

Ancillary Services

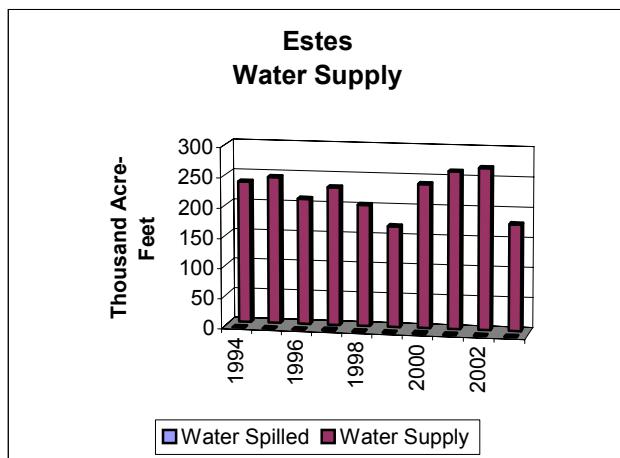
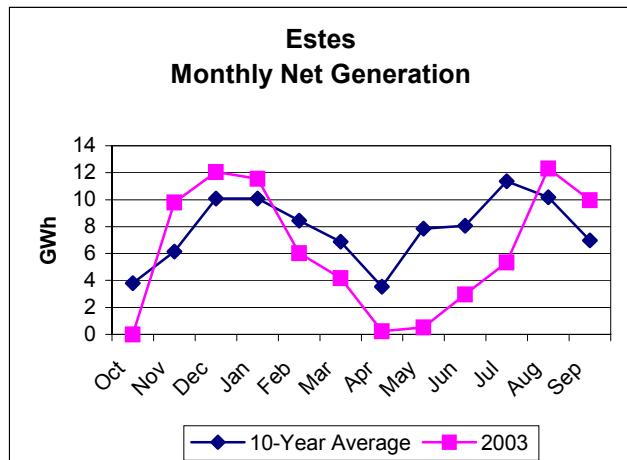
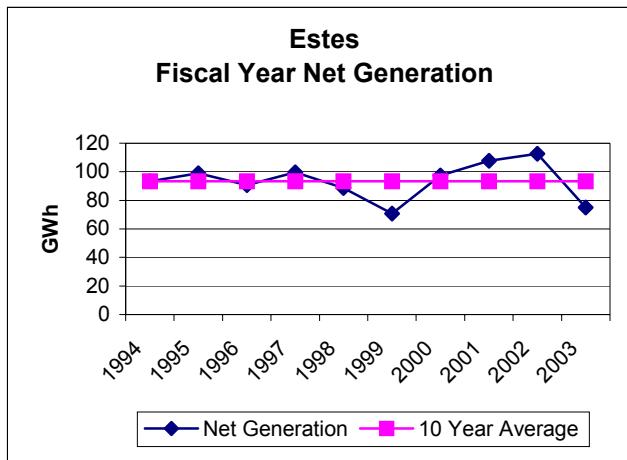
Estes Ancillary Services	
Spinning Reserve	Yes
Non-Spinning Reserve	Yes
Replacement Reserve	No
Regulation/Load Following	Yes
Black Start	Yes
Voltage Support	Yes

Generators

Estes Generators			
Existing Number and Capacity			
Unit #	Original Capacity (kW)	Capacity Increased (kW)	Present Capacity (kW)
1	15,000	0	15,000
2	15,000	0	15,000
3	15,000	0	15,000
3 Units	45,000	0	45,000

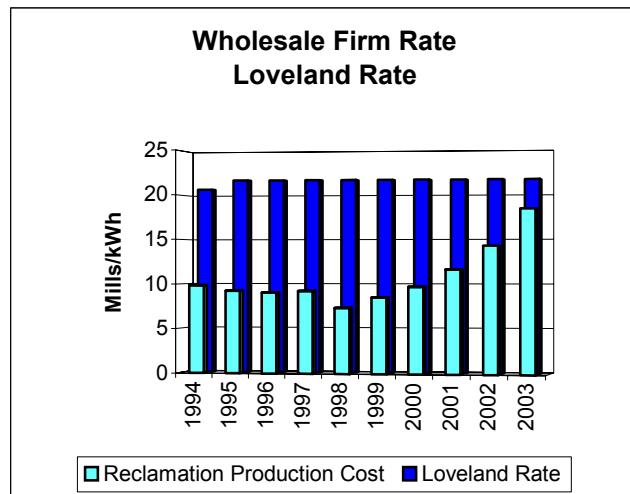
Estes Powerplant
30-100 MW

Generation

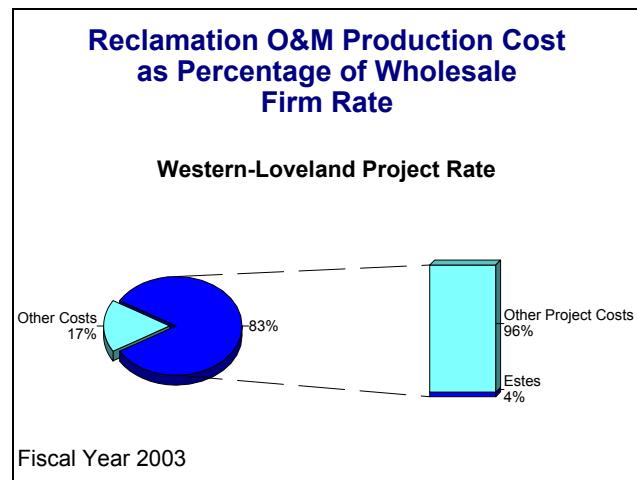


Prime Laboratory Benchmarks

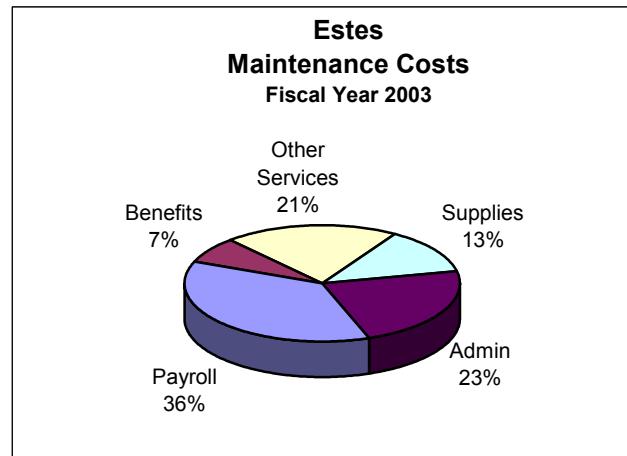
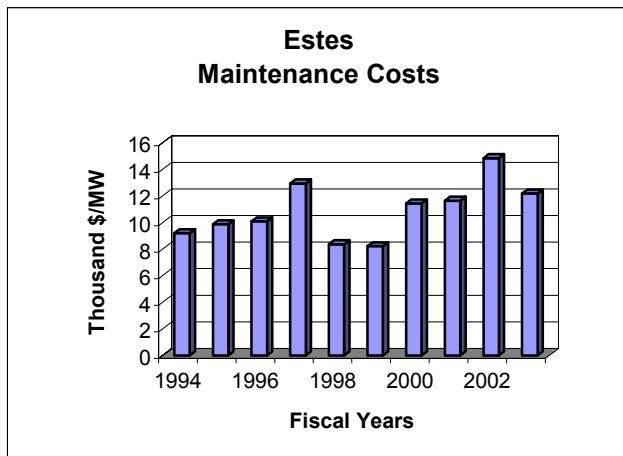
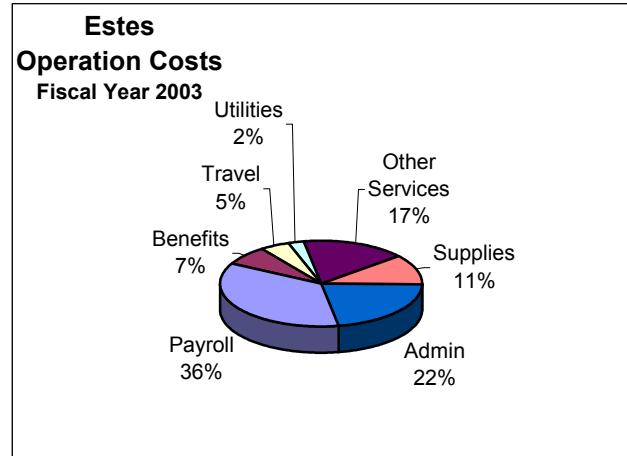
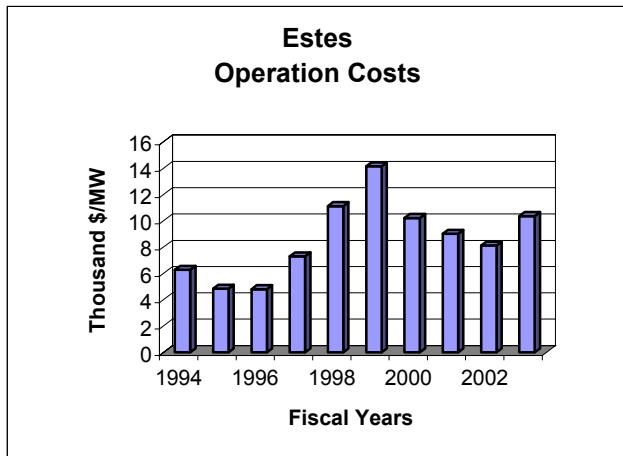
Benchmark 1
Wholesale Firm Rate



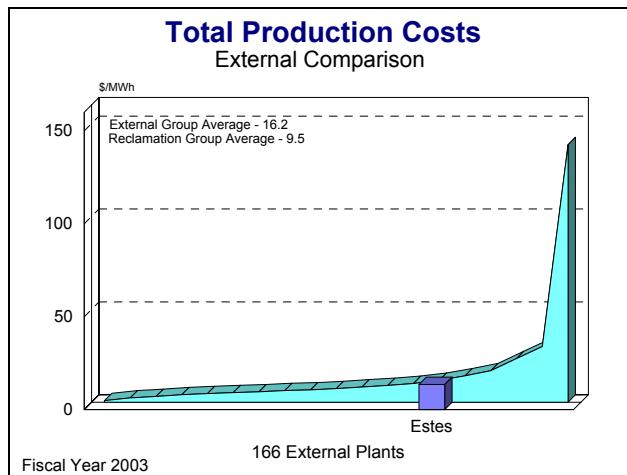
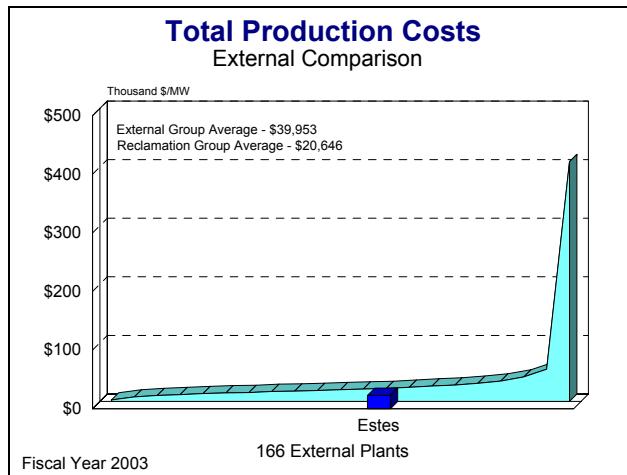
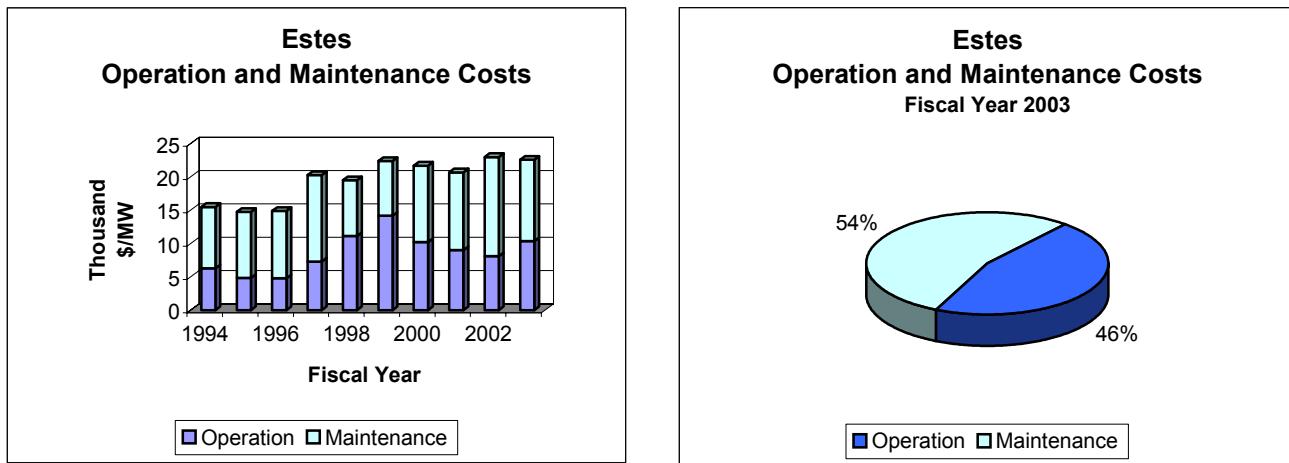
Benchmark 2
Reclamation's Production Cost as Percentage of Wholesale Firm Rate



Benchmark 3
Production Cost



Benchmark 3
Production Cost

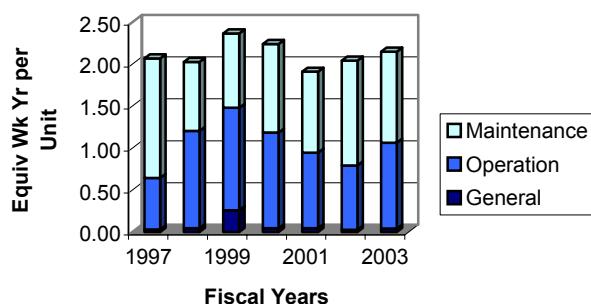


Benchmark 4
Workforce Deployment

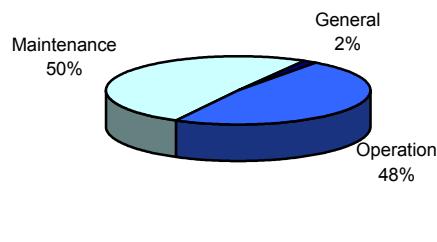
Estes
2003 Equivalent
Work Year Levels

	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	0.05	0	0.07	0.12	0.04	0.003
Operation	2.77	0.3	0	3.07	1.02	0.068
Maintenance	2.94	0.32	0	3.25	1.08	0.072
Total Staffing	5.76	0.62	0.07	6.44	2.15	0.14

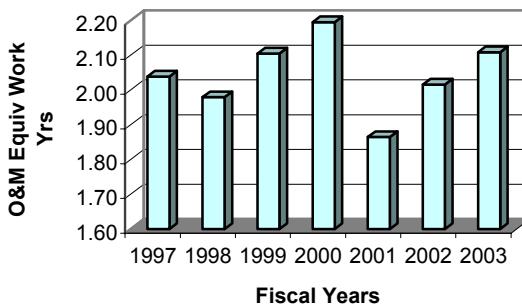
Estes
Equivalent Work Year per Unit



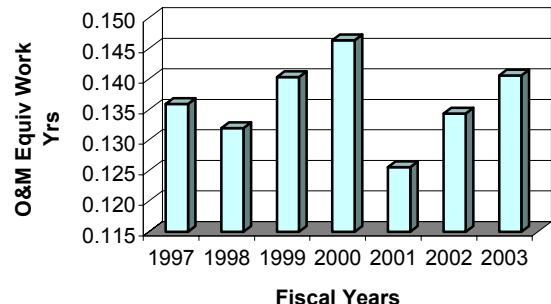
Estes
Equivalent Work Year per Unit
2003



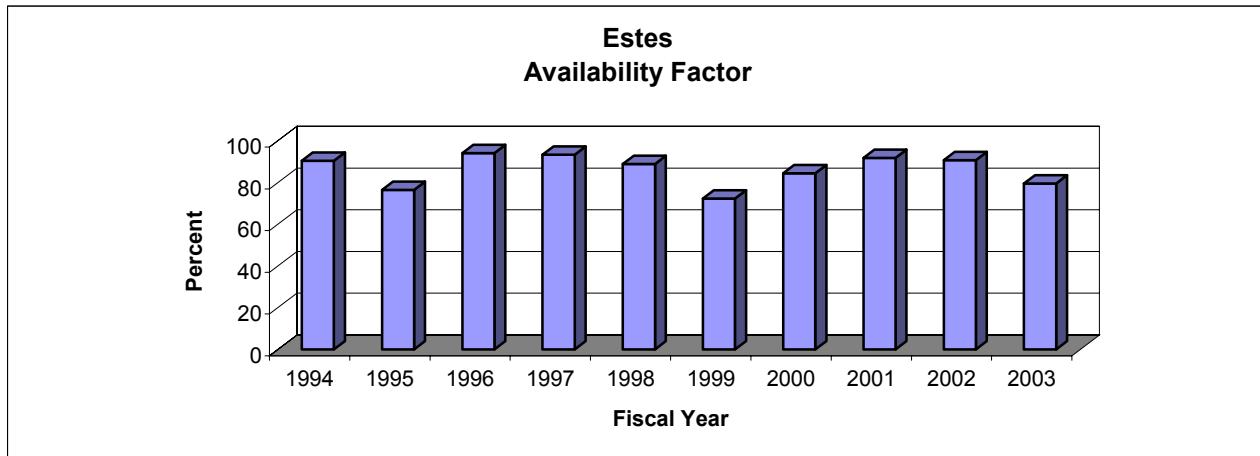
Estes
O&M Equivalent Work Years per Unit



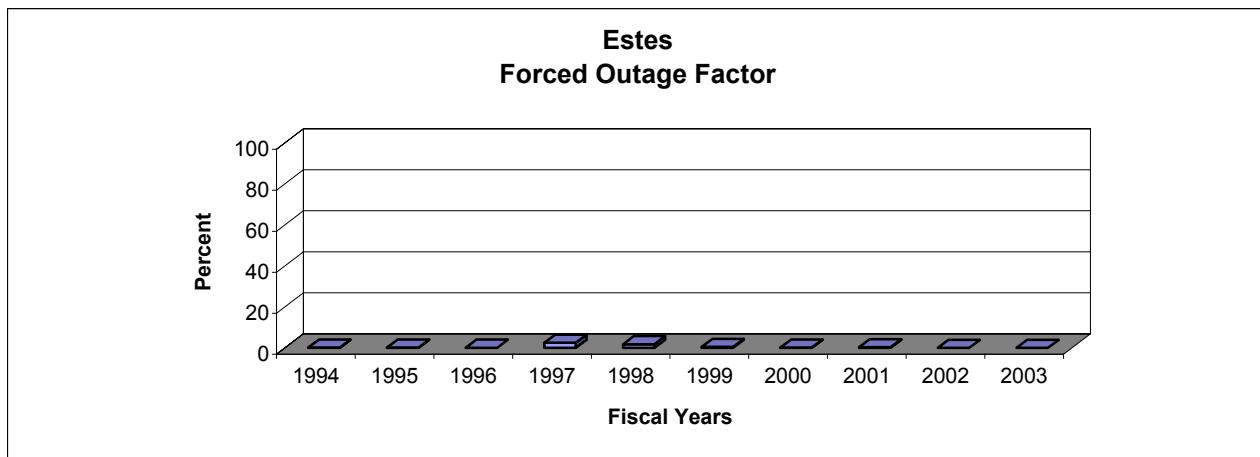
Estes
O&M Equivalent Work Years per MW



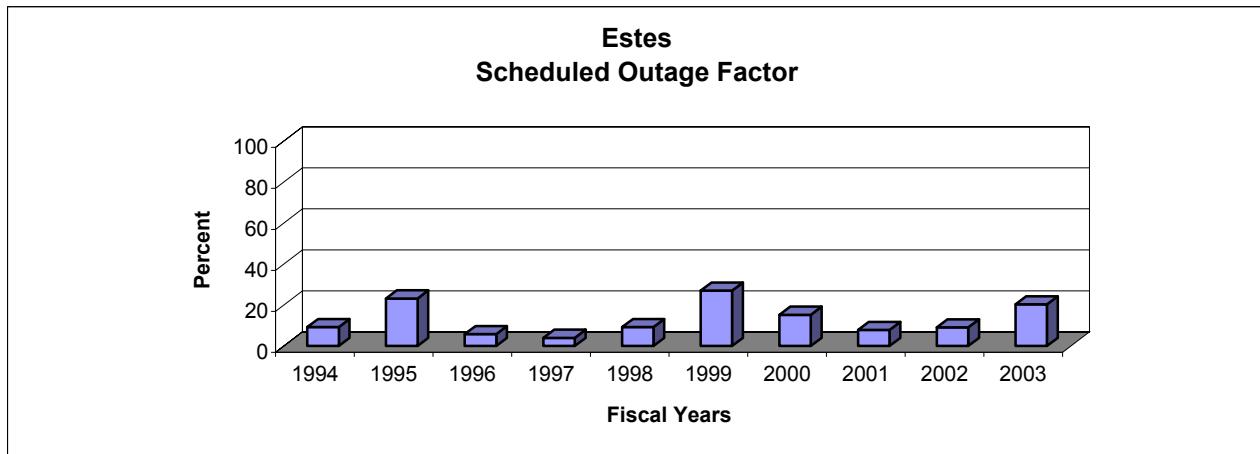
Benchmark 5
Availability Factor



Benchmark 6
Forced Outage Factor

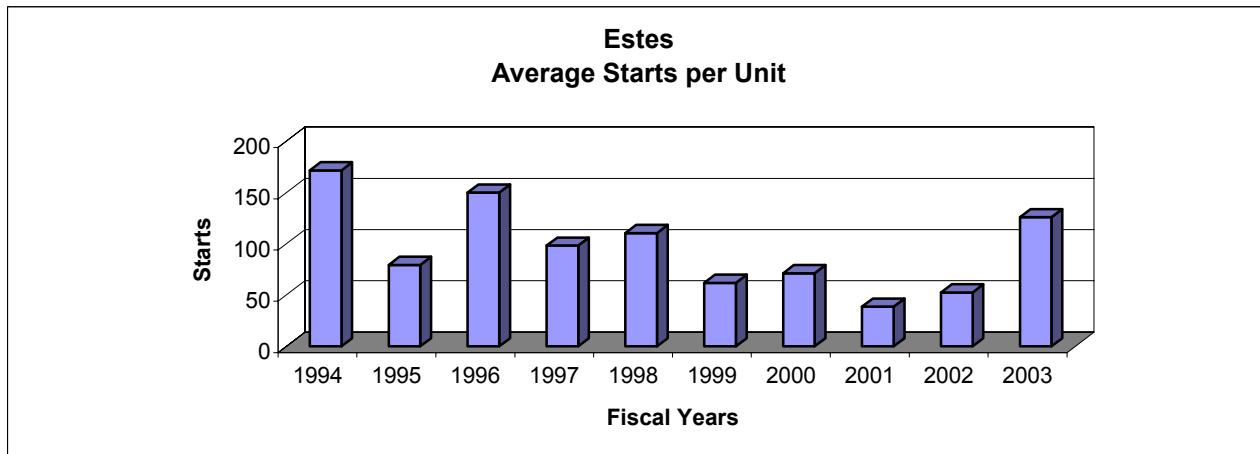


Benchmark 7
Scheduled Outage Factor



FY-95 - Extended maintenance on all 3 units

Starts



Benchmark Data Comparison

Fiscal Year 2003	Estes Powerplant	Reclamation Average 30-100 MW Group	Total Reclamation Average	Industry Average	Best Performers
Wholesale Firm Rate Mills/kWh	21.7	Not Applicable	*23.1	Not Available	Not Available
Production Cost as Percentage of Wholesale Firm Rate	2.96%	Not Applicable	12.0%	Not Applicable	Not Applicable
O&M Cost \$/MWh	13.5	7.6	2.7	16.2	1.1
O&M Costs \$/MW	22,554	19,010	7,315	39,953	3,108
O&M Equiv Work Year per MW	0.1	0.1	0.04	Not Available	0.010
Availability Factor	79.6	87.6	83.6	**88.9	99.1
Forced Outage Factor	0.0	0.5	1.5	**2.4	0.0
Scheduled Outage Factor	20.4	11.8	14.9	**8.7	0.0

*Weighted by Net Generation

**2002 NERC Average