

**Ancillary Services**

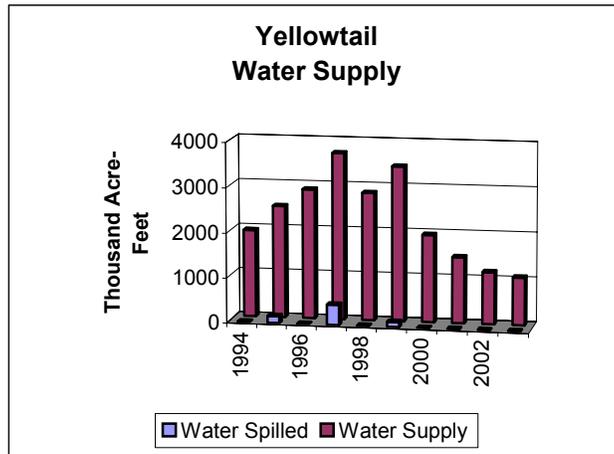
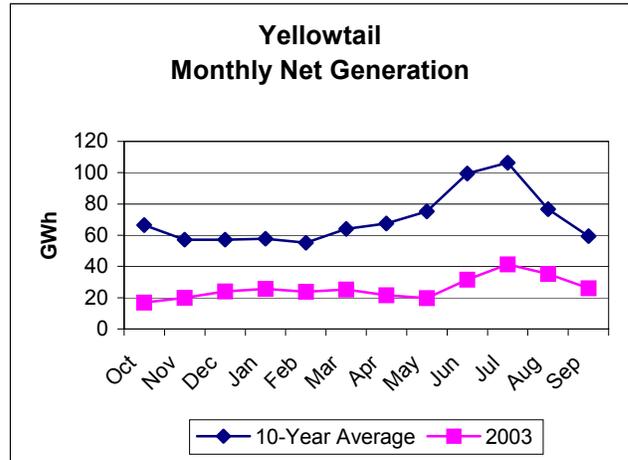
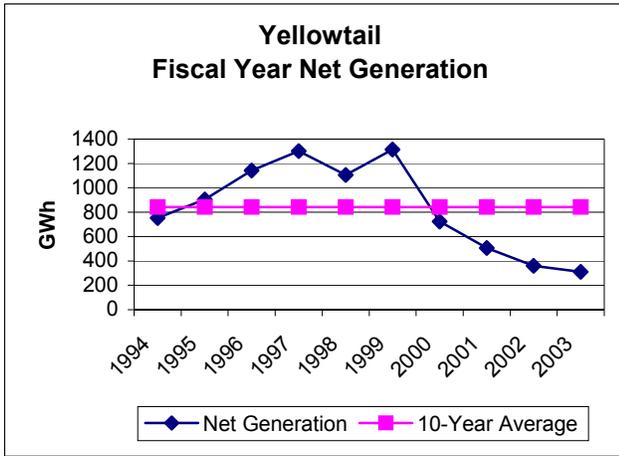
<b>Yellowtail Ancillary Services</b>	
Spinning Reserve	Yes
Non-Spinning Reserve	Yes
Replacement Reserve	Yes
Regulation/Load Following	Yes
Black Start	Yes
Voltage Support	Yes

**Generators**

<b>Yellowtail Generators</b> Existing Number and Capacity			
Unit #	Original Capacity (kW)	Capacity Increased (kW)	Present Capacity (kW)
1	62,500	0	62,500
2	62,500	0	62,500
3	62,500	0	62,500
4	62,500	0	62,500
4 Units	250,000	0	250,000

**Yellowtail Powerplant  
100-500 MW**

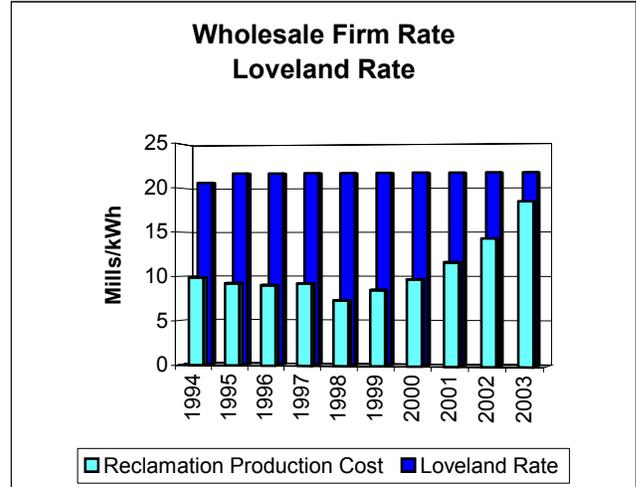
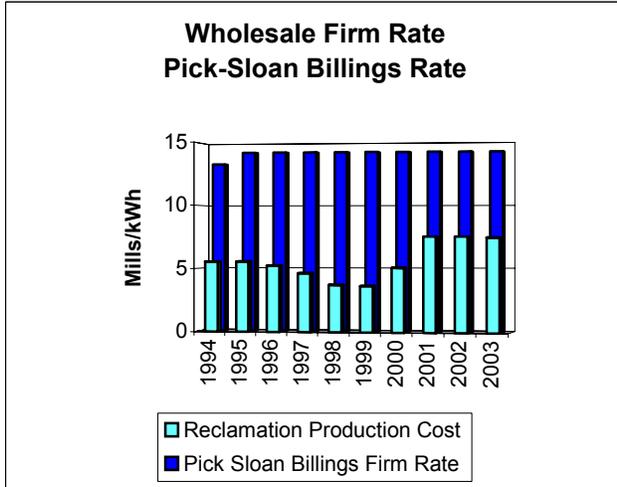
**Generation**



Drought conditions encountered for the fourth consecutive year.

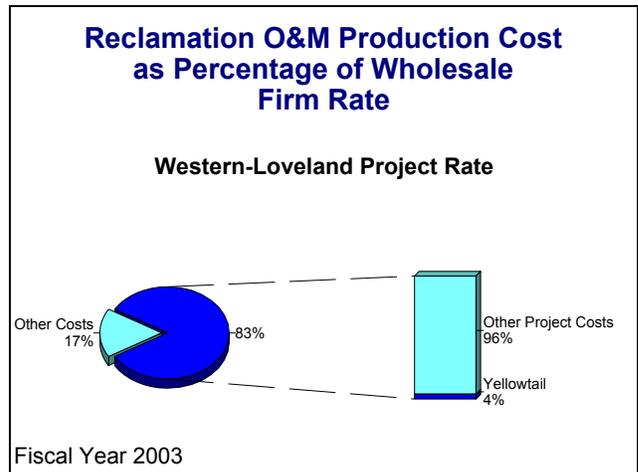
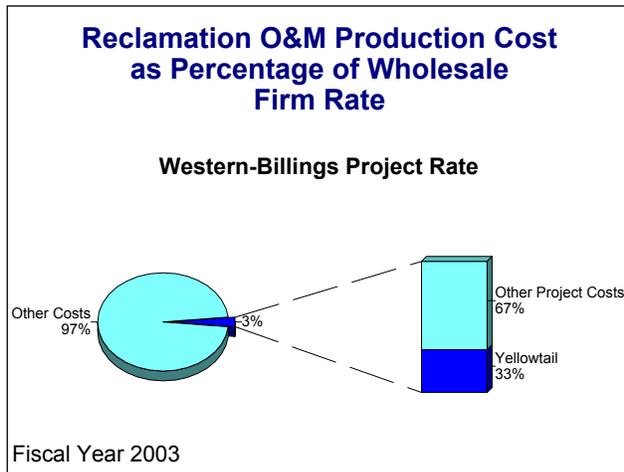
**Prime Laboratory Benchmarks**

**Benchmark 1  
Wholesale Firm Rate**



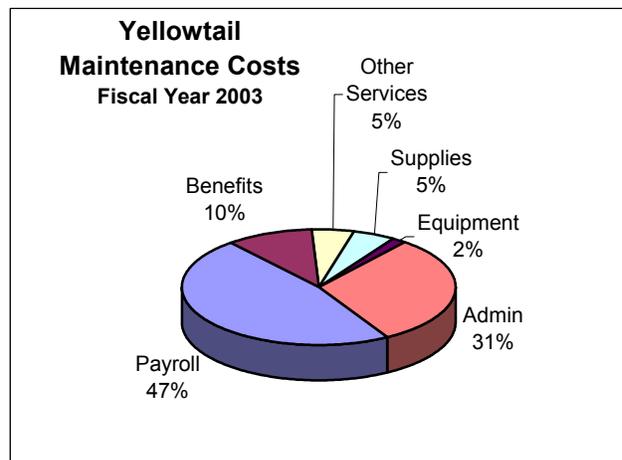
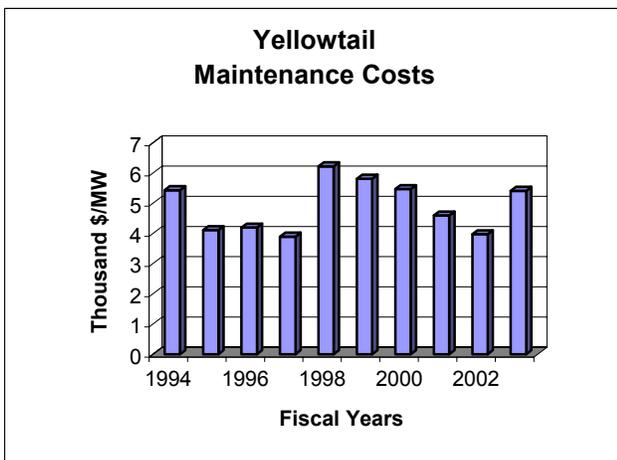
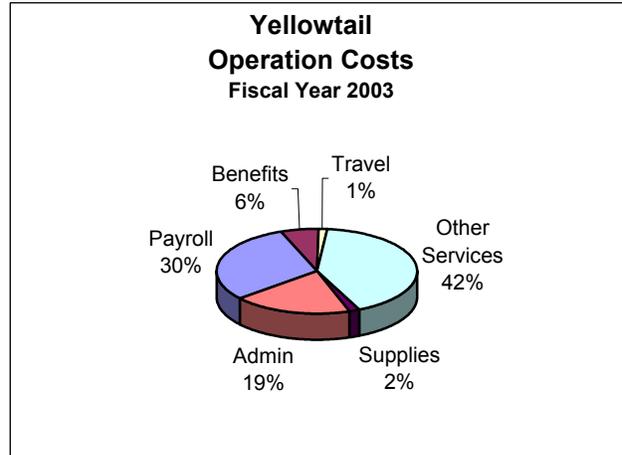
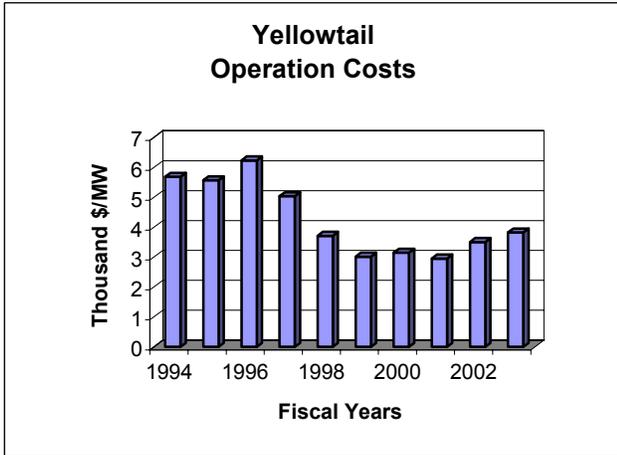
Yellowtail Units 1 and 2 are part of the Pick-Sloan Billings Rate and Yellowtail Units 3 and 4 are part of the Pick-Sloan Loveland Rate.

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



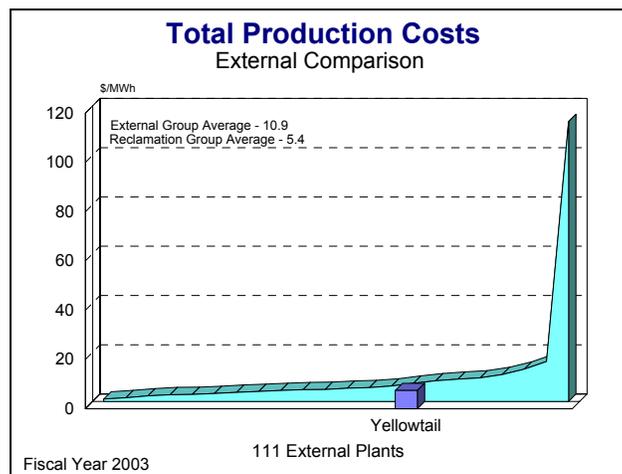
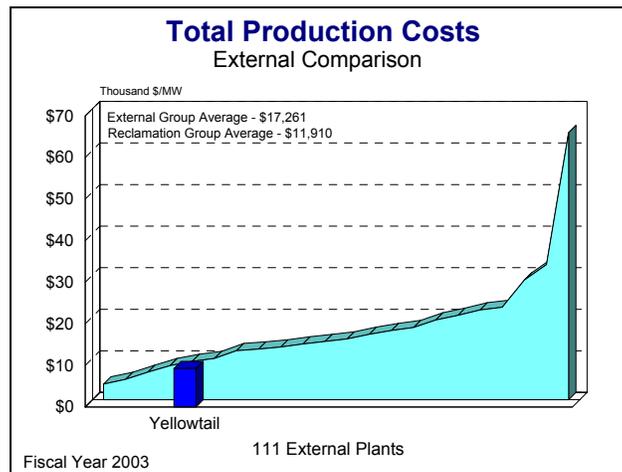
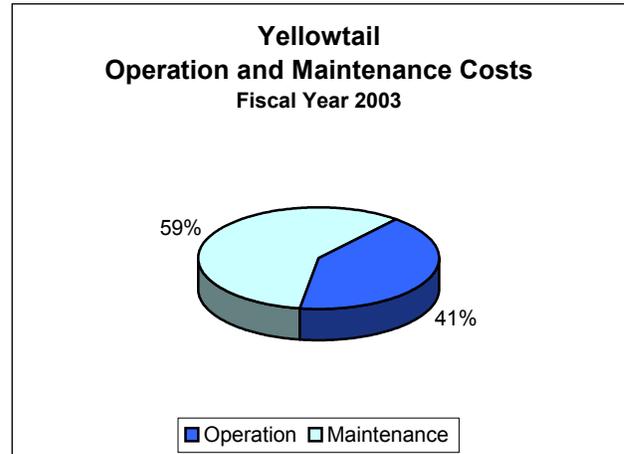
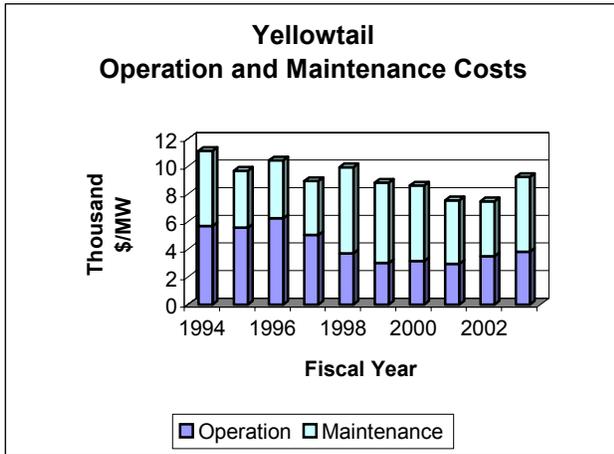
Yellowtail Units 1 and 2 are part of the Pick-Sloan Billings Rate and Yellowtail Units 3 and 4 are part of the Pick-Sloan Loveland Rate.

**Benchmark 3  
Production Cost**



Yellowtail's FY-2002 maintenance costs include extraordinary maintenance costs for power penstocks refurbishment design and specification.

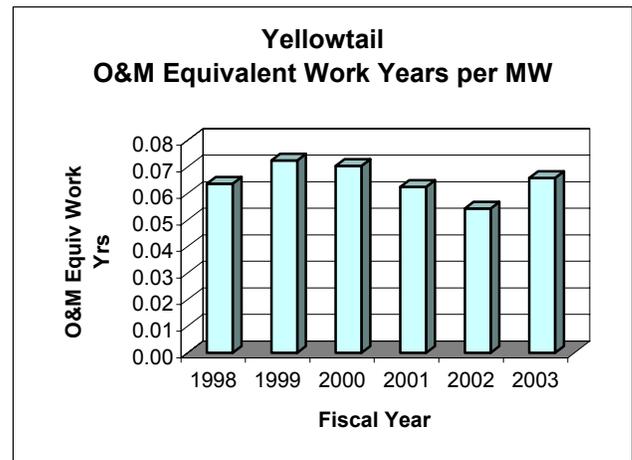
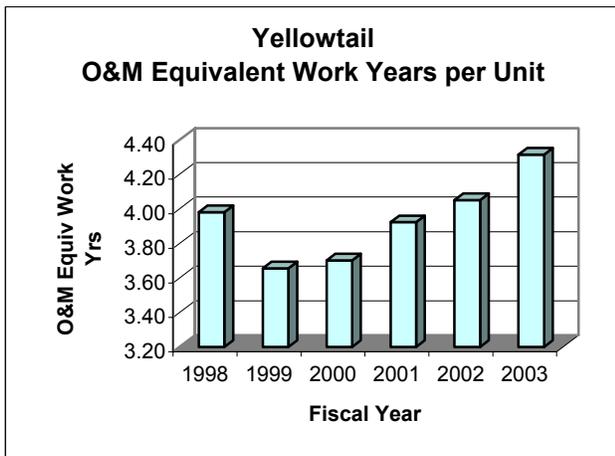
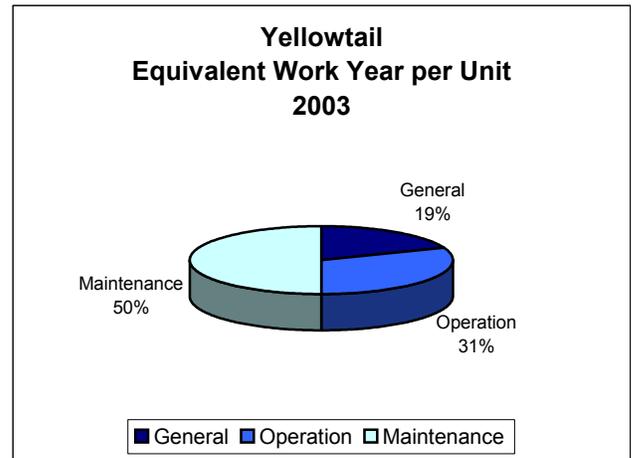
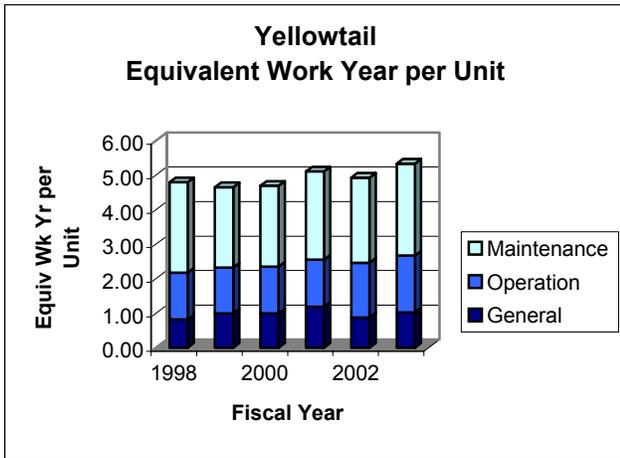
**Benchmark 3  
Production Cost**



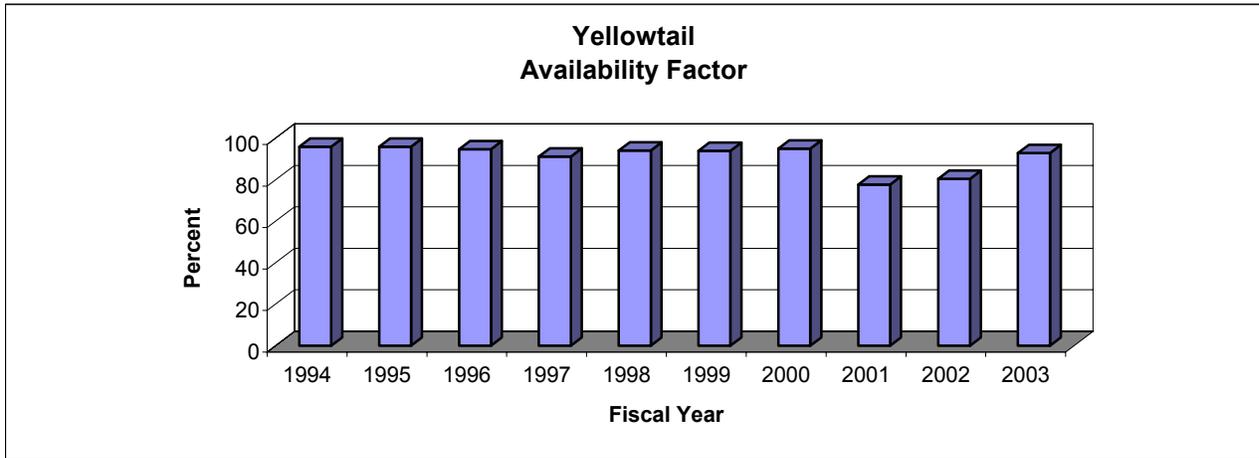
**Benchmark 4  
Workforce Deployment**

**Yellowtail  
FY-2003 Equivalent  
Work Year Staffing Levels**

	Equiv Work Year Charged to Powerplant	Leave Additive	Denver and Washington Equiv Work Year Additive	Total Equiv Work Year Allocated to Powerplant	Total Equiv Work year per Generating Unit	Total Equiv Work Year per Megawatt
General	3.62	0.39	0.09	4.09	1.02	0.02
Operation	5.94	0.64	0.00	6.58	1.64	0.03
Maintenance	8.90	0.96	0.00	9.86	2.67	0.04
Total Staffing	18.46	1.98	0.09	20.53	5.34	0.08

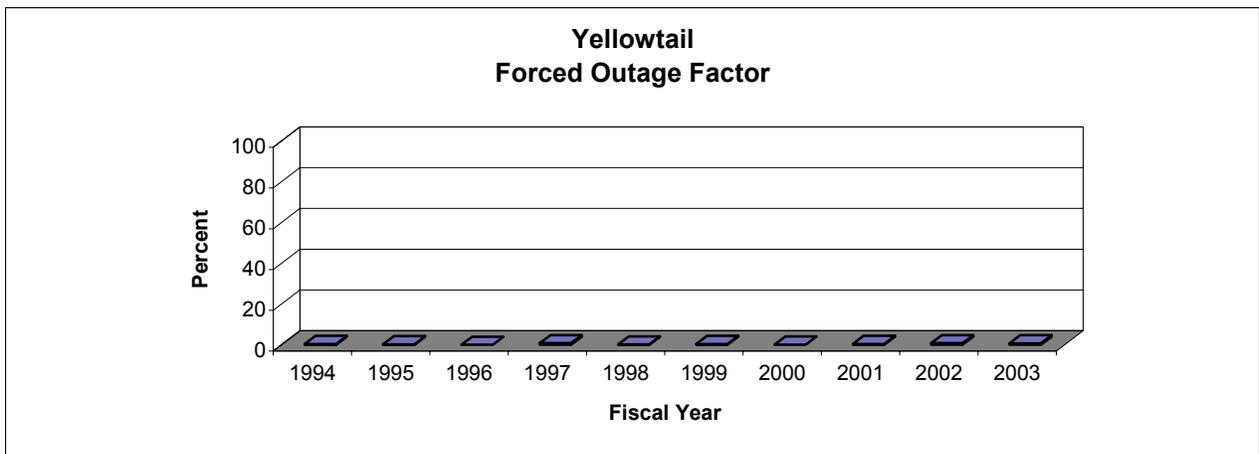


**Benchmark 5  
Availability Factor**

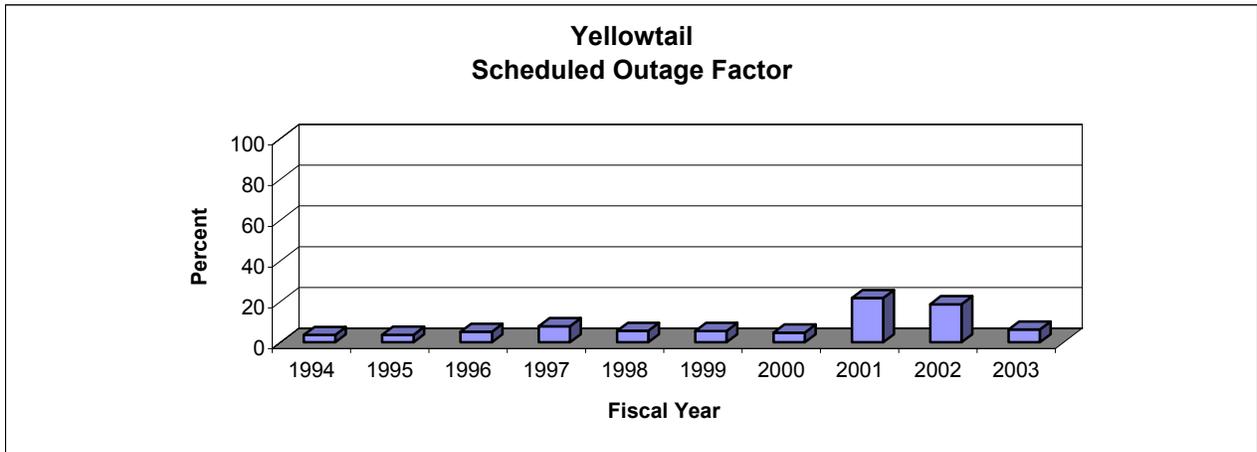


FY-01 and FY-02 – Extended outages occurred for replacing of the turbine runners on Units 3 and 4, and for replacing the governors and excitation systems on Units 1, 2, 3, and 4.

**Benchmark 6  
Forced Outage Factor**

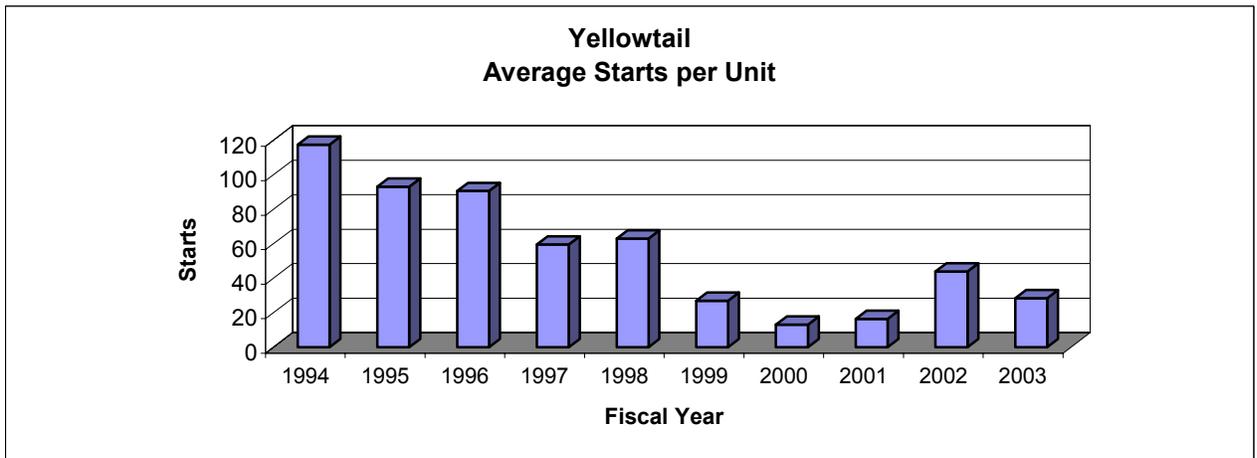


**Benchmark 7  
Scheduled Outage Factor**



FY-01 and FY-02 – Extended outages occurred for replacing the turbine runners on Units 3 and 4, and for replacing the governors and excitation systems on Units 1, 2, 3, and 4.

**Starts**



## Benchmark Data Comparison

Fiscal Year 2003	Yellowtail Powerplant	Reclamation Average 100-500 MW Group	Total Reclamation Average	Industry Average	Best Performers
Wholesale Firm Rate Mills/kWh	Units 1&2 14.2 Units 3&4 21.7	Not Applicable	*23.1	Not Available	Not Available
Production Cost as Percentage of Wholesale Firm Rate	Units 1&2 1.0 Units 3&4 3.4	Not Applicable	12.0%	Not Applicable	Not Applicable
O&M Cost \$/MWh	7.4	4.5	2.7	10.9	1.1
O&M Costs \$/MW	9,242	10,924	7,315	17,261	3,108
O&M Equip Work Year per MW	0.1	0.1	0.04	Not Available	0.010
Availability Factor	92.9	87.6	83.6	**88.9	99.1
Forced Outage Factor	0.8	0.8	1.5	**2.4	0.0
Scheduled Outage Factor	6.3	11.7	14.9	**8.7	0.0

\*Weighted by Net Generation  
\*\*2002 NERC Average

The Bighorn River Basin experienced its fourth consecutive year of drought conditions in FY-2003, which resulted in below average generation.

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