4PJ108956	TRUCK CHEVY 1TON CAB 1GBHC34K9PE197016	TRUCK CHAS CAB 1GBGK24KORE304417	TRUCK P/U CHEV 1GCEC14Z3SZ131272	TRUCK YUKON GMC 1GKEK13R5XJ791571	TRUCK P/U CHEV 1GBGK24R4YF486578	TRUCK P/U FORD F350 SN1FDWF36S51EA30310	TRUCK P/U FORD 450 VIN: 1FDXW47F1YED455	TRUCK, FORD P/U-F250 3/4 TON IFTSX21Y95	TRUCK P/U FORD F250 1FTNF20Y45EB36549	TRUCK FORD F350 1FDWF36Y97EA52338
YEAR		1987			1990	1990	1988	1986	1986	2002	2006	2008	1001	1000	8006	2008	2008	1994	1996	1996	1997	1998	1998	2000	2000	2005	2007	2007	2008	2005	1987	1994	1994	1994	1994	1999	2001	2001	2002	2006	2006	2007
Vehicle Type (Light, under 8500 lbs, Medium, 8500-15000, Heavy 15000+)	Fire Fire	Fire	Fire	Fire	Fire	Fire	Fire	Fire	Fire	Fire	Fire	Fire	Неауу	Heavy	l icht		Light	Liaht	Light	Light	Light	Light	Light	Light	Light	Light	Light	Light	Light	Medium	Medium	Medium	Medium	Medium	Medium	Medium	Medium	Medium	Medium	Medium	Medium	Medium
Sub unit (VIP, OMF, etc.)	180 180	180	180	180	180	180	180	180	180	180	180	995	0/1	170	005	005	995	170	180	170	170	170	170	170	111	170	115	101	995	170	180	170	170	170	170	170	170	170	180	170	170	170
Location (Island)	12 4 0 4 12 4 0 4	12 4 0 4	12 4 0 4	12 4 0 4	12 4 0 4	12 4 0 4	12 4 0 4	12 4 0 4	12 4 0 4	12 4 0 4	12 4 0 4	12 4 0 4	12 4 0 4				12 4 0 4	12 4 0 4	12 4 0 4	12 4 0 4	12 4 0 4	12 4 0 4	12 4 0 4	12 4 0 4	12 4 0 4	57 4 0 4	12 4 0 4	12 4 0 4	12 4 0 4	12 4 0 4	12 4 0 4	12 4 0 4	12 4 0 4	12 4 0 4	12 4 0 4	12 4 0 4	12 4 0 4	12 4 0 4	12 4 0 4	12 4 0 4	12 4 0 4	12 4 0 4

A-25

HARBORS DIVISION / ACT 96 / FY 07

DC	DEPT	DC	DEPT
A	Agriculture	M8	DAGS - PW
В	Business & Economic Development	M9	DAGS - ADMIN
С	DLNR - State Parks	MF	DAGS - ICSD
C1	DLNR - Admin, LM, HP	N	Attorney General
C2	DLNR - DOFAW	0	Dept. of Budget & Finance
С3	DLNR - DOCARE	Р	Dept. of Human Resources
C4	DLNR - Water Resource	Q	Governor's Office
C5	DLNR - Aquatic Resources	R	Dept. of Commerce & Consumer Affairs
C6	DOBOR	s	Lieutenant Governor
D	DOT - Admin	Т	Dept. of Taxation
D1	DOT - Air - Oahu	V1	Dept. of Public Safety
D2	DOT - Air - Maui	z	Office of Hawaiian Affairs
D3	DOT - Air - Hawaii (Hilo)		
D4	DOT - Air - Kauai	CLASS CODE	VEHICLE DESCRIPTION
D5	DOT - Air - Maui (Molokai)	3110	Sedan, Coupe, Station wagon, SUV
D6	DOT - Air - Maui (Lanai)	3111	Van (passenger, cargo)
D7	DOT - Harbors	3113	Bus (0 - 30 passengers)
D8	DOT - Air - Keahole	3114	Bus (31 - 60 passengers)
DA	DOT - HWYS - Oahu	3115	Bus (over 60 passengers)
DB	DOT - HWYS - Maui	3120	Truck (0 - 10,000 GVW)
DC	DOT - HWYS - Hawaii	3121	Truck (10,000 - 20,000 GVW)
DD	DOT - HWYS - Kauai	3122	Truck (20,000 - 45,000 GVW)
DE	DOT - HWYS - Maui (Molokai)	3123	Truck (over 45,000 GVW)
DF	DOT - HWYS - Maui (Lanai)	3130	Trailer
E	Dept of Education	3140	Amublance (hospital)
E1	DOE - Drivers' Education	3141	Ambulance (rescue)
E2	HSPLS	3145	Fire appratus
F	University of Hawaii	3150	Tractor
F1	Research Corporation of University of Hawaii	3170	Misc.
G	Dept. of Defense		
н	Dept. of Health	ISLAND CODES	ISLAND
нн	Hawaii Health System Corporation	1	OAHU
I	Hawaiian Home Lands	2	MAUI
J	Judiciary	3	HAWAII
к	Dept. of Human Services	4	KAUAI
К1	нсрсн	5	MOLOKAI
L	Dept. of Labor and Industrial Relations	6	LANAI
м	DAGS - Surplus Property		
M1	DAGS - AM (Oahu)	 OWNER	
M2	DAGS - CSD (Oahu)	S - STATE	
М3	DAGS - Hawaii District	L - LEASED	
M4	DAGS - Stadium	O - OTHER	
M5	DAGS - Maui District		
M6	DAGS - Kauai District		
M7	DAGS - SFCA		

LIC. NO.	DESCRIPTION	N	Ж	Class	Island	Vehicle Acquisition Cost (\$)	EPA Rated Fuel Economy (MPG) (city/hwy)	Type of Fuel	Milage (Miles)	Fuel Consump tion (GAL)	Actual Fuel Economy (MPG)
SH 4070	P/U TRUCK CHEV FLEETSIDE	1GCCS14R9J2175844	88	Truck (0 - 10,000 GVW)	HAWAII	\$10,094	no listing	unl	1,272	101.15	12.58
SH 4076	P/U TRUCK 90 GMC	2GTDC14H4L1506485	06	Truck (0 - 10,000 GVW)	HAWAII	13,675	no listing	lnu	No Longer in u	se	
SH 4077	P/U TRUCK CHEVY	1GCDC13H4JE173023	88	Truck (0 - 10,000 GVW)	HAWAII	10,672	no listing	lun	No Longer in u	se	
SH 4078	P/U TRUCK 92 FORD F-150	2FTDF15N1NCA39867	92	Truck (0 - 10,000 GVW)	HAWAII	\$15,556	no listing	lun	561	92.61	6.06
SH 4955	TRUCK INT'L CRANE	D1225GGB13195	77	Truck (10,000 - 20,000 GVW)	HAWAII	\$72,959	no listing	diesel	No Longer in u	se	
SH 6901	P/U CHEV FLATBED	1GBG6H1P9RJ104067	94	Truck (20,000 - 45,000 GVW)	HAWAII	\$30,871	no listing	Inu	78	28.87	2.70
SH 7027	P/U TRUCK CHEV	1GCDC14H6RZ207273	94	Truck (0 - 10,000 GVW)	HAWAII	\$13,595	no listing	lun	1,720	194.94	8.82
SH 9716	SUV ISUZU MPVH	4S2DM58W0Y4331777	8	Truck (0 - 10,000 GVW)	HAWAII	\$22,362		lun	7,084	503.06	14.08
SH A865	P/U TRUCK 250 FORD F-250	1FTNW21L73ED60351	03	Truck (0 - 10,000 GVW)	HAWAII	\$24,673		Inu	3,871	350.03	11.06
SH B632	SUV FORD ESCAPE	1FMYU93135KC92881	05	Truck (0 - 10,000 GVW)	HAWAII	\$26,924		lun	8,056	518.33	15.54
SH C815	PRERUNNER TOYOTA	5TEJU62NX7Z408584	07	Truck (0 - 10,000 GVW)	HAWAII	\$25,099		lun	14,357	644.17	22.29
SH C893	P/U DODGE DAKOTA	1D7HE22K67S152786	07	Truck (0 - 10,000 GVW)	HAWAII	\$18,726		lun	2,344	175.79	13.33
A830	FORD P/U TRUCK	1FTYR10U41PA92546	01	Truck (0 -10,000 GVW)	KAUAI	\$15,375	21	lun	2,581.56	209.20	12.34
C294	TOYOTA TACOMA P/UP	5TENX22N66Z	90	Truck (0 -10,000 GVW)	KAUAI	\$17,682	19	lun	3,512.00	269.30	13.04
C901	TOYOTA HIGHLANDER H.BRID	JTEGW21A470015	07	SUV (0 - 10,000 GVW)	KAUAI	\$35,989	32	unl/Hybrid	516.00	30.50	16.92
SH 7091	TRUCK FORD STYLESIDE	1FTJW36H3REA44107	94	Truck (0 - 10,000 GVW)	KAUAI	\$29,036	13	GAS	2,518.00	489.10	5.15
SH 7094	TRUCK CHEV STYLESIDE	1GCCS19Z2R8199520	94	Truck (0 - 10,000 GVW)	KAUAI	\$16,249	19	GAS	No Longer in I	lse	#VALUE!
SH 8084	SUV CHEV BLAZER	1GNCS13W1S2243585	95	Truck (0 - 10,000 GVW)	KAUAI	\$22,769	17	GAS	4,194.00	292.70	14.33
SH 9245	P/U CHEV FLATBED	1GBHC34R7XF016843	66	Truck (0 - 10,000 GVW)	KAUAI	\$26,680	14	GAS	2,191.00	273.90	8.00
SH 9260	SUV CHEV BLAZER	1GNCS13W2XK159671	66	Truck (0 - 10,000 GVW)	KAUAI	\$32,019	16	GAS	3,046.00	272.00	11.20
SH 9261	P/U TRUCK CHEV	1GBGC24R1CF015029	66	Truck (0 - 10,000 GVW)	KAUAI	\$27,350	14	GAS	6,679.00	435.60	15.33
SH 9671	TRUCK CHEV	1GBGC24R2XF067253	66	Truck (0 - 10,000 GVW)	KAUAI	\$26,817	14	GAS	6,240.00	404.80	15.42
SH 9902	P/U TRUCK FORD	1FTYR10U41PA92546	01	Truck (0 - 10,000 GVW)	KAUAI	\$15,375	21	GAS	4,342.00	337.90	12.85
SH 4007	P/U TRUCK FORD	1FTEX15H8NKB27063	92	Truck (0 - 10,000 GVW)	MAUI	\$19,621	12/17	Gas	2,823.00	237.30	11.90
SH 4261	INTL STAKE	1HTLBD4K2EHA61438	84	Truck (10,000 - 20,000 GVW)	MAUI	\$20,661	N/A	Gas	1,366.00	304.94	4.48
SH 4265	P/U FORD	1FTEF15YXGPA10688	86	Truck (0 - 10,000 GVW)	MAUI	\$9,550	18/24	Gas		84.05	0.00
SH 4267	P/U TRUCK GMC SONOMA	1GTCT19Z9M8509359	91	Truck (0 - 10,000 GVW)	MAUI	\$17,405	18/24	Gas	1,215.00	139.68	8.70
SH 7090	SDN OLDS CUTLASS CRUISER	1G3AJ85M3R6428263	95	Sedan, Coupe, Station wagon, SUV	MAUI	\$14,765	19/29	Gas	5,763.00	337.69	17.07
SH 7596	TRUCK GMC	1GTFC24Z0SZ511129	95	Truck (0 - 10,000 GVW)	INAUI	\$20,182	16/21	Gas	2,901.00	353.98	8.20
SH 7597	TRUCK GMC	1GTEC14Z3SZ511132	95	Truck (0 - 10,000 GVW)	INAUI	\$15,954	16/21	Gas	8,633.00	655.54	13.17
SH 8408	P/U CHEV	1GCCS14XXVK115298	97	Truck (0 - 10,000 GVW)	MAUI	\$15,625	17/23	Gas	1,101.00	111.51	9.87
SH 8954	SUV CHEV BLAZER	1GNCS13W8W2228684	98	Truck (0 - 10,000 GVW)	MAUI	\$31,100	16/20	Gas		779.03	0.00
SH C447					MAUI				2,649.00	379.39	6.98
SH C611					MAUI				1,755.00	244.18	7.19

Actual Fuel Economy (MPG)	1.63	11.6	11.5	7.0	8.4	5.4			8.1	n/a	7.2	n/a	n/a	2.5		n/a		n/a	8.9	9.0	7.1	n/a	8.3	8.2	7.0	8.3		12.1	95.8	6.4	n/a	9.0	n/a	7.0
Fuel Consump tion (GAL)	671.50	89.3	91.9	576.0	63.3	104.8			259.1	63.6	196.3	82.3	5.9	115.6	-	5.2		652.2	378.8	176.2	50.9	143.8	470.0	526.7	704.9	195.2		72.6	43.8	911.6	228.7	245.3	48.1	115.7
Milage (Miles)	1,092.00	1037.5	1061.1	4045.0	533.0	566.0	vehicle was idle	vehicle was idle	2101.0	n/a	1408.0	n/a	n/a	289.0	vehicle was idle	n/a	vehicle was idle	odometer brokan	3374.5	1578.1	362.3	n/a	3912.0	4323.5	4958.0	1620.0	used by OCG	875.0	4199.4	5878.0	n/a	2197.0	n/a	809
Type of Fuel		unleaded	unleaded	unleaded	unleaded	unleaded	unleaded	unleaded	unleaded	diesel	nnleaded	unleaded	unleaded	unleaded	diesel	diesel	diesel	unleaded	unleaded	unleaded	unleaded	unleaded	unleaded	unleaded	unleaded	diesel	unleaded	unleaded	unleaded	unleaded	diesel	diesel	unleaded	unleaded
EPA Rated Fuel Economy (MPG) (city/hwy)		19/27	19/27	14/18	no listing	no listing	15/19	no listing	no listing	no listing	11/13	18/21	no listing	11/15	no listing	no listing	no listing	15/19	14/19	14/19	17/22	13/17	13/17	13/17	15/19	no listing	21/29	21/29	21/29	12/16	no listing	no listing	15/20	11/15
Vehicle Acquisition Cost (\$)		\$18,148	\$18,148	\$23,799	\$9,006	\$12,785	\$21,443	\$12,785	\$12,785	\$62,857	\$16,026	\$13,724	\$36,381	\$47,618	\$28,576	\$95,229	\$97,017	\$21,443	\$16,838	\$13,687	\$5,900	\$18,192	\$18,192	\$18,192	\$25,187	\$69,695	\$6,300	\$6,300	\$6,300	\$36,145	\$81,932	\$56,655	\$15,450	\$8,000
Island	MAUI	OAHU	OAHU	OAHU	OAHU	OAHU	OAHU	OAHU	OAHU	OAHU	OAHU	OAHU	OAHU	OAHU	OAHU	OAHU	OAHU	OAHU	OAHU	OAHU	OAHU	OAHU	OAHU	OAHU	OAHU	OAHU	OAHU	OAHU	OAHU	OAHU	OAHU	OAHU	OAHU	OAHU
Class		Sedan, Coupe, Station wagon, SUV	Sedan, Coupe, Station wagon, SUV	Van (passenger, cargo)	Truck (0 - 10,000 GVW)	Truck (over 45,000 GVW)	Truck (0 - 10,000 GVW)	Truck (0 - 10,000 GVW)	Truck (20,000 - 45,000 GVW)	Truck (10,000 - 20,000 GVW)	Truck (10,000 - 20,000 GVW)	Truck (20,000 - 45,000 GVW)	Truck (20,000 - 45,000 GVW)	Truck (0 - 10,000 GVW)	Truck (0 - 10,000 GVW)	Truck (0 - 10,000 GVW)	Van (passenger, cargo)	Truck (0 - 10,000 GVW)	Truck (20,000 - 45,000 GVW)	Sedan, Coupe, Station wagon, SUV	Sedan, Coupe, Station wagon, SUV	Sedan, Coupe, Station wagon, SUV	Truck (0 - 10,000 GVW)	Truck (20,000 - 45,000 GVW)	Van (passenger, cargo)	Truck (0 - 10,000 GVW)	Truck (0 - 10,000 GVW)							
YR		93	93	92	86	84	91	84	84	91	87	90	81	06	86	06	82	91	94	94	88	94	94	94	96	66	95	95	95	66	00	01	93	03
N S		1FACP57U5PA115878	1FACP57U7PA115879	1GCGG35K4N7101482	1GTDC14N0GF706090	1GBGC24M4EJ146308	1GDGR33KXMF701050	1GBGC24M8EJ146277	1GBGC24MXEJ146300	1HTSHNHROMH354189	1B6KD2455HS446454	1GTDC14ZXLZ544867	1HTAA17B2BHB25932	1FDMF60KXLVA39248	1GDJ7D1F8GV505206	1HTSDZ3R9LH280523	1HTAA19580HAZ1017	1GDGR33K9MF701055	1GCFC24HXRE121390	1GCDG15H0RF115936	1GNDM15Z9JB193006	1GBGC24K9RE303358	1GBGC24K5RE306404	1GBGC24K5RE304040	1GBHC33R6TF004193	1HTSCABL4XH683803	1G1LD55M9SY273574	1G1LD55M3SY267785	1G1LD55M2SY272900	1GBHC33J6XF003240	1NPGN08X2Y0527575	1GCHG39F911133293	1GCFC24K5PE221052	2FTPF17Z63CA80280
DESCRIPTION	Sweeper	SDN FORD TAURUS	SDN FORD TAURUS	VAN CHEV	P/U GMC	P/U CHEV	P/U TRUCK 91 GMC	P/U CHEV	P/U CHEV	TRUCK INT'L FTBD	P/U DODGE D250	TRUCK GMC TC 10703	TRUCK AERIAL LADDER INTL	TRUCK FORD F600 W/LIFT	P/U GMC FLATBED	TRUCK INT'L 4900 W/BM & JIB	TRUCK INTL AERIAL LIFT	TRUCK FLATBED GMC	TRUCK CHEV FLTSIDE	VAN CHEV	VAN CHEV ASTRO	TRUCK CHEV CAB	TRUCK CHEV CAB	TRUCK CHEV CAB	P/U CHEV	INT'L MSTR KOMATSU PAY LDR	SDN CHEV CORSICA	SDN CHEV CORSICA	SDN CHEV CORSICA	P/UP CHEV	TRUCK PETERBILT	VAN CARGO CHEV	TRUCK CHEV	TRUCK FORD
LIC. NO.	Sweeper	SH 4004	SH 4005	SH 4055	SH 4239	SH 4244	SH 4246	SH 4253	SH 4254	SH 4262	SH 4269	SH 4270	SH 4325	SH 4326	SH 4330	SH 4331	SH 5483	SH 5485	SH 6822	SH 6823	SH 7031	SH 7244	SH 7245	SH 7246	SH 8249	SH 9328	SH 9419	SH 9420	SH 9421	SH 9650	SH 9739	SH 9899	SH D103	SH D272

HARBORS DIVISION ACT 96 Vehicle Baseline Data FY 2007 (July 2007 - June 2008)

Actual Fuel Economy (MPG)	5.7
Fuel Consump tion (GAL)	59.3
Milage (Miles)	340.4
Type of Fuel	unleaded
EPA Rated Fuel Economy (MPG) (city/hwy)	11/15
Vehicle Acquisition Cost (\$)	\$8,000
Island	OAHU
Class	Truck (0 - 10,000 GVW)
YR	03
NIX	2FTPF17Z73CA80286
DESCRIPTION	TRUCK FORD
LIC. NO.	SH D273

HARBORS DIVISION ACT 96 Vehicle Baseline Data FY 2007 (July 2007 - June 2008)

PERIOD: 07/01/07 THRU 06/30/08

EOUIPMENT DESCRIPTION...... SERIAL NUMBER..... GVW FUEL..... COST DATE 91812 512 96 GMC SAFART VAN 1GKDM15Z18B542846 Û GASOLINE .00 91812 579 00 CHVY ASTRO VAN 1GNDM19W1YB181166 0 GASOLINE .00 98812 161 91 CHEVY 4WD BLAZER 1GNCT1827M0120050 GASOLINE ¢ 15,729.22 98812 165 92 FORD MP UH EXPLORER AUTO 1FMDU34X3NUC83665 ß GASOLINE 21,219.04 98812 170 92 FORD F150 PICKUP TRUCK 1FTDF15Y9NPA55985 0 GASOLINE 7,732.17 98812 171 92 FORD SEDAN TEMPO 1FAPP36X2NK126779 0 GASOLINE 6,142.87 98812 173 94 DODGE SHADOW SEDAN 1B3AP28D6RN219792 0 GASOLINE 11.356.68 98812 94 PONTIAC GRAND PRIX SEDAN 174 1G2WJ52M6RF258025 o GASOLINE 14,077.82 98812 175 94 GMC PICKUP TRUCK 1/2 TON 1GTDC14H8RZ523807 ô GASOLINE 15,198.00 98812 176 94 GMC CREWCAB PICKUP TRUCK 1GTGC33K5RJ727985 ٥ GASOLINE 20,500.07 98812 177 94 GMC CREWCAB PICKUP TRUCK 1GTGC33KXRJ728002 ٥ GASOLINE 20,942.77 98612 178 94 GMC CREWCAB PICKUP TRUCK 1GTGC33K1RJ738160 0 GASOLINE 20,942.77 98612 179 94 GMC CREWCAB PICKUP TRUCK 1GTGC33K5RJ73B341 0 GASOLINE 20.942.77 98612 180 95 FORD RANGER PICKUP TRUCK 1FTCR14X6SPA12888 0 GASOLINE 13,969.87 98812 181 95 FORD TAURUS 4DR SEDAN 1FALP52U9SG207105 0 GASOLINE 14,761.76 98812 182 95 FORD CREWCAB PICKUP TRUCK 1FTJW35H7SEA34977 Ô GASOLINE 22,239.65 98812 183 95 FORD CREWCAB PICKUP TRUCK 1FTJW35H5SEA34976 0 GASOLINE 22,239.65 98812 184 95 FORD CREWCAB PICKUP TRUCK 1FTJW35H3SEA34975 Ó GASOLINE 22.239.65 98812 186 96 CUSHMAN REFUSE 1CUMH3273TL001507 0 GASOLINE 18,899.45 98812 187 96 CUSHMAN REFUSE 1CUMH3275TL001508 0 GASOLINE 18,881.23 98812 188 97 CHEVROLET CREWCAB PICKUP 1GCGC33F5VF027514 £ GASOLINE 27,633.18 98812 189 97 CHEVROLET CREWCAB PICKUP 1GCGC33F3VF027964 0 GASOLINE 27.633.18 98812 190 97 CHEVROLET PICKUP TRUCK 1GCCS14X3V8170091 0 GASOLINE 14,961,94 98812 192 98 CHEVROLET S10 PICKUP TRUCK 1GCCS14X4W8236486 0 GASOLINE 16,455.00 98812 98 CHEVROLET S10 PICKUP TRUCK 193 1GCCS14X2W8237569 0 GASOLINE 16,455.00 98812 194 98 CHEVROLET CAVALIER 4-DOOR SEDAN 1G1JC5244W7335716 0 GASOLINE 13,922.79 98812 198 99 FORD RANGE PICKUP TRUCK 1FTYR10V7XUB36560 4,740 GASOLINE 16,989,48 98812 199 99 FORD RANGER PICKUP TRUCK 1FTYR10V9XID36561 4,740 GASOLINE 16,997.81 98812 200 99 CUSHMAN 3-WHEEL REFUSE VEHICLE 1CHMH3274XL002508 2,315 GASOLINE 21,800.00 98812 201 00 CHEV PICKUP TRUCK 1GCCS19W4Y8243134 3,620 GASOLINE 20.277.73 00 CHEV MALIBU 4-DR SEDAN 98812 202 1G1ND52J6Y6258330 3,080 GASOLINE 17,648.48 98812 203 00 CHEV MALIBU 4-DR SEDAN 1G1ND52J2Y6257434 3.080 GASOLINE 17,648.48 98812 204 01 FORD EXP SPTS UTIL 4WHDR 1 FMRU16W51LB44913 5,250 GASOLINE 32,588.84 98812 205 02 CHEVY MALIBU 4-DR SEDAN 1G1ND52J72M722857 0 GASOLINE 16,784.16 98812 206 03 CHEVY SILVERADO PICKUP TRUCK 1GCEC14V53Z327146 GASOLINE 0 21,170.00 98812 218 05 FORD PICKUP TRUCK 1FTSF20P66ED83910 0 GASOLINE 38,148,25 98612 219 06 FORD RANGER PICKUP TRUCK 1FTYR44U77PA10586 ø GASOLINE 19,809.33 98612 222 07 FORD F150 PU TRUCK 1FTRF12V97KD42209 û GASOLINE 25,183.04 98812 223 02 CHEVROLET PASSENGER VAN 1GARG39R121196067 0 GASOLINE 8,300.00 98812 224 08 FORD EXPEDITION 1FMFK16578LA08809 ٥ GASOLINE 40.872.52 98812 225 08 FORD F150 PICKUP 1FTPX12V08KC83976 0 GASOLINE 34,430.89 98812 226 08 FORD F150 PICK UP 1FTPX12V28KC83977 GASOLINE n 34,430.89 98812 227 08 FORD F150 PICK UP 1FTPX12V48KC83978 0 GASOLINE 34,430.90 98842 94 KELLY-CRESWELL STRIPPING MACHINE (B4-2T) 127 7319 GASOLINE 0 19,552.45 98842 133 99 MB STRIPING MACHINE 3-1276 GASOLINE 0 18,934,28 98842 01 CUB CADET 60" ROT MOWER 134 46190280001 GASOLINE Ô. 7,573.91 98842 135 01 CUB CADET 60" ROT MOWER 4G190Z80021 0 GASOLINE 7,573.91 98842 142 05 YAMAHA 6KW GENERATOR 253259 ۵ GASOLINE 2,905.19 98842 143 06 MULTIQUIP 9.7KW W/WHEELS GENERATOR 5556151 0 GASOLINE 4.494.76 98842 146 06 CEMENT MIXER MO WHITEMAN AI752965 GASOLINE 3.619.77 98852 122 **94 HYSTER H45XM FORKLIFT** D177807282R GASOLINE n 18,935.48

A-30

----ACQUISITION-----

HIGHWAYS DIVISION - OAHU DISTRICT E/U ALTERNATIVE FUEL REPORT BY FUEL TYPE 9/10/08

PERIOD: 07/01/07 THRU 06/30/08

ų

	-	

			· ·				
							TOTON
EQUIPN	ient	DESCRIPTION	SERIAL NUMBER	GVW	FUEL	COST	DATE
91812	343	86 TRUCK: FORD RANGER PICKUP	1FTBR10T1GUC95174	0	GASOLINE	8 AŬA 65	07/01/86
91812	348	87 VAN: FORD B150 CLUBWAGON	1FMEELTHXWRB41247	Ő	GAGOLINE	16 226 00	07/01/80
91812	368	88 TRUCK: CHEVY FLEETSIDE PICKUP	160603481.75208184	Ň	CASOLINE	34 070 60	00/04/00
91812	371	86 TRUCK: CHEVY PICKUP	100000341100200104	Ň	CACOLINE CACOLINE	14,070.02	09/04/88
91812	376	89 TRUCK: DODGE D350 RAM RLATBED	106D014H)00119400	Ň	CASOLINE CASOLINE	3,925.00	08/01/88
91812	378	87 SEDAN, CHEV CAVALIER	101 1063 10821 40643		GROOT TWD	25,402.60	03/01/89
91812	381	89 TRICK, CMC S15 DICKID	102003025207020000	0	GASOBINE GASOBINE	5,850.00	04/01/89
91812	385	AS WACON, TOYOTA LAND CONTREP CTATION			GASOLINE GASOLINE	11,487,87	06/01/89
91812	389	90 VAN, DODGE DIEG DAM		0	GASOLINE	12,069.79	09/01/89
91812	391	67 PEDAN. CHEV LI	204K03528UK/669/4	U	GASODINE	19,333.07	07/01/90
91812	393	90 GEDAN, CUEV LIMINA	2G1WL54TXL9235401	U	GASOLINE	12,367.83	07/23/90
91912	396	91 TRUCH, CHEV DIARD	2G1W154T2L9239149	U Â	GASOLINE	12,367.83	07/01/90
91812	399	A PRICE, FORR FISS OR BUCK BIGAR BIGAR	IGNUSTBZ/MOI20262	0	GASOLINE	13,936.96	07/01/90
91912	402	91 TRUCK: FORD F350 CREWCAB FICKUP	2FTOW35RXECA97059	0	GASOLINE	18,518.81	07/01/90
91812	402	A TRUCK, CORD FIC DICKUP	10005192388133650	0	GASOLINE	11,871.03	07/01/90
91912	407	SS INCCK: FORD FISO PICKUP	1FIDEL5XLJPA33828	0	GASOLINE	5,500.00	08/01/90
91812	400	14 VANA DODOR DAM 250	IFAPP36XXJK107875	0	GASOLINE	3,000.00	08/01/90
91912	410	SE VAN. OURIN (200	284RB21H8EK265362	0	GASOLINE	1,300.00	
91812	418	9] TRUCK, CUEV C 10 DICKUM	10820250377167870	0	GASOLINE	1,300.00	
91917	400	AT TRUCK: CHEV BALL PICKUP	100001926/2301283	U	GASOLINE	12,175.00	
91812	425	91 CEDIN, DOUGE DVALCENT	1GNGV26K7MF138634	U	GASOLINE	19,589.00	07/22/91
91917	476	91 NAN, CHENRY ACTED	1B3XC46R/MD259412	0	GASOLINE	12,434.48	09/01/91
91919	433	92 WHAT CHEVI ASING DIGHTE	1GNDM1926MB212142	0	GASOLINE	17,437.00	10/14/91
01012	434	92 TRUCK: SUNUMA SI92 PICKUP	IGICS192XN8515479	0	GASOLINE	11,965.00	05/01/92
91010	430	92 TRUCKI CHEV SUBURBAN 4 WD W/AIR	IGNGKZ6KXNJ334168	0	GASOLINE	21,875.07	07/01/92
01010	430	92 TRUCK: CHEV SUBDREAN 4 WD W/AIR	1GNGK26K5NJ334854	0	GASOLINE	21,875.07	07/01/92
01010	430	92 TRUCKY CHEV SUBURBAN 4 WD W/AIR	1GNGK26K3NJ335839	0	GASOLINE	21,875.07	07/01/92
01012	430	92 SUBURBAN: CHEV 4W/D W/AIR	1GNGK26K1NJ340876	0	GASOLINE	21,875.07	07/01/92
21012	440	92 SUBURBAN: CHEV 4W/D W/AIR	1GNGK26KINJ341476	0	GASOLINE	21,875.07	07/01/92
21014 01017	447	92 SUBURBANI CHEV 4W/D W/AIR	1GNGK26K9NJ341354	0	GASOLINE	21,875.07	07/01/92
21012	44.5	92 VAN: CHEVY SPORT	2GNDG15K7N4164196	0	GASOLINE	16,602.59	08/01/92
91012	445	92 TRUCK: CHEV CREWCAB PICKUP	1GCGC33K6NJ350383	0	GASOLINE	19,962.98	12/01/92
91812	449	93 TRUCK: FORD FISU PICKUP	1FTDF15Y2PLA66160	Q	GASOLINE	10,365.84	05/18/93
21010 21017	450	93 TRUCK: FORD F150 FICKUP	1FTDF15Y4PLA66161	0	GASOLINE	10,369.84	04/01/93
21217	451	93 TRUCK: FORD F150 PICKUP	1FTDF15Y6PLA66162	0	GASOLINE	10,369.84	04/01/93
91914 91914	452	93 TRUCK: FORD F150 PICKUP	1FTDF15Y8PLA66163	0	GASOLINE	10,369.84	04/01/93
91817	453	93 TRUCK: FORD F15 PICKUP	1FTDF15Y5PLA66167	0	GASOLINE	10,853.44	04/01/93
AT815	454	93 VAN: FORD AEROSTAR	1FMCA11U1PZB27844	0	GASOLINE	13,801.84	05/01/93
9181S	455	93 VAN: FORD AEROSTAR	1FMCA11U5PZB27846	0	GASOLINE	14,351.00	05/01/93
91812	458	93 STATION WAGON: FORD TAURUS	1FACP57UXPG245846	0	GASOLINE	13,488.80	05/01/93
91812	459	93 SEDAN: CHEVROLET LUMINA 4 DR	2G1WL54T3P9206344	0	GASOLINE	11,890.70	05/01/93
91812	460	93 SEDAN: CHEVROLET LUMINA 4DR	2G1WL54T1P9204866	0	GASOLINE	11,890.70	05/01/93
91812	461	93 SEDAN: CHEVROLET LUMINA 4 DR	2G1WL54T8P9205142	0	GASOLINE	11,890.70	05/01/93
91812	462	93 SEDAN: CHEVROLET LUMINA 4 DR	2G1WL54T0P9208147	0	GASOLINE	11,916.75	05/01/93
91812	468	93 TRUCK: FORD RANGER PICKUP	1FTCR10X7PUC48318	0	GASOL INE	11,059.36	07/01/93
91812	472	93 TRUCK: FORD RANGER PICKUP	1FTCR10A1PUC48312	0	GASOLINE	9,393.28	05/01/93
91812	475	93 TRUCK: FORD RANGER PICKUP	1FTCR10A7PUC48315	0	GASOLINE	9,393.28	05/01/93
91812	477	93 SEDAN: CHEV CAVALIER 4DSD	1G1JC5443P7315150	0	GASOLINE	8,888.00	08/01/93
91812	480	93 SEDAN, CHEV CAVALIER 4DSD	1G1JC5441P7317057	Û	GASOLINE	8,888.00	08/01/93
91812	481	93 SEDAN: CHEV CAVALIER 4DSD	1G1JC5443F7318341	0	GASOLINE	8,888.00	08/01/93
91812	482	93 SEDAN: CHEV CAVALIER 4DSD	1G1JC544XP7319129	0	GASOLINE	9,663.00	08/01/93
91812	483	93 SEDAN: CHEV CAVALIER 4DSD	1G1JC5445P7319183	0	GASOLINE	8,888.00	08/01/93

PERIOD: 07/01/07 THRU 05/30/08

-

.

.

							ACQ015171	NO
EQUIP	ient	DE	SCRIPTION	SERIAL NUMBER	GVW	FUBL	COST	DATE
98862	103	85	STOW CONCRETE MIXER	850275	0	GASOLINE	2.597.92	
98862	109	00	SPRAYER JOHN BEAN CHEMICAL	DM10E300FE	0	GASOLINE	12,780.43	
98862	110	00	SPRAYER JOHN BEAN CHEMICAL	JB02338NJ	0	GASOLINE	12,780,43	
98862	121	02	MOTOR OUTBOARD NISSAN 18-HP	07262	0	GASOLINE	2,694.78	
98862	124	06	HOT WATER PRESSURE WASHER, SHARK 3500	S0106-117175	0	GASOLINE	4,999,97	
							FUEL TYPE TOTAL	
91822	204	94	INTERNATIONAL DUMP TRUCK	1HTGGA2T6RH571307	0	DIESEL	.00	
91822	208	94	TRUCK: INT'L UNDERBRIDGE REACHALL CRANE	lhtgga6T2RH548438	77,000	DIESEL	428,900.34	
91822	218	95	INTERNATIONAL DUMP TRUCK	1RTGGAUT6SH641780	0	DIESEL	.00	
95822	158	03	PETERBILT TRUCK W/ASPEN AERIAL BODY	1NPZX0TX53D714739	0	DIESEL	607,831.53	
98812	172	94	CHEVY FLEETSIDE 4WD PICKUP TRUCK	1GCHK34F4RE122826	0	DIESEL	27,914.67	
98812	191	97	97 CHEVY CHASSIS CAB P/U	1GBGC24F5VE242247	8,600	DIESEL	27,027.95	
98812	195	99	CHEVROLET VAN (PASSENGER)	1GAHG39F7X1037504	0	DIESEL	32,261.00	
98812	196	99	CHEVROLET SUBURBAN WAGON	3GNFK16R0XG153863	0	DIESEL	31,391.42	
98812	197	99	CHEVROLET VAN (CARGO EXT.)	1GCHG39FXX1039531	0	DIESEL	51,983.00	
98812	207	04	DODGE CREWCAB PU TRUCK	3D7MA48C14G117954	0	DIESEL	33,560.20	
98812	208	04	DODGE CREWCAB PU TRUCK	3D7MA48C34G117955	0	DIESEL	33,560.20	
98812	209	04	FORD EXCURSION 4X4 SUV	1FMSU41P04ED77684	0	DIESEL	40,372.64	
98812	210	04	FORD F350 CREWCAB PU TRUCK	1FTWW32P74ED29680	0	DIESEL	33,129.15	
98812	211	04	FORD F350 CREWCAB PU TRUCK	1FTWW3ZP44ED29684	0	DIESEL	33,129,15	
98812	212	04	STAR TIGER 3-WHEEL UTILITY DUMP TRUCK	LSCAA10D53A038841	0	DIESEL	29,982.10	
98812	213	05	FORD TAURUS 4-DR SEDAN	1FAFP53225A303675	0	DIESEL	16.343.64	
98812	214	05	FORD RANGER P/U TRUCK	1FTYR44U05PA81710	0	DIESEL	21,345,00	
9881.2	215	06	FORD F350 CREW CAB P/U	1FTWW30P56EA03205	0	DIESEL	33,836,52	
98812	216	05	FORD F350 CREW CAB P/U	1FTWW30P36EA03204	0	DIESEL	33.836.52	
98812	217	05	FORD F350 CREW CAB P/U	1FTWN30P16EA03203	0	DIESEL	33,836,52	
98812	220	06	FORD F350 PICKUP TRUCK	1FTWW30P26ED69946	0	DIESEL	38,601.87	
98812	221	06	FORD F350 PICKUP TRUCK	1FTWW30946ED69933	0	DIESEL	38,601.87	
98822	117	90	INTERNATIONAL DUMP TRUCK 2-1/2 C.Y.	1HTSAZPLOLH229524	0	DIESEL	39.666.89	
98822	118	91,	INTERNATIONAL 7 C.Y. DUMP	1HTSDZ7N3MH326954	0	DIESEL	43.635.69	
98822	119	91	INTERNATIONAL 7 C.Y. DUMP	1HTSDPBR2NH405984	0	DIESEL	47 843 74	
98822	120	91	INTERNATIONAL FLATBED DUMP W/CRANE	1HTGELGR9MH395506	ő	DIESEL	103 972 68	
98822	121	92	CHEVY FLATBED STAKE TRUCK	1GBJC34.76NE208530	ů	DIESEL	25 442 36	
98822	122	92	CHEVY FLATBED STAKE TRUCK	108,7034,720207896	0	DIESEI.	20,342.30	
98822	1.23	92	INTERNATIONAL 2000 GAL TANK TRUCK	1HTGEA2R4PH471407	0	DIEGEL	77 921 50	
98822	124	94	INTERNATIONAL TRUCK TRACTOR 9300	24558868287087207	0	DIPORT.	77,031.00	
98822	125	94	GMC FLATBED STAKE TRUCK	1GDKC34R0B.1510450	0	DINGED DIFERT.	77,303.44	
98822	126	99	INTL DIMP TRUCK 2.50 CV	1HTSCABLSYNGAOOA1	ő	DIBODU	6/,4/4.04 50 600 33	
98822	127	99	INTL W/ AFRIAL BICKET TRUCK	1 UTGDAADAYUGAGGGG	0	DIESEL	153 707 63	
98822	128	00	TATTEDNATIONAL CAR & CUASEI	1VTCDADDAVUD1040C	0	DIROPT	154,767.63	
98822	.129	02	CMC DING TDUCK	100020100021502510	0	DINGNI	78,971.04	
99822	130	02	CMC DIME TRUCK	1000200201002018	U 20 000	DIESEL	84,154.60	
98822	121	64 64		1002/110920515444	35,000	DIESEL	100,376.85	
00022	130	0 I 0 I	EORD REAMBED ON CHARLENGE ON THE MOULT	INTWANDR240091021	20,200	DIESEL	114,895.88	
98822	133	03	TOND FIRIDAD CAD/CHASDIS STAKE TRUCK	LPDAF46F63ED88427	U	DIESES	41,328,90	
00000	133	43 02	TRUCK FRIERDIET DURF	ZNPLHZ8X45M856U61	U	DIESEL	102,608.29	
20022	134	02	ONG REARDER TRUCK	IGUESCI265P528165	0	DIESEL	57,894.68	
20022	732	09 Ar	ONG ADDITOR TRUCK	1GDE5C1225F528454	0	DIESEL	57,894.68	
20022	130	V0	GRU SERVICE TRUCK	1GDM7C1326F429665	0	DIESEL	198,643.00	
26832	137	07	PETERBILT TRUCK TRACTOR	1XPFD40X47D673734	0	DIESEL	134,190,05	
96842	114	81	INTERNATIONAL TRACTOR W/BROOM	CHAB006811	0	DIESEL	19,418.49	

A-32

----ACQUISITION-----

PERIOD: 07/01/07 THRU 06/30/08

----ACQUISITION-----EOUIPMENT DESCRIPTION..... SERIAL NUMBER..... GVW PUEL..... COST DATE 96842 116 83 MILLER ARC WELD MACHINE W/TRAILER JD688685 Û DIESEL 5.460.00 98842 125 92 CASE UTILITY TRACTOR W/MOWER JJE0025508 DIESEL 0 3.544.91 98842 126 93 KUBOTA W/SIDE AND REAR FLAIL 20353 DIESEL 0 35,344.88 98842 128 93 FORD TRACTOR W/ROTARY MOWER BD61180 a DIESEL 32,200.73 98842 129 93 CASE TRACTOR W/SIDE AND REAR FLAIL JJE0032530 ۵ DIESEL 42,244.92 98642 130 94 MILLER ARC WELDING GENERATOR TRAILER MTD 700619 0 DIESEL 9,533.35 98842 131 96 CASE TRACTOR W/ SIDE & REAR FLAIL MOWER JJE0924453 0 DIESEL 59.697.54 98842 132 98 CASE TRACTOR MOWER W/SIDE REAR FLAIL JJE0929986 0 DIESEL 61.410.02 96842 136 02 TRACTOR CASE W/FLAIL MOWER JJE1018545 DIESEL 0 64,062.09 98842 137 04 KUBOTA 4X4 W/REAR MOWER TRACTOR 55707 û DIESEL. 45,040.85 98842 138 04 KUBOTA W/REAR MOWER TRACTOR 11066 0 DIESEL 45,327.82 98842 139 04 CUB CADET 54" MOWER 2H253Z80004 0 DIESEL 7,300.00 98842 140 05 NEW HOLLAND UTIL TRCTR W/REAR ROT MOWER HJS035642 0 DIESEL 44.791.38 98842 141 05 NEW HOLLAND UTIL TRCTR W/REAR ROT MOWER HJS035653 DIESEL ٥ 44.791.38 98842 144 06 MILLER WELDER GENERATOR, TRLR MOUNTED ð DIESEL 36,830.00 98842 147 94 JOHN DEERE 6200 TRACTOR W/FLAIL MOWER 0 DIESEL. .00 98842 148 07 UTILITY TRACTOR WITH SIDE AND REAR MOWER 877101851 DIESEL 86,301.53 0 07 UTILITY TRACTOR WITH SIDE AND REAR MOWER 96842 149 HJT104966 0 DIESEL 86,301.53 98852 88 MOTOR GRADER - CAT 120G 119 087V08556 DIESEL 90.732.07 Û 98852 120 90 CASE 621 FRONT END LOADER JAK0021304 DIESEL 0 67,588.76 98852 121 91 CASE LOADER/BACKHOE 4X4 JJG0071106 ۵ DIESEL 61,913.74 98852 123 94 CAT 214 ROLLER VIBRATORY 09XK00136 ۵ DIESEL 29,744.00 98852 124 94 JOHNSON SWEEPER 1JSVM4H21RC041016 DIESEL 0 139,500.45 98852 125 96 LOADER/BACKHOE JOHN DEERE 310D T0310DB824852 0 DIESEL 60,033.00 96852 126 98 PORTABLE AIR COMPRESSOR W/TRAILER 289280UDI219 DIESEL 0 14.000.94 98852 127 85 INTL SWR HYPRO JET VACUUM TRUCK 1HTLDTVR4FHA62673 0 DIESEL 108.923.36 00 CHAMPION MOTOR GRADER 98852 128 30826 ۵ DIESEL 111,250.35 98852 130 02 CASE 521D LOADER JEE0134193 0 DIESEL 99,061.86 98852 04 BOMAG BW120 VIBRATORY ROLLER 131 101170519763 0 DIESEL 32.291.46 98852 132 04 LEEBOY 685 COMPACT GRADER 68541778 0 DIESEL 94.009.82 98652 133 04 GMC SWEEPER 1GDM7F1395F500635 0 DIESEL 211,069.46 98852 134 05 CASE LOADER/BACKHOE N5C386017 ß DIESEL 87,499.44 98852 05 KOMATSU WHEEL LOADER 135 65912 0 DIESEL 96.353.55 98852 136 07 PETERBILT HYDRO JET VACUUM TRUCK 1NPAL00X37D673739 0 DIESEL 326.148.08 98852 137 06 GMC SWEEPER TRUCK 1GDM7F1386F431454 DIESEL 0 219.109.96 98852 138 06 HAMM VIBRATORY ROLLER 1395680 DIESEL. .00 0 98852 139 07 EXCAVATOR TAKEUCHI TB175 17516092 0 DIESEL 106,978.78 98862 108 99 MORBARK BRUSH CHIPPER TRLR MNTD 03327 0 DIESEL 30,103.97 98862 116 04 LIGHT TOWER ALLMAND 1380PR003 a DIESEL 8,700.00 98862 04 LIGHT TOWER ALLMAND 117 1381PR003 0 DIESEL 8.700.00 98862 118 06 LIGHT TOWER ALLMAND P0505090008 DIESEI. 0 10.863.64 98862 119 06 LIGHT TOWER ALLMAND P0506140011 ٥ DIESEL. 10,863.65 FUEL TYPE TOTAL 98842 145 06 TRANTEX THERMOPLASTIC STRIPING MACHINE K8548 · PROPANE 37,988.00 0 FUEL TYPE TOTAL 98812 991 07 MISCELLANEOUS DIESEL FUEL CHARGE 0 NOT APPLICABLE .00 98812 07 MISCELLANEOUS REGULAR GAS CHARGE 992 0 NOT APPLICABLE .00 98822 991 07 MISCELLANEOUS DIESEL FUEL CHARGE 0 NOT APPLICABLE .00 98822 992 07 MISCELLANEOUS REGULAR GAS CHARGE 0 NOT APPLICABLE .00

A-33

PERIOD: 07/01/07 THRU 06/30/08

. ...

、

						ACQUISI	FION
EQUIP	ENT	DESCRIPTION	SERIAL NUMBER	GVW	FUBL	COST	DATE
98832	107	91 LOAD KING LONGOY TRATLER	1847.4822082116761	0		20 604 24	
98832	108	94 ZIEMAN MSTL TRAILER	12011251492017736	Д	NOT APPLICABLE	29,394.74	
98832	110	96 SHOPBUILT WEIGHT SCALE TRAILER	18980161328364445	0	NOT AFFIITCABLE	16 110 00	
98832	111	99 TRAIL KING DUMP TRAILER	17/77302328085139	0 0	NOT APPLICABLE	10,110,93	
98832	112	02 HOMADE UTILITY TRATLER	UNKNOWN A7KXSKM	1 200	NOT ADDITCADE	40,045.00	
98832	113	04 ZIEMAN TRAILER	18CE21E2248P25185	2 340	NOT APPLICABLE	6 724 22	
98832	114	04 ZIEMAN TRAILER	18CE20E2748P25371	4,510	NOT ADDLICADLE	0 054 11	
98832	115	04 BRIMAR DUMP TRAILER	43200302750039431	0	NOT ADDLICADLE	0,034.TT	
98832	116	03 CHILTON UTILITY TRAILER	14000081230001097	0	NOT AFFLICADLE	3 500 00	
98832	117	05 CARNAI GALV BOAT TRAILER	5FMBT2J1151507317	ő	NOT APPLICABLE	1 015 60	
98832	11.8	07 TRAIL KING TRAILER	1TK-T047207M077305	17 180	NOT APPLICABLE	1,013.02 12	
98832	119	06 ECONOLINE TRAILER	42ETDBN4263001090	T1, T00	NOT APPLICADES	12,302.15	
98832	120	07 TRAILER ZIEMAN UTILITY	12072192472227732	0	NOT ADDLICABLE	0 142 69	
98832	121	07 TRAILER ZIEMAN UTILITY	12072182172827666	0	NOT APPLICABLE	3,143.05 11 956 AA	
98832	122	07 TRAILER ZIEMAN RAMP	12CE34E2X78E27771	ů n	NOT APPLICABLE	22 031 10	
98832	991	07 MISCELLANEOUS DIESEL FUEL CHARGE	1000040/01/01/1/12	ő	NOT APPDICABLE	ZZ,V3I.10	
98832	992	07 MISCELLANEOUS REGULAR GAS CHARGE		0	NOT APPLICABLE	.00	
98842	991	07 MISCELLANBOUS DIESEL FUEL CHARGE		ů n	NOT ADDITCABLE	.00	
98842	992	07 MISCELLANEOUS REGULAR GAS CHARGE		ů	NOT APPLICABLE	.00	
98852	115	02 MESSAGE BOARD, TRAILER MOUNTED	4GM2M151321408505	ů.	NOT ADDLICABLE	24 921 28	
98852	116	87 JD 544D FRONT END LOADER	513368	0	NOT APPLICABLE	58.289.01	
98852	117	87 S4-6B TANDEM ROLLER	R25002U061757	0	NOT ADDLICARLE	30,505.01	
98852	129	00 COMPRESSOR NAPA 80 GAL	075438	0	NOT APPLICABLE	2 029.74	
98852	991	07 MISCELLANEOUS DIESEL FUEL CHARGE		ů	NOT APPLICABLE	1,0 <u>2,01</u> ,4	
98852	992	07 MISCELLANEOUS REGULAR GAS CHARGE		Ô	NOT APPLICABLE	.00	
98862	111	01 ITCP SPEED CONTROL MONITOR TRLR MTD		0	NOT APPLICABLE	11.999.00	
98862	112	01 ITCP SPEED CONTROL MONITOR TRLR MTD		0	NOT APPLICABLE	11 999 00	
98862	113	02 MESSAGE BOARD, TRAILER MOUNTED	4GM2M151X21408503	Õ	NOT APPLICABLE	24,921,28	
98862	114	02 MESSAGE BOARD, TRAILER MOUNTED	4GN2M151121408504	0	NOT APPLICABLE	24 921 28	
98862	115	02 MESSAGE BOARD, TRAILER MOUNTED	4GM2M151321408505	ů.	NOT APPLICABLE	24 921 28	
98862	120	04 BOAT KLAMATH 14' ALUMINUM	KLOBO308L304	0	NOT APPLICABLE	4.576.02	
98862	122	06 MESSAGE BOARD, TRAILER MOUNTED 3027	~	0	NOT APPLICABLE	24 753.00	
98862	123	06 MESSAGE BOARD, TRAILER MOUNTED 3028		0	NOT APPLICABLE	24,753.00	
98862	125	06 PORTABLE TRAFFIC SIGNAL-TRAILER MOUNTED	10981A0A361496011	0	NOT APPLICABLE	33 834.51	
98862	991	07 MISCELLANEOUS DIESEL FUEL CHARGE		0	NOT APPLICABLE	.00	
98862	992	07 MISCELLANEOUS REGUALE GAS CHARGE		0	NOT APPLICABLE	.00	

FUEL TYPE TOTAL .

----ACOUISITION -----EOUIPMENT DESCRIPTION...... SERIAL NUMBER...... GVW FUEL........ COST DATE 93812 102 01 FORD F-150 P/UP TRUCK 1FTRX17W31KB07259 GASOLINE 0 25,271.17 08/10/01 93812 94 TRUCK, GMC 3/4 TON PICK UP 103 1GTGC24K4RE510557 0 GASOLINE 23,500.00 94812 110 99 FORD F-150 PICKUP TRUCK 1FTRF17WOXKB67057 GASOLINE 06/25/99 ۵ 21,261.96 94812 112 04 JEEP LIBERTY 4 DR SUV 1J4GL48K34W285101 GASOLINE ٥ 23,480.06 94832 103 80 TRAILER, TANK SPRAYER ETNYRE BIT M3269 M-3269 GASOLINE ٥ 9,591.00 08/23/80 94842 101 75 WELDER, AIRCO ARC GAS RF838958 ٥ GASOLINE 2,340.00 09/20/75 94862 104 02 300 EL CHEMICAL SPRAYER TRATLER 4PBTC191113000078 û GASOLINE 9.028.87 07/02/01 95812 157 91 TRUCK, CUSHMAN REFUSE DUMP UT 1CUMH327011000718 0 GASOLINE 14,063.10 01/07/91 95812 159 91 SEDAN, CHEV SPECTRUM 4DR J81RG5172J7542099 û GASOLINE 01/14/91 3.400.00 95812 168 93 SEDAN, CHEV LUMINA 4 DR 2G1WL54T6N9253039 0 GASOLINE 15,853.56 07/01/93 95812 178 94 WAGON, JEEP CHEROKEE UTILITY 4X4 1J4FJ28S5RL169641 ۵ GASOLINE 18,594.35 02/18/94 95812 179 94 WAGON, CHER SP 1J4FJ28S7RL169642 ٥ GASOLINE 18,594.35 02/18/94 95812 182 95 WAGON, CHEVROLET SUBURBAN 4X4 1GNGK26K4RJ395960 ٥ GASOLINE 25,260.57 07/15/94 95 TRUCK, CHEVROLET S-10 1/2TON PICKUP 95812 184 1GCCS14Z6S8254239 0 GASOLINE 12,715.13 08/09/95 95812 188 98 CHEV PICK-UP EXT. CAB 1FCEC19M7WE252235 0 GASOLINE 22,469.00 08/24/98 95812 191 98 CHEV S-10 PICK UP TRUCK 1GCCS14X6WK251560 GASOLUNE ٥ 16,101.98 10/22/98 95812 192 98 CHEV S-10 PICK-UP TRUCK 1GCCS14X9WK253125 ۵ GASOLINE 16,101.98 10/22/98 95812 193 98 CHEV S-10 PICK-UP TRUCK 1GCCS14X1WK253197 o GASOLINE 16,101.98 10/22/98 95812 194 98 CHEV S-10 PICK-UP TRUCK 11GCCS14XWK254302 ø GASOLINE 16,101.98 10/22/98 95812 197 99 CHEV SILVERADO 1/2 TON PICK UP 1GCEC14T9XZ121977 ٥ GASOLINE 22/22/99 20,148.00 95812 198 99 CHEV SILVERADO 1/2 TON PICK UP 1GCEC14T2XZ124137 GASOLINE 0 20.148.00 02/22/99 95812 199 99 JEEP CHEROKEE 4 DR S/W 1J4FT2850XL578122 GASOLINE ø 23,977,97 04/08/99 95812 200 99 JEEP CHEROKEE 4 DR S/W 1J4FT28S9XL578121 0 GASOLINE 23.977.97 04/08/99 95812 201 99 JEEP CHEROKEE 2 DOOR S/W 1J4FT27S2XL578124 0 GASOLINE 23,487.35 04/08/99 95812 202 99 FORD RANGER PICKUP TRUCK 1FTYR10V0XUB36559 GASOLINE Ô. 16,497.81 06/15/99 95812 203 99 FORD F-150 PICKUP TRUCK 1FTRF17W9XKB67056 0 GASOLINE 21,261.96 06/21/99 95812 205 99 CHEV P/UP W/EXT, CAB 1GCCS19X9X8198182 ۵ GASOLINE 19,739.46 07/29/99 95812 207 00 CHEV 1/2 TON PICKUP TRUCK 1GCEC14V5YZ295015 GASOL INE 0 19,955.44 07/21/00 95812 208 00 CHEV 1/2 TON PICKUP TRUCK 1GCEC14V7YZ296649 ۵ GASOL INE 19,955.42 07/21/00 95812 209 00 CHEV 1/2 TON PICKUP TRUCK 1GCEC14V8YZ295171 0 **GASOLINE** 19 955 42 07/21/00 95812 211 02 FORD RANGER 4X4 P/UP TRUCK 1FTYR45E52PB00478 0 GASOLINE 23,114.75 09/20/02 95812 214 05 FORD F150 FLEETSIDE 1FTRF12W85NA04806 0 GASOLINE 20.828.39 95812 215 04 FORD RANGER S/C P/UP 4 DR 1FTZR44V24PB43451 GASOLINE 0 22.744.55 95812 06 DODGE PICK-UP TRUCK 216 1D7HA18N56J201603 0 GASOLINE 27,936.28 95812 217 06 FORD ESCAPE MPVH 1FMYU96H96KD56285 ۵ GASOLINE 34,826.58 95812 220 08 FORD F-150 PICK-UP TRUCK 1FTRF14W87LD42210 ٥ GASOLINE 26,720.53 95812 221 08 FORD ESCAPE HYBRID SUV 4WD 1FMCU59H68KB80071 GASOLINE 0 34,251.87 95812 222 08 FORD ESCAPE HYBRID SUV 4WD 1FMCU59H48KB80070 GASOLINE ٥ 34.251.86 95812 224 08 CHEV MALIBU 4 DR SEDAN 1G12G57B78F165648 GASOLINE 3.440 26,235.00 95822 120 81 TRUCK, INT 1724 CREWCAB STAKE DUMP 1HTAA17BOBHB33852 0 GASOLINE 22,944.36 03/23/82 95832 107 94 TRAILER, ZIEMAN TILT 1ZCT31A21P2P17416 0 GASOLINE 15,890.07 08/27/93 95832 114 06 TRAIL KING TRAILER 1TKJ047227M077306 0 GASOLINE 69,894.15 95842 146 94 STRIPER, KELLY-CRESSWELL W/TRACTION BDC 7440 GASOLINE 01/07/94 Ô 11,190.00 95842 150 96 ERADICATOR ROBIN 1098158 GASOLINE Ô. 7,209.00 11/08/96 95842 96 GENERATOR HONDA 151 5/37583 GASOLINE 11/08/96 0 2,945.00 95842 157 99 MD DOUBLE GUN STRIPER MACHINE W/TRAILER 14DAC0819XC000230 Ô GASOLINE 13,667.00 08/26/99 95842 182 06 MCGREGGOR HERBICIDE SPAYER TRAILER RS335708 ۵ GASOLINE 25,812.33 06 MCGREGGOR HERBICIDE SPRAYER, SKID MNTD 95842 183 R\$300702 ۵ GASOLINE 21.979.03 95862 113 02 300 EL CHEMICAL SPRAYER, TRAILER 4PBTC191X13000080 n. GASOLINE 9,028.87 09/25/01 95862 02 300 EL CHEMICAL SPRAYER, TRAILER 114 4PBTC191313000079 ٥ GASOLINE 9,028.88 09/25/01 95862 115 02 STONE CONCRETE MIXER W/TRAILER 092002139 GASOLINE 5,208.30 06/28/02

A-35

PERIOD: 07/01/07 THRU 06/30/08

 2	÷

.

PERIOD: 07/01/07 THRU 06/30/08

•							ACQUISI	TION
EQUIPM	ENT	DE	SCRIPTION	SERIAL NUMBER	GVW	FUEL	COST	DATE
							FUEL TYPE TOTA	ΥĽ.
93822	104	97	INTERN'L 2 1/2 CY DUMP TRK(TRANS FM MAUI	1HTSCABL1VH453066	0	DIESEL	46.598.86	03/24/97
93842	106	06	CASE IN TRACTOR MOWER	HFJ038654	0	DIESEL	52,708,00	00/44/27
93842	107	06	CASE IN TRACTOR MOWER	HFJ038662	0	DIESEL	46,353,87	
93852	102	00	JCB WHEEL LOADER W/FRONT BUCKET & DOZER	SLP41100YE0527687	0	DIESEL	70.520.38	09/25/00
94812	109	99	CHEV CREWCAB 1 TON PICKUP	1GCGC33F9XF061524	0	DIESEL	30,390,43	05/27/99
94812	111	. 92	CHEVY 3/4 TON PICK-UP TRUCK	1GEGK24J9NE194985	0	DIESEL	27.871.81	11/06/92
94822	108	94	TRUCK, GMC KODIAK 7CY	1GBP7HIJ3RJ104008	0	DIESEL	45,411,69	02/11/94
94822	109	95	TRUCK, INT'L 4700 2 1/2CY DUMP	1HTSCABL2SH658116	ō	DIESEL	37,476,51	01/27/95
94822	110	97	INTERNATIONAL 2 1/2 CY DUMP TRUCK	1HTSCABL5VH453068	ō	DIRSEL	46,807,19	03/24/97
94822	112	04	TRUCK, PETERBUILT WATER TANKER	1NPLHZ8X95M852586	0	DIESEL	119.255.32	
94822	113	06	PETERBUILT DUMP TRUCK	2NPLHZ8X37M673737	· 0	DIRSEL	119.353.59	
94842	108	93	TRACTOR. KUBOTA W/FLAIL MOWER	12944	Ő	DIRSEL	18.499.60	03/19/93
94842	109	95	TRACTOR, JOHN DEERE W/EXT. FLAIL MOWER	157-1709-23666	0	DIESEL	45.458.25	08/16/95
94842	110	96	MORBARK TRAILER MOUNTED BRUSH CHIPPER	2771	õ	DIESEL	24.656.33	12/20/96
94842	111	01	KUBOTA TRACTOR MOWER W/FLAIL MOWER	10775	ő	DIESEL	74 873 29	11/01/01
94852	106	90	LOADER. BACKHOE JOHN DEERE W/BKT	T0310CF768260	ő	DIESEL	36 180 00	01/01/90
94852	107	90	ROLLER, TANDEM CAT	061-200285	0	DIFERT.	21 012 01	05/01/90
94852	108	93	LOADER, KOMATSU FRONT END	12944	ő	DIRSEL	70 065 85	02/10/93
94852	109	94	GRADER, CHAMPION 710A	157-1709-23666	ő	DIRSEL	93 941 97	04/05/94
94852	110	92	SULLAIR AIR COMPRESSOR	004-137714	ő	DIESEL	14 104 09	05/01/02
94852	111	88	FORKLIFT CAT VS0D	3EC03766	0	DIESEL	4 592 20	09/12/02
94852	112	06	GMC FORWARD CAB W/SWERPER	1GDM7E1306E431691	33 000	DIESEL	1,303.30 220 350 DE	05/12/00
94852	113	07	NH FRT LOADER/BACKHOE W/REAR BUCKET	031065320	55,000	DIBOBL DIPONT.	20,335,50	
94852	105	8 A	FLOODLIGHT WINCO MOUNT-ON TRATIER	44160709	0	DIRGEN	70,720.00	07/00/00
95812	180	94	TRUCE OFFICE ITOM	100000	0	DIRGEN	208.33	07/09/88
95812	185	07	CUEV VAN	1/3DDC340325223142	0	DIBSEL	34,994.00	03/31/94
95812	187	07	CHEV CREWCAR D/HD 3 TOM N/HMI DODY	100000000000000000000000000000000000000	0	DIRGEN	24,480.78	06/18/9/
05012	180	50	CHEV CREMCAS FYOF I TON WYOFE BODI	IGBHC33F6VF02/336	U	DIESEL	28,988.36	06/18/97
95812	190	60	CHEV I TON CREMCAD FICK-UP INUCK	1000033FAWF081269	0	DIESEL	29,191.50	08/24/9/
95812	105	00	CHEVI ICA CREMCAB FICK-OF IROCK	1GCGC33F2WF062545	0	DIESEL	29,191.50	08/24/97
05910	106	22	CHEVROLEI VAN WYBUCKEI HIGHHIFI	100H039F3X1038172	0	DIESEL	51,462,00	01/27/99
05910	204	. 00	CHEV I TOW FLATBED /HIDRAUDIC DIFTGATE	IGBHC34F2XF008932	0	DIESEL	31,769.59	01/26/99
00012	204	22	CHEV 444 PICKUP TRUCK	IGCEK14V6X2158439	0	DIESEL	23,973.80	06/22/99
05010	200	22	GUE IROUR W/OILLITI BODI & CRANE	IGDHKJ4F7XF082678	0	DIESEL	49,346.96	02/07/00
05012	210	00	CHEV FLATBED I TON TRUCK	IGBHCJ4F9YF509589	0	DIESEL	33,853.95	10/23/00
22012	212	· 04	FORD F-350 UTILITY BOX W/RACK TRUCK	1FDSF30F82EC92916	0	DIESEL	34,644.66	02/28/03
05010	213	05	FORD BACONSION SUV 444	1FMSU41P55EA25207	Ů	DIESEL	40,944.37	
05012	210	00	FORD F350 CREWCAB FASETSIDE P-UP TRUCK	1FTWW30P56ED69925	0	DIESEL	37,455.00	
2201Z	213	00	FORD F350 CREWCAB FLEETSIDE P-OP TRUCK	TELMM30D00ED69928	0	DIESEL	37,455.00	
22017	243	08	FORD F-350 FLEETSIDE PICK-UP	1FTWW30R981C60405	10,800	DIESEL	42,466.95	
22044	143	64	TRUCK, FORD AERIAL PLATFORM	1FDXK74N0EVA05017	D	DIESEL	72,845.71	05/22/84
95822	133	93	TRUCK, INT L 4700 STAKE DUMP	1HTSCPHL5PHA70644	D	DIESEL	42,318,47	09/17/92
22822	130	93	TRUCK, INT DUMP 7CY	1HTSDPCR6PH469513	0	DIESEL	46,157.69	11/24/92
95822	137	93	TRUCK, INT DUMP /CY	1HTSDPCR8PH469514	0	DIESEL	46,157.69	11/24/92
22822	132	94	TRUCK, CHEVROLET 7CY DUMP	1GB97H1J1RJ103701	0	DIESEL	45,203.27	03/25/94
95822	141 140	94	TRUCK, INT'L CREWCAB FLATBED	1HTSCACL2RH571311	0	DIESEL	46,504.96	05/11/94
95822 00005	142	94	TRUCK, INT'L CREWCAB FLATBED	1HTSCACL4RH571312	0	DIESEL	46,504.96	05/11/94
95822	143	95	TANKER, GMC 2,000 GAL WT	1GDP7H1J8RJ512351	0	DIESEL	65,910.40	01/12/95
95822	144	95	TANKER, GMC 2,000 GAL WT	lGDP7H1J5RJ512338	0	DIESEL	65,910.40	01/12/95
95822	148	97	INTERNATIONAL 2 1/2 CY DUMP TRUCK	1HTSCABL3VH453067	0	DIESEL	46,598.86	03/24/97

.

							ACOUIS	TION
EÕAIBW	ENT	DE	SCRIPTION	SERIAL NUMBER	GVW	FUEL	COST	DATE
95822	149	98	INTIL CRENCAB W/STAKE BODY AND DUMP	KTSCANL7WHA96619	0	DIROPI.	66 760 0 7	10/12/07
95822	150	98	INTERNATIONAL 7CY DIMP TRUCK	1HTSDADROVH496619	, v	DIRGEL	65 674 04	10/17/97
95822	151	98	INTERNATIONAL 7CY DUMP TRUCK	1HTSDADR6XH648999	Ň	DIBOMI DIRGEL	55 740 77	11/24/09
95822	152	98	INTERNATIONAL 2 1/2 CY DUMP TRUCK	INTSCABLEXHEA9040	ů	DIESEI.	51 106 70	11/24/98
95822	153	99	INTERNATIONAL 2 1/2 CY DUMP TRUCK	1HTSCAAN3XH212101	ő	DIESEL	61.829.30	09/25/99
95822	154	99	INTERNATIONAL 2.000 GALS WATER TANK TRX	1HTSDADR8YH212155	Ň	DIESEL	109 561 57	10/01/00
95822	155	99	INT TRUCK W/BOOM CRANE	HTGEATR2XH212154	ů N	DIESEL	108 308 67	10/01/00
95822	156	00	GMC W/DUMP CHIP BODY	1002781067.1519587	ň	DIESEL	144 454 49	02/21/01
95822	157	94	TRUCK, INT'L 4700 2 1/2 CY DUMP	1HTSCABLXSH571306	0	DIESEL	35 600 7/	05/21/01
95822	158	03	PETERBILT TRUCK W/ASPEN AERIAL BODY	1NPZX0TX530714739	0	DIESEL	607 831 53	12/16/02
95822	159	02	CHEVROLET HD FLATBED W/TAILGATE	3GBKC34F52M116623	15 000	DIESEL	38 060 00	04/21/02
95822	160	02	CHEVROLET HD FLATBED W/TAILGATE	3G8KC34F52M116749	15,000	DIRSRI.	38 860 00	04/21/03
95822	161	91	MACK DUMP TRUCK 10 C. YD.	1M2AY80C5MM005596	56.540	DIESEL	69 349 13	01/07/91
95822	162	91	MACK DUMP TRUCK 10 C. YD.	1M2AY80C7MM005597	00,010	DIESEL	69 348 14	01/07/91
95822	163	04	PETERBUILT 7CY YD DUMP BODY TRUCK	2NPNHZAXX4MA16624	ő	DIESEL.	99 432 24	01/16/04
95822	164	96	TRUCK GMC FB (TOW TRUCK)	1GDM7H1J8RJ502423	32.000	DIESEL	80,861,00	01/07/96
95822	165	06	PETERBUILT MASTER TRUCK TRACTOR	1XPFD40X67D673735	60.320	DIESEL	136 681 05	01/07/90
95822	166	08	GMC TRUCK W/AERIAL AND UTILITY BODY	1GDE5C1988F400866	00,000	DIESEL	144 503 64	
95842	145	95	WELDER, MILLER ON TRAILER	KE700622	Ď	DIESEL	9 513 26	49/19/94
95842	147	95	TRACTOR, JD W/FLAIL MOWER	LV5300D331852	ů	DIESEL	33,905,23	03/17/95
95842	148	97	MORBARK CHIPPER	2770	Ő	DIESEL	24 656 33	12/20/97
95842	149	97	MORBARK CHIPPERS	2772	n	DIRSEL	24,050,55	12/20/97
95842	154	98	KUBOTA TRACTOR W/REAR FLAIL MOWER	30371	ů	DIRGRI.	78 056 41	00/06/00
95842	160	99	KUBOTA TRACTOR MOWER W/CAB	10564	ů	DIESEL	35 029 10	13/30/99
95842	161	99	KUBOTA TRACTOR MOWER W/CAB	10562	ů N	DIESEL	60 899 68	01/30/99
95842	162	00	KUBOTA TRACTOR W/BOMFORD FLAIMMOWER	10712	Ň	DIESEL	65 204 45	01/30/00
95842	163	01	KUBOTA TRACTOR W/FLAIL MOWER	10776	Ň	DIESEL	A1 416 79	10/31/01
95842	164	01	KUBOTA TRACTOR W/FLAIL MOWER	10777	· ň	DIESEL	A1 A16 78	10/31/01
95842	165	01	CASE TRACTOR MOWER/SICKLE BAR	3.181.01.8544	٥. ٥	DIESEL	41,410.70 61 978 11	10/02/01
95842	168	02	CASE TRACTOR, SIDE MT. REAR FLAIL MOWER	JJE1020834	۵.	DIESEL	68 967 89	11/22/01
95842	169	02	CASE TRACTOR, SIDE MT, REAR FLAIL MOWER	JJE1020914	Ň	DTESEL	60 957 89	11/22/02
95842	170	02	CASE TRACTOR W/FRONT SWEEPER	JUE1020832	٥ ٨	DIESEL	34 114 27	11/22/02
95842	175	03	ALLMAND NITE-LITE PRO	1315 PRO 03	ň	DIVER.	7 960 16	11/06/02
95842	176	03	KUBOTA TRACTOR MOWER W/REAR FLAIL INTT	11076	Ň	DIRSEL	26 122 00	11/03/03
95842	177	03	KUBOTA TRACTOR MOWER W/REAR FLATI, INIT	31078	0	DIRSEL	27 622 10	01/13/04
95842	180	06	FORD NEW HOLLAND TRACTOR MOWER	HJS062649	0	DIESEL	57,033.10 68 749 55	01/13/04
95842	181	06	CASE TRACTOR MOWER W/CAB	HE1038649	ň	DIFEFT.	AA 270 55	
95852	112	81	GRADER. GALION MOTOR A-500 ARTICULATING	GE09544	· 0	DIESSD DIESSD	44,270.35 BO 477 DD	00/26/00
95852	121	90	LOADER/BACKHOE 310C JD W/BKT	T0310CF768297	. 0	DIBBEL	36 186 60	00/20/00
95852	122	90	COMPRESSOR, SHULAIR PORTABLE AIR	004104924	d d	DIBSED	11 016 61	01/0//30
95852	124	93	LOADER, KOMATSII FRONT END	12942	a a	DINGEN DIRGEN	11,030.01	07/00/30
95852	125	93	LOADER KOMATSII FRONT END	10042.	0	DIBOBU	70,005.85	02/10/93
95852	126	93	GRADER, CHANDION MOTOR 710A	167164673437	v 0	DIEGEL	70,065.85	02/10/93
95852	127	93	GRADER CHAMPION 7103 MOTOR	1201242233424	0	DIRORI	96,243.02	01/07/94
95852	128	94	GPADER, CHAMDION 710A MOTOR	367171032623	U C	DIRORI	20,443.04	01/07/94
95852	129	97	FORD/FLOIN SWREDED A MULTER	10000010100007	U A	DIEGEN	75,4/8.42	04/05/94
95852	130	47 47	CASE LOADED / BACKHOF SHD M / BY WOMDANNO	TEDVIGTOTAN ATAD81	0	DIRGEL	145,546.69	TO/TT/20
95852	131	40	LODDED ERONT END KONNTCH	200257	U	DIROT	76,434.93	04/21/98
95852	132	00	NEW HOLSAND BACKHOP/LOADED W/BAMARD	2100237	U C	DIDODI	91,780.41	09/29/98
95852	133	00 00	AND THICK SCHWADZE STOPPET SUCEPED	10009010103613643	U C	DIFER	77,842.07	01/16/01
95852	134	02	KOMATCH FORTIER	1002/010120313843	U C	D15350 D19357	173,680.16	12/10/02
2002	734	0.3	NORMIDO EVRNDIEI	394437A	U	DIESEL	21,145.70	11/19/03

----ACQUISITION-----

HIGHWAYS - MAUI DISTRICT OFFICE E/U ALTERNATIVE FUEL REPORT BY FUEL TYPE 9/10/08

ς. 5

PERIOD: 07/01/07 THRU 06/30/08

-v.

HIGHWAYS - MAUI DISTRICT OFFICE E/U ALTERNATIVE FUEL REPORT BY FUEL TYPE 9/10/08

PERIOD: 07/01/07 THRU 06/30/08

							ACQUISI	(TION
EQUIPM	ENT	DE	SCRIPTION	SERIAL NUMBER	GV₩	FUEL	COST	DATE
05050	3.90							
22624	135 176	04	CASE WREEL LOADER	JER0135991	0	DIESEL	86,874.44	07/13/04
22824 85854	136	04	CASE ROLLER DV202	000000234	0	DIESEL	34,525.82	07/13/04
95054	137	00	GMC FORWARD CAS W/SWEEPER	1GDM7F1336F432110	33,000	DIESEL	219,109.95	
92824	138	06	PETERBUILT CAE CHASSIS W/VACUUM	INPAL00X17D673738	66,000	DIESEL	326,148.08	
72022	T#0	07	NH FRT LOADER/BACKHOE W/REAR BUCKET	031065319	0	DIESEL	70,720.00	-
•							FUEL TYPE TOTA	<u>.</u>
95812	225	08	FORD F250 PICKUP K/CAB	1FTNX20548EC60408	0	PROPANE/GAS	42.978.92	
			, - ··		•	, ••••-	FUEL TYPE TOTA	λ Τ ι
95842	152	96	VACCUM NILFISK GS/83	2100W	0	ELECTRIC	4,923.00	11/08/96
95842	155	98	AMERICAN ELECTRIC SIGN WITH TRAILER	1A9MS1517TA378127	0	ELECTRIC	32,925.89	09/04/98
95842	156	98	AMERICAN ELECTRIC SIGN WITH TRAILER	1A9MS1519TA378128	0	ELECTRIC	32,925.89	09/04/98
95842	1.58	99	ALLMAND ECLIPSE ARROW BOARDS	99078407	0	ELECTRIC	6,483.21	08/27/99
95842	159	99	ALLMAND ECLIPSE ARROW BOARDS	9907B408	0	ELECTRIC	6,483.21	08/27/99
95842	166	02	SPEED CONTROL MONITOR W/TRAILER	40XK111S72A020005	2,000	ELECTRIC	11,999.00	06/19/02
95842	167	02	SPEED CONTROL MONITOR W/TRAILER	40XK111S92A020006	2,000	ELECTRIC	11,999.00	06/19/02
95842	171	02	ADDCO MID-SIZE MESSAGE BOARD-TRLR MTD	520280602	0	ELECTRIC	16,100.00	01/08/03
95842	172	02	ADDCO MID-SIZE MESSAGE BOARD-TRLR MTD	520270602	0	ELECTRIC	16,100.00	01/24/03
95842	173	02	ADDCO FULL SIZE MESSAGE BOARD- TRLR MTD	537603	0	ELECTRIC	25,300.00	01/24/03
95842	174	02	ADDCO FULL SIZE MESSAGE BOARD-TRLR MTD	537604	0	ELECTRIC	25,300.00	01/24/03
95842	178	96	ADDCO FULL SIZE MESSAGE BOARD	DH1000SN584985	3,700	ELECTRIC	37,000.00	
95842	179	98	AMERICAN SIGN SRS MESSAGE BOARD	1A9MS1515TA378126	2,950	ELECTRIC	32,920.00	
							FUEL TYPE TOTA	L
91832	127	00	ZIEMAN TRAILER (BORROW'G FROM HNL)	1ZC729B25PZP17467	0	NOT APPLICABLE	.00	
94832	104	90	TRAILER, ZIEMAN TILT BED	1ZCT18E19LZP15973	0	NOT APPLICABLE	6,765.84	07/23/90
94832	105	93	TRAILER, TRAIL KING TILT	1TKC02422NM071620	0	NOT APPLICABLE	16,256.30	12/29/92
94832	106	06	TRAILER, LANDSCAPE UTILITY (MOLOKAI)		880	NOT APPLICABLE	3,541.68	
95832	109	96	TRAILER SCALE	1S9EC1615TH364446	0	NOT APPLICABLE	17,014.47	09/03/97
95832	110	99	TRAILER CHILTON	1FDAC0819XC000230	0	NOT APPLICABLE	13,667.00	12/17/99
95832	112	03	ZIEMAN FLATBED TILT TRAILOR	1ZCE18S203ZP24731	0	NOT APPLICABLE	7,291.62	11/05/03
95832	113 .	04	ZIEMAN TILT TRAILER	1ZCT20B213ZP24741	0	NOT APPLICABLE	6,817.67	07/13/04
95832	115	07	ZIEMAN FLATBED TILT TRAILER (BACON)	1ZCT21E2X7ZP27665	2,940	NOT APPLICABLE	11,856.00	
95842	184	08	SILENT MESSENGER BOARD	MB32248	0	NOT APPLICABLE	25,535.00	
							ערעיי עסעיי זעווע	νт.

FUEL TYPE TOTAL

.

DESCRIPTION...... SERIAL NUMBER.....

HIGHWAYS - HAWAII DISTRICT OFFICE E/U ALTERNATIVE FUEL REPORT BY FUEL TYPE 9/10/08

PERIOD: 07/01/07 THRU 06/30/08

Ľ, -7

EQUIPMENT

91812	384	89 VAN GMC RALLYSTX	1GKDG15H3K7515445	0		.00
91812	426	91 VAN CHEV ASTRO	1GNDM19Z6MB212142	0		.00
91812	435	92 TRUCK: CHEV SUBURBAN 4 WD W/AIR	1GNGK26KXNJ334168	0		21.875.07
91812	512	94 VAN GMC SAFARI	1GKDM15Z1RB542846	0		15.072.96
91812	649	05 FORD VAN	1FMNE31P65HA02084	0		.00
				-		FUEL TYPE TOTAL
96812	174	86 TRUCK CHEV 1/2 TON PICKUP		0	GASOLINE	.00
96812	175	86 TRUCK CHEV 1/2 TON PICKUP		0	GASOLINE	.00
96812	176	86 SEDAN CHEV CELEBRITY		0	GASOLINE	.00
96812	177	86 TRUCK FORD 1/2 TON PICKUP		0	GASOLINE	.00
96812	178	66 TRUCK FORD 1/2 TON PICKUP		0	GASOLINE	.00
96812	179	86 TRUCK FORD 1/2 TON PICKUP		0	GASOLINE	.00
96812	180	87 TRUCK CHEV 1/2 TON PICKUP		0	GASOLINE	.00
96812	181	87 TRUCK CHEV 1/2 TON PICKUP		ō	GASOLINE	.00
96812	182	87 TRUCK FORD 1/2 TON PICKUP F150		0	GASOLINE	.00
96812	183	87 TRUCK FORD PU F150	1FTDF15Y7HPA84B43	0	GASOLINE	10.617.67
96812	184	88 SEDAN FORD TAURUS 4 DOOR		0	GASOLINE	.00
96812	185	88 TRUCK CUSHMAN UTILITY		0	GASOLINE	. 00
96812	186	86 TRUCK CHEV CREW CAB PICKUP		0	GASOLINE	-00
96812	187	88 TRUCK CHEV CREW CAB PICKUP		0	GASOLINE	.00
96812	189	88 TRUCK CHEV CREW CAB PICKUP		ő	GASOLINE	00
96812	1.90	88 TRICK CHEV CREW CAB PICKUP		0	GASOLINE	00
96812	191	88 TRUCK CHEV CREW CAB PICKUP		0	GISOLINE	00
96812	192	89 TRUCK CHEV PICKUP		0	CASOLINE	.00
96812	193	89 WAGON CHEV BLAZED S-10		0	CASOLINE	.00
96812	194	89 WAGON CHEV BLAZER S-10		0	GASOLINE	.00
96812	195	89 TRICK CHEV BLADER B-10		0	CABOLINE CABOLINE	.00
96812	196	89 TRUCK CHEV CREW CAR DICKID		0	CASOLINE	.00
96812	197	89 TRUCK CHEV CREW CAR		0	GROOLING	.00
96812	201	90 WACON CHEV BLACER		0	GAGOLINS	.00
96812	203	91 TRUCK CUEV BLAZER		0	GASOLINE	.00
04012	203	DI WENCE CHEV PICKOF		0	GASOLINE	.00
06010	204	DO TRUCK CHEMAN INTITUY	•	Ű	GASOLINE	.00
00012	200	A1 WENGE ROOD DIGWID		. 0	GASOLINE	.00
00012	200	AL HENCE FORD FICKOP		Ų	GASOLINE	.00
20012	209	91 IROCK FORD PICKOP		0	GASOLINE	.00
90012	210	91 TRUCK FORD PICKUP		U	GASOLINS	.00
21000	211	AT TRUCK FORD PICKUP		U	GASOLINE	.00
20012	414	A TRUCK FORD PICKUP		0	GASOLINE	.00
90012	213	21 IROCK FORD PICKOP		U	GASOLINE	00
20812	214 217	91 WAGON CHEV BLAZER		0	GASOLINE	.00
96913	410	92 SEDAN FORD TAURUS 4 DOOR	•	U	GASOLINE	.00
96812	218	92 TRUCK FORD RANGER PICKUP		0	GASOLINE	.00
96812	219	52 WAGON CHEV BLAZEX S-10		0	GASOLINE	.00
96812	227	93 TRUCK CUSRMAN OTILITY 3-WHEEL		0	GASOLINE	.00
96813	228	93 TRUCK CUSHMAN UTILITY 3-WHEEL		0	GASOLINE	.00
96812	229	94 SEDAN PONITAC GRAND PRIX		0	GASOLINE	.00
96812	232	34 WAGON CHEV STATION SURBURBAN 3/4 TON 4X4		0	GASOLINE	.00
96812	233	95 TRUCK FORD PICKUP F150	2FTEF25N9SCA29958	0	GASOLINE	.00
96812	234	95 TRUCK FORD PICKUP F150	2FTEF15N0SCA29959	0	GASOLINE	00
96812	235	95 TRUCK FORD PICKUP F150	2FTEF15N7SCA29960	0	GASOLINE	.00

A-39

----ACQUISITION-----

DATE

COST

GVW FUEL....

EQUIP	1ENT	DESCRIPTION	SERIAL NUMBER	. GVW	FUEL	COST	DA
96812	236	95 TRUCK FORD PICKUP F150	2FTEF15N9SCA29961	. 0	GASOLINE	.00	
96812	237	95 TRUCK FORD PICKUP F150	2FTEF15N0SCA29962	0	GASOLINE	.00	
96812	238	95 WAGON JEEP SPORT UTILITY	1J4FT27S9SL642619	0	GASOLINE	17,581.31	
96812	239	95 WAGON JEEP SPORT UTILITY	1J4FT27S5SL642620	0	GASOLINE	17,281.30	
96812	240	95 TRUCK CHEV PICKUP 3/4 T	1GCFC24H8SZ199570	0	GASOLINE	21,968.41	
96812	241	95 TRUCK CHEV 3/4 T PICKUP	1GCFC24H3SZ199573	0	GASOLINE	21.968.41	
96812	242	91 VAN CHEV (FROM MVSO-OAHU 9181410)	1G8EG25N3F7167870	0	GASOLINE	.00	
96812	243	97 SEDAN CHEV CAVALIER	3G1JC5248VS850735	0	GASOLINE	.00	
96812	255	93 TRUCK FORD F350 PU CREW CAB	2FTJW36H5PCB01555	0	GASOLINE	12,725.35	
96812	256 .	93 TRUCK FORD PU CREW CAB	2FTJW36H9PCB01557	0	GASOLINE	12.725.36	
96812	257	98 TRUCK CHEV PICKUPS10 4X2 EXTENDED CAB	1GCCS19X7WK242357	0	GASOLINE	18,108,22	
96812	258	98 TRUCK CHEV PICKUP S10 4X2 EXTENDED CAB	1GCCS19X8WK241430	ō	GASOLINE	18.108.22	
96812	259	98 TRUCK CHEV PICKUP S10 4X2 EXTENDED CAB	1GCCS19XXWK241364	0	GASOLINE	18.108.21	
96812	260	98 TRUCK CHEV PICKUP S10 4X2 EXTENDED CAB	1GCCS19X4WK242171	0	GASOLINE	18.108.21	
96812	261	99 TRUCK CHEV 1/2 T PICKUP	1GCEC14VXXZ100931	0	GASOLINE	.00	
96812	262	99 TRUCK CHEV 1/2 T PICKUP	1GCEC14V9XZ100130	0	GASOLINE	.00	
96812	263	99 TRUCK CHEV 1/2 T PICKUP	1GCEC14V4XZ100181	ò	GASOLINE	.00	
96812	264	99 TRUCK CHEV 1/2 T PICKUP	1GCEC14V4XZ100505	0	GASOLINE	.00	
96812	267	99 WAGON SPORTS UTILITY JEE CHEROKEE	1J4FT28X2XL578123	0	GASOLINE	23.740.48	
96812	268	99 TRUCK CHEV PU EXT CAB S-10	1GCCS19X7X8174706	0	GASOLINE	.00	
96812	269	99 TRUCK CHEV PU EXT CAB S-10	1GCDT19X5X8175600	Ó	GASOLINE	.00	
96812	270	00 TRUCK PICKUP GMC EXT CAB 4 X4	1GTDT19W4Y8267130	0	GASOLINE	.00	
96812	271	00 TRUCK PICKUP GMC FULL SIZE 2 X 4 1/2 TON	1GTEC14V2YZ323322	0	GASOLINE	.00	
96812	272 ·	00 TRUCK PICKUP SILVERADO 1500	1GCEV14V7YZ293539	ō	GASOLINE	.00	
96812	274	01 TRUCKSTER CUSHMAN HAULSTER	1CHMH327XYL003003	0	GASOLINE	25,266,50	
96812	275	01 SEDAN FORD FOCUS 4 DR.	1FAFP33P11W270665	0	GASOLINE	.00	
96812	276	01 CUSHMAN 3 WHEEL TRUCKSTER	LM2056	0	GASOLINE	.00	
96812	277	01 CUSHMAN 3 WHEEL TRUCKSTER	LM2057	0	GASOLINE	.00	
96812	278	01 CUSHMAN 3 WHEEL TRUCKSTER	LM2058	o	GASOLINE	.00	
96812	279	01 TRUCK CHEV PU EXT CAB	1GCCS19W018212629	0	GASOLINE	20,679,17	
96812	280	01 WAGON STATION CHEV BLAZER 4 X 4	1GNDT13W41K225114	0	GASOLINE	27,946.25	
96812	281	01 WAGON STATION CHEV BLAZER 4 X 4	1GNDT13W61K228421	0	GASOLINE	24,946.25	
96812	282	01 TRUCK FORD PICKUP RANGER	1FTZR15E41PB43081	0	GASOLINE	.00	
96812	284	02 TRUCK PU FORD F-150XL SUPER CAB 4X2	1FTRX17W52NB19106	0	GASOLINE	23.684.70	
96812	285	02 WAGON STATION FORD EXCURSION XLT 4 X 4	1FMSU41F92EC53990	0	GASOLINE	38,773.08	
96812	286	02 TRUCK PICKUP FORD RANGER SCXL 4 X 4	1FTYR45E72PB00479	0	GASOLINE	21,159,55	
96812	287	02 SEDAN CHEVROLET MALIBU 4 DR.	1G1ND52J12M723017	0	GASOLINE	16.784.17	
96812	288	02 WAGON STATION CHEVROLET 4 X 4 BLAZER	1GNDT13W92K219411	ō	GASOLINE	27,791,67	
96812	289	02 TRUCK PICKUP CHEVROLET S-10 EXT CAB	1GCCS19W228229465	0	GASOLINE	18,744.68	
96812	290	03 2003 TRUCKSTER CUSHMAN	LM20777	o	GASOLINE	29.974.66	
96812	291	03 2003 TRUCKSTER CUSHMAN	LM20776	0	GASOLINE	29,974,66	
96812	292	03 FORD SEDAN 4-DOOR	1FAFF52UB3G236528	3.300	GASOLINE	.00	
96812	294	05 PICKUP TRUCK FORD 150	1FTRF12W95NA63038	4.750	GASOLINE	22.075.25	
96812	295	05 PICK UP TRUCK FORD 150	1FTRF12W75NA63040	4.750	GASOLINE	22.705.25	
96812	296	05 PICK UP TRUCK FORD 150	1FTRF12W05NA6309	4.750	GASOLINE	22.075.26	
96812	299	05 DODGE DR1500 PICKUP	1D7HA16N35J604299	-,0	GASOLINE	25,129.00	
96812	300	05 JEEP LIBERTY/SPORT	1J4GK48K05W652122	ů 0	GASOLINE	21,407,15	
96812	301	05 JEEP LIBERTY/SPORT	1J4GK48K25W652123	Ő	GASOLINE	21,407,15	
96812	302	05 DODGE DR1500 PICKUP	1D7HA16NX5J604297	ů 0	GASOLINE	25.129.01	
96812	303	07 2007 FORD F150 PICKUP TRUCK	1FTRF12V57KD42207	0	GASOLINE	28.008.02	
96812	304	07 2007 FORD F150 PICKUP TRUCK	1FTRF12V37KD42206	· 0	GASOLINE	28 008 02	
				5		20,000.04	

----ACQUISITION-----

DATE

GVW FUEL.....

PERIOD: 07/01/07 THRU 06/30/08

E/U ALTERNATIVE FUEL REPORT BY FUEL TYPE 9/10/08

HIGHWAYS - HAWAII DISTRICT OFFICE

¥ .,

,

EQUIPMENT

Appendix 6. DOT - Highways Vehicles and Fuel Data

DESCRIPTION...... SERIAL NUMBER.....

PERIOD: 07/01/07 THRU 06/30/08

1

,

						ACQUISI	CION
EQUIP	MENT	DESCRIPTION	SERIAL NUMBER	. GVW	FUEL	COST	DATE
96812	305	07 2007 FORD F150 PICKUP TRUCK	18788128178042205	٥	GD SOLTNE	29 009 02	
96812	306	07 2007 FORD F150 PICKUP TRUCK	1FTRT12V77KD42208	0	GASOLINE	26,008.02	
96822	134	80 TRUCK INTERNATIONAL FLATBED W/HYDR BOOM		0	GA SOL INF	20,055.70	
96822	141	83 TRUCK INTERNATIONAL DUMP 7 CY		ő	GASOLINE	.00	
96822	142	83 TRUCK CHEV DUMP 2 1/2 CY		· 0	GASOLINE	.00	
96822	148	86 TRUCK FORD DUMP 2 1/2 CY		õ	GASOLINE	00	
96822	149	86 TRUCK FORD STAKE		0	GASOLINE	00	
96822	151	87 TRUCK FORD STAKE W/CANOPY F600		ő	GASOLINE	.00	
96822	152	87 TRUCK FORD STAKE W/LIFTGATE F700		ů.	GASOLINE	.00	
96822	156	89 TRUCK FORD DUMP 2 1/2 CY		ő	GASOLINE	.00	
96822	157	89 TRUCK FORD DUMP 2 1/2 CY		0	GASOLINE	00,	
96822	158	89 TRUCK FORD DUMP 2 1/2 CY		ů D	GASOLINE	00,	
96822	171	93 TRUCK GMC STAKE BODY	1GDJ6H1P7R3505971	312.000	GASOLINE	.00	
96832	113	53 TRAILER UTILITY 1/2 TON		0	GASOLINE	.00	
96832	114	80 TRAILER AIRCO 200 AMP WELDER		0	GASOLINE	.00	
96832	142	07 TRAILKING DETACHABLE GOOSENECK TRAILER	1TKJ0472X9M092704	Ö	GASOLINE	68.645.00	
96842	101	45 GENERATOR ONAN 5KW W/FLD LIGHTS TLR MTD.		Q	GASOLINE	.00	
96842	102	59 GENERATOR ONAN 5KW TRAILER MTD.	•	Ď	GASOLINE	.00	
96842	103	75 GENERATOR KOHLER 3KW TRAILER MTD.		ő	GASOLINE	00	
96842	160	91 REMOVER MACHINE TRAFFIC PAVEMENT	1245	õ	GASOLINE	5 645 12	
96842	166	92 MOWER CUB CADET LAWN		0	GASOLINE	0,010,22	
96842	183	98 TRACTOR LAWN NEW HOLLAND LS55YT	T8E0109	ő	GASOLINE	4 904 14	
96842	195	01 STRIPING MACHINE KELLY-CRESWELL B421	8257	0	GASOLINE	31 040 32	
96852	120	79 SWEEPER WAYNE POWERED		ů	GASOLINE	A1,040.5A 00	
96862	107	86 SPRAYER GE 200 HP 200 GALLON	•	ő	GASOLINE	.00	
96862	108	90 SPRAYER J. BEAN CHEMICAL 200 GALLON		0	GASOLINE	.00 nû	
96862	111	96 SPRAYER FMC TRAILER MOUNTED	JB00403NA	õ	GASOLINE	11 173 64	
96862	112	96 SPRAYER, JOHN BEAN W/SPECTRUM TRAILER	JB1545N1	õ	GASOLINE	11 885 99	
96862	113	96 SPRAYER JOHN BEAN W/SPECTRUM TRAILER	JB01531NT	0	GASOLINE	11 886 00	
96862	114	98 SPRAYER SDI CHEMICAL 300 GAL TRAILER MTD	51007	ő	GASOLINE	8 710 88	
96862	115	98 SPRAYER SDI CHEMICAL 300 GAL TRAILER MTD	51008	0 ·	GASOLINE	8 710.88	
96862	116	02 CONTROL SPEED TRAILER MOUNTED	40XK111S12A020002	ő	GASOLINE	11 999 00	-
96862	117	02 CONTROL SPEED TRAILER MOUNTED	40XK111S42A020009	0	GASOLINE	11 999 00	
96862	118 '	03 SPRAYER JOHN BEAN	JX00159	ŏ	GASOLINE	11,000.00	
96862	119	03 SPRAYER JOHN BEAN	JX00156	ő	GASOLINE	.00	
96862	123	05 EDCO TRAFFIC LINE REMOVER	TLR-7-11H	ő	GASOLINE	17.849.89	
96862	129	07 MCGREGOR 300 GAL, SPRAYER	RS300734	0	GASOLINE	27,042102	
				0	0.0001110	FUEL TYPE TOTAL	
91612	623	03 FORD UTILITY TRUCK	43ED13426	٥	DTESEL	0.0	
96812	220	92 TRUCK FORD CREW CAB W/DUMP		0	DIESEL	.00	
96812	221	92 TRUCK FORD CREW CAB W/DUMP		ő	DIESEL	.00	
96812	222	92 TRUCK FORD CREW CAB W/DIMP		0	DIEGEL	.00	
96812	223	92 TRUCK FORD CREW CAB W/DUMP		ů	DIFERL	.00	
96812	224	92 TRUCK FORD CREW CAB W/DUM		л Л	DIESEL		
96812	225	93 TRUCK FORD PICKUP F-153		J.	DIRSEI.		
96812	230	93 TRUCK CHEV CREW CAB W/DUMP		ň	DIESEL	.00	
96812	231	94 TRUCK FORD PICKUP F-350	-		DTESEL	.00	
96812	244	97 TRUCK CHEV CREW CAB/CHAS 1 TON	1GBHC33F3VE024894	0	DIESEL	.00	
96812	245	97 TRUCK CHEV CREW CAB/CHAS 1 TON	1GBHC33FAVF025314	o o	DTESEL	00	
96812	246	97 TRUCK CHEV CREW CAB/CHAS 1 TON	1GBHC33F3VE025009	0	DIESEI.	.00	
				v.		• • • •	

HIGH	IWAYS - HAW	AII DI	STRICT	off)	CE		
E/U	ALTERNATIV	e fuel	REPORT	BY	FUEL	TYPE	9/10/08

					·		
EQUIP	MENT	DESCRIPTION SE	SRIAL NUMBER	GVW	FUEL	COST	DATE
96812	247		THURSDER WRAACS AS				
96812	248	97 TRUCK CHEV CREW CAR/CHAS 1 TON 16	55AC33F6VF025103	U.	DIESEL	.00	
96812	249	97 TRUCK CHEV CREW CAB/CHAS 1 TON 10	DRC33FFVF045371	U	DIESEL	.00	
96812	250	97 TRUCK CHEV CREW CAB/CHES I TON IC	ABHC33F8VFU24793	U	DIESEL	.00	
96812	251	A7 TRUCK CHEV CRAN CAS/CANA I ION IC	5BRC33F3VF025446	0	DIESEL	.00	
96812	262	9) CTATION MACON CHEN PLATED 4 V 4	BHC33F2VF027057	0	DIESEL	.00	
00012	222	CONTRACTOR WAGON CHEV BLAZER 4 X 4 10	48ED18J6EF119408	0	DIESEL	1,600.00	
00010	234	63 STATION WAGON CHEV BLAZER 4 X 4 1G	BED18J9EF115868	0	DIESEL	1,600.00	
· 02010	200	99 IRUCK CHEV DITLITY ONE TON (SURVEY CREW) 1G	BHC34F7XF006304	0	DIESEL	32,810.40	
06012	200	98 TRUCK CREV 3500 UTILITY BODY ONE TON 1G	SBHK34F6WE236441	0	DIESEL	.00	
20012	2/3	00 VAN GMC TRUCK 1G	KHG35F1Y1275724	0	DIESEL	• 00	
00012	403	OL TRUCK FORD CREW CAB F350 1F	DWW32F91EC41468	0	DIESEL	.00	
20812	293	US FORD MPVH 1F	MSU41P23ED13425	7,650	DIESEL	.00	
90812	297	04 FORD F-250 FICK UP UTILITY BODY 1F	DNF20P64EE09802	0	DIESEL	32,843.38	
90812	498	14 FORD F-250 PICK-UP UTILITY BODY	DNF20P44EE09801	0	DIESEL	32,843.39	
96822	115	69 TRUCK INTERNATIONAL TANK 71.	79116346297	0	DIESEL	15,460.98	
96822	143	84 TRUCK GMC DUMP 7 CY		0	DIESEL	.00	
96822	144	84 TRUCK GMC DUMP 7 CY		0	DIESEL	.00	
96822	145	84 TRUCK GMC DUMP 7 CY		0	DIESEL	.00	
96822	146	84 TRUCK GMC DUMP 7 CY		0	DIESEL	.00	
96822	147	84 TRUCK INTERNATIONAL TRACTOR		0	DIESEL	.00	
96822	150	86 TRUCK FORD TANKER W/HERBICIDE		0	DIESEL	.00	
96822	159	90 TRUCK KENWORTH TRACTOR 1X	KWD20X8LS543858	0	DIESEL	.00	
96822	160	90 TRUCK FORD AERIAL LIFT		0	DIESEL	.00	
96822	161	91 TRUCK INTERNATIONAL WATER TANK		0	DIESEL	.00	
96822	162	91 TRUCK INTERNATIONAL W/SEWER-HYDRO JET VA		ó	DIESEL	00	
96822	163	91 TRUCK FORD DUMP 2 TON		ő	DIESEL	00	
96822	164	91 TRUCK FORD DUMP 2 TON		0	DIESEL	.00	
96822	165	92 TRUCK INTERNATIONAL ASPHALT DIST. 1000GAL		ň	DIRSEL	.00	
96822	166	93 TRUCK INTERNATIONAL TANK 2000 GALLON		ŏ	DIESEI.	.00	
96822	167	93 TRUCK CHEV DUMP 7 CY 1G	82781.738.7103960	ň	DIESEL	.00	
96822	168	93 TRUCK CHEV DUMP 7 CY 1G	827H1.T42.T104079	ő	DIRGRI.	.00	
96822	169	93 TRUCK CHEV DUMP 7 CY 1G	80781.720.71 03 003	ŏ	DIEGEM	.00	
96822	170	93 TRUCK CHEV DUMP 7 CY	807H1.T04.71 03 91 C	ŏ	DIESED	.00	
96822	172	93 TRUCK CHEV DIMP 7 CY	BD7K1.73B.7204042	Ň	DIRCRI	.00	
96822	173	93 TRUCK CHEV DUMP 7 CV 10	DPU1 140 104042	v	DIESEL	.00	
96822	174	95 TRUCK INTERNATIONAL W/HYD CRANE CTARED 100		0	DIESEL	.00	
96822	175	95 TRUCK FORD DIME 7 CV FROM	LOCADLIGHO / LOLU	0	DIESET	.00	
96822	176	95 TRUCK FORD DUMP 7 CY FROM 17	SIPSOEUSVAL0895	0	DIESEL	.00	
96822	380	95 TRUCK FORD DUMP / CI FBUU DIME 2 2 /2 CV	DIFSUEZSVALUS95	0	DIESEL	.00	
06822	200	OF TRUCK INTERNATIONAL DUMP 2 1/2 CY 1H	TSCABM3SH658117	0	DIESEL	.00	
06010	101	AC TRUCK ZUDUGAL GMC 182	2P7H1J512298	0	DIESEL	.00	
20044	102	25 TROCK INTERNATIONAL W/HYD BOOM 1H	TSCABL7SH663117	0	DIESEL	.00	
20044	103	97 TRUCK INT'L TANK 2000 GAL 1H	TSDADR3VH454265	0	DIESEL	.00	
96822	184	97 TRUCK DUMP INTERNATIONAL CAB CHASSIS 7CY 1H	TSDADR9VH453069	0	DIESEL	.00	
96822	185	97 TRUCK DUMP INTERNATIONAL CAB CHASSIS 7CY 1H	TSDADR5VH453070	0	DIESEL	.00	
96822	186	97 TRUCK DUMP CAB & CHASSIS 2 1/2 CY INTL 1H	TSCAALXVH496340	0	DIESEL	.00	
96822	187	98 TRUCK TRACTOR INT'L 2HS	SFBAET2WC042336	0	DIESEL	.00	
96822	188	99 VAN CHEV CHASSIS W/BODY 1G	BJG31F8X1022678	0	DIESEL	.00	
96822	189	99 VAN CHEV CHASSIS W/BODY 1GH	BJG31F8X1014872	0	DIESEL	.00	
96822	190	99 TRUCK INT'L DUMP 7 CY CAB & CHASSIS 1H7	TSDADR3XH222784	35,000	DIESEL	76,919.22	
96822	191	99 TRUCK INT'L DUMP 7 CY CAB & CHASSIS	TSDADR5XH222785	35,000	DIESEL	76,919.22	
96822	192	01 TRUCK INTL STAKE BODY W/HYD. LIFT GATE 1H7	ISDAAR811333469	0	DIESEL	89,584,29	

PERIOD: 07/01/07 THRU 06/30/08

. ب

.

PERIOD: 07/01/07 THRU 06/30/08

. .

.

							ACQUISI	TION
EQUIPM	ent	DE	SCRIPTION	SERIAL NUMBER	GVW	FUEL	COST	DATE
96822	193	01	VAN FORD CUTAWAY F450	1FDXE45FX1HB19483	Ô	DIESEL	. 00	
96822	195	02	TRUCK GMC CAB/CHASSIS W/AERIAL BUCKET	1GDP7H1C22J502244	0	DIESEL	195.218.25	
96822	196	03	TRUCK PETERBUILT ASPEN AERIAL BDY MDL320	1NPZXOTX33D714738	0	DIESEL	.00	
96822	197	04	TRUCK INT'L DUMP 2 1/2 CU YD SBA 4 X 2	1HTMKAALX4H652483	Û	DIESEL	69.676.86	
96822	198	04	TRUCK INT'L DUMP 2 1/2 CU YD SBA 4 X 2	1HTMKAAL84H652482	n n	DIESEL	69 767 86	
96822	199	04	TRUCK INT'L DUMP 2 1/2 CU SBA 4 X 2	1HTMKAAL64H652481	ň	DIESEL	69 676 86	
96822	200	05	TRUCK GMC TC 5500 C SERIES AND BOOM	1GDE5C1255F504746	19.500	DIESEL	105 090 72	
96822	201	05	FORD F-350 CREW CAB W/DUMP	1FDWW36P04EE09800	0	DIESEL	40.300.47	
96822	202	05	FORD F-350 CREW CAB W/DUMP	1FDWW36P84EE09799	0	DIESEL	39.258.81	
96822	203	05	FORD F-350 CREW CAB W/DUMP	1FDWW36P64EE09798	0	DIESEL	39,258,81	•
96822	204	05	FORD F-350 CREW CAB W/DUMP	1FDWW36P44EE09797	0	DIESEL	39.258.81	
96822	205	06	PETERBILT W/2000 GALLON TANK	2NPLHZ8X16M632621	0	DIESEL	134.713.05	
96822	206	06	FORD F-350 CREW CAB W/DUMP BOX	1FDWW36P96EA03212	0	DIESEL	43.654.12	
96822	207	07	INTERNATIONAL 2 1/2 CY DUMP TRUCKS	1HTMKAAL47H447200	0	DIESEL	81.037.99	
96822	208	07	INTERNATIONAL 2 1/2 CY DUMP TRUCK	IHTMKAAL67H447201	0	DIESEL	81.037.99	
96822	209	07	INTERNATIONAL TRUCK TRACTOR	IHSXRAPT17J447216	0	DIESEL	130 237 60	
96822	210	02	PETERBILT FLATBED W/CRANE	UTINPZLO0X13D714740	0	DIESEL	263.713.78	
96822	211	03	PETERBILT TRUCK W/CRANE & DUMP	UTINPZLO0X33D714741	0	DIESEL	283.464.08	
96822	212	07	2007 FORD 6-MAN CAB WITH DUMP	1FDWW36P77EA42916	0	DIESEL	48,679,27	
96822	213	07	2007 FORD 6-MAN CAB WITH DUMP	1FDWW36P37EA44582	Ó	DIESEL	48,679.27	
96822	214	07	PETERBILT TRUCK MODEL 384 WATER TANKER	2NPRHN8X08M758541	0	DIESEL	159,876.14	
96822	215	08	GMC TRUCK W/1000 GALLON BITUMINOUS TANK	IGDM7C1B98F403073	0	DIESEL	182,777.65	
96822	21.6	80	GMC TRUCK COMMERCIAL CUTAWAY VEHICLE	1GDE5V19X8F400556	0	DIESEL	81,707.20	
96832	101	44	TRAILER W/300 GAL BITUMULS TANK	-	0	DIESEL	.00	
96832	121	94	TRAILER MILLER WELDING GENERATOR		0	DIESEL	.00	
96832	123	96	TANK BITUMUL TRAILER MOUNTED	L250T-802	Ó	DIESEL	15,874,90	
96832	124	96	TANK BITUMUL TRAILER MOUNTED	L250T-801	0	DIESEL	.00	
96842	128	79	TRACTOR JOHN DEERE W/BROOM (USED)	317931	0	DIESEL	2,994.89	
96842	138	66	TRACTOR KUBOTA W/BOMFORD SIDE & REAR		0	DIESEL	.00	
96842	141	87	GENERATOR W/FLOOD LIGHTS		0	DIESEL	.00	
96842	142	87	GENERATOR W/FLOOD LIGHTS		0	DIESEL	.00	
96842	143	87	GENERATOR W/FLOOD LIGHTS		0	DIESEL	.00	
96842	144 .	87	TRACTOR KUBOTA W/FLAIL MOWER		0	DIESEL	.00	
96842	145	87	TRACTOR KUBOTA W/FLAIL MOWER		0	DIESEL	.00	
96842	146	87	TRACTOR JOHN DEERE 1250 W/SWEEPER		0	DIESEL	.00	
96842	147	87	TRACTOR JOHN DEERE 1650 W/SICKLEBAR		0	DIESEL	.00	
96842	149	88	TRACTOR KUBOTA MOWER		0	DIESEL	.00	
96842	150	88	TRACTOR KUBOTA MOWER		0	DIESEL	.00	
96842	151	88	TRACTOR KUBOTA MOWER		0	DIESEL	.00	
96842	152	88	WELDER MILLER 250 AMP TRL. MTD.	JJ404150	0	DIESEL	7,050.67	
96842	153	₿₿	WELDER MILLER 250 AMP TRL. MTD.	JJ521325	0	DIESEL	7,768.89	
96842	155	89	TRACTOR CASE W/FLAIL MOWER		0	DIESEL	.00	
96842	156	89	TRACTOR KUBOTA W/BROOM		0	DIESEL	.00	
96842	157	90	TRACTOR FORD W/EXT. FLAIL MOWER		0	DIESEL	.00	
96842	158	90	TRACTOR FORD W/FLAIL MOWER		0	DIESEL	.00	
96842	159	90	TRACTOR KUBOTA W/BROOM		0	DIESEL	.00	
96842	161	90	TRACTOR CASE I.H.		0	DIESEL	.00	
96842	162	90	TRACTOR CASE MOWER I.H.		0	DIESEL	.00	
96842	163	90	TRACTOR CASE MOWER I.H.		0	DIESEL	.00	
96842	164	91	TRACTOR CASE W/FLAIL MOWER		0	DIESEL	.00	
96842	165	91	TRACTOR CASE W/SWEEPER		0	DIESEL	.00	

A-43

HIGHWAYS - HAWAII DISTRICT OFFICE E/U ALTERNATIVE FUEL REPORT BY FUEL TYPE 9/10/08

PERIOD: 07/01/07 THRU 06/30/08

							ACQUISIT	ION
EQUIPM	ENT	DE	SCRIPTION	SERIAL NUMBER	GVW	FUEL	COST	DATE
96842	169	93	TRACTOR KUBOTA W/EXT FLAIL MOWER	190029	0	DIESEL	36,745,97	
96842	172	94	TRACTOR JOHN DEERE 6200 W/FLAIL MOWER		0	DIESEL	.00	
96842	173	94	TRACTOR JOHN DEERE 6200 W/FLAIL MOWER		0	DIESEL	.00	
96842	174	94	TRACTOR JOHN DEERE 6200 W/FLAIL MOWER		0	DIESEL	.00	
96842	176	95	CASE TRACTOR W/ALAMO SUPER HVY FLAIL MOW	JJE0908218	0	DIESEL	51,723.09	
96842	180	96	TRACTOR KUBOTA 2ND	10897	0	DIESEL	.00	
96842	181	97	TRACTOR CASE IH MODEL 4230 W/EXT SR FLAI	JJE0924451	0	DIESEL	63.082.93	
96842	182	97	TRACTOR CASE IH MODEL 4230 W/SR FLAIL MO	JJE0924452	0	DIESEL	63.082.93	
96842	184	98	GENERATOR TRAILER MTD. W/LIGHT TOWER	288844	Ō	DIESEL	14,280,12	
96842	185	98	TRACTOR KUBOTA W/SWEEPER BROOM	30275	0	DIESEL	33.384.06	
96842	186	98	TRACTOR CASE IN W/EXT S/R MT.FLAIL MOWER	JJE1007432	0	DIESEL	60.545.84	
96842	187	98	TRACTOR CASE IN W/EXT S/R MTD.FLAIL MOWE	JJE1007433	Ō	DIESEL	60,546.84	
96842	188	99	TRACTOR CASE UTILITY W/FRT MTD.ROT BROOM	JJE1009709	0	DIESEL	.00	
96842	189	99	TRACTOR CASE UTILITY W/FRT MTD ROT BROOM	JJE1009369	0	DIESEL	.00	
96842	190	99	TRACTOR KUBOTA UT W/REAR/SIDE FLAIL MOWE	10560	0	DIESEL	62.391.57	
96842	191	99	TRACTOR KUBOTA UT W/REAR/SIDE FLAIL MOWE	10563	Ô	DIRSEL	62.391.57	
96842	192	99	TRACTOR KUBOTA UTILITY W/REAR MTD. FLAIL	40354	0	DIRSEL	31.061.89	
96842	193	99	TRACTOR KUBOTA UTILITY W/REAR MTD. FLAIL	40359	ŏ	DIRSEL	31.061.89	
96842	194	00	TRACTOR UTILITY KUBOTA W/BOMFORD MOWER	10714	Ő	DIESEL	69 891 92	
96842	196	01	THERMOPLASTIC STRIPING MACHINE W/TRAILER	1C9FP202X1B411022	ő	DIESEL	00,002.00	
96842	197	02	SWEEPER TENNANT 6550	6550-9022	ő	DIESEL	45.833.04	
96842	198	93	SWEEPER, TENNANT VACUUM	3551650	ñ	DIRSEL	1 600 00	
96842	199	95	SWEEPER NEW CLARKE AMERICAN LINCOLN	460302	ň	DIESEL	500.00	
96842	200	02	SWEEPER CASE CX50 TRACTOR	JJE2020831	ů	DIESEL	00	
96842	201	03	WELDER MILLER TRAILER MOUNTED	LC019450	0	DIESRI	17.799.19	
96842	202	03	WELDER MILLER TRAILER MOUNTED	LC019441	0 0	DIESRI.	17.799.18	
96842	203	03	TRACTOR UTILITY NWHOLLAND W/S/R MTD	200553B	ß	DIESEL	72,916,20	
96842	204	03	TRACTOR NW HOLLAND UTILITY W/S/R MTD.	1999498	ň	DIESEL	72,916,20	
96842	205	03	TRACTOR UTILITY NWHOLLAND W/S/R MTD	2004828	ő	DIESEL	72,916,20	
96842	206	04	TRACTOR ZERO GRASSHOPPER TURN	5418440	n n	DIESEL	10 729 10	
96842	207	04	ROTARY BROOM SWEEPSTER	HJH011386	5.548	DIESEL	39 791.41	
96842	208	04	CASE TRACTOR MOWER	HJT010035	0,000	DIESEL	62 000 00	
96842	209	05	FLOODLIGHT LIGHT TOWER TRAILER	031700004	6	DIRGEI.	9 241 84	
96842	210	05	FLOODLIGHT LIGHT TOWER TRATLER	031.800004	ň	DIRGEL	0 041 BA	
96842	211	05	FLOODLIGHT LIGHT TOWER TRAILER	031922004	. v	DIRSEL	9 241 84	
96842	212	05	WELDER MILLER 40 TRAILER MOUNTED	MIL - 907171	ů	DIESEI.	28 695.00	
96842	213	05	TRACTOR MONER NEW HOLLAND W/TTGER-GEAR	2/2P253/061	0	DINCHI.	97 916 04	
96842	220	06	NK TRACTOR MOWER/BOOM MOWER/MOWER W/PTO	ACP272137	0	DIESEL .	1.011.445.19	
96842	221	06	NH TRACTOR BOOM MOWER /MOWER W/PTO	ACP272270	ů N	DIFSEL	101 146 19	
96842	222	06	NH TRACTOR/BOOM MOWER/MOWER W/PTO	202274889	0	DIRGRI	101 146 19	
96842	223	96	NORBARK EZ CHIPPER MDL 2773	SN 2773	n	DIRSEL	201,143.15 24 343 83	
96842	224	96	MORBARK EZ CHIPPER MOL 2200E2	SN 2774	ň	DIESEL	24 343 83	
96842	225	96	NORBARK CHIPPER MDL 2200EZ	SN 2775	ů	DIESEL	24 343 83	
96842	226	00	CUB CADET 60" ROT MOWER	40190280001	Ň	DIRGEL	7 673 91	
96852	119	76	LOADER FRONT END	10290200001	Ň	DIRGEI	7,575.51	
96852	121	81	COMPRESSOR INGERSOLI, RAND		v n	DIESEL	,00	
96852	122	81	COMPRESSOR INGERBOLI, RAND		v n	DIESEL		
96852	123	81	LOADER CASE BACKHOE AND WD HAMMER		υ Λ	DIESET.	.00	
96852	125	82	GRADER GALTON MOTOR		0 N	DIFSEL	.00	
96852	126	86	CASE VIBRATORY ROLLER 2-4 TON		v 0	DIRGRY.	.00	
96852	127	87	GRADER GALION MOTOR		0	DIESEL	.00	
		~ *				A & A & A & A & A & A & A & A & A & A &		
HIGHWAYS - HAWAII DISTRICT OFFICE E/U ALTERNATIVE FUEL REPORT BY FUEL TYPE 9/10/08

PERIOD: 07/01/07 THRU 06/30/08

x...

equipm	ent	DE	SCRIPTION	SERIAL NUMBER	GVW	FUEL	COST	DATE
96852	130	87	ROLLER CASE VIRBRATORY MODEL 252		0	DIESEL	.00	
96852	131 ,	88	ROLLER CASE VIRBRATORY MODEL 7528		0	DIESEL	.00	
96852	132	88	GRADER CATERPILLAR MOTOR		0	DIESEL	.00	
96852	133	88	LOADER JOHN DEERE W/BACKHOE		0	DIESEL	.00	
96852	134	90	FORKLIFT KOMATSU 5000 LBS.		0	DIESEL		
96852	135	90	LOADER CASE BACKHOE		0	DIESEL	.00	
96852	136	91	LOADER JOHN DEERE MODEL 544E		0	DIESEL	.00	
96852	137	91	COMPRESSOR INGERSOL RAND AIR		0	DIESEL	.00	
96852	138	92	GRADER CHAMPION MOTOR		0	DIESEL	.00	
96852	139	92	LOADER KOMATSU	12941	0 0	DIESEL	.00	
96852	140	93	COMPRESSOR SULLAIR 750 CFM	004-111603	0	DIESEL	40.657.42	
96852	141	93	UNILOADER CASE SKID STEER	JAF0120730	0	DIESEL	16,897,97	
96852	142	93	ROLLER DYNAPAC		0	DIESEL	.00	
96852	143	93	LOADER KOMATSU FRONT END		0	DIESEL	.00	
96852	144	94	COMPRESSOR INGERSOLL RAND AIR		ñ	DIESEL	.00	
96852	145	94	COMPRESSOR INGERSOLL RAND ATR		0	DIESEI.	.00	
96852	146	94	COMPRESSOR INGERSOLL RAND AIR		ő	DIRSEI.	.00 00	
96852	147	79	TRUCK LIFT MOD MGO	794541	ő	DIRSEL	24 443 00	
96852	149	96	LOADER MELDOE BORCAT INILLOADER	723031 610000136	0	DIRGEL	A4,445.00	
96852	149	99	LOADER MELROE BOBCAT MODEL 763	512220130 61000000	ő	DIESED DIESED	.00	
96862	150	00	GRADER MOTOR CHANDION MODEL 7105 DIRECT	30925	0	DISSEU	.00 .11 145 35	
96852	151	00	BACKNOW /LOADER NEW VOLLAND SIVUE NAMER	31035674		DIROPI	111,145,15	
96852	160	00	DOZED TOADER AN HODIARD WITT HEAMER	50201010	0	DIGGED	77,042.V7	
96852	152	01	DOLLED DVMDAC CCLA2 VIERATORY	50301012	0	DIESEL	60,01/.2/ 00	
06052	153	0.1	LONDER DINAFAC CCIV2 VIBRAIORI	00113322	0	DIBOBI	.00	
040652	155	0.7	TRUCYCAC RE W CCUMARZE CMEEDER	100000000000000000000000000000000000000	24 000	DIESEL	100 000 10	
00002	155	02	TRUCKONC F/ N/SCHWARZE SWEEPER	16DP761CX23504097	34,800	DIESED	173,007.46	
90002	167	04	TRUCK GHC F/ W/SCHWARZE SWEEPER	1GDP7C12C1J504263	34,800	DIESEL	1/3,007.46	
20032	100	02	TOADER CASE MODER 221D	(193134186	0	DIESED	99,061.87	
30032	150	04	ROLLER DINAPAC 5-8 TON MODEL CC222	61/11280	0	DIESEL	74,765.15	
90054	159	02	ROBBER DINAPAC 2-4 TON CCI02	60116496	0	DIESEL	115 604 06	
96854	160	04	GRADER, GALION MODEL 830 B	0210932	U	DIESEL	115,624.26	
26852	161	03	GRADER CASE ARTICULATED MOTOR	HB20020107GR84502	0	DIESEL ·	111,978,45	
96852	162 .	20	LOADER NEW HULLAND SACKHOE AND HAMMER	031046566	0	DIESEL	92,186.91	
96852	163	04	ROLLER HAMM ARTICULATED TANDEM RD70	1520780	0	DIESEL	64,999.58	
96852	164	05	FORKLIFT KOMATSU FD30T-14	589170A	0	DIESEL	28,124.82	
96852	165	05	BACKHOE NEW HOLLAND W/HAMMER LB1105E205	31055615/82758	0	DIESEL	88,541.00	
96852	166	06	VACUUM CLEANER TRUCK PETERBILT 357	INPAL00X26D632940	0	DIESEL	304,057.09	
96852	167	06	KOMATSU FRONT-END WHEEL LOADER	68325	0	DIESEL	100,793.10	
96852	108	06	GMC TRUCK W/SWEEPER ATTACHMENT	1GDM7F1396F429132	33,000	DIESEL	238,558.19	
96852	169	06	2006 GMC TRUCK W/SWBEPER ATTACHMENT	1GDM7F1336F429515	33,000	DIESEL	238,558.19	
96852	170	07	PETERBILT 357 VAC-CON W/WATER TANK TRUCK	1NPAL00X27D683050	0	DIESEL	326,148.08	
96852	172	06	CASE CRAWLER EXCAVATOR	DAC251358	0	DIESEL	286,456.50	
96852	173	07	2007 CASE 845 TIER 3 MOTOR GRADER	N7AF03531	0	DIESEL	173,749.00	
96862	106	85	BULLDOZER JOHN DEERE CRAWLER		0	DIESEL	- ,00	
96862	109	93	CHIPPER OLATHE MODEL 986CD	986603	0	DIESEL	18,476.63	
96862	110	93	CHIPPER OLATHE MODEL 986CD	986604	0	DIESEL	18,476.63	
96862	126	07	KOMATSU CRAWLER DOZER D61EX-15	B45407	0	DIESEL	207,822.16	
96862	127	07	BANDIT 280 CHIPPER BA181	1148	0	DIESEL	48,333.02	
96862	128	07	BANDIT 280 CHIPPER BA182	1150	0	DIESEL	48,333.03	
							FUEL TYPE TOTA	T .

----ACQUISITION-----

E/U ALTERNATIVE	FUEL REPORT F	BY FUEL TYPE	9/10/08

HIGHWAYS - HAWAII DISTRICT OFFICE

PERIOD: 07/01/07 THRU 06/30/08

ε∕u	ALTERNATIVE	FUEL	REPORT	ву	FUEL	TYPE	9/10/
-, -		101011	10412 010 1		1000	LIFE	2/20/

EQUIPMENT DESCRIPTION							ACQUISITI	CON
9426 926 00 HPR WORK PROGRAM 0 NOT APPLICABLE 00 96812 820 00 MYSO - WORK ORDER FOR MYSO C/C 0 NOT APPLICABLE 00 96813 104 53 TRAILER JOHN DEERE W/TILTNO 3 TON 0 NOT APPLICABLE 00 96833 104 53 TRAILER JOHN DEERE W/TILTNO 3 TON 0 NOT APPLICABLE 00 96832 106 77 TRAILER SIDE BUILT 1/J CTO CARGO 0 NOT APPLICABLE 00 96833 116 84 TRAILER SIDE BUILT 1/J CTO CARGO 0 NOT APPLICABLE 00 96833 116 87 TRAILER SIDE MUILTY 0 NOT APPLICABLE 00 96832 116 87 TRAILER ZIENNU UTILITY 0 NOT APPLICABLE 00 96833 127 97 TRAILER ZIENNU UTILITY 0 NOT APPLICABLE 00 96832 128 96 TRAILER ZIENNU UTILTY 0 NOT APPLICABLE 00 96832 129 TRAILER ZIENNU UTILTY 0 NOT APPLICABLE 00 96832	EQUIPM	ENT	DESCRIPTION	SERIAL NUMBER	GVW	FUEL	COST	DATE
Parts Parts <th< td=""><td>96103</td><td>016</td><td>AA URD MADY BRACEN</td><td></td><td></td><td></td><td></td><td></td></th<>	96103	016	AA URD MADY BRACEN					
1000 1000 1000 0 NOT APPLICABLE 000 9633 104 53 TRALER JOHN DERE W/TLINING 3 TON 0 NOT APPLICABLE 000 9633 104 53 TRALER SHOP BUILT 1/J ZINC CARGO 0 NOT APPLICABLE 000 9633 108 77 TRALER SHOP BUILT 1/J ZINC CARGO 0 NOT APPLICABLE 000 9633 118 84 TRALER SIGN BUILT 1/J ZINC CARGO 0 NOT APPLICABLE 000 9633 118 87 TRALER ZIENAN UTILITY 0 NOT APPLICABLE 000 9633 118 87 TRALER ZIENAN UTILITY 0 NOT APPLICABLE 000 9633 129 95 TRALER ZIENAN UTILITY 0 NOT APPLICABLE 000 9633 127 97 TRALER ZIENAN UTILITY 0 NOT APPLICABLE 000 9633 127 97 TRALER ZIENAN UTILITY 0 NOT<	96912	020	OU HER WORK PROGRAM		0	NOT APPLICABLE	.00	
102 103 104 104 0 NOT APPLICABLE .00 96323 107 55 TRAILER JOHN DEREW WITLINN 3 TON 0 NOT APPLICABLE .00 96433 107 TRAILER JEND BUILT 1 // 2 TON CARGO 0 NOT APPLICABLE .00 96833 115 64 TRAILER JENNN UTLITY 0 NOT APPLICABLE .00 96833 116 64 TRAILER ZIENNN UTLITY 0 NOT APPLICABLE .00 96833 118 7 <trailer td="" utlity<="" ziennn=""> 0 NOT APPLICABLE .00 96833 125 95 TRAILER ZIENN UTLITY 0 NOT APPLICABLE .00 96833 126 95 TRAILER ZIENN UTLITY 0 NOT APPLICABLE .00 96832 126 95 TRAILER ZIENN KECTRONIC LAMBISIGTABATELAB .00 NOT APPLICABLE .00 96331 127 77 TRAILER LOAD KING EALSZSSVIL2666</trailer>	06833	1020	A MUNICE DEVENDER FOR MUSIC/C		0	NOT APPLICABLE	.00	
Jobs Jobs Jobs ONT APPLICABLE OOD 96321 107 5 TRALLER SHOP BUILT 1/2/100 CARGO NOT APPLICABLE .00 96332 108 77 TRALLER FERRE CUSTOM MADE SCALE 0 NOT APPLICABLE .00 96332 116 6 TRALLER KING TRALL 0 NOT APPLICABLE .00 96323 117 7 TRALLER ZIERAN UTILITY 0 NOT APPLICABLE .00 96323 118 87 TRALLER ZIERAN UTILITY 0 NOT APPLICABLE .00 96323 118 87 TRALLER ZIERAN UTILITY 0 NOT APPLICABLE .00 96323 120 37 TRALLER ZIERAN UTILITY 0 NOT APPLICABLE .00 96323 123 9 TRALLER ZIERAN UTILITY 0 NOT APPLICABLE .00 96323 123 9 TRALLER ZIERAN UTILITY 0 NOT APPLICABLE .00 96323 123 9 TRALLER ZIERAN UTILITY 0	90032	104	47 IRAIDER KARBAGER TIP TOP 7 TON		0	NOT APPLICABLE	.00	
2423 207 35 IRAILER SIGN FOLDT 1 // 1 /0 NCARGO 0 NOT APPLICABLE 00 96832 115 64 TRALLER FERREL (USTOM MAD SCALE 0 NOT APPLICABLE 00 96833 116 64 TRALLER SILMAN UTLLITY 0 NOT APPLICABLE 00 96832 117 87 TRALER SILMAN UTLLITY 0 NOT APPLICABLE 00 96832 118 97 TRALER SILMAN UTLLITY 0 NOT APPLICABLE 00 96832 118 97 TRALER SILMAN UTLLITY 0 NOT APPLICABLE 00 96832 126 95 TRALER SILMAN UTLLITY 0 NOT APPLICABLE 00 96832 126 95 TRALER SILMAN UTLLITY 0 NOT APPLICABLE 00 96832 127 97 TRALER SILMAN UTLLTY 0 NOT APPLICABLE 00 96832 128 98 DOARD MESSAGE MARENCAN RECTRONIC LAMMSISITA376129 NOT APPLICABLE 00 96833 139	06032	104	55 TRAILER JURN DEERE W/TILTING 3 TON	•	0	NOT APPLICABLE	.00	
106 7.1 TRAILER FERRER LOSION MADE SCALE 0 NOT APPLICABLE .00 96532 115 84 TRAILER XIRMAN UTILITY 0 NOT APPLICABLE .00 96532 117 87 TRAILER ZIENAN UTILITY 0 NOT APPLICABLE .00 96532 118 87 TRAILER ZIENAN UTILITY 0 NOT APPLICABLE .00 96532 118 87 TRAILER ZIENAN UTILITY 0 NOT APPLICABLE .00 96532 118 87 TRAILER ZIENAN UTILITY 0 NOT APPLICABLE .00 96532 125 95 TRAILER ZIENAN UTILITY 0 NOT APPLICABLE .00 96532 126 95 TRAILER ZIENAN UTILITY 0 NOT APPLICABLE .00 96532 127 97 TRAILER ZIENAN EXCITONIC LAMMSISIOTA378125 0 NOT APPLICABLE .00 96532 129 8 COARD MESSAGE AMERICAN ELECTRONIC LAMMSISIOTA378125 0 NOT APPLICABLE .00 96532 131 99 EOARD MESSAGE AMERICAN ELECTRONIC LAMMSISIOTA378125 0 NOT	06032	100	56 TRAILER SHOP BUILT I 1/2 TON CARGO		0	NOT APPLICABLE	.00	
94832 11.3 84 TRAILER X.ING.TRAIL 0 NOT APPLICABLE 00 96832 11.6 85 TRAILER ZIENAN UTILITY 0 NOT APPLICABLE 00 96832 11.8 87 TRAILER ZIENAN UTILITY 0 NOT APPLICABLE 00 96832 11.8 87 TRAILER ZIENAN UTILITY 0 NOT APPLICABLE 00 96832 11.9 89 TRAILER ZIENAN UTILITY 0 NOT APPLICABLE 00 96832 12.6 95 TRAILER ZIENAN UTILITY 0 NOT APPLICABLE 00 96832 12.6 95 TRAILER LODA KING IB4L38239Y1121666 NOT APPLICABLE 00 96832 12.9 97 TRAILER ZIENAN MERICAN ELECTRONIC IA9MS151071A97129 NOT APPLICABLE 00 96832 13.9 98 ROAD MESSAGE AMERICAN ELECTRONIC IA9MS151373/8129 NOT APPLICABLE 0.0 96832 13.1 98 BOAD MESSAGE ADECO, TRL MTD. CHANGELE 85567 NOT APPLICABLE 0.0 96832 <td>20022</td> <td>100</td> <td>// TRAILER FERREI CUSTOM MADE SCALE</td> <td></td> <td>0</td> <td>NOT APPLICABLE</td> <td>.00</td> <td></td>	20022	100	// TRAILER FERREI CUSTOM MADE SCALE		0	NOT APPLICABLE	.00	
2022 11.6 36 TRAILER 2 INFAN UTLITY 0 NOT APELICABLE 0.00 9632 11 87 TRAILER ZIEMAN UTLITY 0 NOT APELICABLE 0.00 9632 11.8 87 TRAILER ZIEMAN UTLITY 0 NOT APELICABLE 0.00 9632 11.9 9 TRAILER ZIEMAN UTLITY 0 NOT APELICABLE 0.00 9632 11.6 9 TRAILER ZIEMAN UTLITY 0 NOT APELICABLE 0.00 9653 11.6 9 TRAILER ZIEMAN UTLITY 0 NOT APELICABLE 0.00 9653 12.7 9 TRAILER ZIEMAN UTLITY 0 NOT APELICABLE 0.00 9653 12.7 9 TRAILER ZIEMAN UTLICAN ELECTRONIC LAMMSISIUTAJ7812.9 0 NOT APELICABLE 0.00 9632 12.9 9 BOARD MESSAGE AMERICAN ELECTRONIC LAMMSISIUTAJ7812.5 0 NOT APELICABLE 0.00 9633 131 9 BOARD MESSAGE SOLARTECH LAMMSISIUTAJ7812.5 0 NOT APELICABLE 0.00 9633 133 0 EOARD MESSAGE SOLARTECH LAMMSISIUTAJ40510.0	20034	110	84 TRAILER KING TRAIL		0	NOT APPLICABLE	.00	
9632 117 60 NOT APPLICABLE 00 9633 118 87 TRALLER ZIENAN UTILITY 0 NOT APPLICABLE 00 96633 118 87 TRALLER ZIENAN UTILITY 0 NOT APPLICABLE 00 96633 113 95 TRALLER ZIENAN UTILITY 0 NOT APPLICABLE 00 96633 113 96 TRALLER ZIENAN UTILITY 0 NOT APPLICABLE 00 96633 116 96 TRALLER ZIENAN UTILITY 0 NOT APPLICABLE 00 96632 126 96 TRALLER ZIENAN UTILITY 0 NOT APPLICABLE 00 96632 126 96 TRALER ZIENAN UTILITY 130%51517378129 0 NOT APPLICABLE 00 96633 130 98 TRARE MERICAN ELECTRONIC LAMSIS1317378129 0 NOT APPLICABLE 00 96832 130 92 TRALER ZIENAN CARRIER 116.0 LZC7152922723815 9,999 NOT APPLICABLE 00 96832	20032	110	86 TRAILER ZIEMAN UTILITY		0	NOT APPLICABLE	.00	
9632 116 97 TRAILER KING TEALL ITKJ04323KM7043812 0 NOT APPLICABLE .00 96832 112 93 TRAILER KING TEALL ITKJ04323KM7043812 0 NOT APPLICABLE .00 96832 126 95 TRAILER ZIENAN UTILITY 0 NOT APPLICABLE .00 96832 126 95 TRAILER ZIENAN UTILITY 0 NOT APPLICABLE .00 96832 126 95 TRAILER ZIENAN UTILITY 0 NOT APPLICABLE .00 96832 127 97 TRAILER ZIENAN UTILITY 0 NOT APPLICABLE .00 96832 127 97 TRAILER ZIENAN UTILITY LADMSISIOTASTA12166 NOT APPLICABLE .00 96832 137 95 BOARD MESSAGE AMERICAN BLECTRONIC LADMSISIOTASTA12126 NOT APPLICABLE .00 96832 133 02 DARD MESSAGE SOLARTECH LZC7125922273815 9,999 NOT APPLICABLE .00 96832 136 02 DOARD MESSAGE SOLARTECH 4GM2MIS12140851	20032	110	87 TRAILER ZIEMAN UTILITY		0	NOT APPLICABLE	.00	
9683 119 69 74.1LER XING TRAIL 1TKJ04323XN7043812 0 NOT APPLICABLE .00 9683 126 93 TRAILER XING TRAIL 0 NOT APPLICABLE .00 9683 126 96 TRAILER XING TRAIL 0 NOT APPLICABLE .00 9683 127 97 TRAILER XING TRAIL 184136239V1121666 0 NOT APPLICABLE .00 96633 128 98 BOARD MESSAGE AMERICAN BLECTRONIC LAMMSI513TA78129 0 NOT APPLICABLE .00 96632 130 98 TRAILER SPECTRUM BCT 16-7500 LS9BS2420WH364284 0 NOT APPLICABLE .00 96633 131 99 DEOARD MESSAGE ADDCO, TRL WTD. CHANGEABLE 585967 0 NOT APPLICABLE .00 96633 134 02 EOARD MESSAGE SOLARTECH 4GM2MSI5121408519 0 NOT APPLICABLE .00 96833 135 02 EOARD MESSAGE SOLARTECH 4GM2MSI5121408511 0 NOT APPLICABLE .00 96833 136 02 EOARD MESSAGE SOLARTECH 4GM2MSI5121408513 0 N	90832	118	87 TRAILER ZIEMAN UTILITY		0	NOT APPLICABLE	.00	
96832 120 93 TRAILER ZIENAN UTILITY 0 NOT APPLICABLE .00 96832 125 95 TRAILER 0 NOT APPLICABLE .00 96832 126 96 TRAILER 0 NOT APPLICABLE .00 96832 128 98 BOARD MESSAGE AMERICAN ELECTRONIC LAMMSISIOTA378129 NOT APPLICABLE .00 96832 129 98 ROARD MESSAGE AMERICAN ELECTRONIC LAMMSISIJAT378125 NOT APPLICABLE .00 96832 131 99 BOARD MESSAGE AMERICAN ELECTRONIC LAMMSISIJAT378125 NOT APPLICABLE .00 96832 131 99 BOARD MESSAGE ADECO, TRL NTD. CHANGEABLE 585967 0 NOT APPLICABLE .00 96832 132 02 TRAILER ZIEMAN CARRER 1150 L2CT215222223815 9,999 NOT APPLICABLE .00 96832 134 02 BOARD MESSAGE SOLARTECH 4GM2M151021406511 0 NOT APPLICABLE .00 96832 136 02 BOARD MESSAGE SOLARTECH 4GM2M151021406511 0 NOT APPLICABLE .00 96832<	96834	113	89 TRAILER KING TRAIL	1TKJ04323KM7043812	0	NOT APPLICABLE	.00	
96832 124 96 TRAILER 0 NOT APPLICABLE .00 96832 127 97 TRAILER LOAD KING 1B4138239V1121666 0 NOT APPLICABLE .00 96832 128 98 BOARD MESSAGE AMERICAN ELECTRONIC LASMS1513TA78129 0 NOT APPLICABLE .00 96832 129 98 BOARD MESSAGE AMERICAN ELECTRONIC LASMS1513TA78125 0 NOT APPLICABLE .00 96832 130 99 TRAILER SPECTRUM BCT 16-7500 LS9B52420WH364284 0 NOT APPLICABLE .00 96832 132 02 TRAILER SPECTRUM BCT 16-7500 LS9B52420WH364284 0 NOT APPLICABLE .00 96833 134 02 DOARD MESSAGE SOLARTECH 4GM2M151721408510 0 NOT APPLICABLE .00 96832 134 02 DOARD MESSAGE SOLARTECH 4GM2M151721408511 0 NOT APPLICABLE .00 96832 136 02 DOARD MESSAGE SOLARTECH 4GM2M15121408514 0 NOT APPLICABLE .00 96832 136 02 DOARD MESSAGE SOLARTECH 4GM2M151421	96832	120	93 TRAILER ZIEMAN UTILITY		0	NOT APPLICABLE	.00	
96832 126 96 TRAILER 0 NOT APPLICABLE .00 96832 128 98 BOARD MESSAGE AMERICAN ELECTRONIC IA9MS1510TA378129 0 NOT APPLICABLE .00 96832 129 98 BOARD MESSAGE AMERICAN ELECTRONIC IA9MS1510TA378129 0 NOT APPLICABLE .00 96832 129 98 BOARD MESSAGE AMERICAN ELECTRONIC IA9MS1510TA378129 0 NOT APPLICABLE .00 96832 130 99 BOARD MESSAGE ADDCO, TRL NTD. CHANGEABLE 585967 0 NOT APPLICABLE 8,020.78 96832 134 02 BOARD MESSAGE SOLARTECH 4GM2M151721408510 0 NOT APPLICABLE .00 96832 134 02 BOARD MESSAGE SOLARTECH 4GM2M151721408510 0 NOT APPLICABLE .00 96832 135 02 BOARD MESSAGE SOLARTECH 4GM2M15121408511 0 NOT APPLICABLE .00 96832 136 02 BOARD MESSAGE SOLARTECH 4GM2M151221408513 0 NOT APPLICABLE 1.00 96832 136 02 BOARD MESSAGE SOLARTECH	96832	125	96 TRAILER		0	NOT APPLICABLE	.00	
96031 127 97 TRAILER LOAD KING 1B4L3239V1121666 0 NOT APPLICABLE .00 96032 128 98 BOARD MESSAGE AMERICAN ELECTRONIC 1A9MS1513TA378125 0 NOT APPLICABLE .00 96832 129 98 BOARD MESSAGE AMERICAN ELECTRONIC 1A9MS1513TA378125 0 NOT APPLICABLE .00 96832 130 99 TRAILER SPECTRUM BCT 16-7500 1S9BS2420WB364284 0 NOT APPLICABLE .00 96832 131 99 BOARD MESSAGE ADECO, TRL MTD. CHANGEABLE 585967 0 NOT APPLICABLE .00 96832 132 02 TRAILER ZIEMAN CARRIER 1150 1ZCT21S2922P23815 9,999 NOT APPLICABLE .00 96832 134 02 EOARD MESSAGE SOLARTECH 4CM2M151021408511 0 NOT APPLICABLE .00 96832 136 02 BOARD MESSAGE SOLARTECH 4CM2M151021408512 0 NOT APPLICABLE .00 96832 136 02 BOARD MESSAGE SOLARTECH 4CM2M151021408513 0 NOT APPLICABLE .00 96832 137 02	96832	126	96 TRAILER		0	NOT APPLICABLE	.00	
96832 128 98 BOARD MESSAGE AMERICAN ELECTRONIC 1A981510TA378129 0 NOT APPLICABLE .00 96832 130 98 TRAILER SPECTRUM BCT 16-7500 1S9B52420WH364284 0 NOT APPLICABLE .00 96832 131 99 BOARD MESSAGE AMERICAN ELECTRONIC 1ASM31513TA378125 0 NOT APPLICABLE .00 96832 131 99 BOARD MESSAGE ADDCO, TRL NTD. CHANGEABLE 58567 0 NOT APPLICABLE 32,885.21 96832 133 02 BOARD MESSAGE SOLARTECH 4CM2M151021408519 0 NOT APPLICABLE .00 96832 134 02 BOARD MESSAGE SOLARTECH 4CM2M151021408511 0 NOT APPLICABLE .00 96832 136 02 BOARD MESSAGE SOLARTECH 4CM2M15121408511 0 NOT APPLICABLE .00 96832 136 02 BOARD MESSAGE SOLARTECH 4CM2M151221408512 0 NOT APPLICABLE .00 96832 136 02 BOARD MESSAGE SOLARTECH 4CM2M151221408514 0 NOT APPLICABLE 1.707.76 96832 140 O	96832	127	97 TRAILER LOAD KING	1B4L38239V1121666	0	NOT APPLICABLE	.00	
96832 129 98 BOARD MESSAGE AMERICAN ELECTRONIC 1A9M31513TA378125 0 NOT APELICABLE .00 96832 131 99 BOARD MESSAGE ADDCO, TRL MTD. CHANGEABLE 585967 0 NOT APELICABLE 32,885.21 9632 132 02 TRAILER ZIEMAN CARRIER 1150 12C72152922B3815 9,999 NOT APELICABLE 32,885.21 96332 134 02 BOARD MESSAGE SOLARTECH 4CM2M151021408510 0 NOT APELICABLE .00 96332 135 02 BOARD MESSAGE SOLARTECH 4CM2M151921408511 0 NOT APELICABLE .00 96332 135 02 BOARD MESSAGE SOLARTECH 4CM2M151021408512 0 NOT APELICABLE .00 96332 136 02 BOARD MESSAGE SOLARTECH 4CM2M151421408514 0 NOT APELICABLE .00 96332 136 02 BOARD MESSAGE SOLARTECH 4CM2M151421408514 0 NOT APELICABLE .00 96332 137 02 BOARD MESSAGE SOLARTECH 4CM2M151421408514 0 NOT APELICABLE .1,770.76 96332 140	96832	128	98 BOARD MESSAGE AMERICAN ELECTRONIC	1A9MS1510TA378129	0	NOT APPLICABLE	.00	
96832 130 98 TRAILER SPECTRUM BCT 16-7500 LS9BS2420WH364284 0 NOT APPLICABLE .00 96832 132 02 TRAILER ZIEMAN CARRIER 1150 12C721S292ZP23815 9,999 NOT APPLICABLE 8,020.78 96832 133 02 BOARD MESSAGE SOLARTECH 4GM2M151021408509 0 NOT APPLICABLE .00 96832 134 02 BOARD MESSAGE SOLARTECH 4GM2M151021408511 0 NOT APPLICABLE .00 96832 135 02 BOARD MESSAGE SOLARTECH 4GM2M151021408511 0 NOT APPLICABLE .00 96832 136 02 BOARD MESSAGE SOLARTECH 4GM2M151021408511 0 NOT APPLICABLE .00 96832 136 02 BOARD MESSAGE SOLARTECH 4GM2M151021408514 0 NOT APPLICABLE .00 96832 138 02 BOARD MESSAGE SOLARTECH 4GM2M151021408514 0 NOT APPLICABLE .00 96832 139 06 TRAILER ZIEMAN EQUIPMENT 1150 12C7212S286ZP26968 0 NOT APPLICABLE .00 96832 140 06 <	96832	129	98 BOARD MESSAGE AMERICAN ELECTRONIC	1A9MS1513TA378125	0	NOT APPLICABLE	.00	
96832 131 99 BOARD MESSAGE ADDCO, TRL MTD. CHANGEABLE 585967 0 NOT APELICABLE 32,685.21 96832 132 02 TRAILER ZIEMAN CARRIER 1150 12CT215292273815 9,999 NOT APELICABLE 6,020.78 96832 134 02 BOARD MESSAGE SOLARTECH 4GM2M15121408510 0 NOT APELICABLE .00 96832 136 02 BOARD MESSAGE SOLARTECH 4GM2M15121408511 0 NOT APELICABLE .00 96832 137 02 BOARD MESSAGE SOLARTECH 4GM2M15121408513 0 NOT APELICABLE .00 96832 137 02 BOARD MESSAGE SOLARTECH 4GM2M15121408513 0 NOT APELICABLE .00 96832 138 02 BOARD MESSAGE SOLARTECH 4GM2M151221408514 0 NOT APELICABLE 11,770.76 96832 140 06 TRAILER ZIEMAN EQUIPMENT 1150 12CT21S2X62F26969 9,999 NOT APELICABLE 11,770.76 96842 214 07 TRAFFIC SIGNAL SYSTEM (1) 12CB1A0A861496019 0 NOT APELICABLE 34,331.84 96842 216	96832	130	98 TRAILER SPECTRUM BCT 16-7500	159BS2420WH364284	0	NOT APPLICABLE	-00	
96832 132 02 TRAILER ZIEMAN CARRIER 1150 12CT21S292ZP23815 9,999 NOT APPLICABLE 60 96832 133 02 BOARD MESSAGE SOLARTECH 4GM2M151021408509 0 NOT APPLICABLE .00 96832 135 02 BOARD MESSAGE SOLARTECH 4GM2M151021408511 0 NOT APPLICABLE .00 96832 136 02 BOARD MESSAGE SOLARTECH 4GM2M151021408512 0 NOT APPLICABLE .00 96832 136 02 BOARD MESSAGE SOLARTECH 4GM2M151221408513 0 NOT APPLICABLE .00 96832 136 02 BOARD MESSAGE SOLARTECH 4GM2M151221408513 0 NOT APPLICABLE .00 96832 137 02 BOARD MESSAGE SOLARTECH 4GM2M151221408514 0 NOT APPLICABLE .00 96832 138 06 TRAILER ZIEMAN EQUIPMENT 1150 12CT21S2062P26968 0 NOT APPLICABLE 11,770.76 96832 140 06 TRAILER ZIEMAN EQUIPMENT 1150 12CT31S2062P26967 33,200 NOT APPLICABLE 11,770.76 96842 214 07 </td <td>96832</td> <td>131</td> <td>99 BOARD MESSAGE ADDCO, TRL MTD. CHANGEABLE</td> <td>585967</td> <td>0</td> <td>NOT APPLICABLE</td> <td>32,885.21</td> <td></td>	96832	131	99 BOARD MESSAGE ADDCO, TRL MTD. CHANGEABLE	585967	0	NOT APPLICABLE	32,885.21	
96832 133 02 EOARD MESSAGE SOLARTECH 4GM2M151021408509 0 NOT APPLICABLE .00 96832 134 02 EOARD MESSAGE SOLARTECH 4GM2M151721408510 0 NOT APPLICABLE .00 96832 135 02 EOARD MESSAGE SOLARTECH 4GM2M151021408511 0 NOT APPLICABLE .00 96832 136 02 EOARD MESSAGE SOLARTECH 4GM2M151021408512 0 NOT APPLICABLE .00 96832 137 02 EOARD MESSAGE SOLARTECH 4GM2M151221408513 0 NOT APPLICABLE .00 96832 136 02 EOARD MESSAGE SOLARTECH 4GM2M151221408514 0 NOT APPLICABLE .00 96832 136 02 EOARD MESSAGE SOLARTECH 4GM2M151221408514 0 NOT APPLICABLE .00 96832 140 06 TRAILER ZIEMAN EQUIPMENT 1150 12CT21S262F26967 33,200 NOT APPLICABLE 11,770.76 96842 141 06 TRAFFIC SIGMAL SYSTEM (1) 1C9B1A0A861496021 0 NOT APPLICABLE 34,331.84 96842 215 07 <t< td=""><td>96832</td><td>132</td><td>02 TRAILER ZIEMAN CARRIER 1150</td><td>1ZCT21S292ZP23815</td><td>9,999</td><td>NOT APPLICABLE</td><td>8,020.78</td><td></td></t<>	96832	132	02 TRAILER ZIEMAN CARRIER 1150	1ZCT21S292ZP23815	9,999	NOT APPLICABLE	8,020.78	
96832 134 02 BOARD MESSAGE SOLARTECH 4GM2M151721408510 0 NOT APPLICABLE .00 96832 135 02 BOARD MESSAGE SOLARTECH 4GM2M151021408511 0 NOT APPLICABLE .00 96832 136 02 BOARD MESSAGE SOLARTECH 4GM2M151021408513 0 NOT APPLICABLE .00 96832 137 02 BOARD MESSAGE SOLARTECH 4GM2M151421408514 0 NOT APPLICABLE .00 96832 138 02 BOARD MESSAGE SOLARTECH 4GM2M151421408514 0 NOT APPLICABLE .00 96832 139 06 TRAILER ZIEMAN EQUIPMENT 1150 12CT2152262P26966 0 NOT APPLICABLE 11,770.76 96832 140 06 TRAILER ZIEMAN EQUIPMENT 1227H 12CT3122662P26967 33,200 NOT APPLICABLE 26,560.33 96842 214 07 TRAFFIC SIGNAL SYSTEM (1) 1C9B1A0A861496019 0 NOT APPLICABLE 34,331.84 96842 215 07 TRAFFIC SIGNAL SYSTEM (2) 1CGB1A0A861496020 0 NOT APPLICABLE 34,331.84 96842 216	96832	133	02 BOARD MESSAGE SOLARTECH	4GM2M151021408509	0	NOT APPLICABLE	.00	
96832 135 02 BOARD MESSAGE SOLARTECH 4GM2M151921408511 0 NOT APPLICABLE .00 96832 136 02 BOARD MESSAGE SOLARTECH 4GM2M151021408512 0 NOT APPLICABLE .00 96832 137 02 BOARD MESSAGE SOLARTECH 4GM2M151221408513 0 NOT APPLICABLE .00 96832 138 02 BOARD MESSAGE SOLARTECH 4GM2M151221408514 0 NOT APPLICABLE 11,770.76 96832 139 06 TRAILER ZIEMAN EQUIPMENT 1150 12CT21S286ZP26968 0 NOT APPLICABLE 11,770.76 96832 141 06 TRAILER ZIEMAN EQUIPMENT 2327H 12CT21S286ZP26967 33,200 NOT APPLICABLE 26,560.33 96842 214 07 TRAFFIC SIGNAL SYSTEM (1) 1C9B1A0A861496019 0 NOT APPLICABLE 34,331.84 96842 216 07 TRAFFIC SIGNAL SYSTEM (1) 1C9B1A0A861496021 0 NOT APPLICABLE 34,331.84 96842 217 07 TRAFFIC SIGNAL SYSTEM (2) 1CGB1A0A661496016 0 NOT APPLICABLE 34,354.64 96842 <td< td=""><td>96832</td><td>134</td><td>02 BOARD MESSAGE SOLARTECH</td><td>4GM2M151721408510</td><td>0</td><td>NOT APPLICABLE</td><td>.00</td><td></td></td<>	96832	134	02 BOARD MESSAGE SOLARTECH	4GM2M151721408510	0	NOT APPLICABLE	.00	
96832 136 02 BOARD MESSAGE SOLARTECH 4GM2M151021408512 0 NOT APPLICABLE .00 96832 137 02 BOARD MESSAGE SOLARTECH 4GM2M151221408513 0 NOT APPLICABLE .00 96832 138 02 BOARD MESSAGE SOLARTECH 4GM2M151421408514 0 NOT APPLICABLE .00 96832 139 06 TRAILER ZIEMAN EQUIPMENT 1150 12CT2152862P26968 0 NOT APPLICABLE 11,770.76 96832 140 06 TRAILER ZIEMAN EQUIPMENT 1150 12CT2152862P26967 33,200 NOT APPLICABLE 11,770.76 96842 214 07 TRAFFIC SIGNAL SYSTEM (1) 1C9B1A0A861496019 0 NOT APPLICABLE 34,331.84 96842 215 07 TRAFFIC SIGNAL SYSTEM (1) 1C9B1A0A861496020 0 NOT APPLICABLE 34,331.84 96842 216 07 TRAFFIC SIGNAL SYSTEM (2) 1CGB1A0A661496017 0 NOT APPLICABLE 34,354.64 96842 219 07 TRAFFIC SIGNAL SYSTEM (2) C9GB1A0A661496017 0 NOT APPLICABLE 34,354.64 96862 <t< td=""><td>96832</td><td>135</td><td>02 BOARD MESSAGE SOLARTECH</td><td>4GM2M151921408511</td><td>0</td><td>NOT APPLICABLE</td><td>.00</td><td></td></t<>	96832	135	02 BOARD MESSAGE SOLARTECH	4GM2M151921408511	0	NOT APPLICABLE	.00	
96832 137 02 BOARD MESSAGE SOLARTECH 4GM2M151221408513 0 NOT APPLICABLE .00 96832 138 02 BOARD MESSAGE SOLARTECH 4GM2M151421408514 0 NOT APPLICABLE .00 96832 139 06 TRAILER ZIEMAN EQUIPMENT 1150 12CT2182862P26968 0 NOT APPLICABLE 11,770.76 96832 140 06 TRAILER ZIEMAN EQUIPMENT 1150 12CT2182862P26969 9,999 NOT APPLICABLE 11,770.76 96832 141 06 TRAILER ZIEMAN EQUIPMENT 2327H 12CT3182862P26967 33,200 NOT APPLICABLE 26,560.33 96842 214 07 TRAFFIC SIGNAL SYSTEM (1) 1C9B1A0A861496019 0 NOT APPLICABLE 34,331.84 96842 216 07 TRAFFIC SIGNAL SYSTEM (1) 1C9B1A0A861496021 0 NOT APPLICABLE 34,331.84 96842 217 07 TRAFFIC SIGNAL SYSTEM (2) 1CGB1A0A261496016 NOT APPLICABLE 34,354.64 96842 218 07 TRAFFIC SIGNAL SYSTEM (2) C9GB1A0A661496017 NOT APPLICABLE 34,354.64 96862 120	96832	136	02 BOARD MESSAGE SOLARTECH	4GM2M151021408512	0	NOT APPLICABLE	.00	
96832 138 02 BOARD MESSAGE SOLARTECH 4GM2M151421408514 0 NOT APPLICABLE .00 96832 139 05 TRAILER ZIEMAN EQUIPMENT 1150 12CT2152862P26968 0 NOT APPLICABLE 11,770.76 96832 140 06 TRAILER ZIEMAN EQUIPMENT 1150 12CT2152862P26969 9,999 NOT APPLICABLE 11,770.76 96832 141 06 TRAILER ZIEMAN EQUIPMENT 2327H 12CT3152862P26967 33,200 NOT APPLICABLE 26,560.33 96842 214 07 TRAFFIC SIGNAL SYSTEM (1) 1C9B1A0A861496019 0 NOT APPLICABLE 34,331.84 96842 216 07 TRAFFIC SIGNAL SYSTEM (1) 1C9B1A0A861496021 0 NOT APPLICABLE 34,331.84 96842 217 07 TRAFFIC SIGNAL SYSTEM (2) 1CGB1A0A261496016 0 NOT APPLICABLE 34,354.64 96842 218 07 TRAFFIC SIGNAL SYSTEM (2) 1CGB1A0A661496017 0 NOT APPLICABLE 34,354.64 96842 219 07 TRAFFIC SIGNAL SYSTEM (2) C9GB1A0A661496018 0 NOT APPLICABLE 34,354.64	96832	137	02 BOARD MESSAGE SOLARTECH	4GM2M151221408513	0	NOT APPLICABLE	.00	
96832 139 06 TRAILER ZIEMAN EQUIPMENT 1150 1ZCT21S286ZP26968 0 NOT APPLICABLE 11,770.76 96832 140 06 TRAILER ZIEMAN EQUIPMENT 1150 1ZCT21S286ZP26969 9,999 NOT APPLICABLE 11,770.76 96832 141 06 TRAILER ZIEMAN EQUIPMENT 2327H 1ZCT31S286ZP26967 33,200 NOT APPLICABLE 26,560.33 96842 214 07 TRAFFIC SIGNAL SYSTEM (1) 1C9BLA0A861496019 0 NOT APPLICABLE 34,331.84 96842 216 07 TRAFFIC SIGNAL SYSTEM (1) 1C9BLA0A861496021 0 NOT APPLICABLE 34,331.84 96842 217 07 TRAFFIC SIGNAL SYSTEM (2) 1CGBLA0A861496016 0 NOT APPLICABLE 34,354.64 96842 218 07 TRAFFIC SIGNAL SYSTEM (2) 1CGBLA0A661496016 0 NOT APPLICABLE 34,354.64 96842 219 07 TRAFFIC SIGNAL SYSTEM (2) C9GBLA0A661496018 0 NOT APPLICABLE 34,354.64 96862 120 04 SCAFFOLD-SUSPENDED FOWER CLIMBER (3) 005001 0 NOT APPLICABLE 82,639.91 <	96832	138	02 BOARD MESSAGE SOLARTECH	4GM2M151421408514	0	NOT APPLICABLE	.00	
96832 140 06 TRAILER ZIEMAN EQUIPMENT 1150 1ZCT21S2X6ZP26969 9,999 NOT APPLICABLE 11,770.76 96832 141 06 TRAILER ZIEMAN EQUIPMENT 2327H 1ZCT31A286GR26967 33,200 NOT APPLICABLE 26,560.33 96842 214 07 TRAFFIC SIGNAL SYSTEM (1) 1C9B1A0A861496019 0 NOT APPLICABLE 34,331.84 96842 215 07 TRAFFIC SIGNAL SYSTEM (1) 1C9B1A0A861496020 0 NOT APPLICABLE 34,331.84 96842 216 07 TRAFFIC SIGNAL SYSTEM (1) 1C9B1A0A861496012 0 NOT APPLICABLE 34,331.84 96842 217 07 TRAFFIC SIGNAL SYSTEM (2) 1CGB1A0A261496016 0 NOT APPLICABLE 34,354.64 96842 218 07 TRAFFIC SIGNAL SYSTEM (2) 1CGB1A0A661496017 0 NOT APPLICABLE 34,354.64 96842 219 07 TRAFFIC SIGNAL SYSTEM (2) C9GB1A0A661496018 0 NOT APPLICABLE 34,354.64 96862 120 04 SCAFFOLD-SUSPENDED POWER CLIMBER (3) 005001 0 NOT APPLICABLE 82,639.91 96862 121 04 SCAFFOLD-SUSPENDED POWER CLIMBER (3) 005003 0	96832	139	06 TRAILER ZIEMAN EQUIPMENT 1150	1ZCT21S286ZP26968	Q	NOT APPLICABLE	11,770.76	
96832 141 06 TRAILER ZIEMAN EQUIPMENT 2327H 12CT31A286ZP26967 33,200 NOT APPLICABLE 26,560.33 96842 214 07 TRAFFIC SIGNAL SYSTEM (1) 1C9B1A0A861496019 0 NOT APPLICABLE .00 96842 215 07 TRAFFIC SIGNAL SYSTEM (1) 1C9B1A0A861496020 0 NOT APPLICABLE 34,331.84 96842 216 07 TRAFFIC SIGNAL SYSTEM (1) 1C9B1A0A861496021 0 NOT APPLICABLE 34,331.84 96842 217 07 TRAFFIC SIGNAL SYSTEM (2) 1CGB1A0A261496016 0 NOT APPLICABLE 34,354.64 96842 218 07 TRAFFIC SIGNAL SYSTEM (2) C9GB1A0A261496017 0 NOT APPLICABLE 34,354.64 96842 219 07 TRAFFIC SIGNAL SYSTEM (2) C9GB1A0A661496017 0 NOT APPLICABLE 34,354.64 96842 219 07 TRAFFIC SIGNAL SYSTEM (2) C9GB1A0A661496018 0 NOT APPLICABLE 34,354.64 96862 120 04 SCAFFOLD-SUSPENDED POWER CLIMBER (3) 005002 0 NOT APPLICABLE 82,639.91 9686	96832	140	06 TRAILER ZIEMAN EQUIPMENT 1150	1ZCT21S2X6ZP26969	9,999	NOT APPLICABLE	11,770.76	
96842 214 07 TRAFFIC SIGNAL SYSTEM (1) 1C9B1A0A861496019 0 NOT APPLICABLE .00 96842 215 07 TRAFFIC SIGNAL SYSTEM (1) 1C9B1A0A861496020 0 NOT APPLICABLE 34,331.84 96842 216 07 TRAFFIC SIGNAL SYSTEM (1) 1C9B1A0A861496021 0 NOT APPLICABLE 34,331.84 96842 217 07 TRAFFIC SIGNAL SYSTEM (2) 1CGB1A0A861496011 0 NOT APPLICABLE 34,354.64 96842 218 07 TRAFFIC SIGNAL SYSTEM (2) 1CGB1A0A661496017 0 NOT APPLICABLE 34,354.64 96842 219 07 TRAFFIC SIGNAL SYSTEM (2) C9GB1A0A661496017 0 NOT APPLICABLE 34,354.64 96842 120 04 SCAFFOLD-SUSPENDED POWER CLIMBER (3) 005001 0 NOT APPLICABLE 82,639.91 96862 121 04 SCAFFOLD-SUSPENDED POWER CLIMBER (3) 005003 0 NOT APPLICABLE 82,639.91 96862 122 04 SCAFFOLD-SUSPENDED FOWER CLIMBER (3) 005003 0 NOT APPLICABLE 82,639.91 96862	96832	141	06 TRAILER ZIEMAN EQUIPMENT 2327H	1ZCT31A286ZP26967	33,200	NOT APPLICABLE	26,560.33	
96842 215 07 TRAFFIC SIGNAL SYSTEM (1) 1C9B1A0A861496020 0 NOT APPLICABLE 34,331.84 96842 216 07 TRAFFIC SIGNAL SYSTEM (1) 1C9B1A0A861496021 0 NOT APPLICABLE 34,331.84 96842 217 07 TRAFFIC SIGNAL SYSTEM (2) 1CGB1A0A861496016 0 NOT APPLICABLE 34,354.64 96842 218 07 TRAFFIC SIGNAL SYSTEM (2) 1CGB1A0A661496017 0 NOT APPLICABLE 34,354.64 96842 219 07 TRAFFIC SIGNAL SYSTEM (2) C9GB1A0A661496018 0 NOT APPLICABLE 34,354.64 96862 120 04 SCAFFOLD-SUSPENDED POWER CLIMBER (3) 005001 0 NOT APPLICABLE 82,639.91 96862 121 04 SCAFFOLD-SUSPENDED POWER CLIMBER (3) 005003 0 NOT APPLICABLE 82,639.91 96862 122 04 SCAFFOLD-SUSPENDED POWER CLIMBER (3) 005003 0 NOT APPLICABLE 82,639.91 96862 124 07 SCAFFOLD POWER CLIMBER PLATFORM 807B3123/E07B3132 0 NOT APPLICABLE 33,998.72 96	96842	214	07 TRAFFIC SIGNAL SYSTEM (1)	1C9B1A0A861496019	0	NOT APPLICABLE	.00	
96842 216 07 TRAFFIC SIGNAL SYSTEM (1) 1C9B1A0A861496021 0 NOT APPLICABLE 34,331.84 96842 217 07 TRAFFIC SIGNAL SYSTEM (2) 1CGB1A0A261496016 0 NOT APPLICABLE 34,354.64 96842 218 07 TRAFFIC SIGNAL SYSTEM (2) 1CGB1A0A661496017 0 NOT APPLICABLE 34,354.64 96842 219 07 TRAFFIC SIGNAL SYSTEM (2) C9GB1A0A661496018 0 NOT APPLICABLE 34,354.64 96862 120 04 SCAFFOLD-SUSPENDED POWER CLIMBER (3) 005001 0 NOT APPLICABLE 82,639.91 96862 122 04 SCAFFOLD-SUSPENDED POWER CLIMBER (3) 005003 0 NOT APPLICABLE 82,639.91 96862 122 04 SCAFFOLD-SUSPENDED POWER CLIMBER (3) 005003 0 NOT APPLICABLE 82,639.91 96862 122 04 SCAFFOLD POWER CLIMBER PLATFORM E07B3123/E07B3132 0 NOT APPLICABLE 33,998.72 96862 124 07 SCAFFOLD POWER CLIMBER PLATFORM E07B3131/E07B3124 0 NOT APPLICABLE 33,998.72	96842	215	07 TRAFFIC SIGNAL SYSTEM (1)	1C9B1A0A861496020	0	NOT APPLICABLE	34,331.84	
96842 217 07 TRAFFIC SIGNAL SYSTEM (2) 1CGB1A0A261496016 0 NOT APPLICABLE 34,354.64 96842 218 07 TRAFFIC SIGNAL SYSTEM (2) 1CGB1A0A661496017 0 NOT APPLICABLE 34,354.64 96842 219 07 TRAFFIC SIGNAL SYSTEM (2) C9GB1A0A661496017 0 NOT APPLICABLE 34,354.64 96862 120 04 SCAFFOLD-SUSPENDED POWER CLIMBER (3) 005001 0 NOT APPLICABLE 82,639.91 96862 122 04 SCAFFOLD-SUSPENDED POWER CLIMBER (3) 005003 0 NOT APPLICABLE 82,639.91 96862 122 04 SCAFFOLD POWER CLIMBER (3) 005003 0 NOT APPLICABLE 82,639.91 96862 124 07 SCAFFOLD POWER CLIMBER PLATFORM E07B3123/E07B3132 0 NOT APPLICABLE 33,998.72 96862 125 07 SCAFFOLD POWER CLIMBER PLATFORM E07B3131/E07B3124 0 NOT APPLICABLE 33,998.72	96842	216	07 TRAFFIC SIGNAL SYSTEM (1)	1C9B1A0A861496021	0	NOT APPLICABLE	34,331.84	
96842 21.8 07 TRAFFIC SIGNAL SYSTEM (2) 1CGB1A0A661496017 0 NOT APPLICABLE 34,354.64 96842 219 07 TRAFFIC SIGNAL SYSTEM (2) C9GB1A0A661496018 0 NOT APPLICABLE 34,354.64 96862 120 04 SCAFFOLD-SUSPENDED POWER CLIMBER (3) 005001 0 NOT APPLICABLE 82,639.91 96862 121 04 SCAFFOLD-SUSPENDED POWER CLIMBER (3) 005002 0 NOT APPLICABLE 82,639.91 96862 122 04 SCAFFOLD-SUSPENDED POWER CLIMBER (3) 005003 0 NOT APPLICABLE 82,639.91 96862 124 07 SCAFFOLD POWER CLIMBER PLATFORM E07B3123/E07B3132 0 NOT APPLICABLE 33,998.72 96862 125 07 SCAFFOLD POWER CLIMBER PLATFORM E07B3131/E07B3124 0 NOT APPLICABLE 33,998.72	96842	21.7	07 TRAFFIC SIGNAL SYSTEM (2)	1CGB1A0A261496016	0	NOT APPLICABLE	34,354,64	
96842 219 07 TRAFFIC SIGNAL SYSTEM (2) C9GBLA0A661496018 0 NOT APPLICABLE 34,354.64 96862 120 04 SCAFFOLD-SUSPENDED POWER CLIMBER (3) 005001 0 NOT APPLICABLE 82,639.91 96862 121 04 SCAFFOLD-SUSPENDED POWER CLIMBER (3) 005002 0 NOT APPLICABLE 82,639.91 96862 122 04 SCAFFOLD-SUSPENDED POWER CLIMBER (3) 005003 0 NOT APPLICABLE 82,639.91 96862 124 07 SCAFFOLD POWER CLIMBER PLATFORM E07B3123/E07B3132 0 NOT APPLICABLE 33,998.72 96862 125 07 SCAFFOLD POWER CLIMBER PLATFORM E07B3131/E07B3124 0 NOT APPLICABLE 33,998.72	96842	21.8	07 TRAFFIC SIGNAL SYSTEM (2)	1CGB1A0A661496017	Û	NOT APPLICABLE	34,354.64	
96862 120 04 SCAFFOLD-SUSPENDED POWER CLIMBER (3) 005001 0 NOT APPLICABLE 82,639.91 96662 121 04 SCAFFOLD-SUSPENDED POWER CLIMBER (3) 005002 0 NOT APPLICABLE 82,639.91 96662 122 04 SCAFFOLD-SUSPENDED POWER CLIMBER (3) 005003 0 NOT APPLICABLE 82,639.91 96862 124 07 SCAFFOLD POWER CLIMBER PLATFORM E07B3123/E07B3132 0 NOT APPLICABLE 33,998.72 96862 125 07 SCAFFOLD POWER CLIMBER PLATFORM E07B3131/E07B3124 0 NOT APPLICABLE 33,998.72	96842	219	07 TRAFFIC SIGNAL SYSTEM (2)	C9GB1A0A661496018	0	NOT APPLICABLE	34.354.64	
96862 121 04 SCAFFOLD-SUSPENDED POWER CLIMBER (3) 005002 0 NOT APPLICABLE 82,639.91 96862 122 04 SCAFFOLD-SUSPENDED POWER CLIMBER (3) 005003 0 NOT APPLICABLE 82,639.91 96862 124 07 SCAFFOLD POWER CLIMBER PLATFORM E07B3123/E07B3132 0 NOT APPLICABLE 33,998.72 96862 125 07 SCAFFOLD POWER CLIMBER PLATFORM E07B3131/E07B3124 0 NOT APPLICABLE 33,998.72	96862	120	04 SCAFFOLD-SUSPENDED POWER CLIMBER (3)	005001	Ó	NOT APPLICABLE	82,639.91	
96862 122 04 SCAFFOLD-SUSPENDED POWER CLIMBER (3) 005003 0 NOT APPLICABLE 82,639.91 96862 124 07 SCAFFOLD POWER CLIMBER PLATFORM E07B3123/E07B3132 0 NOT APPLICABLE 33,998.72 96862 125 07 SCAFFOLD POWER CLIMBER PLATFORM E07B3131/E07B3124 0 NOT APPLICABLE 33,998.72	96862	121	04 SCAFFOLD-SUSPENDED POWER CLIMBER (3)	005002	Ó	NOT APPLICABLE	82,639.91	
96862 124 07 SCAFFOLD POWER CLIMBER PLATFORM E07B3123/E07B3132 0 NOT APPLICABLE 33,998.72 96862 125 07 SCAFFOLD POWER CLIMBER PLATFORM E07B3131/E07B3124 0 NOT APPLICABLE 33,998.72	96862	122	04 SCAFFOLD-SUSPENDED POWER CLIMBER (3)	005003	ő	NOT APPLICABLE	82,639,91	
96862 125 07 SCAFFOLD POWER CLIMBER PLATFORM E07B3131/E07B3124 0 NOT APPLICABLE 33,998.72	96862	124	07 SCAFFOLD POWER CLIMBER PLATFORM	E07B3123/E07B3132	. 0	NOT APPLICABLE	33,998,72	
	96862	125	07 SCAFFOLD POWER CLIMBER PLATFORM	E07B3131/E07B3124	ő	NOT APPLICABLE	33,998,72	
KUKL SYDE TOPAL				·	2		FUEL TYPE TOTAL	

ч.

HIGHWAYS DIVISION - OAHU DISTRICT E/U ALTERNATIVE FUEL REPORT BY FUEL TYPE 9/10/08

.

PERIOD: 07/01/07 THRU 06/30/08

¢

							ACQUIS	ITION
EQUIPM	lent	DESC	RIPTION	SERIAL NUMBER	. GVW	FUEL	COST	DATE
91812	484	93 S	EDAN: CHEV CAVALIER 4DSD	1G1JC5441P7325708	0	GASOLINE	0.0 898 8	00/01/03
91812	485	93 S	EDAN: CHEV CAVALIER 4DSD	1G1JC5445P7336940	ő	GASOLINE	8 888 00	08/01/93
91812	487	93 S	EDAN: CHEV CAVALIER	1G1JC5446P7339197	0	GASOLINE	0,000.00 0 900 AA	00/01/03
91812	488	93 T.	RUCK: GMC SUBURBAN 4WD	1GKGK26K1P.7246057	0	CASOLINE CASOLINE	0,000.00	08/01/93
91812	489	94 T	RUCK: CHEV S-10 PICKUP	16008144188180629	n N	GASOLINE	10 224 40	06/01/93
91812	491	94 T	RUCK: CHEV S-10 PICKUP	16008144188178507	0 N	CASOLINE	10,554.48	.06/01/94
91812	492	94 T	RUCK: CHEV S-10 PICKUP/EXCH FOR 464)	16009144408178969	0	CAROLINE	10,555.40	06/01/94
91812	493	94 T	RUCK: CHEV S-10 PICKUP	10000144480178505	0	GASOLINE CAROLINE	10,554.49	06/01/94
91812	494	94 T	RUCK: CHEV S-10 PICKUP	100091444080176794	0	CASOLINE CASOLINE	10,553.40	06/01/94
91812	496	94 T	RUCK: CHEVY S-10 PTCKIP	10000144480100074	0	GAGODINE GAGODINE	10,553,40	06/01/94
91812	500	94 S	EDAN: OLDSMOBILE CUTLASS CIERA(EYC 456)	10310555596207806	0	GASOLINE	10,553.40	06/01/94
91812	501	94 S	TA WGN: OLDSMOBILE CUTLASS CRUISER	10370558386397800	0	GASUDINE GAGOLINE	13,027,13	06/01/94
91812	502	94 S	TA WGN: OLDSMOBILE CUPLASS CRUISSR	1032030501386597822	0	GASOLINE	13,130.25	06/01/94
91812	503	94 8	TA WON: OLDSMOBILE CUTLASS CRUISER	10340550402884	U	GASOLINE	13,832.34	06/01/94
91812	504	94 5	TA WON. OLDSMOBILE CUTLAGE CRUICER	103200000000000000000000000000000000000	0	GASULINE	13,931.29	06/01/94
91812	505	94 5	TA WON-OLDSMOBILE CUTLASS CRUISER	10370630166399216	U	GASOLINS	13,931.29	06/01/94
91812	506	94 97	TA NON, OLDSMOSING CUIMASS CRUISER	103AJ85M0R6399238	<u> </u>	GASOLINE	13,906.30	06/01/94
91812	507	94 97	TA NEW OLDSWORTHE CUTHASS CRUISER	103AJ85M6K6400845	U	GASOLINE	13,906.30	06/01/94
91812	509	24 Q.	RUCK, OUTINOI EM 1 (2 TON DIGUTE (DIGUTE (142)	1G3AJ85M5R6400707	0	GASOLINE	13,931.29	06/01/94
91912	511	0/ 01	RUCK: CHEVROLET 1/2 TON PICKUP(EXCH 449	1GCDC14H1RZ217659	0	GASOLINE	13,667.77	06/01/94
01012	512	04 11	NUCKI CHEVROLET 1/2 TON PICKUP	1GCDC14H8RZ217738	0	GASOLINE	13,666.77	06/01/94
01010	514	94 V/	AN: GAU SAFARI	1GKDM15Z1RB542846	0	GASOLINE	15,072.96	08/01/94
21012 01040	513	94 17	AN: GMC SPORT RALLY	1GKEG25H3RF532871	0	GASOLINE	16,144.84	06/01/94
91014	514	94 5	TATION WAGON: CHEVROLET CAVALIER	1G1JC8445R7317633	0	GASOLINE	11,859.15	06/01/94
31814	211	94 T	RUCK; CHEV. PICKUP W/ SKID TRAILER	1GCGC33NORJ408472	0	GASOLINE	22,682.00	11/01/94
91915	218	94 T	RUCK: GMC SIERRA CLUB COUPE	1GTHK39F4RE503732	0	GASOLINE	143,457.00	09/01/95
91917	519	85 19	RUCK: CHEV 4WD P/U-MILITARY	1GCGD34J2FF434840	0	GASOLINE	1,600.00	08/01/96
A1917	520	85 TI	RUCK: CHEV 4ND P/U-MILITARY	1GCHD34J0FF444366	0	GASOLINE	1,600.00	08/01/96
91815	521	84 TI	RUCK: CREV. PICKUP	1GCHD34J6EF357800	0	GASOLINE	1,600.00	
91913	528	97 TI	RUCK: CHEV S-10 EXT CAB PICKUP CHEYENNE	1GCCS19X1VK179464	0	GASOLINE	17,015.61	04/01/97
91812	529	97 TI	RUCK: CHEV S-10 EXT CAB PICKUP CHEYENNE	1GCCS19X2VK179571	0	GASOLINE	17,015.61	04/01/97
91815	530	97 TI	WCK: CHEV S-10 EXT CAB PICKUP CHEYENNE	1GCCS19X0VK179665	0	GASOLINE	17,015.61	04/01/97
91813	531	97 TF	RUCK: CHEV S-10 EXT CAB PICKUP CHEYENNE	1GCCS19X4VK179622	0	GASOLINE	17,171.86	04/01/97
91812	532	97 TE	RUCK: CHEV S-10 PICK UP	1GCCS14X7V8169705	0	GASOLINE	14,648.95	05/01/97
91812	533	· 97 TH	RUCK: CHEV S-10 PICK UP	1GCCS14X3V8170558	0	GASOLINE	14,648.95	05/01/97
91812	534	97 TH	NUCK: CHEV S-10 PICKUP	1GCCS14X9V8169690	0	GASOLINE	14,648.95	05/01/97
91812	535	97 TH	RUCK: CHEV S-10 PICKUP	1GCCS14X2V8169854	0	GASOLINE	14,648.95	05/01/97
91812	536	97 TF	NUCK: CHEV S-10 PICKUP	1GCCS14X7V8168862	0	GASOLINE	14,648.95	05/01/97
91812	538	97 TF	RUCK: CHEV 1/2 TON PICKUP	1GCEC14M0V2216420	0	GASOLINE	19,269.78	06/01/97
91812	539	85 TF	RUCK: CHEVROLET PICK UP	1GCGD34J2FF425426	Ð	GASOLINE	1,600.00	04/01/97
91812	540	85 TF	RUCK: CHEVROLET PICKUP	1GCGD34J5FF425498	0	GASOLINE	1,600,00	04/01/97
91812	541	85 TF	RUCK: CHEVROLET PICKUP	1GCGD34JXFF426761	0	GASOLINE	1,600,00	04/01/97
91812	542	86 TF	WCK: CHEV 4WD P/U- MILITARY	1GCGD34J0GF362375	0	GASOLINE	1 600.00	06/01/97
91812	544	97 VA	N: FORD ECONOLINE	1FTHE242XVH809473	0	GASOLINE	20 000 00	06/01/97
91812	545	97 VA	N: FORD ECONOLINE	1FTHE2421VH809474	ñ	GASOLINE	20 000 00	06/01/97
91812	546	97 V7	N: FORD ECONOLINE	1FTHE2423VHB09475	ñ	GASOLINE	20 000 00	06/01/07
91812	547	96 TS	RUCK: TOYOTA PICK UP	4TAWN72NXT7103533	3.670	GASOLINE	15 171 04	06/01/9/
91812	548	96 TR	UCK; TOYOTA PICK UP	4TAWN72NXTZ118386	3,670	GASOLINE	15 171 04	06/01/04
91812	549	92 ST	ATION WAGON TOYOTA 4DR LAND CRIVISER	JT3FJB0W3N0044046	4.700	GASOLINE	AA AA	06/01/90
91812	553	98 BL	AZER CHEVROLET 4 DR	1GNCS13WXWK245714	·x,,νυ Δ	GASOLINE	22 0E1 02	00/01/02
91812	554	92 WA	GON: FORD EXPLORER STATION WAGON	1 501043221 001059197	0	CASCHINE	67,107,64 ^^	00/01/98
91812	556	98 SF	DAN: CHEVROLET CAVALIER 4 DR	361.70524386962406	л	GASOLIME	17 007 75	06/01/92
						010001110		00/01/30

.

						ACQUIS	1111ON~
EQUIP	4ENT	DESCRIPTION	SERIAL NUMBER	. GVW	FUEL	COST	DATE
91812	564	95 SEDAN: CHEVROLET CORSICA 4 DR.	1611.055872971838	٥	CA COLTAIR	6 100 00	06/01/05
91812	565	95 SEDAN: CHEVROLET CORSICA 4 DR.	1G11055AM68Y273323	ŏ	GASOLINE	6 100.00	06/01/95
91812	566	95 SEDAN: CHEVROLET CORSICA 4 DR.	1611055M4SY284594	ő	GABOLINE	6 100 00	06/01/95
91812	567	95 SEDAN: CHEVROLET CAPRICE 4DR.	1G1 BL 52W08B1 63723	õ	CASOLINE CASOLINE	11 000.00	06/01/95
91812	569	98 TRUCK: FORD RANGER	1 FTZR1504WPA05345	ő	GASOLINE	11,900.00	06/01/99
91812	570	98 TRUCK: FORD RANGER	1 FT2R1 5118WP3 05347	ő	CASOLINE	.00	00/01/90
91812	571	98 TRUCK: FORD MPVH EXPLORER	1 FM21134 E9WIIA20005	0	GASOLINE	.00	06/01/90
91812	575	98 TRUCK: FORD RANGER PICK UP	1 KT2R1 5116WPA05346	0	GASOLINE	.00	06/01/98
91812	578	95 SEDAN: FORD TAURUS 4 DR.	1 FAL 95211 \$2230476	ŏ	GAGOLINE	6 500 00	06/01/95
91812	579	00 VAN: CHEVROLET ASTRO	1GNDM1 9W1 YB181166	ő	GAGOLINE GAGOLINE	109 100 00	06/01/00
91812	580	00 WAGON: JEEP CHEROKEE MPVH 4 DR.	1.J4FT2852YT208971	'n	GAGODINE GAGODINE	25 030 05	06/01/00
91812	581	00 SEDAN: CHEVROLET 4 DR. MALIBU	SN1G1ND52.T9Y6256443	ő	GASOLINE GASOLINE	17 /05 30	06/01/00
91812	582	00 TRUCK: GMC S-15 PU	167071988828267907	0	CAROLINE .	1 00	06/01/00
91812	583	00 TRUCK; GMC 2-15 PU	1010110102070039	0	GASOLINE GASOLINE	1.00	06/01/00
91812	584	93 TRUCK: DODGE PICKUP D250 RAM	187.TE26X5D8257238	0	GAGODINE GAGODINE	E 000 00	06/01/00
91812	595	01 SEDAN: CHEVROLET 4 DOOR IMPALA	20102552919344274	A 473	GABODINE GABODINE	31 035 00	06/01/93
91812	610	95 SEDAN: FORD TAURIUS 4 DR	1 PAT.DE04Y030476	3 330	GASODINS GASODINS	21,025.00	06/01/01
91812	637	04 TRUCK DODGE DAKOTA ADR	107902280045710546	022,6	GASOGINE GAGOTINE	.00	06/01/95
91812	655	05 TRICK DODGE RISAA DICENTE	1070316306640716546		GASODINE	22,859.23	12/09/04
91812	674	05 SUVI FORD SXPLOPER	1 PM//ICOVACID9/CCOD	0	GASOLINE	23,352.98	09/29/05
91812	676	05 TRUCK FORD PANGER DI	1 20120 400600 000000000000000000000000000000	0	GASOLINE	23,176.93	12/30/05
91812	678	02 SEDAN. OLDSMORILE ALERO	1F11K44025FA01711	0	GASOLINE	21,195.80	12/30/05
91812	679	02 SEDAN, OLDEMOBILE MEERO	103101521820255380	0	GASULINE	7,150.00	03/13/07
91812	680	02 SEDAN, OLDSHOBILE ALERO	1G3NL52F52C244403	0	GASOLINE	7,150.00	03/13/07
91812	691	OF SHE FORD FURDING ANA	LG3NL52F92C244324	0	GASOLINE	7,150.00	03/13/07
91.812	692	AC SUM FORD EXPEDITION ALS 4X4	1FMPU14506LA83463	0	GASOLINE	37,117.26	01/22/07
01012	603	AC SHU FORD EXPEDITION ALS 4X4	1FMPU14596LA83462	0	GASOLINE	37,117.26	01/22/07
91912	604	OC SUV FORD EXPEDITION XLS 4X4	1FMPU14576LA83461	0	GASOLINE	37,117.26	01/05/07
01012	COF	OG SUV FORD EXPEDITION XLS 4X4	1FMPU14596LA83459	0	GASOLINE	37,117.26	01/05/07
01012	606	06 SUV FORD EXPEDITION XLS 4X4	1FMPU14526LA83464	0	GASOLINE	37,117.26	01/22/07
01010	6070	AS ON FORD EXPEDITION XLS 4X4	1FMPU14576LA83458	0	GASOLINE	37,117.26	01/22/07
91014	697	06 SUV FORD EXPEDITION XLS 4X4	1FMPU14556LA83460	0	GASOLINE	37,117.26	01/22/07
91012	698	06 SUV FORD EXPEDITION XLS 4X4	1FMPU14546LA83465	0	GASOLINE	37,117.26	01/22/07
91010	707	08 TRUCK 07 FISO W/LIFT GATE	1FTRF12VX7KD42204	0	GASOLINE	40,702.47	03/14/08
91812	AT0	08 SUV FORD EXPEDITION 1FMPK16558LA08808	1FMFK16558LA08808	0	GASOLINE	41,086.7 6	04/21/08
91812	712	08 SUV 08 FORD EXPLORER 4X4	1FMEU73E08UA15852	0	GASOLINE	30,756.92	05/12/08
91812	714	08 SUV FORD EXPLORER SPORT UTILITY 4X4	1FMEU73E98UA15851	0	GASOLINE	30,756.42	05/28/08
91822	163	81 FORKLIFT: TOYOTA	2FG3020424	0	GASOLINE	17,115.00	06/01/81
91822	196	92 FORKLIFT: YALE FORKLIFT TRUCK	N523949	0	GASOLINE	20,046.00	09/01/92
91822	220	94 TRUCK: GMC	1GDM7H1J8RJ502423	32,000	GASOLINE	80,861.00	09/01/95
91822	221	94 TRUCK: GMC	1GDM7H1J3RJ501258	32,000	GASOLINE	80,861.00	09/01/95
91822	225	77 FORKLIFT: ALIS CHALMERS ACC-40B PS	102882	0	GASOLINE	900.00	06/01/77
91822	229	77 FORKLIFT: ALLISCHALMERS ACC-40BPS	102871	0	GASOLINE	1,500.00	06/01/77
91842	169	84 KELLY-CRESWELL STRIPING MACHINE	3623	0	GASOLINE	9,994.40	11/01/84
91842	172	86 MB STRIPING MACHINE	3-0584	0 .	GASOLINE	2,784.09	06/01/86
91842	196	90 MOWER: CUBCADET POWER	000189371	0	GASOLINE	3,593.76	08/01/90
91842	202	91 MOWER: SNAPPER POWER	05077521	0	GASOLINE	2,698,80	06/01/91
91842	214	94 MACHINE STRIPING KELLY CRESNELL	KCB42T	0	GASOLINE	19,344.11	02/01/94
91842	229	96 GENERATOR, HONDA GA-6HZ	5131560	0	GASOLINE	2,945.00	12/01/96
91842	235	96 MIXER, BETONIERA WORKMAN 250 CONCRETE	123789	0	GASOLINE	2,442,96	01/01/9A
91842	239	98 STRIPING MACHINE KELLY CRESWELL HDCT-2	8007	0	GASOLINE	17.290.70	06/01/98
91842	263	99 STRIPING MACHINE: MB W/POWER DRIVE 5-12	399041271	0	GASOLINE	11,467,00	06/01/99

----ACQUISITION-----

PERIOD: 07/01/07 THRU 06/30/08

۲

HIGHWAYS DIVISION - OAHU DISTRICT E/U ALTERNATIVE FUEL REPORT BY FUEL TYPE 9/10/08

.

HIGHWAYS DIVISION - OAHU DISTRICT E/U ALTERNATIVE FUEL REPORT BY FUEL TYPE 9/10/08

PERIOD: 07/01/07 THRU 06/30/08

4

••

				•		ACQUISI	TION
EQUIPN	ENT	DESCRIPTION	SERIAL NUMBER	GVW	FUEL	COST	DATE
91842	276	03 TRAILER: SPECTRUM W/CHEM SPRAYER TANK	159ES16163H364226	Ø	GASOLINE	.00	06/01/97
91842	277	00 STRIPING MACHINE: KELLY CRESNELL HDCT	SN8173	0	GASOLINE	13,956.72	06/01/97
91842	278	00 STRIPING MACHINE: KELLY CRESWELL HDCT	8174	0	GASOLINE	13,956.72	06/01/97
91842	300	03 STRIPPING MACHINE: KELLY CRESWELL B4-2T	8377	0	GASOLINE	29,725.14	10/30/03
91842	312	06 WELDER LINCOLN 10KW K2468-1	159E514146H364223	0	GASOLINE	31,340.00	05/01/07
91842	314	06 GENERATOR HONDA EB70001	EAKJ1002570	0	GASOLINE	6,495.00	02/16/07
91842	316	06 ERADICATOR ROBIN MOD 20H W/VACUUM		0	GASOLINE	9,979.98	02/16/07
91842	317	06 WELDER LINCOLN 06 K2468-1	9ES14166H364224	0	GASOLINE	31,340.00	05/01/07
91842	318	06 GENERATOR BRIGGS & STRATTON MOD 030242	1013892078	0	GASOLINE	2,548.08	02/16/07
91842	320	08 SPRAYER 06 TRAILER MTD MCGREGOR EQMR-300	RS335707	0	GASOLINE	25,812.33	09/07/07
91862	106	87 ADVANCE INDUSTRIAL SWEEPER	215714	2,960	GASOLINE	18,705.15	07/01/87
91862	111	99 VACUUM: TENNANT LITTER MACHINE	4300-1132	2,600	GASOLINE	29,421.21	04/01/99
91862	112	00 TRUCK: TENNANT LITTER MACH (VACUUM) ATLV	4300-1437	Q	GASOLINE	26,562.33	03/31/00
91862	119	06 FORKLIFT KOMATSU FG30HT-14	204327A	0	GASOLINE	30,728.97	02/13/07
						FUEL TYPE TOTA	പ്
91812	522	97 TRUCK: CHEV CREW CAB PICK UP CHEYENNE	lGCGC33F0VF028201	0	DIESEL	27,121.70	06/01/97
91812	523	97 TRUCK: CHEV CREWCAB PICKUP	1GCGC33F4VF028153	0	DIESEL	27,121.70	04/01/97
91812	524	97 TRUCK: CHEV CREWCAB PICKUP	1GCGC33F8VF028205	0	DIESEL	27,121.70	04/01/97
91812	525	97 TRUCK: CHEV PICKUP CHEYENNE	1GCGC33F0VF027212	0	DIESEL	27,121.70	04/01/97
91812	526	97 TRUCK: CHEV CREWCAB PICKUP CHEYENNE	1GCGC33F7VF027398	0	DIESEL	27,121.70	04/01/97
91812	527	97 TRUCK: CHEV CREWCAB PICKUP	1GCGC33F8VF027488	0	DIESEL	26,600.88	04/01/97
91812	543	97 VAN: CHEVROLET W/TELESCOPIC AERIAL LIFT	1GCHG39F0V1053533	9,500	DIESEL	50,770.80	06/01/97
91812	550	98 TRUCK: CHEVROLET CREW CAB PICKUP	1GCGC33F5WF061065	0	DIESEL	31,621.33	06/01/98
91812	551	98 TRUCK: CHEVROLET CREW CAB PICKUP	1GCGC33F5WF061549	0	DIESEL	31,828.68	06/01/98
91812	552	98 TRUCK: CHEVROLET CREW CAB PICK UP	1GCGC33F0WF061927	0	DIESEL	31,829.66	06/01/98
91812	555	99 TRUCK: GMC UTILITY CREW CAB	lGDHK33FOXF006639	10,000	DIESEL	76,347.44	06/01/99
91812	557	99 TRUCK: CHEVROLET SUBURBAN 4X4	3GNGK26F8XG206132	0	DIESEL	33,848.74	06/01/99
91812	558	99 TRUCK: GMC SIERRA CREW CAB	1GTHC33F9XF012988	0	DIESEL	41,843.36	06/01/99
91812	559	99 TRUCK: GMC SIERRA CREW CAB	1GTHC33F9XF013235	0	DIESEL	41,843.36	06/01/99
91812	560	99 TRUCK: CHEVROLET FLEETSIDE CREWCAB P/U	1GCGC33F7XF060677	0	DIESEL	32,011.25	06/01/99
91812	561	99 TRUCK: CHEVROLET FLEETSIDE CREWCAB P/U	1GCGC33F3XF059719	0	DIESEL	32,115.42	06/01/99
91812	562	99 TRUCK: GMC SIERRA CREW CAB	1GTHC33F1XF010491	10,000	DIESEL	41,843.36	06/01/99
91812	577 ·	00 TRUCK, GMC UTILITY BODY	1GDHC34F3YF415392	10,000	DIESEL	45,694.48	06/01/00
91812	585	00 TRUCK: GMC 3500 SIERRA CREWCAB PICKUP	1GTGC33FOYF496692	9,000	DIESEL	33,906.03	06/01/00
91812	586	01 TRUCK: GMC 2500HD P/U	lGTHC24101E216685	9,200	DIESEL	33,246.44	06/01/01
91812	587	01 TRUCK: GMC 2500 HD P/U W/ARROW BOARD	1GTHC24111E216114	9,200	DIESEL	35,423.92	06/01/01
91812	588	01 TRUCK: GMC 2500 HD P/U W/LIFT GATE	1GTHC24171E218322	9,200	DIESEL	35,605.21	06/01/01
91812	594	01 TRUCK: GMC STAKE W/LIFT GATE	1GDJC34171F141030	11,400	DIESEL	41,569.91	06/01/01
91812	596	01 TRUCK: FORD PICKUP W/EXT. CAB ONE TON	1FTWX32F41EC51441	11,000	DIESEL	32,714.45	06/01/01
91812	597	01 TRUCK: FORD PICKUP W/EXT CAB ONE TON	1FTWX32F61EC51442	11,000	DIESEL	32,714.45	06/01/01
91812	598	01 TRUCK: FORD PICKUP W/EXT CAB ONE TON	1FTWX32F81EC51443	11,000	DIESEL	32,714.45	06/01/01
91812	599	01 TRUCK: FORD PICKUP W/.EXT CAB ONE TON	1FTWX32F41EC51444	11,000	DIESEL	32,714,45	06/01/01
91812	600	01 TRUCK: FORD PICKUP W/EXT CAB ONE TON	1FTWX32F11EC51445	11,000	DIESEL	32,714.25	06/01/01
91812	601	01 TRUCK: FORD P/U ONE TON W/EXTENDED CAB	1FTWX32F21EC51440	11,000	DIESEL	32,714.45	06/01/01
91812	602	01 TRUCK: FORD ONE TON P/U W/EXTENDED CAB	1FTWX32F31EC51446	11,000	DIESEL	32,610.44	06/01/01
91812	603	01 TRUCK: FORD P/U ONE TON W/EXTENDED CAB	1FTWX32F51EC51447	11,000	DIESEL	32,610.44	06/01/01
91812	605	01 TRUCK: FORD CREW CAB PICK UP	1FTWW32F51EC84032	11,000	DIESEL	35,510.40	06/01/01
91812	606	01 TRUCK: GMC PICK UP	1GTHC24161E316693	9,200	DIESEL	33,246,44	06/01/01
91812	607	01 TRUCK: FORD ONE TON UTILITY PICKUP	1FDWF32F51EC47610	11,000	DIESEL	35,349.81	06/01/01
91812	608	01 TRUCK: FORD ONE TON UTILITY PICKUP	1FDWF32F91BC47609	11,000	DIESEL	35,349.81	06/01/01

HIGHWAYS DIVISION - OAHU DISTRICT E/U ALTERNATIVE FUEL REPORT BY FUEL TYPE 9/10/08

						ACQUIS:	TION
EQUIPM	ENT	DESCRIPTION	SERIAL NUMBER	GVW	FUEL	COST	DATE
91812	609	01 VAN: CHEVROLET FULL SIZE MODEL 3500	1GANG35F611235570	9,500	DIESEL	30.117.00	06/01/01
91812	611	01 TRUCK: GMC W/AERIAL	3GDKC34F41M115307	15,000	DIESEL	98.393.22	03/27/02
91812	613	02 TRUCK: FORD ONE TON PU N/EXT. CAB	1FTWX32FX2EC50960	11 500	DIESEL	32 736 18	08/23/02
91812	614	02 TRUCK: FORD ONE TON PU W/EXT, CAB	1FTWX32F12EC50961	11,500	DIESEL	32,736,18	08/23/02
91812	615	02 TRUCK; FORD ONE TON PU W/EXT. CAB	1FTWX32F32EC50962	11,500	DIESEL	32,736,18	08/23/02
91812	616	02 TRUCK: FORD ONE TON PU W/EXT. CAB	1FTWX32F52EC50963	11 500	DIESEL	32,736,18	08/23/02
91812	617	02 TRUCK: FORD ONE TON PU W/EXT. CAB	1FTWX32F72EC50964	11.500	DIESEL	32,736,18	08/23/02
91812	620	02 VAN: CHEV 3500 FULL SIZE	1GNHG35F721243001	9.500	DIESEL	27.785.00	09/12/02
91812	621	02 VAN: CHEV. 3500 15 PASSENGER	1GAHG39F651243664	9,500	DIESEL	28,925,00	09/12/02
91812	622	03 TRUCK: FORD 4DR EXCURSION MPVH	1FMSU41P03ED13424	7.650	DIESEL	39,993,77	12/08/03
91812	623	03 TRUCK: FORD EXCURSION 4 DR MPVH	1FMSU41F43ED13426	7,650	DIESEL	39,993,77	12/08/03
91812	624	03 TRUCK: FORD 4DR EXCURSION MPVH	1FMSU41P63ED13427	7.650	DIESEL	39,993,77	12/08/03
91812	625	03 TRUCK: FORD 350 PICKUP W/CREW CAB	18790329538035668	11,500	DIESEL	36.186.18	12/08/03
91812	629	04 TRUCK: FORD EXCURSION 4X4 SPORT HTTL.	1FMSH41P94ED77883	12,200	DIESEL	40,060,64	11/18/04
91812	630	04 TRUCK: CHEV CREWCAB E350 4X2	18700320948029681	ň	DIESEL	12,609,15	11/16/04
91812	631	D4 TRUCK: FORD F350 CREW CAB	1 PTWW32P04ED29682	ő	DIESEL	32,609,15	11/16/04
91812	632	04 TRUCK: FORD 4X2 CREW CAB	1FTWW32P24ED29683	ő	DIESEL	32,609.14	11/16/04
91.812	633	04 TRUCK: FORD F350 CREWCAR	1875830848037126	ő	DIRGRI.	30.849.43	11/16/04
91812	646	64 TRUCK, FORD \$350 DICKUP	1 RTWR32084880872	6 640	DIRGET.	29 107 05	00/10/05
91812	647	04 TRICK, FORD F350 PICKUP	1 FTSF31 D64EE09701	0,040	DIESEL	31 165 37	00/00/05
91.812	648	05 VAN. RORD E350	1 FMNE31 04 5HA02083	ő	DIEGEL	29 407 10	09/17/05
91.812	649	05 VAN, BORD E350	TEMNEST DESKAG2005	ő	DIRCEI.	29 407 11	00/17/05
91812	662	05 TRUCK, FORD PU	1 5795200465319555	ő	DIFORT.	20,207.11	12/29/05
91812	663	05 TRUCK. FORD PU	TETOPSOLOGERALSSS	ő	DIFERT.	29,770.77	12/29/05
91812	664	AS TRUCK, FORD DU	1579530086019550	0	DIEGEL	29,770.77	12/20/05
91812	665	06 TRUCK. FORD PU	1FTSF3DUX6FA1955	0	DIEGEL	29,770.77	12/29/05
91812	666	OF TRUCK, FORD BU	IFTSF20116FA19555	0	DIROND	20 770 77	12/29/05
91812	667	AG TRUCK, FORD PU	1010000000000000000	0	DIESEL	29,770.77	12/29/05
91812	668	06 TRUCK FORD DU	1 FTGE3 (DY 6EA1 956)	0	DIFERT.	29 770 74	12/20/05
91812	669	06 TRUCK FORD DI F350	1 FT8F30F16F19562	ő	DISCED	29,770.73	12/30/05
91812	670	06 TRUCK, FORD BU	1 579830836819562	0	DIFERT.	29,770.77	12/29/05
91812	671	DE TRUCK, FORD RU	1 FT9P3 DECP519564	0	DIESED DIESED	20,770.77	12/25/05
91812	672	06 TRUCK, FORD DU	1 FTOFSOESOEALSSO	0	DIEGEL	20,770,77	10/20/05
91912	672	OF TRUCK. BORD DU	1FTGF30P76EAL9505	0	DIEGED	20,770,77	12/25/05
01017	677	0.6 TRUCK FORD F260 DI W/LIPT CATE	1 20023027326023	0	DIDDEL	45,770.77	12/29/05
91812	702	OF TRUCK FORD OF F350 PU MULTER GALE	1 57788305665062	0	DIEGED	30,700.54	04/23/08
91912	703	OF TRUCK FORD BY FOUL	1 ETWERADCETDC0017	0	DIEGEL	30,931.75	04/21/07
91812	704	AS TRUCK FORD P350 PU	18708308568069917	0		30,331,75	04/19/07
01010	705	AT TRUCK BORD BE FORD DI	THE SUPPOPER OF OF	0	DIGODI	30,931.75	04/15/07
01010	705	OF TRUCK FORD ON F350 F0	100000000000000000000000000000000000000	0	DIRCRI	30,931.75	04/13/07
01077	176	A TOUR FORD FOOD ADDING INTERV	TEDMESUEGGEG12525	25 000		33,003.34	01/01/01
01000	177	OF INDER, THERMARY ONAL PLACED		35,000	DIRCEL	/5,044.10	01/01/04
01070	100	AP BEIGH, WIERWALLAND FINIDED		33,000	DIRORD	40,441.40	01/01/88
21022	101	64 RDACTOR MERIOPHI RANDEN PDUCK	LELWI / HEORVA04445	23,100	DIBOBI	54,587.00	02/01/08
21022	100	69 IRACION: RENNORIA TANDEN IRUCA	1/mon/25/5/65/2410/	50,000	DIEGEL	71,700.70	05/01/89
21044 01027	104	DO BOUCK, INTE STARE TRUCK W/ HID THISGALE	17003 CDI 37 U220C25	24,160	DIROPI	30,973.91	09/01/89
01000	100	ST TRUCK, INTERNATIONAL 2-1/2 CI DUMP TRUCK		24,10V	DIEGOI	20,940,69 20,940,59	03/01/89
91044 91033	100	AT THOOR MARY IN OF DUMP TRUCK	1 MON VO A// 380400 23 20	20,24V EE E40	DIBOBU DIRCRI	C0 340 14	01/01/91
01022	102	DI MOURT MACK IV CI DUMP IRUCK	100KCU1 TVM 1111 CP2	36,340	DIRORI	00,040,14	11/01/01
91822	193	DI TRUCKI CHEV KODIAK 2 1/2 CI DUMP	TODKOUTOVHOTTT0/2	24,200	DIRGEL	30,143.19	11/01/01
01010	100	DI TRUCKI CHEV KODIAK 2 1/2 CI DUMP	TODVORTO MOTITI / 32	24,200	DIRGER	35,004.04	11/01/91
21022	122	FI INDERT CHEV KUDIAK 2 1/2 CY DUMP	TORKOUTO 3WO 111808	24,260	DTR9EP	55,143.19	TT/01/91

A-50

PERIOD: 07/01/07 THRU 06/30/08

٠

PERIOD: 07/01/07 THRU 06/30/08

•

								ACQUIS	TTON
EQUIPM	ENT	DESC	RIPTI	ON	SERIAL NUMBER	GVW	FUEL	COST	DATE
91822	197	93 I	RUCK:	INT'L STAKE W/HYD TAILGATE	1HTSCPEL6PH469510	25,500	DIESEL	37.762.57	11/01/92
91822	199	93 T	RUCK	INT'L BITUMIOUS TANK	1KTSDPPN2PH472254	28,080	DIESEL	78,157.00	11/01/92
91822	201	92 T	RUCK	GMC 7CY DUMP	1GDP7H1J3NJ525485	35.000	DIESEL	45,289,00	11/01/92
91822	203	93 T	RUCK	PETERBILT U/BRDG REACHAL CRANE357	AXPALBOX2PN331520	77,000	DIESEL	417.261.89	12/01/92
91822	204	84 T	RUCK:	INTERNATIONAL DUMP 10 CY	1HTGGA2T6RH571307	56.000	DIESEL	70,727,99	01/01/94
91822	205	94 T	RUCK	CHEV KODIAK DUMP 2 1/2 CY	1GBK6H1J2RJ103896	24.260	DIESEL	35,595,50	02/01/94
91822	206	94 T	RUCK	CHEV KODIAK DUMP 2 1/2 CY	1GBK6H1J5RJ103813	24,260	DIRSEL	34,137,16	02/01/94
91822	207	94 T	RUCK	CHEV KODIAK DUMP 7 CY	16BP7H1J4RJ103790	35.550	DIESEL	43 328 35	02/01/94
91822	208	94 T	RUCK	INT'L UNDERBRIDGE REACHALL CRANE	1HTGGA6T2RH548438	77.000	DIESEL	428,900.34	05/01/94
91822	209	94 T	RUCK	GMC STAKE DUMP	1GDMTH1J1RJ505924	27.060	DIESEL	39.577.73	04/01/94
91822	210	94 T	RUCK	GMC STAKE DUMP	1GDM7H1J2RJ506113	27.060	DIRSEI.	39 577 74	04/01/94
91822	212	95 I	NTL. A	ALTEC AERIAL BUCKET MOD. 4900	1HTSDAAN9SH641782	33,000	DIESEL	234 584 84	10/01/04
91822	213	95 I	NTL.	ALTEC AERIAL BUCKET MOD. 4900	1GTSDAARISG641783	33,000	DIRGRI	117 292 42	10/01/94
91822	214	95 T	RUCK	INT'L ALTEC DERRIC	1HTSDAAR9SH641784	35,000	DIESEL	123 952 24	11/01/04
91822	215	95 T	RUCK	FORD STAKE DUMP TRUCK	1FDWF80C5SVA18402	26.000	DIESEL	26 389 70	11/01/94
91822	216	95 T	RUCK	FORD STAKE W/HYD HOIST	1FDWF80C7SVA18403	26.000	DIESEL	36 389 70	11/01/04
91822	217	95 T	RUCK	FORD STAKE DUMP	1FDWF80C9SVA18404	26,000	DIESEL	26 389 70	11/01/04
91822	218	95 T	RUCK	INT'L DUMP 12 CY	1HTGGAUT6SH641780	56.000	DIESE.	71 329 67	02/01/94
91822	219	95 T	RUCK	INT'L DUMP 12 CY	1HTGGAITT8 SH641781		DIESEL	70 800 80	02/01/95
91822	222	83 T	RUCK	FORKLIFT (MILILARY)	3336022159	47 000	DIESEL	1 600 00	02/01/95
91822	223	97 T	RUCK	INTI. TIINNEL WASH VEHICLE	14790888999446673	*),000 A	DIEGEI	1,000.00	00/01/98
91822	224	99 7	RICK	INTERNATIONAL STAKE CREWCAR	1WTGCANLEYUGAGGAA	ې م	DIRGRI	420,000.00	06/01/9/
91822	226	99 T	RICK	INT'I. TECO AFRIAL BUCKET	1WTODD DOOYUGAGG 35	22 000	DIRCEZ	11,494.43	06/01/99
91822	228	99 T	איזנוריא	INT L THEO ABRIAL BUCKET	1013DAAGOANG46635	35,000	DIRGEL	179,086.70	06/01/99
91822	230	99 T	יאייווקי	THE DIRECT MERIAL BOCKET	1013DAAN 7A0040034	20,700	DIESEL	180,024.19	06/01/99
91822	231	00 7	NUCKI	FORD BIARE W/BCIBBORS LIFT	17DAF46FUANC46765	15,000	DIESEL	76,867.99	06/01/99
91822	222	99 7	DITOR .	FORD F-800 W/BOOM	JERNEGOLYNNAILCUS	33,000	DIESEL	121,266.15	06/01/99
91822	222	99 T	PHOCK.		JEDARCOMANALISIU	33,000	DIASEL	121,266.15	06/01/99
91822	234	00 7	NOCK.	INTEL UTILITY OFFICE 4964	1FDAF36F7A5575284	17,500	DIESEL	61,842.20	D6/01/99
91877	233	00 1	DUCKI	TRICE OF DESCRIPTION NOD 200	THTSDAAN7YH212102	33,000	DIESEL	114,544.98	06/01/00
91922	222	00 1	DIJCY .	TARGIOR PRIBROIDI MOD 375		60,060	DIESEL	104,802.38	06/01/00
91922	220	07 1	DICY.	INTERNALIONAL DOME MOD. 26/4	INTGLAERS IS218405	54,060	DIESEL	101,903.92	06/01/00
61433	120	01 I. 00 m	DIICHZ.	THE D SOU GALLON TANK	INIGLANTIIN333470	64,000	DIESEL	140,919.12	06/01/01
51022	239	, 00 T	RUCK	GMC 2 172 CU XD DUMP C 7500	1CDMTR1C3YJ516441	27,100	DIESEL	71,887.09	06/01/00
01800	240	00 1	RUCKI	GMC UTILITY BODY C6500	1GDG6H1C2YJ516513	23,100	DIESEL	83,825.07	06/01/00
91022	241	00 1	NUCKI	GMC LIFT-ALL AERIAL BUCKST C-8500	IGDP/RIC4YJ516705	35,000	DIESEL	174,423.48	06/01/00
21022	242	V4 1. AD 10	RULA	INTERNATIONAL DUMP 4700	LHTSCAAM72H409692	25,500	DIESEL	64,541.86	06/01/02
01000	243	V2 1.	RUCKI	INTERNATIONAL DUMP 4700	1HTSCAAM92H409693	25,500	DIESEL	64,541.86	06/01/02
71022	244	02 1	RUCKI	INTERNATIONAL DUMP 4700	1HTSCAAM02H409694	25,500	DIESEL	64,541.86	06/01/02
91022	245	02 1	RUCK	INTERNATIONAL DUMP 4700	1HTSCAAM22H409695	25,500	DIESEL	64,021.03	06/01/02
91977	246	02 1	RUCK	INTERNATIONAL TRK TRACTOR 99001	2HSCHAET62C030153	58,860	DIESEL	101,511.59	06/01/02
91822	247	87 T.	RUCK	FORD ASPHALT THERMO LAY TRUCK	1FDWT74P6HVA4443	23,100	DIESEL	.00	06/04/02
91822	248	02 T.	RUCK:	GMC 2 1/2 CY DUMP C6500	1GDK7K1C22J502285	25,950	DIESEL	75,362.55	08/28/02
91822	249	02 T.	RUCK :	GMC 2 1/2 CY DUMP C6500	1GDK7H1C12J502472	25,950	DIESEL	74,112.50	08/28/02
91822	250	03 T.	RUCK	PETERBILT FLATBED W/CRANE	1NPZL00X13D714740	64,000	DIESEL	262,151.29	04/25/03
91822	251	02 T	RUCK :	GMC DUMP C6500	1GDG6H1CX2J513852	23,100	DIESEL	65,923.31	05/14/03
AT855	252	02 T	RUCK	GMC DUMP	1GDK7H1C72J515405	25,950	DIESEL	75,978.03	05/14/03
91822	253	03 T.	RUCK	PETERBILT W/CRANE/DUMP	1NPZL00X33D714741	64,000	DIESEL	281,484.93	09/12/03
91822	254	04 T.	RUCK	GMC ALTEC AERIAL/UTILITY MDL 5500	1GDE5E1163F521412	19,500	DIESEL	95,355.56	01/15/04
91822	255	04 7:	RUCK	PETERBILT DUMP MDL 378	1NPFLBOX54D818437	58,000	DIESEL	146,217.88	01/20/04
91822	256	04 T	RUCK :	PETERBILT DUMP MDL 378	1NPFLBOX74D818438	58,000	DIESEL	146,217.88	01/20/04
91822	257	04 T	RUCK	INTERNATIONAL DUMP MOD. 4400 SBA	1HTMKAAL44H652480	12,780	DIESEL	69,676.86	05/24/04

HIGHWAYS DIVISION - OAHU DISTRICT

PERIOD: 07/01/07 THRU 06/30/08

E/U ALTERNATIVE FUEL REPORT BY FUEL TYPE 9/10/08

	91822	260	05 TRUCK: PETERBILT TANK #357 SBFA	2NPLH28X75M852585	19.260	DIESEL
	91822	261	04 TRUCK FORD F350 FLATBED	1FDWF36P74EA68038	8 620	DIESEL
	91822	262	04 TRUCK FORD F350 FLATBED	1FDWF36P54EA68037	8,620	DIESEL
	91822	263	04 TRUCK GMC AERIAL "C"	1GDE5C1205F503083	19,500	DIESEL
	91822	264	05 TRUCK: GMC DUMP	1GDJ6C13X5F500437	25,640	DIESEL
	91822	265	05 TRUCK: GMC DUMP	10DJC1375F500492	25,640	DIESEL
	91822	266	05 TRUCK: GMC "T" UTILITY SERVICE	1GDJ5C1285F506313	26,000	DIESEL
	91822	267	05 TRUCK: GMC DUMP SOLID SIDE PANEL	1GDJ6C1335F531982	25,640	DIESEL
	91822	268	05 TRUCK GMC FLATBED	1GDE5C1235F528737	19,500	DIESEL
	91822	269	06 TRUCK TRACTOR PETERBILT 378SFFA	1XPFD40X66D632620	60,060	DIESEL
	91822	270	07 TRUCK PETERBILT 7CY DUMP	2NPLHZ8X17M673736	17,160	DIESEL
	91822	271	08 TRUCK GMC W/UTILITY BODY	1GDJ6C1BX8F401578	26,000	DIESEL
	91822	272	08 TRUCK GMC C5500 CAB CHASSIS W/AERIAL	1GDE5C1908F400294	19,500	DIESEL
	91822	273	08 TRUCK INTERNATIONAL DUMP 7400	1HTWCAAR98J658638	36,220	DIESEL
	91822	274	08 TRUCK INTERNATIONAL DUMP 4400	1HTMKAAL68H658559	25,999	DIESEL
	91832	147	99 TRAILER: TRAIL KING LOW BOY TK50RG-402	1TK\$04021XM026782	64,140	DIESEL
	91832	158	05 TRAILER: WATER OMCO 5,000 GAL TANDEM	DTF450BSR20506506	0	DIESEL
•	91832	161	06 TRAILER: TRAILKING LOWBOY TK70HGD-472	1TKJ047256M103637	0	DIESEL
	91842	166	82 OVERLOWE PORTABLE FLOOD LIGHT	824681	0	DIESEL
	91842	170	85 POWER CURBER CURBING MACHINE	150785094	0	DIESEL
	91842	173	86 GENERATOR: MILLER WELDER/GENERATOR	JG057742	0	DIESEL
	91842	174	86 GENERATOR: MILLER WELDER/GENERATOR	JG062668	0	DIESEL
	91842	195	89 TRACTOR: FORD MOWER W/EXT FLAIL	BB85071	0	DIESEL
	91842	211	93 TRACTOR: KUBOTA W/ FLAIL MOWER	21623	• 0	DIESEL
	91842	213	93 LIGHT TOWER: MAGNUM FORTABLE 4060 K-MH	93294 .	0	DIESEL
	91.842	217	94 LIGHT TOWER: INGERSOLL-RAND MOD L64MH	247798 I.D.#KNC6237	0	DIESEL
	91842	218	94 WELDING UNIT MILLER BIG 40 DIESEL	KE700618	0	DIESEL
	91842	219	94 WELDING UNIT MILLER BIG 40 DIESEL	KE700621	0	DIESEL

A-52

DESCRIPTION..... SERIAL NUMBER.....

04	TRUCK GMC AERIAL "C"	1GDE5C1205F503083	19,500	DIESEL	104,297.94	03/17/05	1	Ì
05	TRUCK: GMC DUMP	1GDJ6C13X5F500437	25,640	DIESEL	73,592.38	06/21/05	1	
05	TRUCK: GMC DUMP	1GDJC1375F500492	25,640	DIESEL	73,592.38	06/21/05	ł –	L
05	TRUCK: GMC "T" UTILITY SERVICE	1GDJ5C1285F506313	26,000	DIESEL	89,889.85	06/21/05	Í.	Ì
05	TRUCK: GMC DUMP SOLID SIDE PANEL	1GDJ6C1335F531982	25,640	DIESEL	75,757.88	03/16/06	l l	L
05	TRUCK GMC FLATBED	1GDE5C1235F528737	19,500	DIESEL	57,894.68	03/16/06	1	L
06	TRUCK TRACTOR PETERBILT 378SFFA	1XPFD40X66D632620	60,060	DIESEL	115,692.80	06/14/06		L
07	TRUCK PETERBILT 7CY DUMP	2NPLHZ8X17M673736	17,160	DIESEL	117,166.09	02/09/07	İ.	L
80	TRUCK GMC W/UTILITY BODY	1GDJ6C1BX8F401578	26,000	DIESEL	138,199.80		ĺ	L
80	TRUCK GMC C5500 CAB CHASSIS W/AERIAL	1GDE5C1908F400294	19,500	DIESEL	145,360.76	04/21/08	ł	L
80	TRUCK INTERNATIONAL DUMP 7400	1HTWCAAR98J658638	36,220	DIESEL	112,043.80	04/30/08	i i	L
08	TRUCK INTERNATIONAL DUMP 4400	1HTMKAAL68H658559	25,999	DIESEL	91,253.29	04/30/08	i i	ĺ
99	TRAILER: TRAIL KING LOW BOY TK50RG-402	1TK\$04021XM026782	64,140	DIESEL	41,666.40	06/01/99	i i	1
05	TRAILER: WATER OMCO 5,000 GAL TANDEM	DTF450BSR20506506	0	DIESEL	131,989.64	12/28/05	i i	1
06	TRAILER: TRAILKING LOWBOY TK70HGD-472	1TKJ047256M103637	0	DIESEL	68,894.15	06/14/06		Ì
82	OVERLOWE PORTABLE FLOOD LIGHT	824681	0	DIESEL	13,856.00	08/01/92	ł	ł
85	POWER CURBER CURBING MACHINE	150785094	0	DIESEL	6,562.40	08/01/85		
86	GENERATOR: MILLER WELDER/GENERATOR	JG057742	0	DIESEL	3,320.00	07/01/86	1	ļ
86	GENERATOR: MILLER WELDER/GENERATOR	JG062668	0	DIESEL	3,320.00	07/01/86	i i	L
89	TRACTOR: FORD MOWER W/EXT FLAIL	BB85071	0	DIESEL	37,380.07	07/01/89	1	L
93	TRACTOR: KUBOTA W/ FLAIL MOWER	21623	. 0	DIESEL	16,403.65	03/01/93	Ì	L
93	LIGHT TOWER: MAGNUM PORTABLE 4060 K-MH	93294	0	DIESEL	10,610.40	09/01/93	1	L
94	LIGHT TOWER: INGERSOLL-RAND MOD L64MH	247798 I.D.#KNC6237	0	DIESEL	13,402.51	10/01/94	ł –	L
94	WELDING UNIT MILLER BIG 40 DIESEL	KE700618	0	DIESEL	8,145.80	12/01/94		ł
94	WELDING UNIT MILLER BIG 40 DIESEL	KE700621	0	DIESEL	8,145.80	12/01/94		J
96	SPRAYER, FMC JOHN BEAN DM10E300FERH	JB00320NA	0	DIESEL	11,048.64	02/01/96	ł –	ł
96	CHIPPER, MORBARK EZ #2200	2773	0	DIESEL	24,342.79	12/01/96	İ.	1
96	CHIPPER, MORBARK EZ #2200	2774	0	DIESEL	24,343.83	12/01/96		l
96	CHIPPER, MORBARK EZ #2200	2775	0	DIESEL	24,343.00	12/01/96		
98	SIGN MESSAGE BOARD ELECTRONIC W/TRAILER	069801-T2	0	DIESEL	32,920.00	06/01/98		L
9B	MOWER: TORO GROUNDMASTER 580D	30581-80278	. 0	DIESEL	65,811.10	06/01/98		L
98	MOWER: TORO GROUNDMASTER 325D MOD 30795	30795-80338	0	DIESEL	25,357.45	06/01/98	1	L
98	MOWER: TORO GROUNDMASTER 325D MOD 30795	30795-80340	0	DIESEL	25,669.94	06/01/98		L
98	MOWER: TORO GROUNDMASTER 325D MOD 30795	30795-80342	0	DIESEL	25,878.28	06/01/98	1	L
99	MOWER: KUBOTA TRACTOR MOWER	7030-21047	0	DIESEL	41,200.33	06/01/99	1	
99	MOWER: KUBOTA TRACTOR MOWER	7030-21049	0	DIESEL	41,200.33	06/01/99		
99	AUGER, MELROE MODEL 15	187403365	0	DIESEL	2,166.65	06/01/99		l
99	MOWER: TORO GROUND MASTER	30243-90111	0	DIESEL	19,041.17	06/01/99	1	
99	MOWER: TORO GROUNDMASTER 223-D	30243-90114	0	DIESEL	19,560.92	06/01/99		
99	MOWER: TORO GROUNDMASTER 223-D	30243-90118	0	DIESEL	19,560.92	06/01/99		
99	MOWER: TORO GROUNDMASTER 223-D MOWER	30243-90119	0	DIESEL	19,560.92	06/01/99		
99	MOWER: TORO GROUNDMASTER 223-D	30243-90120	0	DIESEL	19,560.92	06/01/99		
99	MOWER: TORO GROUNDMASTER 325D MOD. 30795	90146	0	DIESEL	27,113.60	06/01/99	1	
99	MOWER: TORO GROUNDMASTER 325D MOD. 30795	90142	0	DIESEL	27,113.60	06/01/99		
99	MOWER: TORO GROUNDMASTER 325D MOD. 30795	90268	0	DIESEL	27,113.59	06/01/99	1	
99	MOWER: TORO GROUNDMASTER 325D MOD. 30795	90390	0	DIESEL	27,113.59	06/01/99	1	
99	MOWER: TORO GROUNDMASTER 325D MOD 30795	90176	0	DIESEL	26,686.38	06/01/99	1	
99	TRACTOR: KUBOTA W/SIDE EXT. MOWER M8200	10559	0	DIESEL	60,483.02	06/01/99		

GVW

FUEL

----ACOUISITION-----

COST

118,994.90

36,606.02

36,606.02

DATE

12/08/04

12/02/04

12/02/04

EQUIPMENT

91842

91842

91842

91842

91842

91.842

91842

91842

91842

91842

91842

91842

91842

91842

91842

91842

91842 228

91842 236

91842 243

91842 244

91842 252

225 91842 226

227

240

241

242

245

246

251

253

254

255

257

258

259

260

261 91842 266

PERIOD: 07/01/07 THRU 06/30/08

. •

.

EQUIP	MENT	DESCRIPTION				ACQUIS	ITION
~		DEGGATE 1100	SERIAL NUMBER	. GVW	FUEL	COST	DATE
91842	267	99 TRACTOR, KUBOTA W/SIDE EVT MOWER MADAG	10571				
91842	268	99 MOWER: TORO GROUNDMASTER 580D TRIDIEN	10561	0	DIESEL	60,170.52	06/01/99
91842	269	00 LIGHT TOWER: WACKER LTPA	50489	0	DIESEL	71,246.83	06/01/97
91842	270	00 NONER TORO GROINDMASTER 325D 20795	5112668	0	DIESEL	10,622.00	06/01/97
91842	271	97 MESSAGE BOARD PORTABLE ADDCO SOLAN	200000106	0	DIESEL	26,888.27	06/01/97
91842	272	97 MESSAGE BOARD PORTABLE ADDCO SOLAR	DH1000 SN584940	3,700	DIESEL	37,000.00	06/01/97
91842	273	97 MESSAGE BOARD DOPTABLE ADDCO SOLAR	DH 1000 SN 584984	3,700	DIESEL	37,000.00	06/01/97
91842	274	97 MESSAGE BOARD PORTABLE ADDCO SOLAR	DH1000 SN584985	3,700	DIESEL	37,000.00	06/01/97
91842	275	97 MESSAGE BOARD PORTABLE ADDCO SOLAR	DH1000 SN 584991	3,700	DIESEL	37,000.00	06/01/97
91842	279	01 LIGHT TOWER, TRAILER MOUNT MACKING AND AR	DR1000 SN 584997	3,700	DIESEL	37,000.00	06/01/97
91842	280	01 LIGHT TOWER, TRAILER MOUNT WACKER LIP42	5231940	1,990	DIESEL	9,330.00	06/01/97
91842	261	01 LIGHT TOWER, TRAILER MOUNT WACKER DIP4	5231941	1,990	DIESEL	9,330.00	06/01/97
91842	282	01 LIGHT TOWER, TRAILER MOUNT WACKER DIP4	5231942	1,990	DIESEL	9,330.00	06/01/97
91842	283	01 TRACTOR, KUROWA HETI, M/D MED DIALI MONDA	5231943	1,990	DIESEL	9,330.00	06/01/97
91842	284	02 MESSAGE BOADD, NAW STONAL BRATTER WER	10778	´ 0	DIESEL	39,948.99	06/01/97
91842	285	02 MESSAGE BOARD, MATH SIGNAL TRAILER MID	189M214112L358009	3,500	DIESEL	24,790.67	09/12/02
91842	288	02 TRACTOR, CASE ITTL M/DEAD MED DIAL MOUL	189M24132L358013	3,500	DIESEL	24,790.66	09/12/02
91842	289	02 TRATIER, SOLAR MEGU MER MURGER REALL MOWE	C080RS4JJE1020833	0	DIESEL	39,166.42	09/27/02
91842	290	12 TRAILER, SOLAR IECH MTD MESSAGE BOARD	408562	2,900	DIESEL	24,834.28	11/20/02
91842	291	02 TRAILER: SOLAR IECH MID MESSAGE BOARD	408563	2,900	DIESEL	24,834.28	11/20/02
91842	292	02 TRAILER: SOLAR IECH MID MESSAGE BOARD	408564	2,900	DIESEL	24,834.28	11/20/02
91842	293	02 LIGHT TOWER, THORPHONE PARE BOARD	408565	2,900	DIESEL	24,834.28	12/12/02
91842	294	02 LIGHT TOWER: INGERSOLL-RAND TRAILER MTD.	331077/1077	3,640	DIESEL	12,812.41	09/26/02
91842	295	02 LIGHT TOWER: INGERSOLL-RAND TRAILER MTD	3310781078	3,640	DIESEL	12,812.42	09/26/02
91842	296	02 MOWER: INGERSOLL-RAND TRAILER MTD	331079/1079	3,640	DIESEL	12,812.42	09/26/02
91.842	297	02 TEACTOR FORD DEAD WITH ALL HE	30627-220000268	0	DIESEL	26,281.08	03/25/03
91842	298	03 TRACIOR: FORD 1590 W/EXT S/R MTD FLAIL	199806B	0	DIESEL	72,916.20	10/23/03
91842	299	A TRACTOR, FORD TOSC W/EXT. S/R MTD FLAIL	199913B	0	DIESEL	72,916.20	10/27/03
91842	301	A TRACTORI FORD 1590 W/EXT. S/R MTD PLAIL	200222B	0	DIESEL	72,916,20	10/27/03
91842	302	03 TRACIORI KUBOTA UTIL. W/REAR MTD FLAIL	11071	0	DIESEL	41,727.45	12/26/03
91842	303	S I LOUR COURD OVER A MER AND FLAIL	11073	0	DIESEL	41,727.45	12/26/03
91842	304	AS LIGHT TOWER: OVER LOWE	851824/M	0	DIESEL	1,700.00	06/30/03
91842	202	AS LIGHT TOWER: OVER LOWE	851792/M	0	DIESEL	1,700.00	06/30/03
91842	211 .	OF LIGHT TOWER: OVER LOWE	851846/M	0	DIESEL	1.700.00	06/30/03
91852	120	CONTROL ADDRESS INGERSOLL-RAND LIGHTSOURCE	356563UEP789	0	DIESEL	11,600.00	06/30/06
91852	176	82 CRAFCU ASPHALT SEALER W/JOINT CRACK MACH	3149 & C0185	3,500	DIESEL	23.040.16	09/01/82
91862	127	AS IRUCK: INTL SEWER HYDROJET VAC CLEANER	1HTLDTVR4FHA62673	35,180	DIESEL	104,893,36	10/01/85
91862	141	84 COMPRESSOR:LEROI	3119X1100	2,560	DIESEL	12.064.00	09/01/86
91852	147	66 LUADER: JUHN DEERE ARTICULATING	DW644ED520958	34,404	DIESEL	96,838,52	12/01/88
91852	144	AN CACE LOADER	JJG0012229	17,500	DIESEL	38,323.03	11/01/88
91952	140	91 CASE LUADER/BACKHOE	JJG0163916	20,000	DIESEL	33,986,57	10/01/91
01052	101	92 COMPRESSOR: ATLAS COPCO PORTABLE AIR 7	ARP978949	0	DIESEL	11,197,95	10/01/92
91052	160	93 COMPRESSOR: ATLAS COPCO PORTABLE	101600414	0	DIESEL	11.350.07	12/01/93
01050	152	93 JOHN DEERE BACKHOE TURBO 4X4	C0410DG794985	0	DIESEL	56.231.43	12/01/93
91853	150	93 ROLLER: DYNAPAC TANDEM CC-211	51510446	0	DIESEL	65,121.04	12/01/93
91094 01051	155	94 SWEEPERS: JOHNSTON VANGUARD 4000 SP 1	JSVM4H2XRC041015	26,000	DIESEL	134,292.10	08/01/94
91054	157	JANDER: CASE MDL: 621-B	EE0040796	0	DIESEL	79.404.42	10/01/94
01052	150	JA LOADER: CASE MDL 821-B	EE0040797	0	DIESEL	126,904,57	10/01/94
J10J2 610₽0	109	56 LOADER: BOBCAT SKID INGERSOL RAND #763 5	12220135	0	DIESEL	17,807.36	12/01/96
91054	100	98 LOADER/BACKHOE JOHN DEERE 310SE 4X4 T	O310SE848919	0	DIESEL	68.393.31	06/01/90
91052 01050	160	36 LOADER/BACKHOE JOHN DEERE 310SE 4X4 T	0310SE848978	0	DIESEL	57.976.71	06/01/98
21033	TON	99 SWEEPER: ELGIN/STERLING 4-WHEEL MECH. 4	9H6WFAA6XHA71218	32,000	DIESEL	15.138.61	06/01/99
				-			~~/ ~~/ ~ /

PERIOD: 07/01/07 THRU 06/30/08

.

EQUIPM	ENT	DESCRIPTION	SERIAL NUMBER	GVW	FUEL	. Cost	DATE
91852	163	99 BOBCAT: MELROE INGERSOLL RAND 873	514124589	0	DIESEL	35,054.77	06/01/99
91852	164	99 LOADER/FORKLIFT: KOMATSU WA180-3L	A80497	0	DIESEL	74,634.94	06/01/99
91852	1.65	00 COMPRESSOR: PDS 1855 AIRMAN AIR	53-6A11637	0	DIESEL	13,395.00	06/01/00
91852	166	99 ROLLER: WACKER VIBRATORY RD-25	5080819	0	DIESEL	30,721.25	06/01/99
91852	167	00 BOBCAT: MELROE INGERSOLL RAND 873	514141825	0	DIESEL	32,313.60	06/01/00
91852	1.68	00 BOBCAT: MELROE INGERSOLL RAND 873	514141831	0	DIESEL	32,313.60	06/01/00
91852	169	00 TRUCK: INT'L SEWER HYDRO JET VACUU	1HTGLAHTOYH333471	66,000	DIESEL	253,878.68	06/01/00
91852	170	01 SWEEPER: INT'L. W/ELGIN CROSSWIND	1700 1HTSCAAN81H333472	33,000	DIESEL	135,115.42	06/01/01
91852	171	02 TRUCK: VOLVO SEWER HYDRO VAC JET C	LEANER 4V5KC9UF92N329529	66,000	DIESEL	267,290.45	06/01/02
91852	172	01 LOADER: NEW HOLLAND LS 180	187694	0	DIESEL	32,770.62	06/01/02
91852	173	02 TRUCK: GMC MOUNTED DIESEL SWEEPER	1GDP7C1C02J504190	34,350	DIESEL	171,392.88	06/18/02
91852	174	02 TRUCK: GMC MOUNTED DIESEL SWEEPER	1GDP7C1C02J504223	34,350	DIESEL	171,288.71	06/18/02
91852	175	02 GRADER: GALION ARTICULATED MOTOR G	RADER 71079	0	DIESEL	108.332.64	06/18/02
91852	176	02 SWEEPER: GMC TRUCH MOUNTED T8500	1GDP7C1C22J513277	34.350	DIESEL	172,846,84	12/16/02
91852	177.	02 SWEEPER: GMC TRUCK MOUNTED	1GDP7C1C82J513588	34,350	DIESEL	172,846.82	12/16/02
91852	178	03 BACKHOE/LOADER: NEW HOLLAND NOD LB	90 031046530	. 0	DIESEL	68,228,73	05/04/04
91852	179	04 LOADER: CATERPILLAR TRACK MOD 939C	60801575	0	DIESEL	94.008.36	03/07/05
91852	180	05 TRUCK PETERBILT SEWER HYDRO JET-VA	CUUM 1NPAL00X05D851359	37.540	DIESEL	276,122.91	03/07/05
91852	181	04 SWEEPER GMC TRUCK T7F042	1GDM7F1344F509306	33,000	DIESEL	205,462.03	03/17/05
91852	182	05 LOADER: KOMATSU FRONT END WHEEL	65912	0	DIESEL	95,311,89	12/28/05
91852	183	05 LOADER/BACKHOE CASE 590SM	N5C394588	0	DIESEL	97,916.04	06/14/06
91852	184	08 EXCAVATOR 07 KOMATSU MOD PC138USLC	21539	0	DIESEL	140.131.36	02/11/08
91852	185	07 PATCHER 07 PYTHON POTHOLE	PP-002-1207	0	DIESEL	288.871.90	04/02/08
91862	103	76 DROFT MOBILE CRANE	6223703	10.500	DIESEL	20.000.00	06/01/78
91862	108	98 TRUCK: LIFT BOOM GROVE ARTICULAT'G	AMZ68 46668	27.420	DIESEL	95,907,76	09/01/98
91862	109	98 BARRIER TRANSFER MACHINE, BTM ZIPM	DBILE 195	69.292	DIESEL	1,700,000,00	07/29/98
91862	110	98 BARRIER TRANSFER MACHINE, BTM ZIPM	DBILE 196	69,292	DIESEL	1,700,000.00	09/11/98
91862	113	00 PALLET JACK: HYSTER ELECTRIC 60	B199H06696X	0	DIESEL	10,200.00	04/18/00
91862	114	99 PUMP GORMAN-RUPP PORT TRASH PA6160	-4045D 1160590	5.200	DIESEL	39,893.49	06/01/00
91,862	115	84 FORKLIFT: 84 TCM 6000 MODEL #FG3DN	Г 44430599	16.280	DIESEL	1,400.00	05/17/04
91862	116	06 CHIPPER BANDIT 280	1107	0	DIESEL	46.666.38	12/29/06
91862	117	06 CHIPPER BANDIT 280	1108	0	DIESEL	46,666.36	12/29/06
91862	118	06 CHIPPER BANDIT 280	1110	0	DIESEL	46.666.36	12/29/06
	•		,			FUEL TYPE TOTA	λL
91812	537	97 TRUCK, CHEV PICKUP	1GCCS14X9V8171357	0	PROPANE	19.634.36	05/01/97
91812	563	99 TRUCK: GMC SIERRA EXT CAB PICKUP 2	500 10000000000000000000000000000000000	8.600	PROPANE	32.735.04	06/01/99
91812	568	97 TRUCK: CHEVROLET MPVH BLAZER	1GNDT13W8V2239006	0	PROPANE	.00	06/01/97
91812	572	98 TRUCK: FORD MPVH EXPLORER	1 FM2U34X9WUA20006	ő	PROPANE	.00	06/01/98
91.812	573	98 TRUCK: FORD MEVE EXPLORER	1 FM21134 X 0WTA 20007	ů.	PROPANE	-00	06/01/98
91812	574	98 TRUCK: FORD MEVH EXPLORER	1 FMZ1134 X2WIA20008	ů	PROPANE	.00	06/01/98
91812	576	98 TRUCK: FORD RANGER PICK UP	1FT2R15X5WPA15246	0	PROPANE	.00	06/01/98
91812	589	00 TRICK: FORD 4 W/D PU W/ALTERNATE F	TEL. 1FTZR15X3YPB48056	5.080	PROPANE	29 959.18	06/01/00
91812	590	OO TRUCK, FORD 4 W/D PU W/ALTERNATE F	IEI. 1FT2R15X5YPB48057	5 080	PROPANE	29,959,18	06/01/00
91812	641	04 VAN FORD E350	1FMNE311.94HB42867	5,000	PROPANE	39,765,11	03/17/05
91812	642	04 VAN: FORD E350	1 FMNE3 11.7AWRADAKK	່ ດ	PROPANE	39,765.11	03/17/05
91.842	233	97 THERMO PLASTIC STRIPING MACHINE	1. (1,55 11; 115 18000	ň	PROPANE	.00	01/01/97
		· · · · · · · · · · · · · · · · · · ·		v		FUEL TYPE TOTA	ΔL, 51, 57,
91812	591	00 TRUCK: FORD PU W/ALTERNATE FUEL	2FTPX17ZXYCA99791	7,700	PROPANE/GAS	32,342.98	06/01/00
91812	592	00 TRUCK: FORD PU W/ALTERNATE FUEL	2FTPX17Z1YCA99792	7,700	PROPANE/GAS	31,822.15	06/01/00

----ACQUISITION-----

.. *

91812	593	00	TRUCK: FORD PU W/ALTERNATE FUEL	2FTPX17Z3YCA99793	7,700	PROPANE/GAS	32.342.98	06/01/00
91812	650	05	TRUCK FORD F150 PICKUP	1FTRF12W35NA04809	0	PROPANE/GAS	37,305.33	10/04/05
91812	651	05	TRUCK: FORD 150 PICKUP	1FTRF12W15NA04808	ů.	PROPANE/GAS	37.305.34	10/04/05
91812	652	05	TRUCK: FORD 150 PICKUP	1 FTRF1 20X5NA04807	0	PROPANE/GAS	37,305,34	10/04/05
91 81 2	653	05	TRUCK: FORD 150 PICKUP	1FTRF120X5NA04810	. 0	PROPANE/GAS	37,305,33	10/04/05
91812	654	04	VAN: FORD E350	1 FMNE311.15HA05889	0	PROPAME / GAS	39 094 12	12/14/05
91812	700	07	SUV 06 FORD SPORT LETTLITY EXPLORER	1 FMEU62E56UB38457	0	DRODANE /CLAS	32 245 22	06/22/07
91812	701	07	VAN 06 FORD B350	1 EMNE31 S66DB02148	0	PROPANE/GAS	39 752 87	06/21/07
91812	70B	07	VAN FORD E150	1 EMNEL 11, X 710834373	ő	DRODANE/GAG	13 779 75	04/21/08
91812	709	07	VAN FORD E150	1 5MNE1 11.27DB34373	0	DRODANE/GAS	43,733,25	04/21/00
91812	711	0.8	SUV FORD ESCAPE COMPACT	1 FMCTIO3ZOSKB33431	ő	DRODANE/GAS	29 922 50	04/30/08
91812	713	0.B	SIN FORD EXPLORER SPORT ITTLITTY 4X4	1 EMELIO 2 E 2 8 1 8 1 5 8 5 4 5 1	0	DROPANE/GAS	A3 704 66	04/30/08
		••	SOV TONS MEDSAGA STORT OTTMETTI AND	ITAG / SE / CORLSSO	v	PROPANE/ ONS	104.00	03/20/00
							FORD TIPE TOT.	AП
91812	604	ดา	SEDAN, FORD 4 DOOR TAIRUS	1 5450522214252114	A 69A	FTHONDI. CONS.	17 605 74	06/01/01
91812	612	02	SEDAN, FORD TAURUS ADD	100000000000000000000000000000000000000	4,004	ETHONAL OAS	10 003 03	00/01/01
91812	618	02	TPK, FORD EXPLOSED 4YA 4 DP	1 FM21172K222C52474	5 940	ETHONAL/GAS	43 133 33	00/10/02
91812	619	02	TOK. FORD FYDLORER SDOOT ITTLITY	3 DMUICOV1 07/20074	5,040	ETHONAL/GAS	40 151 83	09/12/02
91812	634	กร	THE FORD DEFENSION DECKI STILLT	1 59900 414 205 41 206	5,700	EINONAL/GAS	40,151.05	12/02/04
91817	636	03	TRUCK FORD PU	1F11R44V43TAV1223	U	ETHONAL/GAS	18,500.25	12/09/04
01010	635	03	TRUCK FORD FU .	1912R44V03PB225/3	U	ETHUNAL/GAS	18,500.25	12/09/04
01012	000 716	0.3	TRUCK FORD PU	1FT2R44V83PB35376	0	STHONAL/GAS	18,500.25	12/09/04
91014 01010	638	04	TRUCK DODGE PU	1D7HA16P54J253265	U	ETHONAL/GAS	22,807.16	12/09/04
01010 3787%	64.3	05	SEDAN, FORD 4 DR. TAURUS	1FAFP532X5A160474	0	ETHONAL/GAS	14,551.99	06/24/05
91815	644	05	SEDAN: FORD 4DR TAURUS	1FAFP53265A160472	0	ETHONAL/GAS	1.00	06/24/05
ATRT5	645	05	SEDAN: FORD 4 DR TAURUS	1FAFP53285A160473	0	ETHONAL/GAS	1.00	06/24/05
91812	656	05	SEDAN: FORD TAURUS 4 DR.	IFAFP532X5A303679	0	ETHONAL/GAS	15,940.24	12/28/05
91812	657	05	SEDAN: FORD TAURUS 4 DR.	1FAFP53245A303676	0	ETHONAL/GAS	15,940.24	12/28/05
91812	658	0 5	SEDAN: FORD TAURUS 4 DR.	1FAFP53265A303677	0	ETHONAL/GAS	15,940.24	12/28/05
91812	659	05	SEDAN: FORD TAURUS 4 DR.	1FAFP53285A303681	0	ethonal/gas	15,940.23	12/28/05
91812	660	05	SEDAN: FORD TAURUS 4 DR.	1FAFP53285A303678	0	ETHONAL/GAS	15,940.23	12/28/05
91812	661	05	SEDAN: FORD TAURUS 4 DR.	1FAFP53265A303680	0	ETHONAL/GAS	15,940.24	12/28/05
91812	675	05	SUV FORD EXPLORER	1FMZU62KX5ZA62730	0	ETHONAL/GAS	23,176.94	12/30/05
91812	681	06	SEDAN FORD TAURUS	1FAFP53266A262890	0	ETHONAL/GAS	24,037.98	01/23/07
91812	682	06	TRUCK DODGE RAM 1500 QUAD CAB PU	1D7HA18P96J200732	0	ETHONAL/GAS	26,568.58	12/22/06
91812	683	06	TRUCK DODGE QUAD CAB RAM 1500 PU	1D7HA18P06J200733	0	ETHONAL/GAS	26,568.58	12/22/06
91812	684	06	TRUCK DODGE RAM 1500 PU	1D7HA16P36J200728	0	ETHONAL/GAS	22,772.77	12/22/06
91812	685	06	TRUCK DODGE RAM 1500 PU	1D7HA16P36J200731	٥	ETHONAL/GAS	22,772.77	12/22/06
91812	686	06	TRUCKK DODGE RAM 1500 PU	1D7HA16P56J200729	0	ETHONAL/GAS	22,772.77	12/22/06
91812	687	06	TRUCK DODGE RAM_1500 PU	1D7HA16P16J200730	n	ETHONAL/GAS	22.772.77	12/22/06
91812	688	06	TRUCK DODGE RAM 1500 OUAD CAB 4X4	7HU18P66J201912	0	ETHONAL/GAS	28.477.94	12/22/06
91812	689	06	TRUCK DODGE RAM 1500 OUAD CAB 4X4	10780182867201913	ů.	ETHONAL/GAS	28.477.94	12/22/06
91812	690	06	TRUCK DODGE RAM 1500 OUAD CAB 4X4	107817140767201914	ň	ETHONAL/GAS	29 477 94	19/22/06
91812	699	07	TRICK OF FORD F150 DI	1 570 51 377 6 10 4 1 0 4 4	Ň	STUDNAL /CAR	20,417.04	04/19/07
20000	~	Ŷ,	1100A VO FORD 119V 20	TEINETSAYOND41044		атпонны вно	24,303.03	λT.
							FORD TIPE TOT.	h.1)
91822	227	00	RADVITET, CAREDDITIND DIDOWNIC INCOMP	8180110471	0		11 429 14	00101100
21000	501	22	FORREIFIT CRIEKETHING EDECIRIC LIFI IKK	R26C320272	v	SUSCIRIC	31,437.3V	06/01/99
							FORD TIPE TOT	810
91832	7 (1 2	77	TRATIFO. FURDOPERN COMP.	202	~		~~	03/01/22
91830	103	40	TRAILER, REFILLIF 20 TON LONDON MIA DAND	703 703	56 000	NOR APPLICABLE	.00	00/00/00
01037	313		TRAIDER PROUMUE 20 ION DONDOT W/O KAMP	FH15025	36,000	NOT APPLICABLE	1,010.19	22/22/22
22032	خدد	02	IRAIDAT TRAID AING SMADD	TIVOOT05ICWT03184	12,500	NOL ABBUICABPE	6,321.12	TT/0T/85

----ACQUISITION-----

COST

DATE

FUEL.....

GVW

PERIOD: 07/01/07 THRU 06/30/08

E/U ALTERNATIVE FUEL REPORT BY FUEL TYPE 9/10/08

HIGHWAYS DIVISION - OAHU DISTRICT

.. ×' .

EQUIPMENT

91812 593

PERIOD: 07/01/07 THRU 06/30/08

~

						ACQUIS	ITION
EQUIPN	ENT	DESCRIPTION	SERIAL NÚMBER	. GVW	FUEL	COST	DATE
91832	113	82 TRAILER: TRAIL KING SMALL	1TKU01625CM103196	12,500	NOT APPLICABLE	4,321.12	11/01/82
91832	115	84 TRAILER: EAGER BEAVER UTILITY	1120TL10XES030032	7,200	NOT APPLICABLE	.00	10/01/84
91832	117	86 TRAILER: MANNS WELDING UTILITY SCALE	TL648	0	NOT APPLICABLE	12,420.00	09/01/86
91832	118	88 TRAILER: HOMEMADE UTILITY	SOH022588HON	0	· NOT APPLICABLE	2,855.00	03/01/88
91832	119	87 TRAILER: ZIEMAN TILT	12CT27E20H2P13858	14,000	NOT APPLICABLE	5,662.62	05/01/89
91832	120	89 TRAILER: CALKINS BOAT	1CXBP1413KS910653	0	NOT APPLICABLE	427.08	06/01/89
91832	125	66 TRAILER: STEVENS MFG.CO.CARGO	3801	0	NOT APPLICABLE	150.00	09/01/90
91832	126	93 TRAILER: TRAILEVATOR UTILITY	1T9ME1419PM199185	4,680	NOT APPLICABLE	6,408.35	10/01/93
91832	127	93 TRAILER: ZIEMAN UTILITY TILT MOD-2310	12C729B25P2P17467	22,500	NOT APPLICABLE	.00	12/01/93
91832	128	94 TRAILER: W/SKID RESISTANCE EQUIPMENT	M1270-082	0	NOT APPLICABLE	183,874.00	02/01/95
91832	129	96 TRAILER: (HOMEMADE)		0	NOT APPLICABLE	1.00	02/01/96
91832	130	96 TRAILER: SPECTRUM SCALE LT-2900	189EC1613TH364445	0	NOT APPLICABLE	16,110.93	12/01/96
91832	131	96 TRAILER: SPECTRUM SCALE LT-2900	1S9EC1615TR364446	0	NOT APPLICABLE	16,110.93	12/01/96
91832	132	96 TRAILER: BOBCAT SHOPBUILT BCT-16-7500	1S9BS2126TH364435	0	NOT APPLICABLE	6,250.00	12/01/96
91832	133	97 TRAILER: SHOPBUILT UTILITY	1S9US121XVH364555	0	NOT APPLICABLE	885.41	06/01/97
91832	134	97 TRAILER: SHOPBUILT UTILITY	1S9US1212VH364556	0	NOT APPLICABLE	885.41	06/01/97
91832	135	98 TRAILER: WEIGHT SCALE	EC161XVH364302	0	NOT APPLICABLE	17,587.38	06/01/98
91832	136	97 TRAILER WEIGHT SCALE SHOPBLT LODEC3030	1S9EC1611VH36403	0	NOT APPLICABLE	17,014.47	06/01/97
91832	137	98 TRAILER: INTERNATIONAL BW508	1ZFUF0818WB001623	0	NOT APPLICABLE	2,520.00	06/01/98
91832	138	98 TRAILER: SPECTRUM LAWNMOWER T3000	1S9LS1828WH364459	5,000	NOT APPLICABLE	5,800.00	06/01/98
91832	139	98 TRAILER: SPECTRUM LAWNMOWER T3000	1S9LS1826WH364460	5,000	NOT APPLICABLE	5,800.00	06/01/98
91832	140	98 TRAILER: SPECTRUM LAWNMOWER T3000	1S9LS1824WH364461	5,000	NOT APPLICABLE	5,800.00	06/01/98
91832	141	99 TRAILER: ZIEMAN UTILITY #8012 SPL	1ZCE18522XZP20671	8,300	NOT APPLICABLE	6,508.30	06/01/99
91832	142	99 TRAILER: ZIEMAN UTILILY #8012 SPL	1ZCE18S24XZP20672	8,300	NOT APPLICABLE	6,508.29	06/01/99
91832	143	99 TRAILER: ZIEMA UTILITY #8012 SPL	1ZCE18S26XZP20673	8,300	NOT APPLICABLE	6.508.00	06/01/99
91832	144	99 TRAILER: SPECTRUM BOBCAT MOD. 2580	1S9BS2420XH364108	0	NOT APPLICABLE	7,276.00	06/01/99
91832	145	99 TRAILER: SPECTRUM LAWNMOWER	1S9LS1828XH364110	4,980	NOT APPLICABLE	5.800.00	06/01/99
91832	146	99 TRAILER: CHILTON UTILITY UT48155-1	14DAC0810XC000231	1,500	NOT APPLICABLE	2,200.00	06/01/99
91832	148	00 TRAILER: SPECTRUM LAWNMOWER T-3000	189L51826YH364107	5,280	NOT APPLICABLE	6,249,96	06/01/00
91832	149	00 TRAILER: BUTLER FLAT BED LT-812-DH	00-2059-2250LB	B,500	NOT APPLICABLE	5 168,75	06/01/00
91832	150	00 TRAILER: SPECTRUM BOBCAT BCT 16-12000	1S9BC2320YH364111	12,000	NOT APPLICABLE	8,749.94	06/01/00
91832	151	00 TRAILER: SPECTRUM BOBCAT	1S9BC2322YH364112	12,000	NOT APPLICABLE	8,749.94	06/01/99
91832	152	00 TRAILER: CARRY-ON UTILITY 5X8G	4YMUK0813YH042326	. 0	NOT APPLICABLE	2.864.68	06/01/00
91832	153	00 TRAILER: CARRY-ON UTILITY 5X8G	4YMUK0815YH042327	0	NOT APPLICABLE	2,864.68	06/01/00
91832	154	01 TRAILER: ZIEMAN UTILITY	1ZCE18\$2712P23136	· 8,300	NOT APPLICABLE	8.958.28	06/01/01
91832	155	01 TRAILER: ZIEMAN TILT 1157	1ZCT21T261ZP23378	14.000	NOT APPLICABLE	8,609,32	06/01/01
91832	156	02 TRAILER: SPECTRUM LAWMMONER	18908182018364193	5,440	NOT APPLICABLE	7,291,62	03/25/03
91832	157	03 TRAILER: ZIEMAN UTILITY	12CE1852332P24562	8,300	NOT APPLICABLE	6.770.79	12/09/03
91832	159	05 SCALES ELECTRONIC AXLE W/TRAILER		0	NOT APPLICABLE	27,505.00	09/22/06
91832	160	05 SCALES ELECTRONIC AXLE W/TRAILER		0	NOT APPLICABLE	27.505.00	09/22/06
91842	123	75 WELDER: LINCOLN ARC	4795022	0	NOT APPLICABLE	3.121.00	06/01/97
91842	230	96 ERADICATOR, ROBIN EH 17	1098152	0	NOT APPLICABLE	7.209.00	12/01/96
91842	231	96 VACUUM: CLEANER, NELFISK GS83	960529-2064	0	NOT APPLICABLE	4,923,00	12/01/96
91842	237	98 OPEN RADAR SPEED MONITOR UNIT	4AGAU095XWC027173	Ó	NOT APPLICABLE	9.765.00	06/01/98
91842	238	98 OPEN RADAR SPEED MONITOR UNIT	4AGA109S1WC027174	ő	NOT APPLICABLE	9 765.00	06/01/98
91842	247	99 POST POUNDER, DANUSER MODEL MD-6	11827	ő	NOT APPLICABLE	4 718 71	06/01/99
91842	248	98 CART, EZ-GO GOLF CARGO CARRIERS #875E	•••••	ň	NOT APPLICARLE	6.236.92	06/01/98
91842	249	98 CART, EZ-GO GOLF CARGO CARRIERS #875E		۰ ۵	NOT APPLICANLE	6.236.92	06/01/98
91842	250	98 CART, EZ-GO GOLF CARGO CARRIERS #875E	21675	ň	NOT ADDI.ICARLE	6 226 02	05/01/00
91842	256	97 MIXER: BETONIERA WORKMAN 250 CONCEPTE	0000138311	۰ ۸	NOT APPLICABLE	2 080 00	06/01/07
91842	264	99 MONITOR: MIGHTY MOVER SPEED CONTROL	41631111127002046	2.000	NOT ADDITOADID	10 000.00	06/01/00
			THENOILIANCON 2740	21000	NOT AFENICADNA		00/01/99
		_					

PERIOD: 07/01/07 THRU 06/30/08

....

						ACQUISI	TION
EQUIPM	ENT	DESCRIPTION	SERIAL NUMBER	GVW	FUEL	COST	DATE
91842	265	99 MONITOR: MIGHTY MOVER SPEED CONTROL	4AGAU1114XC029947	2,000	NOT APPLICABLE	10.020.77	06/01/99
91842	286	02 TRAILER: ITCP MTD SPEED CONTROL MONITOR	40XK111S02A0007	2,000	NOT APPLICABLE	11,999.00	09/12/02
91842	287	02 TRAILER: ITCP MTD SPEED CONTROL MONITOR	40XK111S22A020008	2,000	NOT APPLICABLE	11,999.00	09/12/02
91842	309	05 ARROWBOARD WANCO W/TRAILER WTSP75-LSAC	5F11S101351000	0	NOT APPLICABLE	7,830.00	09/22/06
91842	310	05 ARROWBOARD WANCO W/TRAILER WTSP75-LSAC	5F118551000458	0	NOT APPLICABLE	7,830.00	09/22/06
91842	313	06 WELDER LINCOLN TIG K1828-1	U1060202431	0	NOT APPLICABLE	17,580.00	05/01/07
91842	315	06 POT PREMELTER TRANTEX THERMOPLASTIC	000504/000505	0	NOT APPLICABLE	133,702.00	02/16/07
91842	319	06 VACUUM EDCO 18 GAL DR VAC 250	061814230	0	NOT APPLICABLE	8,705.94	02/16/07
91842	321	07 MIXER STEEL DRUM CONCRETE WHITEMAN	C2752167	0	NOT APPLICABLE	3,508.00	12/13/07
91842	322	07 MIXER STEEL DRUM CONCRETE WHITEMAN	C2752132	0	NOT APPLICABLE	3,508.00	12/13/07
91842	323	07 MACHINE STRIPING TRANTEX THERMOPLASTIC	K8756	0	NOT APPLICABLE	44,965.00	04/23/08
						FUEL TYPE TOTA	AL .

	MODEL	GROSS VEHICLE	VEHICLE FUEL	ACTUAL IN-USE	FUEL CONSUMPTION	СІТҮ	ΗWΥ
VEHICLE DESCRIPTION	YEAR	WEIGHT RATING	CONFIGURATION	VEHICLE MILEAGE	(GAL)	MPG	MPG
FORD AEROSTAR VAN	97	-	Gasoline	12,329	599.4	17	23
CHEVY LUMINA	93	-	Gasoline	16	0.0	20	29
JEEP CHEROKEE	98	1	Gasoline	8,611	478.4	18	20
VAN CHEV ASTRO PASSENGER	93	1	Gasoline	3,818	224.6	15	19
VAN CHEV ALUM CUBE	93	1	Gasoline	4,845	255.0	18	24
VAN CHEV ALUM CUBE	93	1	Gasoline	20,286	1,127.0	18	24
VAN CHEV ALUM HIGH CUBE	66	L	Gasoline	25,690	1,427.2	18	25
VAN CHEV 15 PASSENGER	90	2	Gasoline	18,531	1,158.6	16	20
VAN CHEV 15 PASSENGER	90	2	Gasoline	16,327	1,816.5	16	20
VAN CHEV 15 PASSENGER	20	2	Gasoline	8,788	982.3	19	26
VAN FORD 15 PASSENGER	01	2	Gasoline	8,246	434.0	19	26
VAN CHEV 15 PASSENGER	08	2	Gasoline	6,295	301.4	19	26
VAN FORD 15 PASSENGER	66	2	Gasoline	34,900	1,745.0	19	26
VAN DODGE 12 PASSENGER	26	2	Gasoline	14,353	755.4	19	26
VAN DODGE 12 PASSENGER	97	2	Gasoline	15,924	838.1	19	26
P/U CHEVY S-10	84	1	Gasoline	10,984	549.2	15	20
VAN FORD ECONOLINE CARGO	66	-	Gasoline	6,628	473.4	15	20
VAN FORD	97	1	Gasoline	1,550	229.7	15	20
TRUCK CHEVY/VAN DIESEL	91	2	Diesel	7,574	473.4	16	21
P/U DODGE	98	2	Gasoline	5,898	549.2	13	17
VAN FORD	99	1	Gasoline	3,446	229.7	15	20
VAN FORD 15 PASSENGER	97	2	Gasoline	6,628	473.4	14	19
VAN DODGE	00	2	Gasoline	10,435	549.2	19	26
CHEVY VAN	97	2	Gasoline	7,574	473.4	16	20
CHEVY VAN	97	2	Gasoline	3,675	229.7	16	20
SDN CHEV CELEBRITY 4DR	88	1	Gasoline	0	0.0	24	31
SDN TOYOTA COROLLA 4DR	03	-	Gasoline	1,791	80.3	30	38
FORD TAURUS 4DR	05	-	Gasoline	131	22.1	20	27
VAN DODGE	90	2	Gasoline	19,460	973.0	19	26
VAN GMC M15Z	90	2	Gasoline	585	45.0	13	15
P/U TRUCK FORD F-250	91	2	Gasoline	4,043	512.0	11	16
SDN CHEVY CAPRICE	92	-	Gasoline	1,645	91.4	18	26
VAN FORD CLUBWAGON	97	1	Gasoline	13,700	978.6	14	18
VAN FORD AEROSTAR	97	1	Gasoline	12,847	1,074.0	17	23
VAN DODGE	91	2	Gasoline	2,315	307.9	19	26
P/U DODGE RAM	91	2	Gasoline	435	58.6	13	17
SUV CHEV BLAZER	93	2	Gasoline	558	42.9	13	16
STATION WAGON CHEV CELEBRITY	90	-	Gasoline	5,817	578.0	11	16
VAN FORD 3 DR E-350 15 PASSENGER	03	2	Gasoline	23,608	1,192.0	14	18
P/U TRUCK CHEVY	91	-	Gasoline	5,068	298.1	15	20
CHEVY IMPALA 4DSD	07	-	Gasoline	4,364	268.2	20	30
SDN CHEVY 4DSD CAPRICE	90	1	Gasoline	7,216	601.3	12	16

VEHICLE DESCRIPTION	MODEL	GROSS VEHICLE WEIGHT RATING	VEHICLE FUEL CONFIGURATION	ACTUAL IN-USE VEHICLE MILEAGE	FUEL CONSUMPTION (GAL)	CITY MPG	НWY МРG
SDN OLDS CIERA	96	-	Gasoline	493	35.2	14	18
SDN CHEVY CORSICA	95	1	Gasoline	505	36.1	14	18
P/U TRUCK CHEVY	94	-	Gasoline	1,754	125.3	14	19
VAN CHEVY	07	1	Gasoline	38,999	2,999.9	12	16
VAN CHEVY	07	1	Gasoline	47,253	3,375.2	12	16
P/U DODGE	86	2	Gasoline	5,928	456	13	17
VAN CHEV 12 PASSENGER	92	2	Gasoline	1,624	336	16	21
P/U TRUCK DODGE	82	2	Gasoline	6,552	504	13	17
VAN CHEV	98	2	Gasoline	7,296	456	16	20
VAN CHEV	98	2	Gasoline	37,440	2,340	16	20
VAN GMC	89	2	Gasoline	5,304	408	13	15
SDN CHEV 4DR	88	1	Gasoline	9,108	396	23	32
P/U TRUCK CHEV	78	1	Gasoline	7,200	360	20	26
BUS DODGE 15 PASSENGER	87	2	Gasoline	3,900	300	13	16
P/U CHEV	87	+	Gasoline	6,000	300	20	26
SDN CHEV 4DR	91	1	Gasoline	6,624	276	23	32
SDN CHEV 4DR	87	+	Gasoline	21,804	948	23	32
CHEVY BUS 20 PASSENGER	94	2	Gasoline	15,120	1,008	N/A	N/A
FORD ECONOLINE VAN	98	1	Gasoline	8,280	552	15	20
CHEVY IMPALA	02	1	Gasoline	7,980	420	19	29
CHEVY IMPALA	03	1	Gasoline	28,980	1,380	21	32
CHEVY ASTRO VAN	98	2	Gasoline	27,840	1,740	16	20
SDN OLDS CIERA 4DR	94	1	Gasoline	0	0	N/A	N/A
OLDS ALERO	02	-	Gasoline	7,584	316.0	24	32
CHEVY IMPALA 4DSD	04	+	Gasoline	6,880	295.0	21	32
FORD TAURUS 4DSD	06	1	Gasoline	4,141	268.0	18	24
DODGE INTREPID	02	1	Gasoline	1,287	69.0	20	27
CHEVY IMPALA 4DSD	04	-	Gasoline	06	3.0	21	32
VAN CHEVY ASTRO	92	+	Gasoline	48,090	3,005.0	16	20
FORD EXPLORER XLT	05	1	Gasoline	33,958	1,907.0	16	21
CHEVY IMPALA	07	-	Gasoline	2,568	111.0	21	32
DODGE CARAVAN	07	-	Gasoline	2,621	172.0	20	26
CHEVY CAPRICE SDN	93	-	Gasoline	378	18.0	18	26
SUBARU SDN 4DR	91	-	Gasoline	0	0.0	20	26
VAN CHEV 12 PASSENGER	97	2	Gasoline	4,121	206.0	16	20
TRUCK CHEV CREW CAB	98	2	Gasoline	4,306	266.0	13	16
VAN CHEV 15 PASSENGER	98	2	Gasoline	4,928	369.0	16	21
VAN CHEV 12 PASSENGER	97	2	Gasoline	3,088	193.0	16	21
SDN SR5 TOYOTA 2 DR	86	-	Gasoline	4,320	239.0	18	20
SUV CHEV BLAZER 2DR	06	2	Gasoline	4,922	549.0	13	16
BUS FORD 15 PASSENGER	91	e	Gasoline	8,430	562.0	N/A	N/A
S/W FORD 2DR	87	~	Gasoline	10,600	424.0	21	27

VEHICLE DESCRIPTION	MODEL VFAR	GROSS VEHICLE WEIGHT RATING	VEHICLE FUEL CONFIGURATION	ACTUAL IN-USE VEHICI F MII FAGF	FUEL CONSUMPTION	CITY MPG	ЧWY
S/W FORD	89	-	Gasoline	8.119	353.0	21	27
TRUCK INT'L HARVESTER	80	5	Diesel	2,478	177.0	N/A	N/A
TRUCK GMC FLTBD STK	83	2	Gasoline	1,937	149.0	N/A	N/A
P/U TRUCK FORD	84	-	Gasoline	1,744	109.0	15	20
TRUCK CHEV FLTBD	87	2	Gasoline	2,108	124.0	N/A	N/A
TRUCK INT'L	87	2	Diesel	20,275	6,352.0	N/A	N/A
TRUCK FORD CREWCAB	92	-	Diesel	401	25.0	16	20
TRUCK GMC DUMP	83	8	Diesel	3,294	549.0	N/A	N/A
TRUCK FORD CHAS. AERIAL	90	1	Gasoline	414	23.0	A/N	N/A
TRUCK FORD DUMP	89	8	Diesel	1,254	66.0	A/N	N/A
TRUCK FORD DUMP	89	8	Diesel	650	26.0	A/N	N/A
P/U TRUCK CHEV 3/4T	82	1	Gasoline	3,151	210.0	15	20
P/U TRUCK FORD F150	82	Ļ	Gasoline	13,821	813.0	21	22
P/U TRUCK FORD	80	1	Gasoline	4,369	257.0	17	22
BUS INT'L 72 PASSENGER	88	N/A	Diesel	11,296	549.0	A/N	N/A
BUS INT'L 72 PASSENGER	84	N/A	N/A	855	57.0	N/A	N/A
BUS INTL 72 PASSENGER	82	N/A	N/A	6,588	549.0	N/A	N/A
BUS CHEV 60 PASSENGER	87	N/A	N/A	5,490	549.0	N/A	N/A
SUV CHEV BLAZER	02	-	Diesel	6,302	375.0	13	16
SUV CHEV BLAZER	91	-	Gasoline	12,788	590.0	13	16
SUV CHEV BLAZER	84	-	Gasoline	1,001	77.0	13	16
S/W CHEV	94	-	Gasoline	4,692	262.0	21	27
SUV CHEV BLAZER	84	-	Diesel	8,235	549.0	13	16
VAN FORD CARGO	87	1	Gasoline	6,390	426.0	15	20
VAN FORD CARGO	87	-	Gasoline	6,588	549.0	15	20
P/U TRUCK FORD	95	2	Gasoline	6,094	554.0	11	16
P/U TRUCK FORD	95	2	Gasoline	3,879	339.0	11	16
TRUCK TRAC PETERBILT	83	N/A	Diesel	9,483	6,564.0	N/A	N/A
P/U CHEV UTILITY	90	-	Gasoline	2,603	257.0	15	20
TRUCK KAISER STAKE BODY	66	N/A	Gasoline	405	27.0	N/A	N/A
TRUCK INT'L STAKE MODEL 1624	80	N/A	Diesel	1,037	61.0	N/A	N/A
SUV FORD BRONCO 2DR	92	2	Gasoline	8,654	528.0	14	18
TRUCK INTL HARVESTER MODEL S-1600	80	5	Gasoline	198	11.0	N/A	N/A
BUS INTL 72 PASSENGER	78	N/A	N/A	465	31.0	N/A	N/A
P/U TRUCK CHEV	92	1	Gasoline	15,041	958.0	15	20
BUS FORD 15 PASSENGER	00	3	Gasoline	8,784	549.0	N/A	N/A
BUS FORD 15 PASSENGER	00	3	Gasoline	65,700	3,650.0	N/A	N/A
TRUCK CHEV 1/2T	93	-	Gasoline	8,235	549.0	15	20
VAN CHEV 15 PASSENGER	01	2	Gasoline	14,150	1,295.0	13	16
VAN FORD CARGO	81	~	Gasoline	1,560	104.0	15	20
VAN CHEV 10	94	~	Gasoline	5,464	549.0	15	20
VAN CHEV 15 PASSENGER	03	2	Gasoline	10,256	641.0	13	16

	MODEL	GROSS VEHICLE	VEHICLE FUEL	ACTUAL IN-USE		CITY	ΥWH
	YEAK	WEIGHI KATING	CONFIGURATION		(GAL)	MPG	MPG
	ŝ		Gasoline	(1/1	1.18.2	2	24
TOYOTA CAMRY	07	-	Gasoline	1,732	112.3	24	34
FORD F-350 PICKUP	01	2	Gasoline	7,589	583.8	N/A	N/A
FORD F-350 PICKUP	03	2	Gasoline	5,490	678.9	N/A	N/A
FORD F-350 PICKUP	03	2	Gasoline	7,595	874.9	N/A	N/A
P/U TRUCK FORD	92	1	Gasoline	1,179	69.4	17	22
TRUCK CHEV	63	1	Gasoline	4,224	264.0	15	20
VAN CHEV EXPRESS 15 PASSENGER	86	2	Gasoline	1,813	235.0	16	22
SDN CHEV MALIBU	66	-	Gasoline	423	38.6	23	32
VAN CHEV EXPRESS	66	2	Gasoline	695	172.5	16	20
SDN FORD MERCURY 4DR	66	1	Gasoline	3,339	232.2	25	34
VAN CHEV 15 PASSENGER	10	2	Gasoline	13,974	822.0	16	22
ΤΟΥΟΤΑ ΤΑCOMA	90	-	Gasoline	866	76.3	20	27
SUV FORD EXPEDITION	98	2	Gasoline	2,845	218.9	13	18
VAN TOYOTA SIENNA-7 PASSENGER	04	-	Gasoline	2,382	125.4	19	27
P/U TRUCK FORD F-150	86	1	Gasoline	1,336	78.6	17	22
HONDA ACCORD	01	1	Gasoline	6,985	303.7	23	30
P/U TRUCK FORD F-150	02	1	Gasoline	7,335	431.5	17	22
HONDA ODYSSEY	07	1	Gasoline	3,791	236.9	16	20
MINI COOPER S	05	1	Gasoline	4,007	160.3	25	32
TOYOTA 4RUNNERMPVH	06	1	Gasoline	12,542	696.8	18	22
SDN TOYOTA COROLLA	98	1	Gasoline	6,345	211.5	30	38
SUV CHEV TAHOE	66	2	Gasoline	3,027	252.3	12	16
SUV CHEV BLAZER	86	2	Gasoline	18,921	1,455.5	13	16
P/U FORD RANGER	66	1	Gasoline	1,628	95.8	17	22
SUV CHEV BLAZER SILVER	26	2	Gasoline	11,131	856.3	13	16
SUV CHEV BLAZER	91	2	Gasoline	292	58.7	13	16
SUV CHEV BLAZER AUTUMNWOOD	96	2	Gasoline	5,760	440.8	13	16
INFINITI G35	03	+	Gasoline	6,267	329.8	19	26
SDN TOYOTA COROLLA	03	1	Gasoline	2,063	92.8	30	38
FORD TAURUS	05	1	Gasoline	1,967	131.4	19	25
TRUCK STAKE INTL	93	N/A	N/A	0	0.0	N/A	N/A
VAN CHEV	92	2	Gasoline	1,474	133.5	16	20
P/U TRUCK CHEV 1/2	93	1	Gasoline	534	35.6	15	20
VAN FORD	<u> </u>	1	Gasoline	0	0.0	17	23
VAN FORD	85	1	Gasoline	446	72.3	17	23
SDN FORD CROWN VICTORIA	91	1	Gasoline	0	0.0	18	25
VAN FORD	06	1	Gasoline	9,480	474.0	15	20
SDN CHEV CELEBRITY 4DR	89	1	Gasoline	1,802	63.1	23	30
TRUCK CHEV STAKE	93	N/A	N/A	2,025	147.0	15	20
VAN CHEV ASTRO WHITE	92	2	Gasoline	1,531	94.2	16	20
P/U TRUCK FORD	00	1	Gasoline	6,612	334.0	15	20

	MODEL	GROSS VEHICLE	VEHICLE FUEL	ACTUAL IN-USE		СІТУ	ΥWΗ
VEHICLE DESCRIPTION	YEAR	WEIGHT RATING	CONFIGURATION	VEHICLE MILEAGE	(GAL)	MPG	MPG
SDN CHEV	86	~	Gasoline	907	50.4	18	26
VAN DODGE	87	2	Gasoline	16,205	900.8	19	26
P/U TRUCK FORD	88	1	Gasoline	536	89.6	15	20
VAN CHEV ASTRO WHITE	88	1	Gasoline	973	118.8	15	19
VAN CHEV	87	2	Gasoline	2,531	212.3	16	20
VAN GMC MODEL G39K	91	2	Gasoline	4,867	905.8	15	19
S/W CHEV 4DR	88	1	Gasoline	362	15.7	23	30
P/U TRUCK DODGE	91	2	Gasoline	598	42.7	13	17
VAN CHEV 15 PASSENGER	98	2	Gasoline	38,296	1,526.4	16	21
VAN CHEV 15 PASSENGER	98	2	Gasoline	31,613	1,859.6	16	21
VAN CHEV 15 PASSENGER	98	2	Gasoline	16,120	1,281.8	16	21
VAN GMC 15 PASSENGER	00	2	Gasoline	14,125	1,694.5	16	21
VAN CHEV 15 PASSENGER	02	2	Gasoline	1,896	111.5	16	21
VAN CHEV 15 PASSENGER	98	2	Gasoline	10,515	657.2	16	21
VAN FORD 15 PASSENGER	95	2	Gasoline	14,860	1,031.9	14	19
VAN FORD	06	~	Gasoline	944	171.5	15	20
CHEVY LUMINA	66	1	Gasoline	1,761	106.1	20	29
CHEVY BUS 20 PASSENGER	94	N/A	N/A	6,271	730.4	N/A	N/A
VAN FORD F-150	83	1	Gasoline	N/A	N/A	17	22
CHEVY SUBURBAN	96	1	Gasoline	N/A	N/A	12	16
CHEVY SUBURBAN	66	1	Gasoline	N/A	N/A	12	16
SDN CHEV CELEBRITY 4DR	89	1	Gasoline	N/A	N/A	24	31
SDN CHEV CAPRICE 4DR	92	1	Gasoline	N/A	N/A	18	26
SDN CHEV CAPRICE 4DR	92	1	Gasoline	N/A	N/A	18	26
SDN CHEV CAPRICE 4DR	92	٢	Gasoline	N/A	N/A	18	26
SDN CHEV CAPRICE 4DR	92	1	Gasoline	N/A	N/A	18	26
P/U TRUCK CHEV 2500	88	٢	Gasoline	N/A	N/A	20	26
P/U TRUCK CHEV S-10	91	4	Gasoline	N/A	N/A	20	26
HUMMER H2	03	2	Gasoline	N/A	N/A	N/A	N/A
SDN CHEV LUMINA 4DR	93	-	Gasoline	N/A	N/A	20	29
TOYOTA TACOMA PKUP TRUCK	98	-	Gasoline	N/A	N/A	20	27
FORD TAURUS 4DR SDN	05	-	Gasoline	N/A	N/A	19	25
FORD TAURUS 4DR SDN	05	-	Gasoline	N/A	N/A	19	25
FORD EXPLORER SUV 2WHEEL DR	05	٢	Gasoline	N/A	N/A	N/A	N/A
BUICK LESABRE	01	-	Gasoline	N/A	N/A	19	30
P/U TOYOTA TACOMA	04	-	Gasoline	N/A	N/A	20	27
VAN DODGE	90	2	Gasoline	N/A	N/A	19	26
SDN CHEV 4DR	90	-	Gasoline	N/A	N/A	23	32
SDN CHEV 4DR	90	-	Gasoline	N/A	N/A	23	32
SDN CHEV 4DR	90	-	Gasoline	N/A	N/A	23	32
P/U TRUCK DODGE RAMCHARGER	91	-	Gasoline	N/A	N/A	N/A	N/A
VAN CHEV	83	2	Gasoline	N/A	N/A	16	20

VEHICLE DESCRIPTION	MODEL YEAR	GROSS VEHICLE WEIGHT RATING	VEHICLE FUEL CONFIGURATION	ACTUAL IN-USE VEHICLE MILEAGE	CONSUMPTION (GAL)	CITY MPG	HWY MPG
S/W FORD TAURUS	92	-	Gasoline	N/A	N/A	19	25
SDN PONTIAC GRAND PRIX 4DR	94	-	Gasoline	N/A	N/A	19	28
SDN FORD CROWN VICTORIA 4DR	95	-	Gasoline	N/A	N/A	18	25
SDN FORD CROWN VICTORIA	97	-	Gasoline	N/A	N/A	18	25
VAN CARGO FORD	86	-	Gasoline	N/A	N/A	15	20
SDN FORD CROWN VICTORIA	66	~	Gasoline	N/A	N/A	18	25
SDN FORD CROWN VICTORIA	66	~	Gasoline	N/A	N/A	18	25
SDN FORD CROWN VICTORIA	66	-	Gasoline	N/A	N/A	18	25
SDN FORD CROWN VICTORIA	66	-	Gasoline	N/A	N/A	18	25
SDN CHEV CAPRICE 4DR	93	-	Gasoline	N/A	N/A	18	26
SDN DODGE DIPLOMAT FD	85	-	Gasoline	N/A	N/A	16	21
SUV CHEV TAHOE	66	2	Gasoline	N/A	N/A	12	16
SDN CHEVY CAPRICE 4DR	91	-	Gasoline	N/A	N/A	18	26
VAN FORD AEROSTAR	93	-	Gasoline	N/A	N/A	15	20
VAN FORD AEROSTAR	93	-	Gasoline	N/A	N/A	15	20
SDN FORD CROWN VICTORIA 4DR	00	-	Gasoline	N/A	N/A	18	25
VAN CHEV 12 PASSENGER	01	2	Gasoline	N/A	N/A	16	21
VAN CHEV 12 PASSENGER	01	2	Gasoline	N/A	N/A	16	21
FORD TAURUS 4DSD	01	1	Gasoline	N/A	N/A	19	25
BUS FORD	96	N/A	N/A	N/A	N/A	N/A	N/A
SDN FORD CROWN VICTORIA	02	-	Gasoline	N/A	N/A	17	25
SDN FORD CROWN VICTORIA	02	1	Gasoline	N/A	N/A	17	25
P/U TRUCK FORD RANGER	02	-	Gasoline	N/A	N/A	17	22
P/U TRUCK FORD RANGER	00	-	Gasoline	N/A	N/A	17	22
VAN CHEV	03	2	Gasoline	N/A	N/A	16	20
FORD CROWN VICTORIA 4 DR	03	-	Gasoline	N/A	N/A	18	25
FORD CROWN VICTORIA POLICE INTERCEPTOR	00	-	Gasoline	N/A	N/A	18	25
CHEV IMPALA POLICE INTERCEPTOR	01	-	Gasoline	N/A	N/A	20	30
SUV CHEVY TAHOE	93	2	Gasoline	N/A	N/A	12	16
FORD CROWN VICTORIA	05	-	Gasoline	N/A	N/A	18	25
FORD CROWN VICTORIA	05	~	Gasoline	N/A	N/A	18	25
DODGE VAN	98	2	Gasoline	N/A	N/A	19	26
DODGE VAN	00	2	Gasoline	N/A	N/A	19	26
DODGE VAN	00	2	Gasoline	N/A	N/A	19	26
CHEVY VAN	95	2	Gasoline	N/A	N/A	16	20
CHEVY IMPALA POLICE INTERCEPTOR	01	٢	Gasoline	N/A	N/A	20	30
CHEVY IMPALA POLICE INTERCEPTOR	01	٢	Gasoline	N/A	N/A	20	30
FORD POLICE INTERCEPTOR	06	٢	Gasoline	N/A	N/A	20	30
FORD 4DSD	02	-	Gasoline	N/A	N/A	19	25
OLDS ALERO 4DSD	02	-	Gasoline	N/A	N/A	24	32
CHEVY 4DSD	02	۲	Gasoline	N/A	N/A	20	29
CHEVY 4DSD	02	۰	Gasoline	N/A	N/A	20	29
FORD 4DSD	66	٢	Gasoline	N/A	N/A	19	25

VEHICLE DESCRIPTION	MODEL YEAR	GROSS VEHICLE WEIGHT RATING	VEHICLE FUEL CONFIGURATION	ACTUAL IN-USE VEHICLE MILEAGE	FUEL CONSUMPTION (GAL)	CITY MPG	НWY MPG
FORD 4DSD	97	-	Gasoline	N/A	N/A	19	25
LINCOLN NAVIGATOR	03	2	Gasoline	A/A	N/A	12	17
FORD 4DSD	07	Ļ	Gasoline	N/A	N/A	19	25
SDN FORD CROWN VICTORIA	07	1	Gasoline	N/A	N/A	18	25
SDN FORD CROWN VICTORIA	07	1	Gasoline	N/A	N/A	18	25
SDN FORD CROWN VICTORIA	07	1	Gasoline	N/A	N/A	18	25
SDN FORD CROWN VICTORIA	07	-	Gasoline	N/A	N/A	18	25
SDN FORD CROWN VICTORIA	07	-	Gasoline	N/A	N/A	18	25
SDN FORD CROWN VICTORIA	07	-	Gasoline	N/A	N/A	18	25
SUV TAHOE	02	1	Gasoline	N/A	N/A	16	18
OLDS ALERO	03	-	Gasoline	N/A	N/A	16	19
SDN FORD CROWN VICTORIA	04	-	Gasoline	N/A	N/A	15	20
NISSAN MAXIMA	03	1	Gasoline	N/A	N/A	17	21
FORD ECONOLINE CLUB VAN	05	1	Gasoline	N/A	N/A	15	20
SDN FORD CROWN VICTORIA	05	1	Gasoline	N/A	N/A	15	20
FORD ECONOLINE CLUB VAN	05	1	Gasoline	N/A	N/A	15	20
SUV CHEV S10 BLAZER	92	2	Gasoline	3,437	278.0	13	16
P/U TRUCK FORD RANGER	83	1	Gasoline	3,813	224.0	17	22
VAN CHEV ASTRO PASSENGER	94	2	Gasoline	4,134	258.0	16	20
FORD BRONCO	92	-	Gasoline	500	29.5	17	20
SDN CHEV IMPALA 4 DR	00	-	Gasoline	500	29.5	19	29
SDN CHEV IMPALA 4 DR	00	-	Gasoline	500	29.5	19	29
VAN CHEVY	66	-	Gasoline	500	29.5	17	20
SDS DODGE 4DSD	04	-	Gasoline	500	29.5	17	20
SDS DODGE 4DSD	04	-	Gasoline	500	29.5	17	20
SDS OLDSMOBILE 4DSD	02	-	Gasoline	500	29.5	17	20
VAN FORD 7 PASSENGER	01	-	Gasoline	500	29.5	17	20
P/U TRUCK CHEVY	01	-	Gasoline	500	29.5	17	20
SDN CHEV CELEBRITY	89	-	Gasoline	N/A	0.0	23	30
SDN CHEV CORSICA	06	~	Gasoline	8,736	364.0	24	31
VAN CHEV ASTRO	88	2	Gasoline	13,104	728.0	18	20
BUS CHEV 15 PASSENGER	91	2	Gasoline	4,421	260.0	16	21
VAN FORD WINDSTAR	98	-	Gasoline	0	0.0	18	25
VAN FORD WINDSTAR	98	-	Gasoline	11,471	780.0	18	25
P/U TRUCK CHEV	00	-	Gasoline	0	0.0	15	20
P/U TRUCK CHEV	00	-	Gasoline	15,028	884.0	15	20
VAN DODGE 15 PASSENGER	01	2	Gasoline	0	0.0	13	16
ECONOLINE FORD 15 PASSENGER CLUB WAGON	05	2	Gasoline	3,456	192.0	15	19
BUS FORD CHAMPION 14 PASSENGER	97	2	Gasoline	2,523	180.0	N/A	N/A
FORD TRUCK	90	-	Gasoline	4,487	204.0	21	26
MAZDA TRUCK	00	-	Gasoline	5,851	390.0	15	19
VAN FORD	07	-	Gasoline	4,900	416.0	15	20

					FUEL	Ĩ	
VEHICLE DESCRIPTION	YEAR	WEIGHT RATING		VEHICLE MILEAGE	CONSUMPTION (GAL)	MPG	MPG
VAN GMC RALLY W/C	92	N/A	N/A	N/A	N/A	N/A	N/A
VAN GMC RALLY W/C	92	N/A	N/A	N/A	N/A	N/A	N/A
VAN FORD CLUBWAGON	86	2	Gasoline	N/A	N/A	15	19
BUS FORD/WAYNE CHAPERONE 15 PASSENGER	87	N/A	N/A	N/A	N/A	N/A	N/A
SUV CHEV 15 PASSENGER	92	2	Gasoline	N/A	N/A	16	21
P/U TRUCK DODGE	72	2	Gasoline	N/A	N/A	13	17
P/U TRUCK CHEV	80	L	Gasoline	V/N	N/A	15	20
VAN CHEV	92	2	Gasoline	V/N	N/A	16	20
VAN CHEV	92	2	Gasoline	V/N	N/A	16	20
P/U CHEV	87	L	Gasoline	V/N	N/A	15	20
P/U TRUCK 1/2T MAZDA	84	Ļ	Gasoline	N/A	N/A	15	19
P/U TRUCK DODGE W/ CREWCAB D350	85	N/A	N/A	N/A	N/A	N/A	N/A
VAN CHEV 12 PASSENGER	93	2	N/A	N/A	N/A	16	20
P/U TRUCK DODGE	87	2	Gasoline	V/N	N/A	13	17
FORD AEROSTAR	94	1	Gasoline	N/A	N/A	17	23
P/U TRUCK CHEV	73	V/N	N/A	V/N	N/A	N/A	N/A
S/W GMC	86	N/A	N/A	N/A	N/A	N/A	N/A
VAN FORD 16 PASSENGER	88	2	Gasoline	N/A	N/A	14	15
VAN FORD 16 PASSENGER	88	2	Gasoline	N/A	N/A	14	15
P/U TRUCK DODGE RAM CHARGER	87	L	Gasoline	V/N	N/A	N/A	N/A
SUV FORD BRONCO	88	2	Gasoline	N/A	N/A	14	18
P/U TRUCK CHEV K-20 4X4	98	-	Gasoline	N/A	N/A	15	20
P/U TRUCK CHEV K-20 4X4	98	1	Gasoline	N/A	N/A	15	20
P/U TRUCK CHEV C-10	98	1	Gasoline	N/A	N/A	15	20
P/U TRUCK CHEV C-10	98	1	Gasoline	N/A	N/A	15	20
P/U TRUCK CHEV C-10	98	1	Gasoline	N/A	N/A	15	20
VAN CHEV EXPRESS	98	2	Gasoline	N/A	N/A	16	20
VAN CHEV EXPRESS	98	2	Gasoline	N/A	N/A	16	20
TRUCK DODGE FLTBD	87	N/A	N/A	N/A	N/A	N/A	N/A
SDN CHEVY LUMINA 4DR	93	1	Gasoline	N/A	N/A	20	29
TOYOTA CAMRY	05	-	Gasoline	N/A	N/A	24	34
VAN DODGE 15 PASSENGER	00	2	Gasoline	N/A	N/A	N/A	N/A

		FY 08 PURCHAS	SES		
PROGRAM	YEAR	ТҮРЕ	GVW	FUEL TYPE	COST
SD-MAUI	2008	12 - PASSENGER VAN	> 8500	E-10	\$23,933.64
SD-HILO	2008	CROWN VICTORIA	< 8500	E-85	\$37,316.17
HCCC	2008	12 - PASSENGER VAN	> 8500	E-10	\$23,933.64
	2008	High Cube Van (Food Service)	> 8500	E-10	\$41,660.00
HCF	2008	7- PASSENGER MINI VAN	< 8500	E-85	\$24,732.00
	2008	F-350FLATBED	> 8500	E-10	\$31,296.00
KCF	2008	12 - PASSENGER VAN	> 8500	E-10	\$23.933.64
	2008	12 - PASSENGER VAN	> 8500	E-10	\$23,933.64
	2008	F-250	> 8500	E-10	\$20,560.00
	0000		0600		¢00 000 64
222	0000		> 0000		\$23,333.04 #10,001,00
	2008		0068 >	E-10	00.089,81\$
MCCC	2008	F-250	> 8500	E-10	\$21,295.62
	2008	F-250	> 8500	E-10	\$21,295.62
0000	2008	12 - PASSENGER VAN	> 8500	E-10	\$23,933.64
	2008	12 - PASSENGER VAN	> 8500	E-10	\$23,933.64
WCCC	2008	12 - PASSENGER VAN	> 8500	E-10	\$29,373.00
	2008	12 - PASSENGER VAN	> 8500	E-10	\$29,373.00
WCF	2008	F-250	> 8500	E-10	\$20,560.00
	2008	F-350FLATBED	> 8500	E-10	\$31,296.00
TSD	2008	7- PASSENGER MINI VAN	< 8500	E-85	\$24,732.00
PERSONNEI	2008	7- PASSENGER MINI VAN	< 8500	F-85	\$24,732,00
OFFICE SVC	2008	CARGO MINI VAN	< 8500	E-85	\$18,644.00
		TOTAL			CEEN DOE BO
		10.14			00.000,4000

NELHA VEHICLE INVENTORY AND FUEL ECONOMY

Make: Chevy (Cost @ \$22,500)	Year: 2007	Model: Pick-up
Description: 1500 Silverado 4WD	Color:	White
Vin # 1GCEK14C97Z526482	License # C666	State I.D. #
Engine Type: 4.8 LITERV8		

Date	Mileage	Date	Mileage	Total Miles	Avg. Miles per Gallon
02/020/07	121	09/11/07	4058	3937	13.4

Make: Chevy (Cost @ \$20,390)	Year: 2006	Model: Pick-up
Description: 1500 Silverado 4WD	Color:	White
Vin # 3GCEK14V56G159435	License # C202	State I.D. #
Engine Type: 4.8 LITERV8		

Date	Mileage	Date	Mileage	Total Miles	Avg. Miles per Gallon
02/13/07	5748	09/13/07	8940	3192	14.0

Make: Chevy (Cost @ \$00)	Year: 1994	Model: Lumina Van
Description: 7 Passenger Van	Color:	WHT
Vin # 1GNDUGL2RT158012	License # A540	State I.D. #
Engine Type: 3.8 L V-6 GAS		

Date	Mileage	Date	Mileage	Total Miles	Avg. Miles per Gallon
03/06/07	93010	09/13/07	95180	2170	16

Make: Chevy (Cost \$12,500)	Year: 1992	Model: Pick-up
Description: ³ / ₄ Ton 4x2	Color: Tan	
Vin # 1GCF24K8N2198404	License # 6129	State I.D. #
Engine Type: 5.7 350 V-8 Gas		

Date	Mileage	Date	Mileage	Total Miles	Avg .Miles per Gallon
02/23/07	62915	9/25/07	65634	2719	13.5