

Lewiston Powerplant Central Valley Project

Ancillary Services

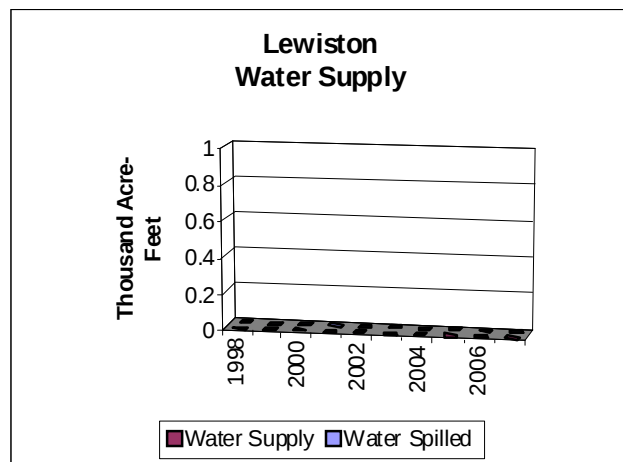
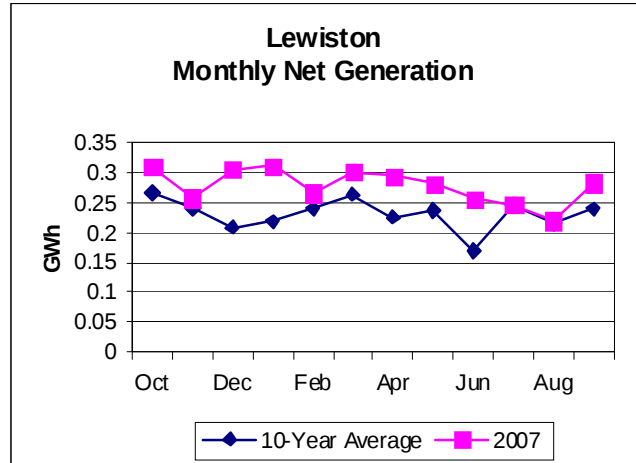
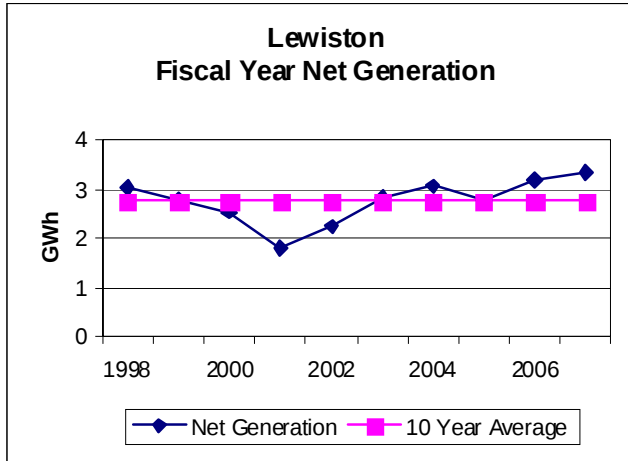
Lewiston Ancillary Services	
Spinning Reserve	No
Non-Spinning Reserve	No
Replacement Reserve	No
Regulation/Load Following	No
Black Start	Yes
Voltage Support	No

Generators

Lewiston Generators			
Existing Number and Capacity			
Unit #	Original Capacity (kW)	Capacity Increased (kW)	Present Capacity (kW)
1	350	-	350
1 Unit	350	-	350

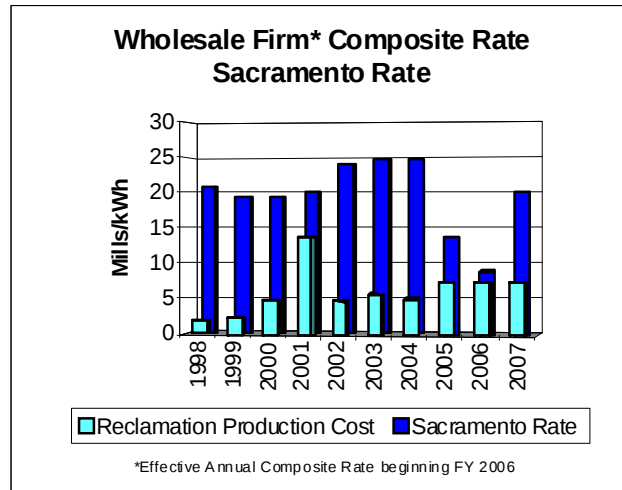
The maximum operational capacity is 504 kW.

Generation

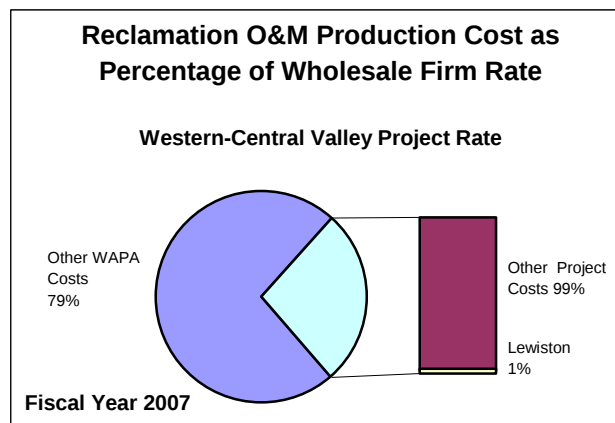


Prime Laboratory Benchmarks

Benchmark 1 Wholesale Firm Rate

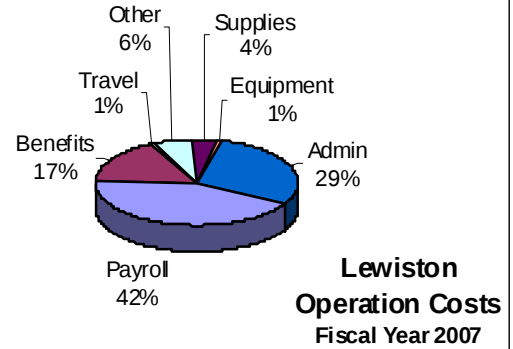
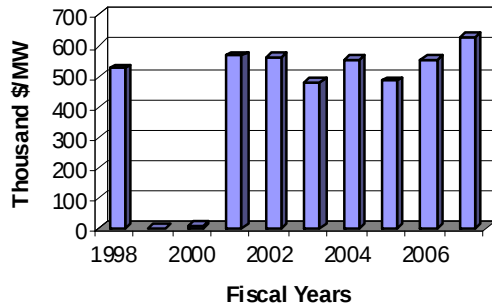


Benchmark 2 Reclamation's Production Cost as Percentage of Wholesale Firm Rate

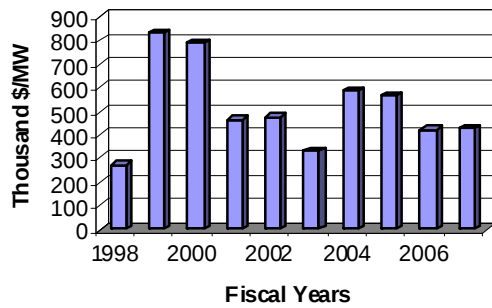


**Benchmark 3
Production Cost**

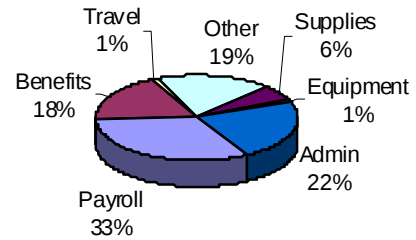
**Lewiston
Operation Costs**



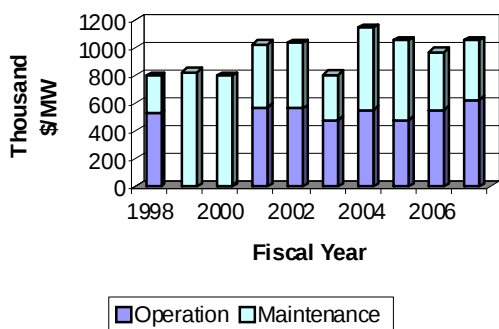
**Lewiston
Maintenance Costs**



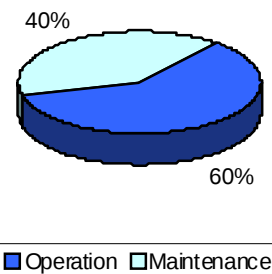
**Lewiston
Maintenance Costs
Fiscal Year 2007**



**Lewiston
Operation and Maintenance Costs**

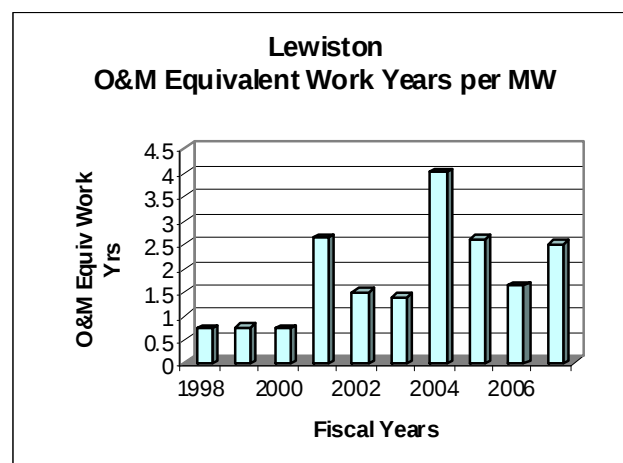
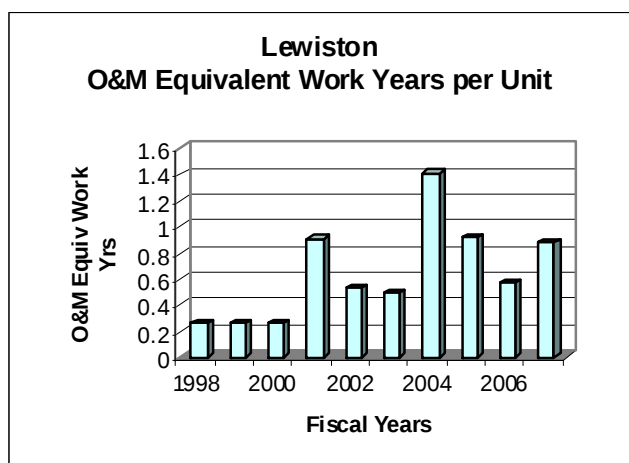
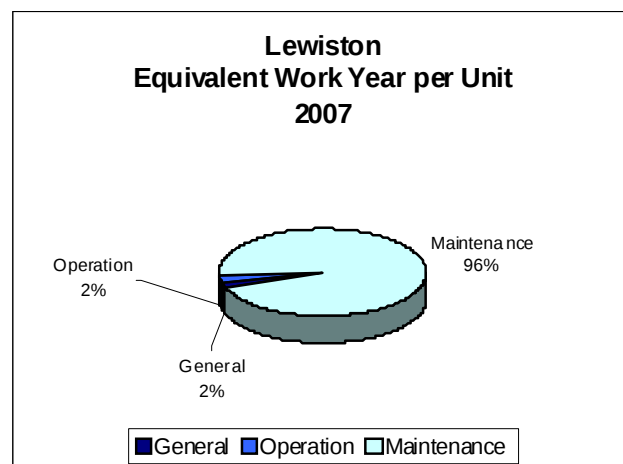
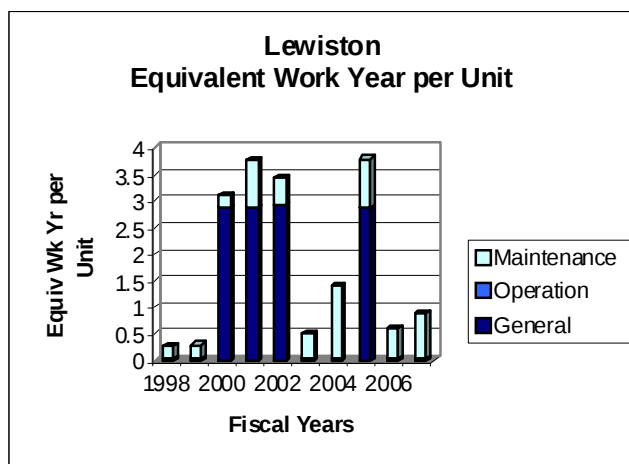


**Lewiston
Operation and Maintenance Costs
Fiscal Year 2007**

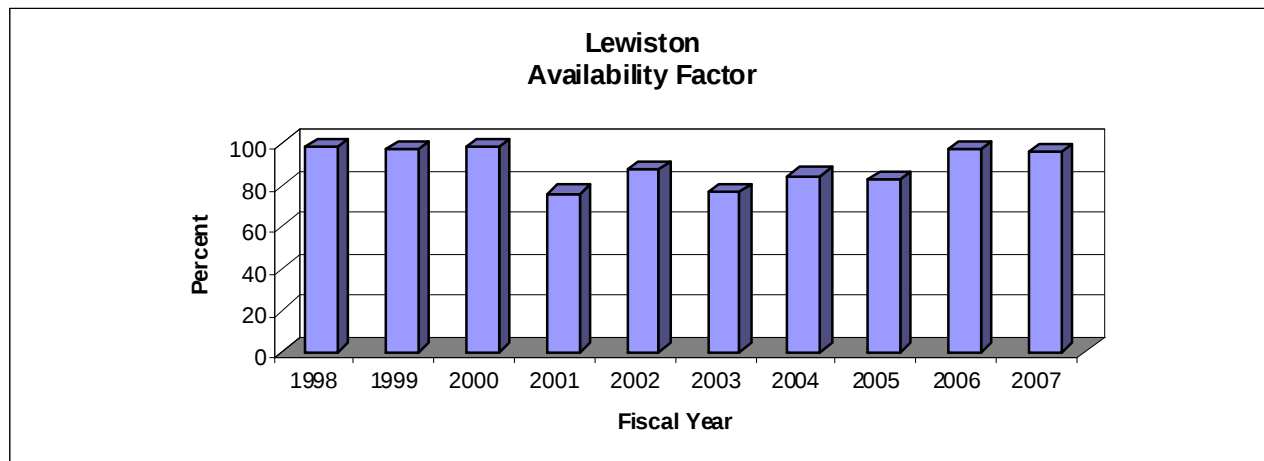


**Benchmark 4
Workforce Deployment**

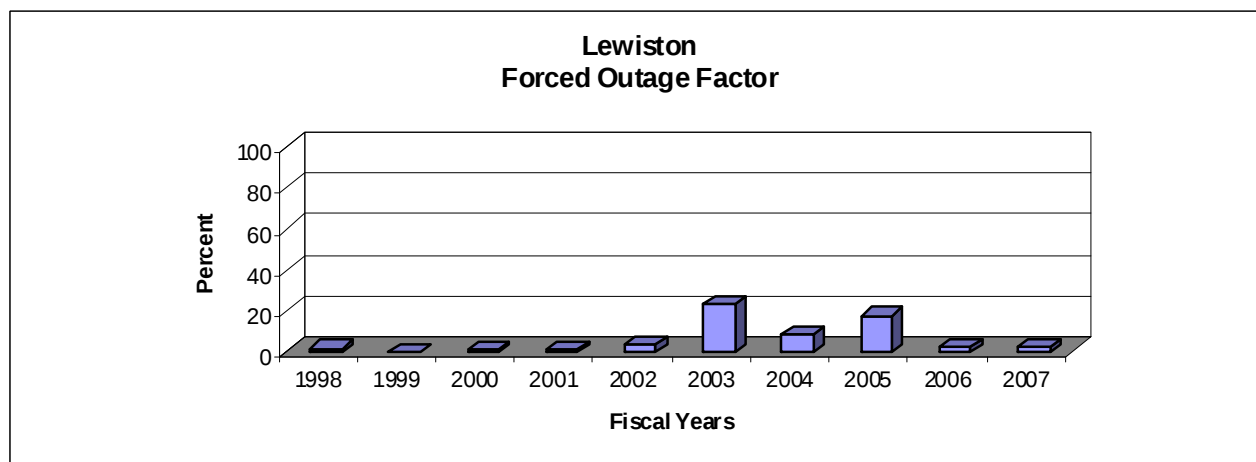
Lewiston FY 2007 Equivalent Work Staffing Year Levels						
	Equivalent Work Year Staffing Charged to Powerplant	Leave Additive	Denver and Washington Equivalent Work Year Staffing Additive	Total Equivalent Work Year Allocated to Powerplant	Total Equivalent Staffing Work Year per Generating Unit	Total Equivalent Work Year Staffing per Megawatt
General	0.00	0.00	0.02	0.02	0.02	0.05
Operation	0.02	0.00	0.00	0.02	0.02	0.06
Maintenance	0.78	0.08	0.00	0.86	0.86	2.46
Total Staffing	0.80	0.08	0.02	0.90	0.90	2.57



**Benchmark 5
Availability Factor**

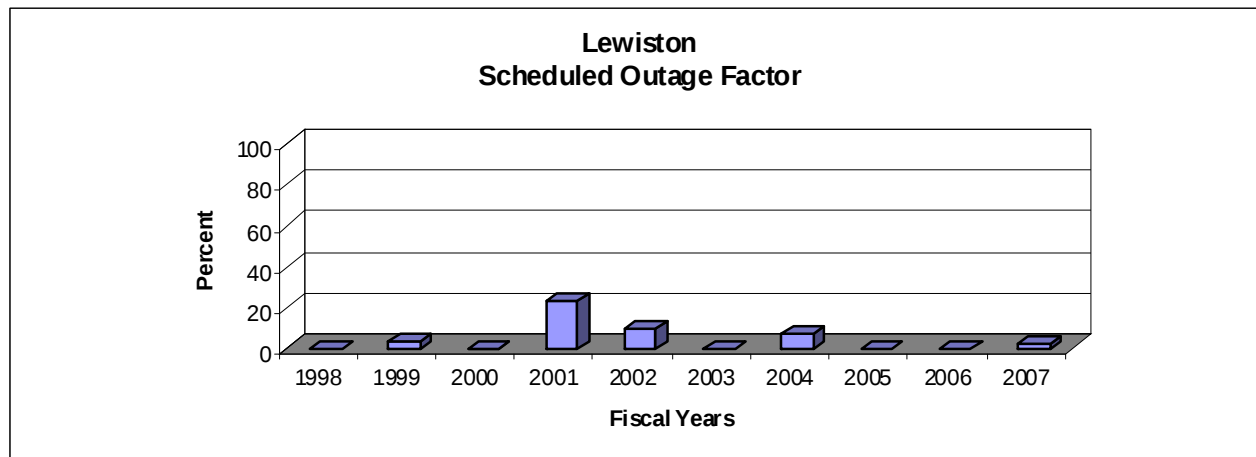


**Benchmark 6
Forced Outage Factor**

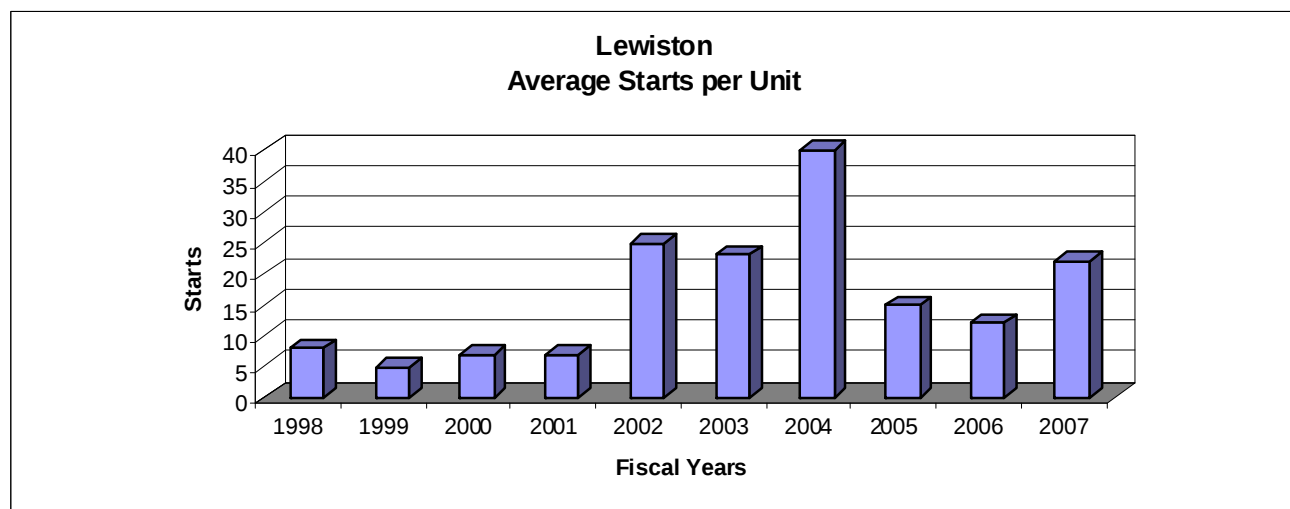


FY 03 – Several forced outages were the result of severe weather (lightning storms) and problems in the Trinity County Public Utility District distribution system. The remoteness of the site and the age of the equipment also contributed to the length of these outages.

**Benchmark 7
Scheduled Outage Factor**



Starts



Benchmark Data Comparison				
Fiscal Year 2007	Lewiston Powerplant	Total Reclamation Average	Industry Average	Best Performers
Wholesale Firm Rate Mills/kWh	13.7	*22.45	Not Available	Not Available
Production Cost as Percentage of Wholesale Firm Rate	0.4%	12.1%	Not Applicable	Not Applicable
O&M Cost \$/MWh	110.58	2.76	Not Applicable	1.00
O&M Costs \$/MW	1,053,668	7,847	Not Applicable	2,897
O&M Equip Work Year per MW	0.00	0.03	Not Available	0.00
Availability Factor	95.8	82.3	**88.64	98.5
Forced Outage Factor	1.82	2.6	**2.61	0.0
Scheduled Outage Factor	2.3	15.1	**8.74	0.0

*Weighted by Net Generation

**2006 NERC Average

***Energy Information Administration Data

At 350 kW, Lewiston is the smallest powerplant in Reclamation. As a result, the cost indicators are out of line compared to 40 MW units and larger.