

# **Right-of-Way Management Program Vegetation Control**

## **Proposed Alliance Contract Extension**

**Bill Bernier, Director  
Line Operations & Maintenance**

# Right-of-way Management Program Budget Distribution 2002

Scheduled Distribution Clearing	62%
Distribution Danger Tree Removal	16%
Scheduled Transmission Clearing	15%
Transmission Danger Tree Removal	4%
Substation Vegetation Control	3%
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TOTAL:	100%

# Vegetation Control Alliance Benefits

- Reduced costs
- Improved reliability
- Increased electrical and fire safety
- Increased customer service and education
- Consistent training/qualified personnel

# **Vegetation Control Alliance Benefits**

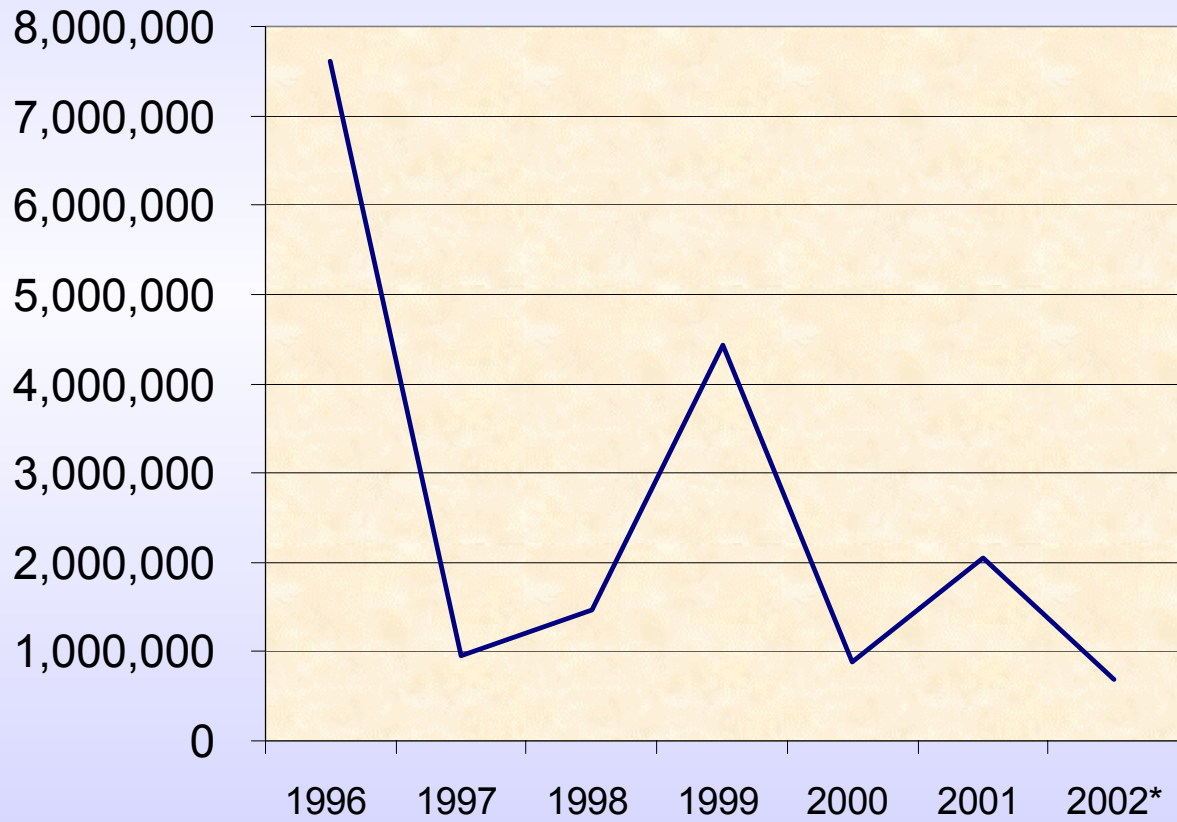
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- Detailed production and cost accounting
- Ability to plan/schedule work
- Tree Line USA certification
- Improved access for maintenance/power restoration

# Total Outage Minutes

## Trees, Trees and Ice

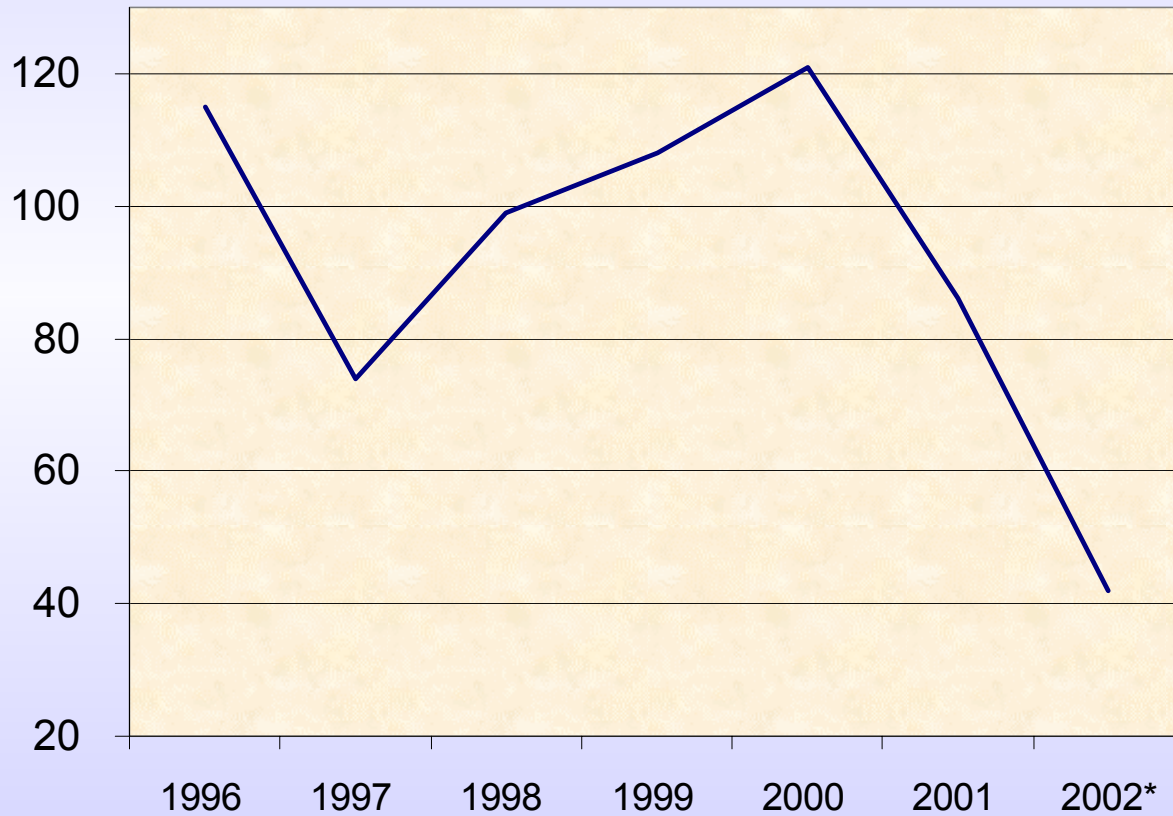
### 1996-Present



# Total Number of Outages

## Trees, Trees and Ice

### 1996-Present



# Elements of Distribution System Clearing

- Voltage class: 12.5 and 24.9 kv
- Pole heights typically less than 50 feet
- Three-year clearing cycle (180 miles/year)
- Narrow easements (20 feet typical)

# **Elements of Distribution System Clearing**

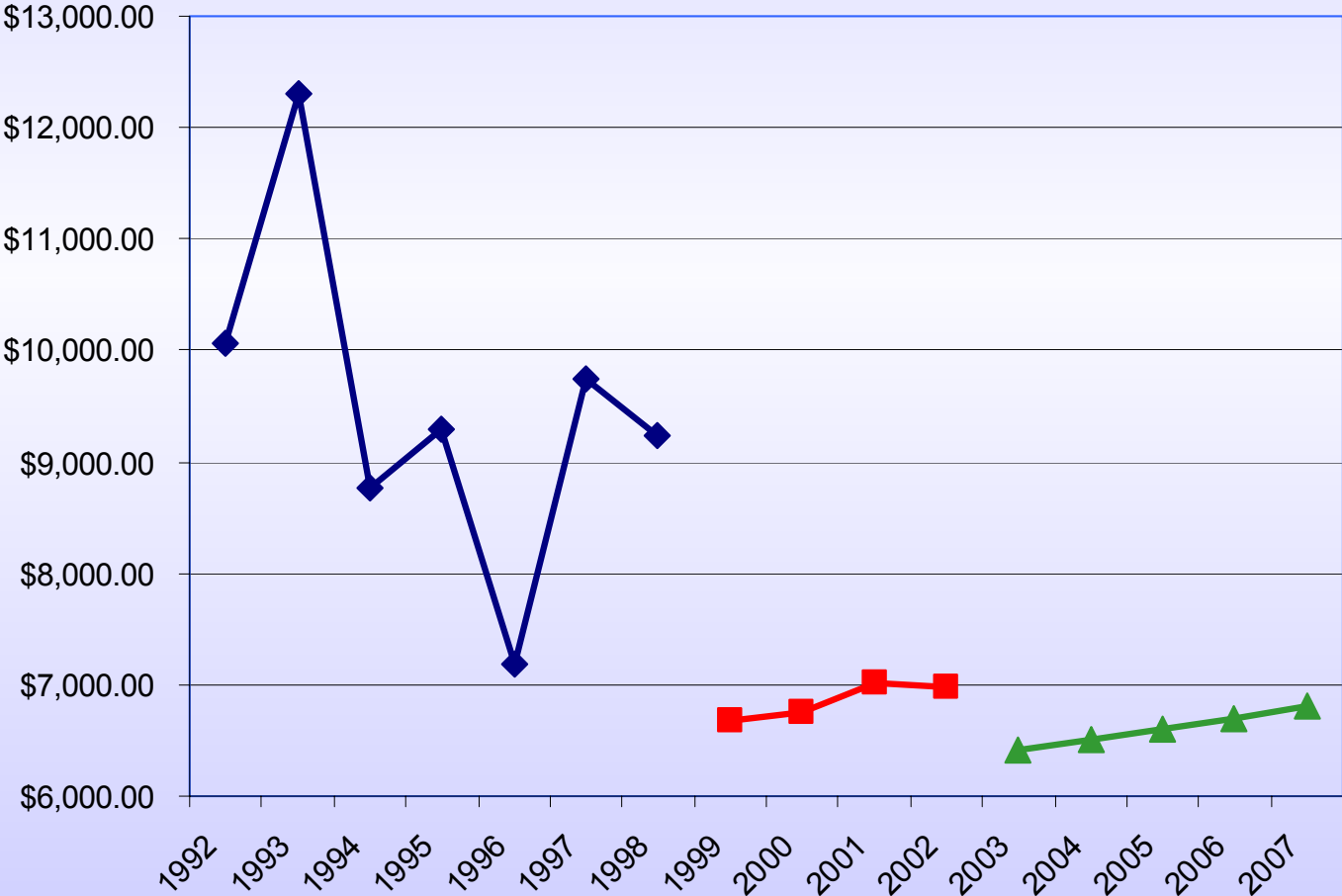
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- Rear lot construction/private property
- Limited equipment access
- Hand clearing only

# Distribution System Clearing Cost per Line Mile Pre-Alliance 1992-1998

**Alliance 1999-2002**

**Renegotiated Alliance 2003-2007**



# Elements of Transmission System Clearing

- Voltage Class: 34.5 to 230 kv
- Structures 60 to over 100 feet in height
- Six to eight year clearing cycle
- Typical easement 40 to 100 feet wide

# **Elements of Transmission System Clearing**

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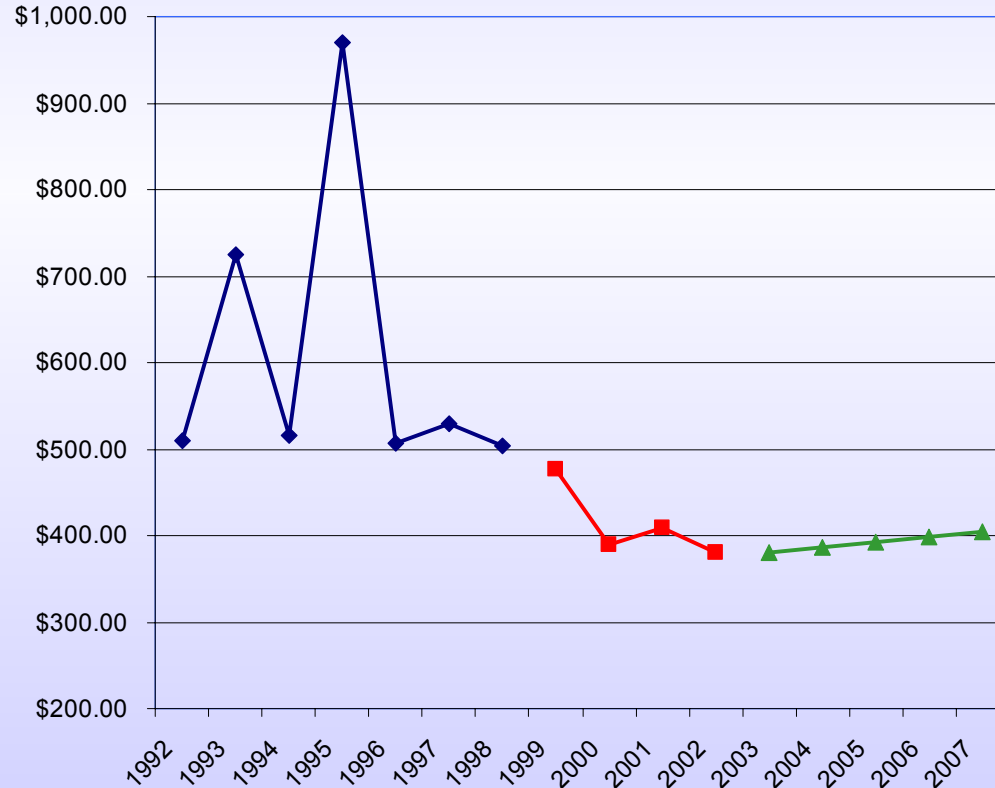
- Primarily located on public lands by permit
- Mechanical clearing methods
- Remote locations/difficult access

# Transmission Clearing Cost per Acre

**Pre-Alliance 1992-1998**

**Alliance 1999-2002**

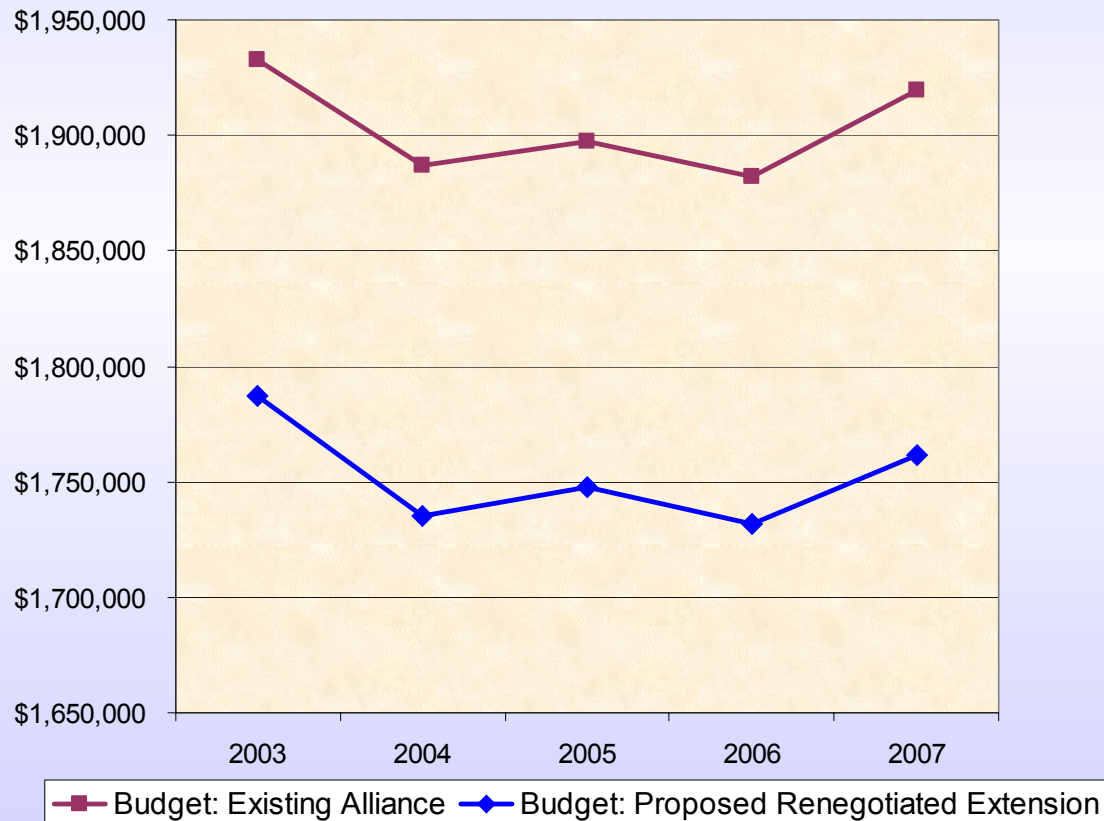
**Renegotiated Alliance 2003-2007**



# Vegetation Control Budget Projections

## Existing vs. Proposed Renegotiated Alliance Extension

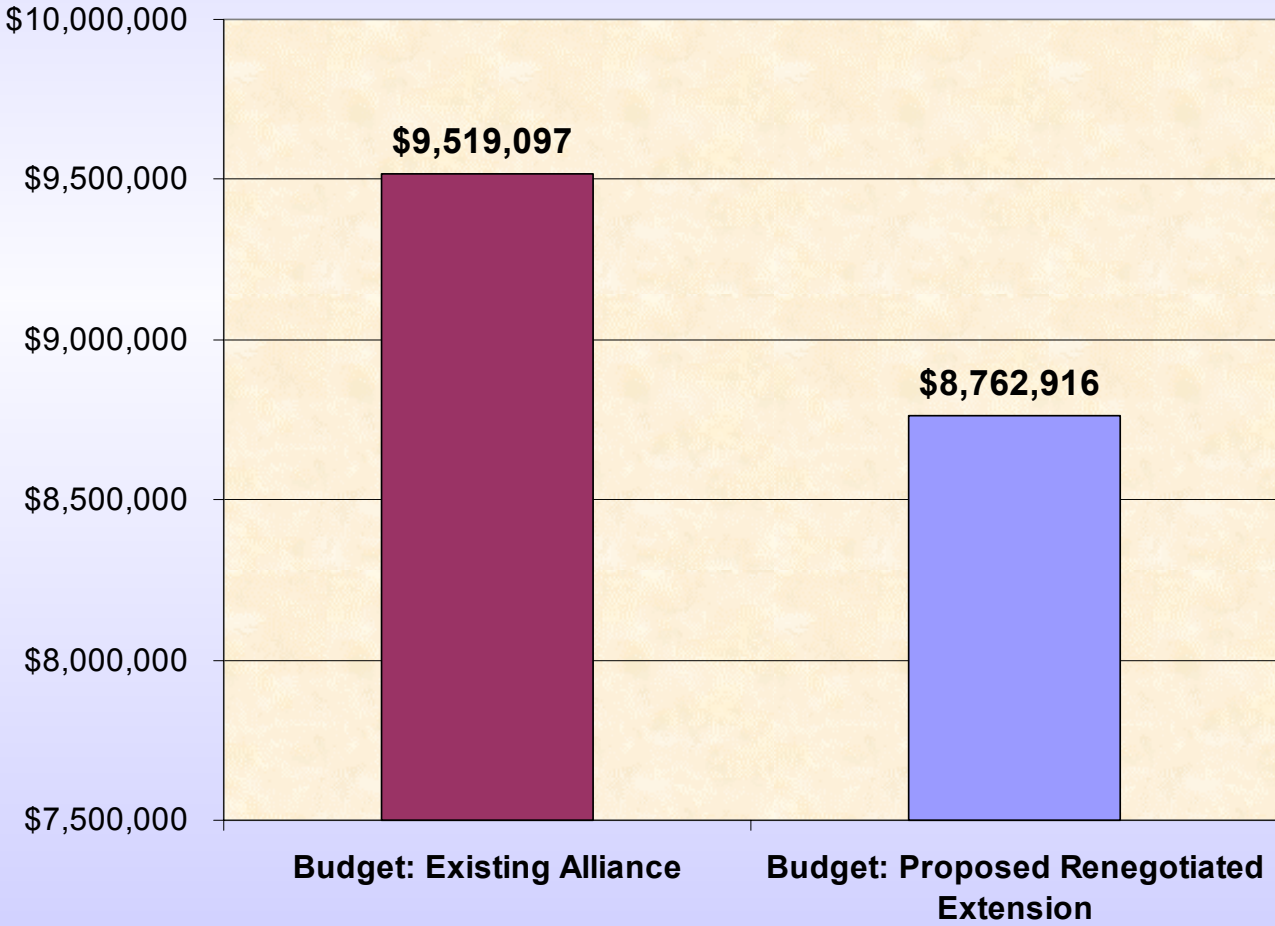
### 2003-2007



# Vegetation Control Total Budget Projections

## Five Year Cumulative Total

### 2003-2007



**Cost savings in excess of  
\$755,000 over five years**