

**JEFFERSON COUNTY GOVERNMENT WORKSHEETS
ENERGY USAGE FOR BUILDINGS FOR BASE YEAR 2005**

DEPARTMENT	BUILDING	WORK NO.	ELECTRICITY		PROPANE		FUEL OIL		AREA
			\$	kWh	\$	gal	\$	gal	Sq. Footage
COUNTY ADMIN	COURTHOUSE	80000000 - 800000001	\$19,224	235,470			\$13,391	5,963	46,433
SERVICES	CASTLE HILL HEALTH	80000015	\$11,722	134,182					11,112
	CASTLE HILL COMPLEX	80000016	\$265	2,764					
	CASTLE HILL DCD	80000017	\$2,650	33,020					3,400
	CASTLE HILL ANNEX	80000019	\$3,952	47,591					8,000
	ANIMAL SHELTER	80000018	\$1,756	21,800	\$4,528	2,917			2,313
	FEDERAL BLDG - PW	NOTE 4	\$5,808	72,600					6,050
CORRECTIONS	JAIL (ELKINS RD)	80000002	\$46,277	621,360					14,856
	ELKINS RD LIGHTING	80000002	\$2,801	37,554					
SHERIFF	ADMIN (ELKINS RD)	80000003	\$9,126	121,000					8,000
	QUILCENE ANNEX	NOTE 5	\$608	6,140			\$1,500	500	1,000
	WEST END ANNEX	NOTE 6	\$3,010	37,390					4,072
WSU EXTENSION	W. PATTISON	NOTE 6	\$1,945	25,900					
COMMUN. CTRS.	LAWRENCE ST	80000004	\$10,380	134,680	\$11,737	7,435			17,708
	GARDINER	80000005	\$4,019	54,280					5,000
	TRI AREA	NOTE 7	\$6,082	76,027					6,975
	QUILCENE	NOTE 7	\$4,334	54,173					4,970
	BRINNON SR CTR	NOTE 7	\$4,220	52,756					4,820
	BAYSHORE MOTEL	NOTE 7	\$4,814	60,179					5,521
PARKS	QUILCENE	70090	\$178	1,440					
	UPPER OAK BAY	70180	\$295	2,940					
	IRONDALE	70050	\$213	1,930					
	MEMORIAL FIELD	70210	\$4,903	38,503					3,833
	H.J. CARROLL	70220	\$874	11,742	\$133	95			1,200
ROADS ADMIN	COYLE RD REP SITE	54300	\$527	6,302					
	ROAD MAINT	54200			\$366	260			
SHOPS	HADLOCK RPR & M	160	\$15,543	207,840			\$8,002	3,468	8,400
	QUILCENE RPR & M	161	\$1,238	14,690			\$3,063	1,115	1,800
	HOH RPR & M	162	\$1,489	16,357			\$5,114	2,297	6,000
	CLEARWATER RPR & M	163	\$690	7,190					8,400

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DEPARTMENT	BUILDING	WORK NO.	ELECTRICITY		PROPANE		FUEL OIL		AREA
			\$	kWh	\$	gal	\$	gal	Sq. Footage
SHOPS, CONT'D	BRINNON RPR & M	164	\$498	4,074			\$1,941	739	1,800
	HADLOCK SURVEY ANX	166	\$1,820	23,910					3,600
	QUILCENE FUEL SITE	530	\$1,018	12,970					
SOLID WASTE	LANDFILL RD TRNSFR STATION	53700	\$2,016	26,720	\$125	43			
	MILLER RD EQUIP SHED	5204	\$517	6,120					
	LANDFILL RD PUMP HOUSE	5204	\$135	800					
	LANDFILL RD CRANE OP GRIZZLY	53700	\$1,261	14,880					
	LANDFILL RD FLAIR	53700	\$428	3,350					
	HWY 101 QUILCENE DROP SITE	53700	\$451	3,760					
	MOD. RISK WASTE - 10TH ST MRW	53730	\$447	4,810					
		TOTALS	\$177,535	2,239,194	\$16,888	10,750	\$33,012	14,082	
Notes:									
1. Costs and volumes of propane and fuel oil obtained from Cathy Taylor, Public Works Accounting, 385-9163, ctaylor@co.jefferson.wa.us									
2. Costs and electricity consumption (kWh) for electricity obtained from PSE (Nina M. Gorgas; Nov. 2007) via Renee Talley, Central Services, 385-9165, rtalley@co.jefferson.wa.us, unless otherwise stated.									
3. Electricity consumption (kWh) from Clallam Co., Gray's Harbor, and Mason Co. PUDs. obtained from Cathy Taylor, Public Works Accounting, 385-9163.									
4. 2005 data for Public Works in Federal Bldg. not available. Calculated from 6,050 sq.ft. rented, energy intensity of 12.0 kWh/sq.ft-year (Courthouse data) and \$0.08 per kWh (PSE in 2005).									
5. Quilcene Annex data from Debbie Schreier, Support Services Specialist, Olympic NF, Quilcene, 360-765-2205, dschreier@fs.fed.us									
6. PSE data for WSU Extension and West End Annex from Ann Knox, Auditor's Office, 385-9229, aknox@co.jefferson.wa.us									
7. Calculated from 10.9 kWh/sq.ft.-yr. (for Gardiner Comm.Ctr.) x building sq.ft.and \$0.08/kWh									
8. Building sq. footage obtained from Renee Talley, see Note 2.									
9. This file: JC2005 Energy, Transportation, Waste, 7-6-08									

**JEFFERSON COUNTY GOVERNMENT WORKSHEETS
STREETLIGHT ENERGY USAGE FOR BASE YEAR 2005**

DEPARTMENT	SITE	WORK NR.	ELECTRICITY	
			\$	kWh
STREETLIGHTS	CENTER ST (1)	54200	\$2,223	27,783
	S DISCOVERY	PSE 7432300635	\$146	1,010
	OAK BAY & OSPREY	PSE 9798961000	\$560	6,695
	GARDINER RD (1)	80000005	\$71	882
	SIMS WAY & SHERIDAN (1)	80000016	\$145	1,818
	WEST VALLEY RD (1)	70010	\$76	945
		TOTALS	\$3,221	39,133
Notes:				
1. Unmetered lights. All are owned by PSE, including 44 on Center St. In the City of Port Townsend, 36% of the rental pays for electricity. Costs listed for County are 36% of invoiced costs and kWh estimated from dividing by \$0.08/kWh.				
2. Energy costs obtained from Cathy Taylor, Public Works Accounting, 385-9163 ctaylor@co.jefferson.wa.us				
3. Electricity consumption (kWh) obtained from PSE via Renee Talley, Central Services 385-9165, rtalley@co.jefferson.wa.us				
4. This file: County 2005 Emissions Worksheets, 7-6-08				

JEFFERSON COUNTY GOVERNMENT WORKSHEETS
VEHICLE FUEL USAGE FOR BASE YEAR 2005

DEPARTMENT	CATEGORY	USAGE	No. of Vehicles	UNLEADED GASOLINE		DIESEL		
				gal	\$	gal	\$	
SHERIFF PATROL	AUTO - FULL SIZE		25	20,159	\$46,426			
	VAN		1	707	\$1,599			
	SUV		4	3,386	\$7,252			
ROADS	AUTO - FULL SIZE		2	411	\$953			
	AUTO - COMPACT		1	77	\$181			
	LIGHT TRUCK	PICKUP		17	13,537	\$31,459		
		SUV		1	339	\$767		
	HEAVY TRUCK	DUMP - 5 YD		3			1217	\$2,795
		DUMP - 5 YD HEAVY		3			5048	\$11,982
		DUMP -10 YD		7			17829	\$41,405
	TRACTOR TRUCK			2			931	\$2,181
		FLATBED		6	6,610	\$15,086		
	MANLIFT		1			1282	\$3,054	
	BRUSHCUTTER		3			4717	\$11,363	
	SHOULDER MOWER		3			2856	\$6,718	
	FIELD MOWER		2			371	\$879	
	CHIPPER		2			724	\$1,714	
	POWER BROOM		2			1499	\$3,600	
	STREET SWEEPER		1			1322	\$3,145	
	BACKHOE		5			3077	\$6,909	
	DOCK JOCKEY		1			124	\$240	
	LOADER		4			981	\$2,201	
	GRADER		4			3001	\$6,945	
DOZER		1			51	\$118		
ROLLER		5			639	\$1,430		
EXCAVATOR		1			291	\$660		
CHIP SPREADER		1			461	\$987		
DISTRIBUTOR		2			914	\$2,012		
WATER TRUCK		2			489	\$1,128		
ASSESSOR	AUTO - COMPACT		2	323	\$743			
	LIGHT TRUCK	SUV	2	138	\$321			
		PICKUP	2	232	\$563			
MOTORPOOL	AUTO - FULL SIZE		1	77	\$186			
	AUTO - COMPACT		1	112	\$272			

**JEFFERSON COUNTY GOVERNMENT WORKSHEETS
VEHICLE FUEL USAGE FOR BASE YEAR 2005**

DEPARTMENT	CATEGORY	USAGE	No. of Vehicles	UNLEADED GASOLINE		DIESEL	
				gal	\$	gal	\$
HEALTH	AUTO - FULL SIZE		2	682	\$1,645		
	LIGHT TRUCK	PICKUP	1	920	\$2,107		
JUV SVC	AUTO - FULL SIZE		1	92	\$214		
	VAN		1	408	\$948		
OUT SVC	AUTO - FULL SIZE		1	151	\$332		
	AUTO - MIDSIZE		1	18	\$41		
	AUTO - COMPACT		1	132	\$274		
	VAN		3	818	\$1,906		
	LIGHT TRUCK	PICKUP	2	553	\$1,200		
		SUV	1	32	\$67		
DCD	AUTO - FULL SIZE		1	238	\$550		
	LIGHT TRUCK	PICKUP	2	1,799	\$4,147		
FACILITIES	VAN		1	1,049	\$2,367		
	LIGHT TRUCK	PICKUP	3	2,041	\$4,602		
PARKS & REC	LIGHT TRUCK	PICKUP	3	2,751	\$6,309		
SHOP	LIGHT TRUCK	PICKUP	1	430	\$1,014		
BUILDING	LIGHT TRUCK	PICKUP	1	348	\$818		
LORING	VAN		1	364	\$914		
CLUBWAGON	VAN		1	1,251	\$2,801		
IS	VAN		1	1,188	\$2,747		
HAMLIN	LIGHT TRUCK	SUV	1	172	\$390		
STAFF TRAVEL	NOTE 2			1,992	\$4,596		
			TOTALS	63,538	\$145,799	47824	\$111,465
NOTES:							
1. Data obtained from Michelle Ham, Dept. of Public Works, Hadlock Shop Administrator, 385-9160, mham@co.jefferson.wa.us							
2. Reimbursements for staff travel by car were recorded in Jan. 2008, and multiplied by 12 for an annual estimate. Data collected by Ann Knox, Auditor's Office, 385-9229, aknox@co.jefferson.wa.us							
3. This file: County 2005 Emissions Worksheets, 7-6-08							

**JEFFERSON COUNTY GOVERNMENT WORKSHEETS
EMPLOYEE COMMUTE FOR BASE YEAR 2005**

Vehicle Type	No. of Employees	Miles per Year	Miles for ALL employees
Passenger car	60	213,200	735,172
Compact or hybrid car	2	14,000	48,276
Light truck, van, SUV	29	103,325	356,293
Motorcycle	2	3,925	13,534
Transit (1)	2	14,875	51,293
Bicycle (2)	3	2,900	10,000
Walk (3)	5	3,375	11,638
TOTALS	103	355,600	1,226,206

NOTES:

Miles traveled per vehicle in survey averaged as follows:

for round-trip commute distance under 5 miles, used 2.5 miles;

5-10 miles = 7.5 miles;

10-15 miles = 12.5 miles;

15-20 miles = 17.5 miles

over 20 miles used actual mileage reported

Mileage for carpools (3 passenger cars, 2 light trucks/vans) divided by 2.

Number of employees based on their major mode of transportation.

103 / 352 county employees had responded to the survey, or 29%.

The calculated annual mileage was adjusted (division by 0.29) to give miles per year for all employees.

Passenger car was assumed to be mid-sized. All trucks were assumed to be light trucks.

Transit miles were omitted as they could not be properly entered in the CACP software.

Survey conducted by Karen Barrows, Long Range Planning, Department of Community Development.

Survey results tabulated by Thomas and Joanna Loehr

This file: **County 2005 Emissions Worksheets, 7-6-08**

**JEFFERSON COUNTY GOVERNMENT WORKSHEETS
SOLID WASTE FOR BASE YEAR 2005**

DEPARTMENT	BUILDING	WORK NR.	MURREYS WASTE DISPOSAL		DIRECT DELIVERY	
			tons (2)	\$	tons (3)	\$
COUNTY ADMIN	COURTHOUSE	80000000 - 800000001	36	\$4,134	8.13	\$927
SERVICES	CASTLE HILL HEALTH	80000015	30	\$3,450	0.07	\$8
	CASTLE HILL COMPLEX	80000016	1	\$132	0.31	\$35
	CASTLE HILL DCD	80000017	16	\$1,872		
	CASTLE HILL ANNEX	80000019	3	\$405		
	ANIMAL SHELTER	80000018	8	\$966		
	FEDERAL BLDG		40			
CORRECTIONS	JAIL (ELKINS RD)	80000002	30	\$3,433		
COMMUN. CTRS.	LAWRENCE ST	80000004	29	\$3,358		
	GARDINER	80000005	3	\$433		
PARKS	TYLER ST REC CTR	57420			0.79	\$90
	MAINTENANCE	57610			7.13	\$813
	LAKE LELAND	70060	17	\$1,945		
	LOWER OAK BAY	70080	26	\$3,040		
	UPPER OAK BAY	70180	15	\$1,754		
	MEMORIAL FIELD	70210	10	\$1,148	0.16	\$18
	HJ CARROLL	70220	16	\$1,893		
ROADS	ROAD MAINT	54200			10.25	\$1,168
SHOPS	HADLOCK RPR & MAINT	160	16	\$1,883		
	QUILCENE RPR & M	161	4	\$473		
	HOH RPR & MAINT	162	3	\$377		
	CLEARWATER RD ANNEX	80000010	1	\$80		
	EQUIP RPR & REPL	54800			3.1	\$353
SOLID WASTE	LANDFILL RD TRNSFR STATION	53700				
	MILLER RD EQUIP SHED	5204				
	LANDFILL RD PUMP HOUSE	5204				
	LANDFILL RD CRANE OP GRIZZLY	53700				

**JEFFERSON COUNTY GOVERNMENT WORKSHEETS
SOLID WASTE FOR BASE YEAR 2005**

DEPARTMENT	BUILDING	WORK NR.	MURREYS WASTE DISPOSAL		DIRECT DELIVERY	
			tons (2)	\$	tons (3)	\$
	LANDFILL RD FLAIR	53700				
	HWY 101 QUILCENE DROP SITE	53700				
	MOD. RISK WASTE - 10TH ST MRW	53730		\$1,091		
	TOTALS		264.00	\$31,867	29.94	\$3,413
Total Cost of Waste = \$35,280; Total Waste = 293.9 tons						
NOTES:						
1. Solid waste financial data from Cathy Taylor, PW Accounting, 385-9163, ctaylor@co.jefferson.wa.us						
2. Tons of solid waste collected by Murray's Disposal was provided by Al Cairns, Public Works, 385-9160, acairns@co.jefferson.wa.us Tonnage and cost of waste for Public Works in Federal Building estimated from square footage.						
3. Tons of solid waste taken by County to Transfer Station (JC Solid Waste Fund) calculated from 2005 rate of \$110/ton + 3.6% refuse tax = \$114/ton.						
4. This file: County 2005 Emissions Worksheets, 7-6-08						

**JEFFERSON PUBLIC UTILITY DISTRICT #1 WORKSHEET
ENERGY USAGE FOR WATER DELIVERY FOR BASE YEAR 2005**

Meter Location	kWh	Cost (\$)	Meter Location	kWh	Cost (\$)
Airport Road/Airport Cutoff Rd.	57,320	\$3,426	Skywater (Port Hadlock)	2,480	\$162
Alpine Ct. (Port Ludlow)	20,350	\$1,510	Snow Creek	2,424	\$244
Cape George Rd (Port Townsend)	16,312	\$1,336	State Hwy 19 (Port Townsend)	3,490	\$279
Chimacum Rd (Port Hadlock)	89,184	\$6,564	Swanson Ave. (Port Townsend)	12,860	\$983
Eagle Ridge Rd.	1,740	\$175	Teal Lake Rd. (Port Ludlow)	51,176	\$3,712
Engel Rd. (Port Townsend)	8,152	\$638	Vista Grand (Port Hadlock)	3,130	\$207
Gardiner & Lud #1	23,440	\$2,001	Willison St. (Port Townsend)	10,009	\$752
Kennedy Rd. (Port Hadlock)	343,400	\$26,303	Miscellaneous sites	5,000	\$300
Oak Bay Rd. (Port Ludlow)	3,135	\$290	Mason PUD Meters --075, --176, --410	30,051	\$3,600
Olympic Ridge Rd. (Port Ludlow)	3,580	\$253			
SUBTOTAL	566,613	\$42,496	SUBTOTAL	120,620	\$10,239
			GRAND TOTAL	687,233	\$52,735
Invoices from Puget Sound Energy (for all sites except last entry for power supplied by Mason County PUD) supplied by Jim Parker, PUD #1, 385-5800, ext 307; jparker@jeffpud.org					
Data collected and organized by Thomas & Joanna Loehr, 385-6579, joannal@olympus.net					
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