

Pilot Butte Powerplant Pick-Sloan Missouri Basin Program

Ancillary Services

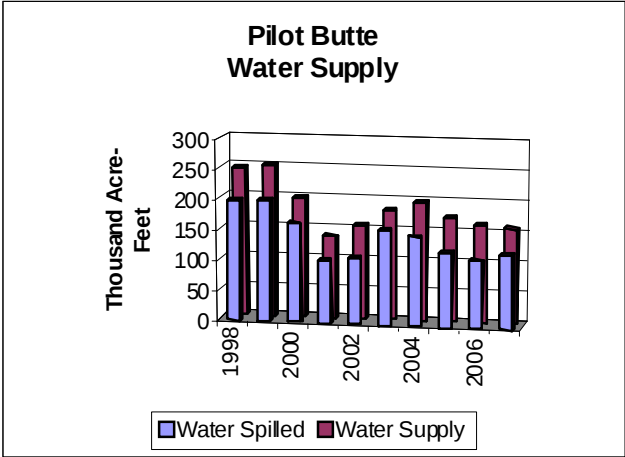
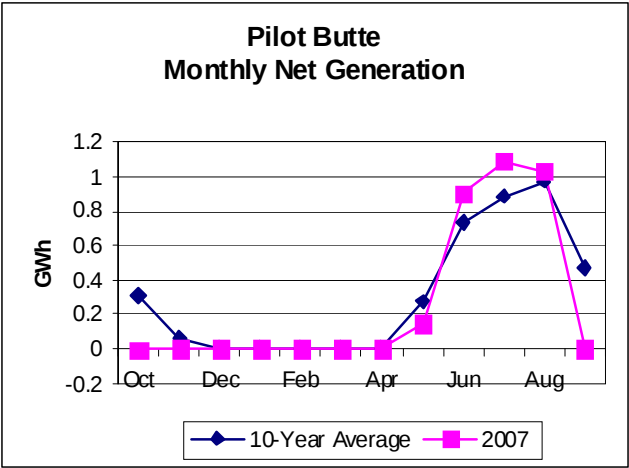
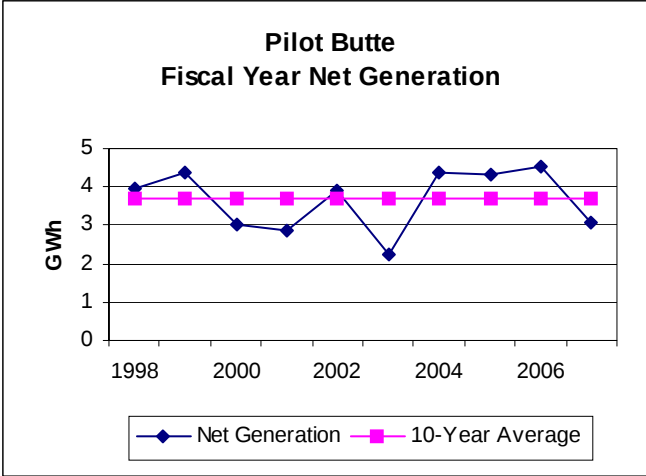
Pilot Butte Ancillary Services	
Spinning Reserve	No
Non-Spinning Reserve	No
Replacement Reserve	No
Regulation/Load Following	No
Black Start	No
Voltage Support	No

Generators

Pilot Butte Generators			
Existing Number and Capacity			
Unit #	Original Capacity (kW)	Capacity Increased (kW)	Present Capacity (kW)
1	800	-	800
2	800	-	800
2 units	1,600	-	1,600

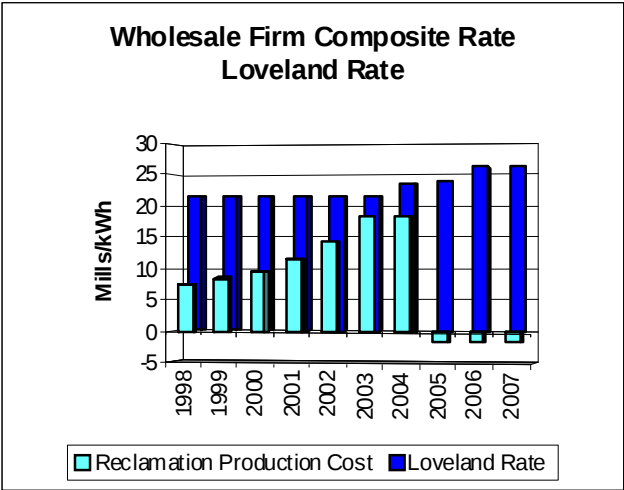
Pilot Butte Powerplant
Seasonal

Generation

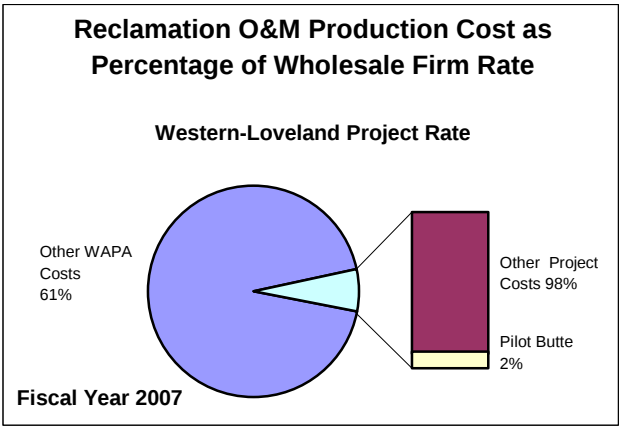


Prime Laboratory Benchmarks

Benchmark 1
Wholesale Firm Rate



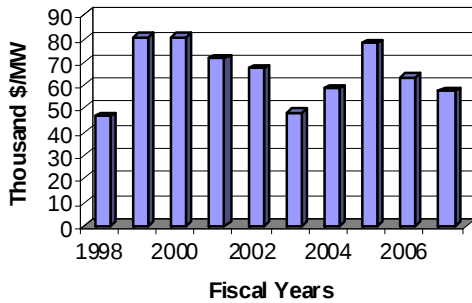
Benchmark 2
Reclamation's Production Costs as Percentage of Wholesale Firm Rate



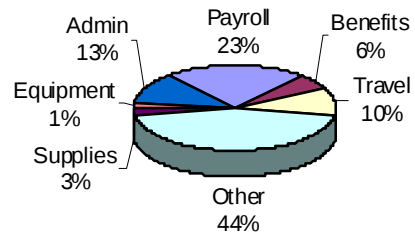
**Pilot Butte Powerplant
Seasonal**

**Benchmark 3
Production Cost**

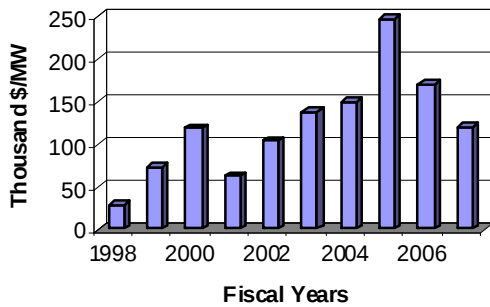
**Pilot Butte
Operation Costs**



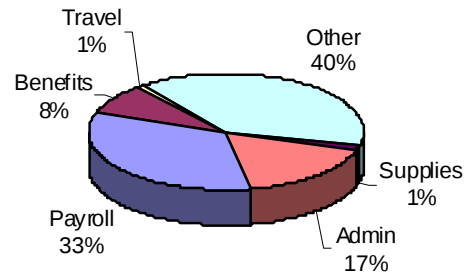
**Pilot Butte
Operation Costs
Fiscal Year 2007**



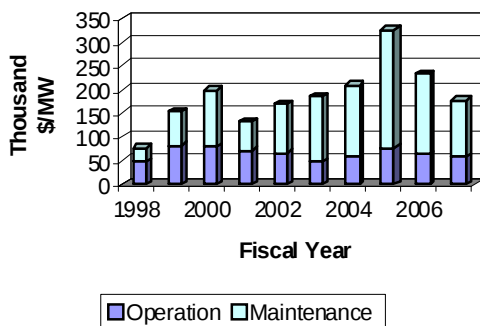
**Pilot Butte
Maintenance Costs**



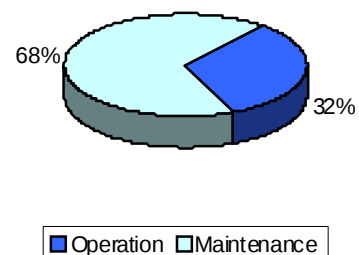
**Pilot Butte
Maintenance Costs
Fiscal Year 2007**



**Pilot Butte
Operation and Maintenance Costs**



**Pilot Butte
Operation and Maintenance Costs
Fiscal Year 2007**

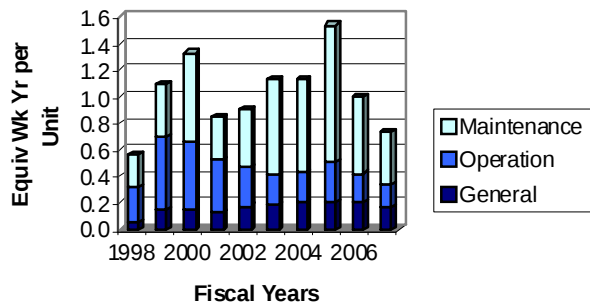


FY2003- Includes costs for significant repair of the stator winding for Unit 2.

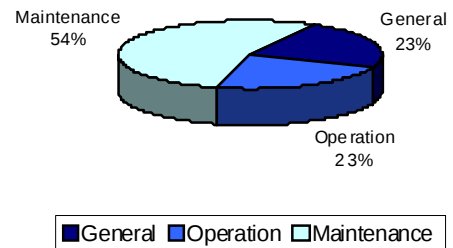
**Benchmark 4
Workforce Deployment**

Pilot Butte 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	0.27	0.03	0.04	0.34	0.17	0.21
Operation	0.30	0.03	0.00	0.34	0.17	0.21
Maintenance	0.72	0.08	0.00	0.80	0.40	0.50
Total Staffing	1.29	0.15	0.04	1.47	0.74	0.92

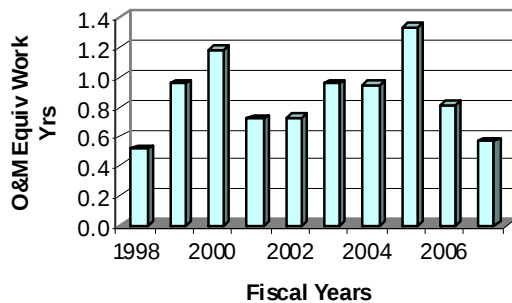
**Pilot Butte
Equivalent Work Year per Unit**



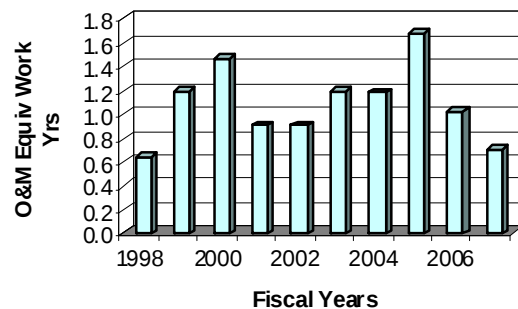
**Pilot Butte
Equivalent Work Year per Unit
2007**



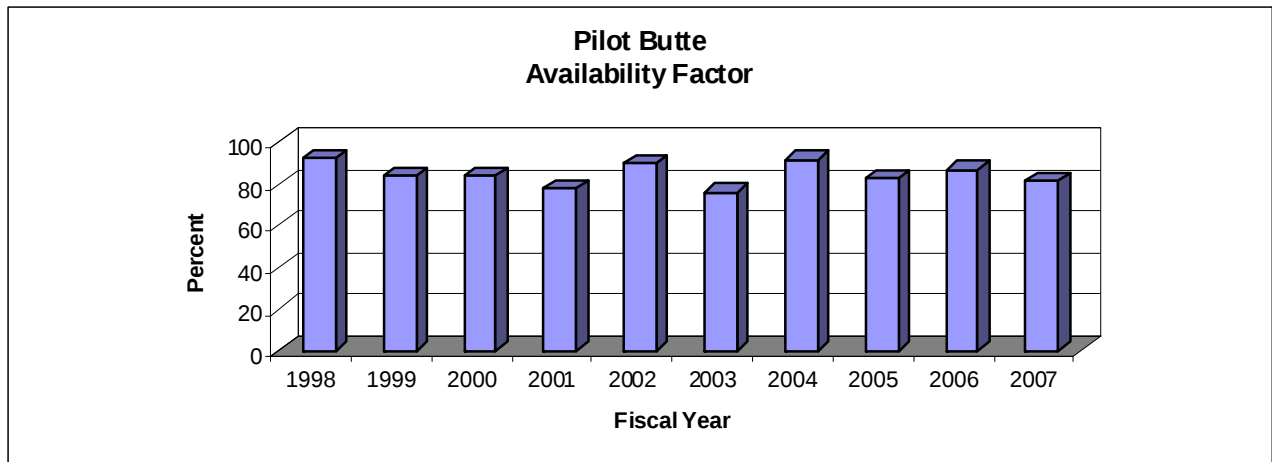
**Pilot Butte
O&M Equivalent Work Years per Unit**



**Pilot Butte
O&M Equivalent Work Years per MW**

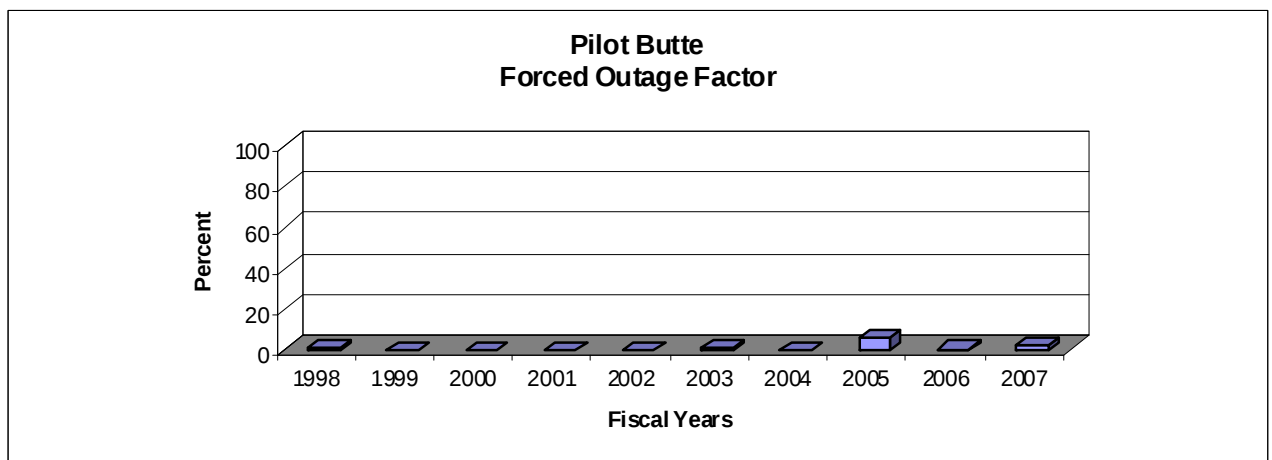


**Benchmark 5
Plant Availability Factor**

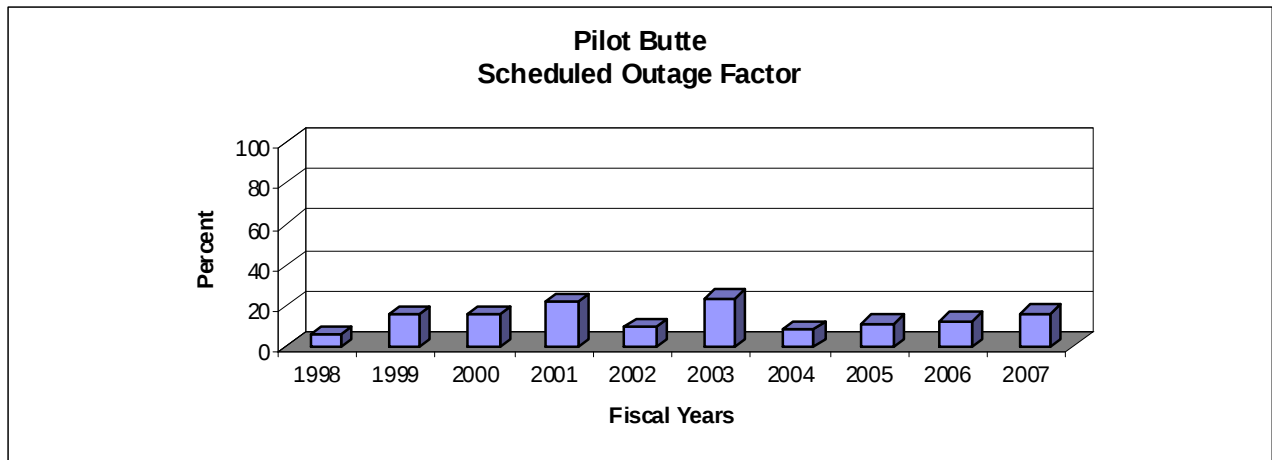


FY-2003 – Extended outage for significant repair of the stator winding for Unit 2.

**Benchmark 6
Plant Forced Outage Factor**

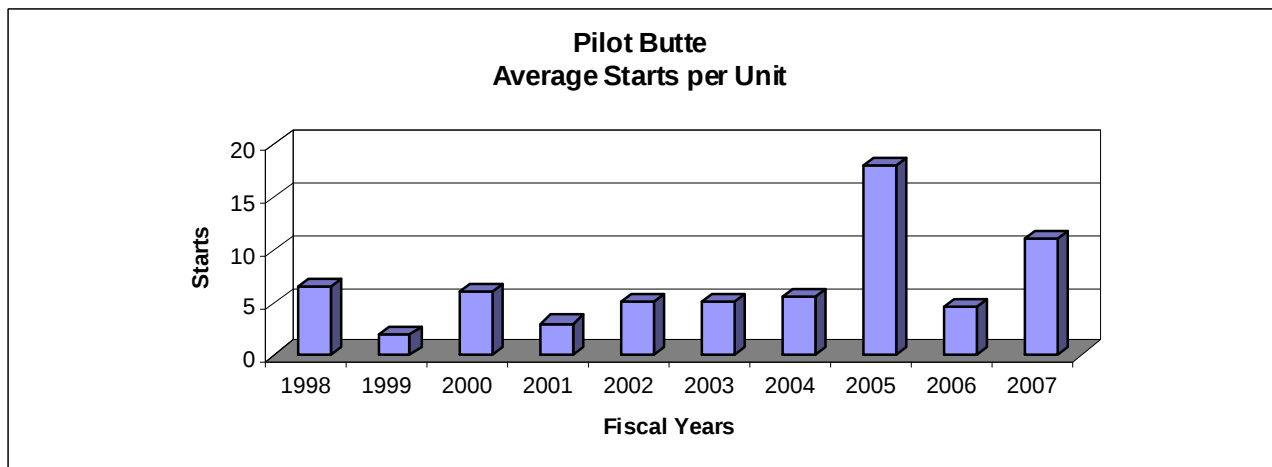


**Benchmark 7
Plant Scheduled Outage Factor**



FY-2003 - Extended outage for significant repair of the stator winding for Unit 2.

Unit Starts



Benchmark Data Comparison				
Fiscal Year 2007	Pilot Butte Powerplant	Total Reclamation Average	Industry Average	Best Performers
Wholesale Firm Rate Mills/kWh	23.9	*22.45	Not Available	Not Available
Production Cost as Percentage of Wholesale Firm Rate	0.6%	12.1%	Not Applicable	Not Applicable
O&M Cost \$/MWh	92.06	2.76	Not Applicable	1.00
O&M Costs \$/MW	176,449	7,847	Not Applicable	2,897
O&M Equiv Work Year per MW	0.71	0.03	Not Available	0.0
Availability Factor	81.2	82.3	**88.64	98.5
Forced Outage Factor	2.55	2.6	**2.61	0.0
Scheduled Outage Factor	16.3	15.1	**8.74	0.0

*Weighted by Net Generation

**2006 NERC Average