AN OVERVIEW OF
WINTER OPERATIONS

Caltrans Office of Emergency Management and Infrastructure Protection (OEMIP)
Chris Smith, Chief • Winter Operations Branch
STREETS AND HIGHWAYS CODES
SECTION 90-91

Government Codes 14000 through 14052

These codes give the Department of Transportation statutory authority over the State’s highways.
Department Budget and Staff

Fiscal Year 2016/17

- Overall transportation budget: 9.7 billion
- Maintenance budget: 1.6 billion
- 19,000 Caltrans employees
- 6,014 maintenance employees
Department Facts

Fiscal Year 2015/16

- 50,679 lane miles
- 14,863 center lane miles
- 12,747 bridges
- 364 vista points
- 713 changeable message signs (CMS)
- 1703 closed circuit TV cameras (CCTV)

- 7,750 Pieces of equipment
- 353 maintenance stations (garages)
- 323 park and ride lots & 87 safety roadside rest areas
- 143 highway advisory radio stations (HAR)
Winter Operations Facts

- Annual snow / ice budget – $30 million
- 9060 lane miles of winter routes
- 1945 permanent full time operators
- 600 seasonal operators
- 1,025 snow plows
- 238 wing plows
- 2 tow plows
- 193 graders
- 77 snow blowers
- 2 Epoke spreaders
- 7 ice breakers
Winter Operations Facts

Snow and Ice Total Annual Expenditures Fiscal Year 2015/16: $29,749,901

- Labor cost: $20,009,839.69
- Equipment cost: $4,260,664.71
- Materials cost: $5,232,635.92

Materials Applied (tons)

- Sodium Chloride: 19,649.15
- Magnesium Chloride: 19,517.46
- Abrasives: 105,002.37
- Sodium Chloride Brine (gallons): 900,816
District Map

Caltrans Office of Emergency Management and Infrastructure Protection (OEMIP)
Staffed Chain Control

Caltrans Office of Emergency Management and Infrastructure Protection (OEMIP)
Changeable Message Signs

CHAIN CONTROL 10 - 20 MILES AHEAD

25 MPH SPEED LIMIT IN CHAIN CONTROL
Highway Advisory Radio (HAR)

2 mile radius

Caltrans Office of Emergency Management and Infrastructure Protection (OEMIP)
Avalanche Control
Gazex System
Gazex Shelter
LoCAT System

80 mm projectile – 12,000’ range

Caltrans Office of Emergency Management and Infrastructure Protection (OEMIP)
LoCAT System

Caltrans Office of Emergency Management and Infrastructure Protection (OEMIP)
Jet Roofs

Caltrans Office of Emergency Management and Infrastructure Protection (OEMIP)
Avalanche Zone

Caltrans Office of Emergency Management and Infrastructure Protection (OEMIP)
Avalanche Zone
Brine Making

23% salt to water

Caltrans Office of Emergency Management and Infrastructure Protection (OEMIP)
Heads Up Display (HUD)
TowPlow
Epoke Spreader

5.2 yards solid – 950 gallons liquid

Caltrans Office of Emergency Management and Infrastructure Protection (OEMIP)
Ice Breakers – Snow Lion
RWIS

Caltrans Office of Emergency Management and Infrastructure Protection (OEMIP)
Contact

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