

Washington State Parks and Recreation Commission

Sustainability Report

Fiscal Year 2009



Prepared for Washington State Department of Ecology

Washington State Parks Sustainability Report Fiscal Year 2009

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Agency - Please choose from drop down box -->	Parks	Phone number	Email address	Additional information
Sustainability Coordinator 1	Billie-Gwen T. Russell	902-8541	billie-gwen.russell@parks.wa.gov	
Sustainability Coordinator 2				

For assistance filling out this template, please see "FY09 Template Guidelines" booklet or contact Liz Kunz: lkun461@ecy.wa.gov or (360-407-6358). Please rename file and include the Agency Acronym before submission. Example: "FY09 ECY Sustainability Progress Report.xls"

Comments on Miles Traveled	See Appendix 1 "Resource Usage Tracking " data collected from 41% of parks; and Appendix 2 Data Methods and Comments - total fuel used to estimate miles.
Comments on Fuel Purchased	See Appendix 1 "Resource Usage Tracking " data collected from 41% of parks; and Appendix 2 Data Methods and Comments - fuel reports detail
Comments on Building Square Footage	No recorded Change estimated Sq Footage statewide
Comments on Energy consumed	See Appendix 1 "Resource Usage Tracking " data collected from 41% of parks; and Appendix 2 Data Methods and Comments - EC expenses agency totals for energy
Comments on Water consumed	See Appendix 1 "Resource Usage Tracking " data collected from 41% of parks; and Appendix 2 Data Methods and Comments - EC expenses agency totals for Water (money)
Comments on Paper purchased	See Appendix 2 Data Methods and Comments - Paper data per Office Depot
Comments on Waste and Recycling	See Appendix 1 "Resource Usage Tracking " data collected from 41% of parks; and Appendix 2 Data Methods and Comments - EC expenses agency totals for Waste combined

FY09 Annual Sustainability Data Report

Agency	FY09 Agency Leased Vehicles Miles Traveled (MP Perm)	FY09 GA Fleet Miles Traveled (MP Daily Trips)	FY09 Agency Owned Vehicle (AOV) Miles Traveled	FY09 Personally Owned Vehicle Miles Traveled (POV)	FY09 total of AOV+POV + MP miles traveled	FY09 Special Use miles traveled	FY09 Number of 4WD exception vehicles purchased
Parks	36561	0	3774912	0	3811473	0	0

Agency	FY09 Gasoline Agency Leased (MP Perm)	FY09 Gasoline GA Fleet (MP Daily Trips)	FY09 Gasoline Agency Owned Vehicles (AOV)	FY09 Gasoline calculated from POV reimbursement (20.5 avg fuel economy)	FY09 E85 (Ethanol) purchased for vehicle use	FY09 Total Gasoline+ethanol for vehicle use	FY09 Petroleum Diesel for vehicle use
Parks	2097.1	0	113935	0		116032.1	43353

Agency	FY09 Gasoline Special Use	FY09 Petroleum Diesel Special Use	FY09 Gasoline Vessels	FY09 Petroleum Diesel Vessels	FY09 Propane for all transportation uses	FY09 Aviation Fuel	FY09 Total Gasoline+ethanol for all uses	FY09 Total Petroleum Diesel for all uses
Parks	0	0	0	0	0	0	116032.1	43353

FY09 Annual Sustainability Data Report

Agency	FY09 Total Square Footage	FY09 Electricity Conventional (kWh)	FY09 Natural Gas (Therms)	FY09 Fuel Oil for energy (Gallons)	FY09 Propane for energy (Gallons)	FY09 Biomass for energy (Btu)	FY09 Onsite renewable energy generated (kWh)	FY09 Energy Offsets purchased (kWh)
Parks	2351364	0	0	0	0	0	0	0

Agency	FY09 Potable Water Usage (CCF)	FY09 Irrigation Water Usage (CCF)	FY09 Non-potable Water Usage (CCF)	FY09 Total Water usage (CCF)
Parks	0	0	0	0

FY09 Annual Sustainability Data Report

	FY09 Virgin office paper (reams)	FY09 30 -40% recycled content office paper (reams)	FY09 100% recycled content office paper (reams)	FY09 Total office paper (reams)	FY09 Recycled Content Janitorial paper products (cases)
Parks	1442	1377	180	2999	0

Agency	FY09 Office Paper recycled (pounds)	FY09 Garbage sent to landfill (pounds)	FY09 Material composted (pounds)	FY09 Other Material recycled (pounds)
Parks	0	0	0	0

State Parks Sustainability Report FY09 Appendix 1

Resource Usage Monthly Tracking														Workplace: STATE PARKS AGENCY TOTALS 7/1/08 - 6/31/09 =	Year: FY09
Energy Use	Jan	Feb	March	April	May	June	July	Aug	Sept	Oct	Nov	Dec	Total	Energy Use	Comments
Electricity Total Use (KWHs)	1,500,924	1,257,895	1,214,262	886,050	672,740	655,912	1,049,664	878,744	857,853	687,121	788,240	841,120	11,290,525	Electricity Total Use (KWHs)	41% of all 120 State Parks (49) tracked data for FY 09. Some provided partial information, however most tracked energy use very well. Fort Worden SP tracked Green Power credits from PSE. All parks in PSE service area receive this \$.001440 Cr. per KWH but no other tracked and reported for FY09.
Green Power Derived (KWHs)	0	0	0	0	0	0	0	0	0	0	0	0	0	Green Power Derived (KWHs)	
Propane (gallons)	11,567	9,436	7,731	5,226	5,903	3,787	3,905	5,895	5,078	6,592	5,179	5,592	75,891	Propane (gallons)	
Heating Oil (gallons)	13,455	8,425	10,441	9,720	0	0	4,484	761	1,899	2,510	5,918	10,746	68,359	Heating Oil (gallons)	
Diesel-Generated (gallons)	0	0	0	107	481	50	0	0	0	0	0	0	638	Diesel-Generated (gallons)	
Natural Gas (therms)	18,879	16,497	815	581	384	144	0	0	0	0	0	0	37,299	Natural Gas (therms)	
Water Use	Jan	Feb	March	April	May	June	July	Aug	Sept	Oct	Nov	Dec	Total	Water Use	
Well-Pumped Water (gallons)	1,351,196	1,867,994	2,542,414	4,969,571	63,190,606	109,469,874	248,048,432	131,155,337	70,688,485	4,413,248	1,150,702	1,320,260	640,168,119	Well-Pumped Water (gallons)	41% of all 120 State Parks (49) tracked data for FY 09. Some provided partial information.
Purchased Domestic Water (gals.)	1,176,880	1,047,033	1,314,699	1,182,159	2,030,211	2,898,883	5,448,172	5,649,439	3,906,805	3,369,424	2,003,540	1,573,361	31,600,606	Purchased Domestic Water (gals.)	
Purchased Irrigation Water (gals.)	0	0	0	849,929	2,577,947	676,644	546,266	264,933	72,042	0	291,823	18,780	5,298,364	Purchased Irrigation Water (gals.)	
Vegetation Management	Jan	Feb	March	April	May	June	July	Aug	Sept	Oct	Nov	Dec	Total	Vegetation Management	
Fertilizer Use (square feet)	0	100	450	55,000	695,100	592,670	16,300	351,300	450,000	12	3	3	2,160,938	Fertilizer Use (square feet)	
Pesticide Use (square feet)	0	121,077	30,000	1,411,579	3,723,466	2,376,627	4,408,812	1,812,260	1,179,027	200	4,354,320	0	19,417,368	Pesticide Use (square feet)	
Waste Materials	Jan	Feb	March	April	May	June	July	Aug	Sept	Oct	Nov	Dec	Total	Waste Materials	
Garbage/Solid Waste (cubic yds)	332	305	376	886	2,028	2,812	4,265	4,148	3,012	1,057	384	351	19,956	Garbage/Solid Waste (cubic yds)	41% of all 120 State Parks (49) tracked data for FY 09. Some provided partial information. Ecology partnership grants provided help to improve recycling in 20 parks.
Recycled Materials (cubic yds)	29	55	33	41	95	105	2,061	110	616	2,467	17	13	5,640	Recycled Materials (cubic yds)	
Organics Composted (cubic yds)	20	14	377	208	126	102	70	77	145	400	296	290	2,123	Organics Composted (cubic yds)	
Hazardous Waste Disposed (gals.)	0	0	0	11	0	0	0	1	106	5	5	0	128	Hazardous Waste Disposed (gals.)	
Septic / Vault Pumping (gallons)	1,000	0	4,900	18,780	14,330	10,483	4,220	4,364	2,300	6,880	0	0	67,257	Septic / Vault Pumping (gallons)	
Sewage Utility (gallons)	558,647	508,455	652,526	426,712	750,556	1,352,840	2,749,645	2,349,056	787,249	261,340	201,650	41,500	10,640,176	Sewage Utility (gallons)	
Vehicles & Equipment	Jan	Feb	March	April	May	June	July	Aug	Sept	Oct	Nov	Dec	Total	Vehicles & Equipment	
Unleaded Fuel Use (gallons)	8,558	7,592	9,227	8,943	9,293	11,258	8,731	7,523	5,947	5,521	4,928	5,496	93,014	Unleaded Fuel Use (gallons)	41% of all 120 State Parks (49) tracked data for FY 09. Some provided partial information. See Appendix 3 Fleet Report for details on vehicle types, number, age and alternative fuel use.
Diesel Fuel Use (gallons)	4,151	2,835	2,962	1,798	2,531	2,233	1,866	2,812	1,674	1,090	934	2,754	27,638	Diesel Fuel Use (gallons)	
Bio-Diesel Fuel Use (gallons)	0	0	0	0	0	0	0	0	0	0	0	0	0	Bio-Diesel Fuel Use (gallons)	
Fueled-Vehicle Travel (miles)	173,730	249,853	825,270	133,596	130,982	152,711	79,491	88,993	81,442	62,990	55,236	57,263	2,091,556	Fueled-Vehicle Travel (miles)	
Electric Vehicle Travel (miles)	151	380	331	748	2,187	2,245	4,862	3,584	2,029	788	313	126	17,744	Electric Vehicle Travel (miles)	
Bicycle Travel (miles)	160	169	226	338	675	777	739	750	517	260	364	113	5,088	Bicycle Travel (miles)	
Miles Traveled per Gallons Fuel	14	24	68	13	11	12	8	9	11	10	10	7	18	Miles Traveled per Gallons Fuel	
Bulk Oil / Lubricant Use (gallons)	124	61	61	97	48	90	23	40	20	69	101	105	838	Bulk Oil / Lubricant Use (gallons)	
Vehicle Repairs / Maintenance (\$)	\$5,132	\$11,572	\$10,895	\$8,340	\$6,960	\$13,372	\$4,521	\$7,595	\$6,302	\$9,555	\$5,567	\$4,050	\$93,861	Vehicle Repairs / Maintenance (\$)	
Equipment Repairs / Maint. (\$)	\$6,573	\$2,922	\$5,280	\$10,007	\$5,154	\$6,949	\$5,189	\$8,104	\$4,503	\$7,370	\$18,691	\$7,138	\$87,880	Equipment Repairs / Maint. (\$)	
Other Usage & Costs Incurred	Jan	Feb	March	April	May	June	July	Aug	Sept	Oct	Nov	Dec	Total	Other Usage & Costs Incurred	
Total Visitor Attendance (people)	467,684	511,161	599,606	653,398	1,327,337	1,363,160	1,705,008	1,534,835	1,017,758	654,347	326,240	291,564	10,452,097	Total Visitor Attendance (people)	
Total Volunteer Hours Tracked	11,461	10,408	7,737	6,439	8,321	12,659	12,303	10,728	12,270	10,352	3,746	3,382	109,804	Total Volunteer Hours Tracked	
Vandalism Repair Costs (\$)	\$337	\$256	\$244	\$6,525	\$0	\$486	\$291	\$405	\$850	\$500	\$5	\$0	\$9,899	Vandalism Repair Costs (\$)	Illegal dumps reported here is low; Litter grants from Ecology provided over \$28,000 used for pet waste, dump-site clean up, volunteer litter pick-up, signs, litter bags, and surveillance cameras.
Illegal Dump Cleanup Costs (\$)	\$38	\$124	\$50	\$25	\$24	\$14	\$25	\$27	\$0	\$25	\$0	\$0	\$352	Illegal Dump Cleanup Costs (\$)	

Appendix 2 - FY 09 Report

State Parks Methods and Comments Sustainability

Miles and Fuel

Comdata: FY 09 Fuel Report (300 pages)

	Gallons	Estimated Milles
Reg Gas	78,699	
Ethanol	268	
Biodiesel	81	
Sub total	79,048	
Diesel	13,003	
total gallon	92,051	2,209,224

Estimated miles used average of 24 mpg

DOT Fuel Cards

TYPE OF FUEL	Gallons	Estimated Milles
Reg Fuel	13,175	
Diesel	22,038	
total gallon	35,213	845,112

Bulk Fuel Contact GA Report

TYPE OF FUEL	Gallons	Estimated Milles
Diesel	8,312	199,488
Gasoline	21,712	521,088
	30,024	720,576

Grand Total Fuel & Mileage State Parks Fleet

All Sources	DOT	GA	Comdata	Totals for Parks Fleet
Diesel	22,038	8,312	13,003	43,353
Reg Fuel	13,175	21,712	79,048	113,935
Total Gallon Fuel	35,213	30,024	92,051	157,288
GRAND TOTAL MILES	845,112	720,576	2,209,224	3,774,912

Seven Leased Vehicles from GA Motor Pool

	Gallons	Milles Reported
Total Gallons reported	2097.1	
Total Miles reported		36,561

EC Utilities - FY09

Provided by Parks Budget Section From AFRS and Payable Records; Data not posted on Report Template since volume and quantities are not available					
Fiscal Year 2009	Electricity	Gas	Garbage	Water	Grand Total
EA	\$485,994	\$84,858	\$188,999	\$106,886	\$866,738
FW	\$212,840	\$227,724	\$34,204	\$87,519	\$562,286
NW	\$339,112	\$135,860	\$196,359	\$137,971	\$809,303
PS	\$390,411	\$69,436	\$91,789	\$79,572	\$631,207
SW	\$323,470	\$48,053	\$118,821	\$229,081	\$719,425
Grand Total	\$1,751,827	\$565,931	\$630,172	\$641,028	\$3,588,959

PAPER - Totals from Home Depot FY 09 - Posted to Report

Total Reams of paper by type	FY 09 Office Depot	FY 08	FY 07	FY 06
100% Recycled	180	579		
30% PC total	1,240			
20% PC total	53			
30% PC total	84	3,260	4,904	4,476
sub total	1,557	3,839	4,904	4,476
Total virgin	1,442	190	297	214
Total Reams FY 09	2,999	4,029	5,201	4,690
Use of Virgin paper up FY09 and total paper use decreased 25% since FY08				

Washington State Parks

Fiscal Year 2009

Sustainable Practices Success Stories



Recycling



Twenty parks added or upgraded recycling in FY 09 Including:
Lake Chelan – Riverside - Goldendale – Columbia Trail – Fort Worden



These models of recycling containers have been placed in a number of other parks in the past Biennium

Composting



Fort Worden increased composting program

Headquarters started a new composting program in 2009

Litter & Illegal Dumps



Surveillance and enforcement with better cameras



Volunteers help with litter

Dump site cleaned up

Pet Waste Disposal



Fleet

Of 700 Cars & Trucks in Parks' Fleet
Over 70 use alternative fuels

25 All Electric Gems & Miles in several parks



Energy Efficiency

Over past two Biennia Puget Sound Energy has provided Lighting Audits in 30 parks. Six of these parks upgraded to efficient lighting and received rebates for over 95% of costs.

- Replaced 40 exit signs with LED lights at Saint Edward
- Updated lighting audit at Millersylvania
- Worked to reduce night sky light pollution at Goldendale Observatory



Buildings



Agency Headquarters LEED Gold Certified



Restored historic Cama Beach fishing resort features many sustainable building practices



Sustainable alternative wood products used when appropriate

Rehabilitation of historic Cle Elum train depot used sustainable practices



Green Roof used for Fort Casey comfort station

Water Conservation and Wastewater



- New Irrigation Systems conserves water
- Daroga reduced water use 50% by repairing leaking water lines
- Native plants reseeded at new construction sites
- Water quality important to experience for park guests
- Low flow toilets installed in headquarters and several parks



State Parks Centennial 2013 Vision

Links to Sustainability Plan

- Vision Statement - "In 2013, Washington's state parks will be premier destinations of uncommon quality, including state and regionally significant natural, cultural, historical and recreational resources that are outstanding for the experience, health, enjoyment and learning of all people."



Sustainability Plans - Ten Year Goals

1. Energy Conservation
2. Renewable Energy Sources
3. Transportation Efficiency
4. Water Use
5. Waste Management
6. Sustainable Environments
7. Measuring and Monitoring
8. Communication, Education, and Interpretation
9. Preferred Products
10. Toxics
11. Building Practices and Materials
12. Carbon Footprint
13. Partnerships



Develop LEED-like standards for buildings under 5,000 square feet

Sustainability Approach to Agency Management

Heightens protection of park resources in perpetuity

Helps agency comply with environmental laws

Improves business practices and saves money

Opportunity to interpret green technology & practices to the public



State Parks 13 Sustainability Goals To Achieve by 2020

1. Energy Conservation: reduce net consumption of electric energy and non-renewable heating fuels to 1990



2. Switch to Renewable Energy Sources: purchase and/or produce 30% of its electrical energy needs from renewable sources (goal is twice the rate required of electric utilities by Initiative 937 in 2006).



3. Transportation Efficiency: achieve a corporate average vehicle fuel economy of 36 miles per gallon; reduce commute trip mileage by 50% from a 2009 baseline; and increase the fleet share of hybrids and plug-in electric vehicles to 25%.





4. Reduce Water Use: apply water collection, conservation, and recycling technology at 50 parks and therefore reduce potable water use by 50% in those parks.



5. Waste Management: divert 80% of current waste from landfills by achieving 100% recycling of metals, plastics, paper products, and glass and by composting at least 50% of organic wastes.



6. Sustainable Environments: reduce water consumption by incorporating **xeriscaping** design principles and use of native plants in the development and redevelopment of recreational landscapes in parks; maintain park lawns with highly restricted application of herbicides, pesticides and fertilizers; and use an IPM (integrated pest management) approach to managing noxious/invasive weeds in all parks and ensure replacement of invasive species with suitable native plants.



7. Measuring and Monitoring: consistently track recycling; waste disposal, and consumption of electricity, water, and vehicle fuel in all parks and administrative facilities; incentivize and recognize sustainability-related performance of parks and staff through a “green parks” accreditation program and a “green staff” certification program.



8. Communication, Education, Interpretation: provide sustainability-related interpretation to the public at all staffed parks; provide the public current sustainability information on the agency's website and through other public information campaigns; and include sustainability training at ranger in-service trainings and the Stewardship Certification Program.



9. Environmentally Preferred Products: purchase only one hundred percent recycled copy and printing paper; apply only paints with low amounts of volatile organic compounds; and adopt an EPP policy for cleaning, painting, and other maintenance-related chemical products.



10. Reduce Toxics Entering the Environment: adopt a policy on use of toxic substances in parks and agency facilities; provide appropriate training to all staff who handle toxic substances; and use an IPM (integrated pest management) approach to managing noxious/invasive weeds in all parks.



11. Sustainable Building Practices and Materials: adopt low impact design guidelines for development of new recreational landscapes; adopt sustainable design standards for buildings of less than 5,000 square feet; and adopt guidelines for use of recycled materials in park construction projects.

Take advantage of embodied energy in historic structures (adaptive reuse)



12. Reducing Our Carbon Footprint: reduce its carbon foot print 15% from a 2005 baseline; work with its partner organizations to provide a mechanism for visitors to off-set the carbon footprint of their visit; and explore and if feasible, participate in carbon credit programs and third party forest practices certification efforts such as the Forest Stewardship Council standards.



13. Partnerships: attain a leadership role on the Governor's Statewide Interagency Sustainability Committee; demonstrate a leadership role in conserving and protecting the natural and cultural heritage of Washington State; and expand and formalize partnerships with public institutions, conservation-oriented non-profit organizations, and the private sector to advance the agency's sustainability goals.





At State Parks one of our core values is a commitment to stewardship that transmits high quality park assets to future generations. The Sustainability Plan's 13 goals for 2020 promote this ethic.

