



Road Maintenance Program

Department of Transportation

Prepared for the Board of Supervisors

October 23, 2012

Legistar Item # 12-1274

Agenda

- What do we maintain?
- Maintenance Activities and Funding
- Next Steps

What Do We Maintain?

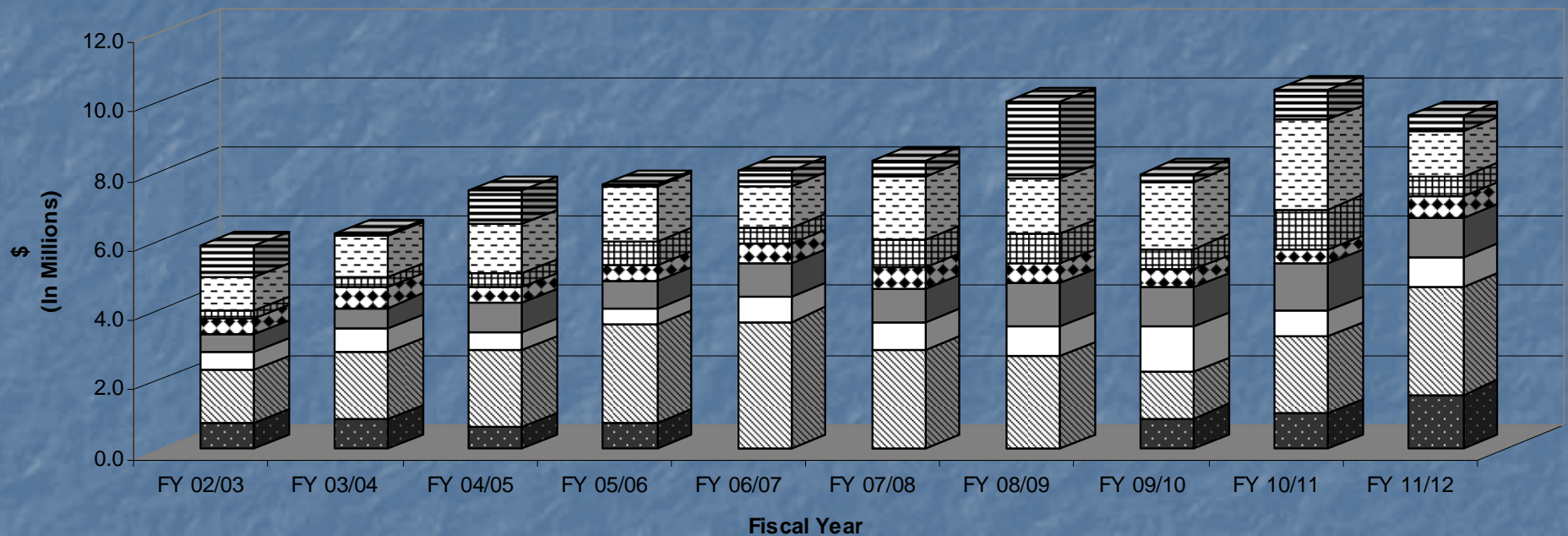
	Unit	Quantity
Box Culverts	Ea	100+
Bridges	Ea	76
Culverts	Ea	10,000*
Ditches	Miles	750
Guardrails	Feet	37,000
Pavement Markers	Miles	138
Roads	Miles	1079
Sidewalks	Miles	70
Signalized Intersections	Ea	46
Signs	Ea	14,822
Timber Walls	Feet	1,600
Striping	Miles	767 (465 yellow centerline miles - 302 edge line miles)

* Approximately

Annual Maintenance Goals

	Unit	Quantity
Brushing	Miles	90
Cape Seal	Miles	6
Chip Seal	Miles	60
Crack Sealing	Miles	25
Culvert Cleaning	Ea	350
Ditching	Miles	75
Durapatching	Miles	60
Grading	Miles	35
Pavement Markers	Miles	10
Sign Install/Maint	Ea	900
Sweeping	Miles	600
Vegetation Control	Miles	400

Costs Per Major Maintenance Category



- Chip Seal
- Asphalt Patching
- Brush and Weed
- Culvert Maintenance
- Striping
- Snow Removal - WS
- Snow Removal - TB
- Fixed Assets

See "Maintenance Costs" and "Roads Sealed" attachments for more detail.

Ditching

(FY11/12 Example Project: Fairplay Road)

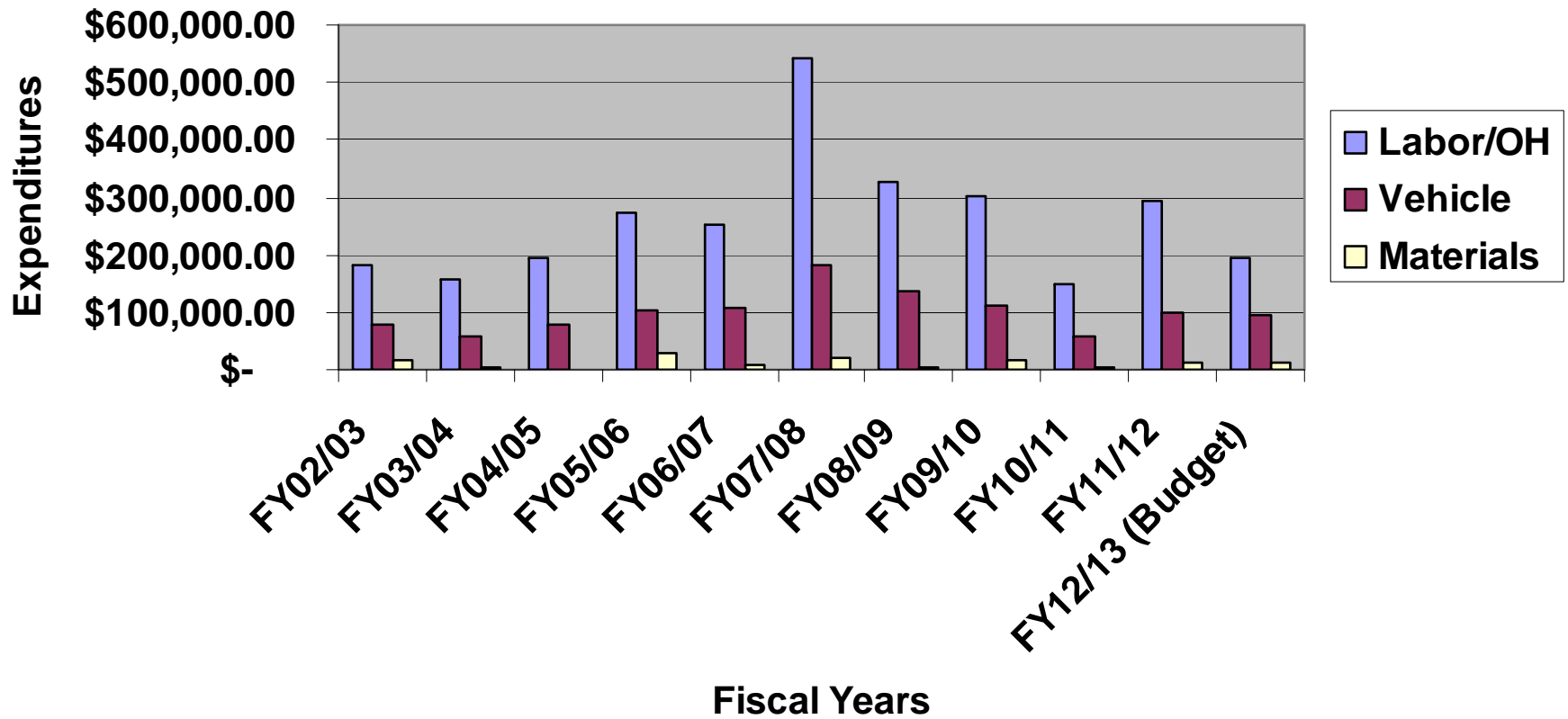
Ditching

- 8 days
- 545.5 total labor hours
- \$34,918.75 total labor cost
- 34.00 equipment hours
- \$4,434.00 total equipment cost

Total Ditching Project
- Costs \$39,352.75



Ditching



Brushing

(FY11/12 Example Project: Fairplay Road)

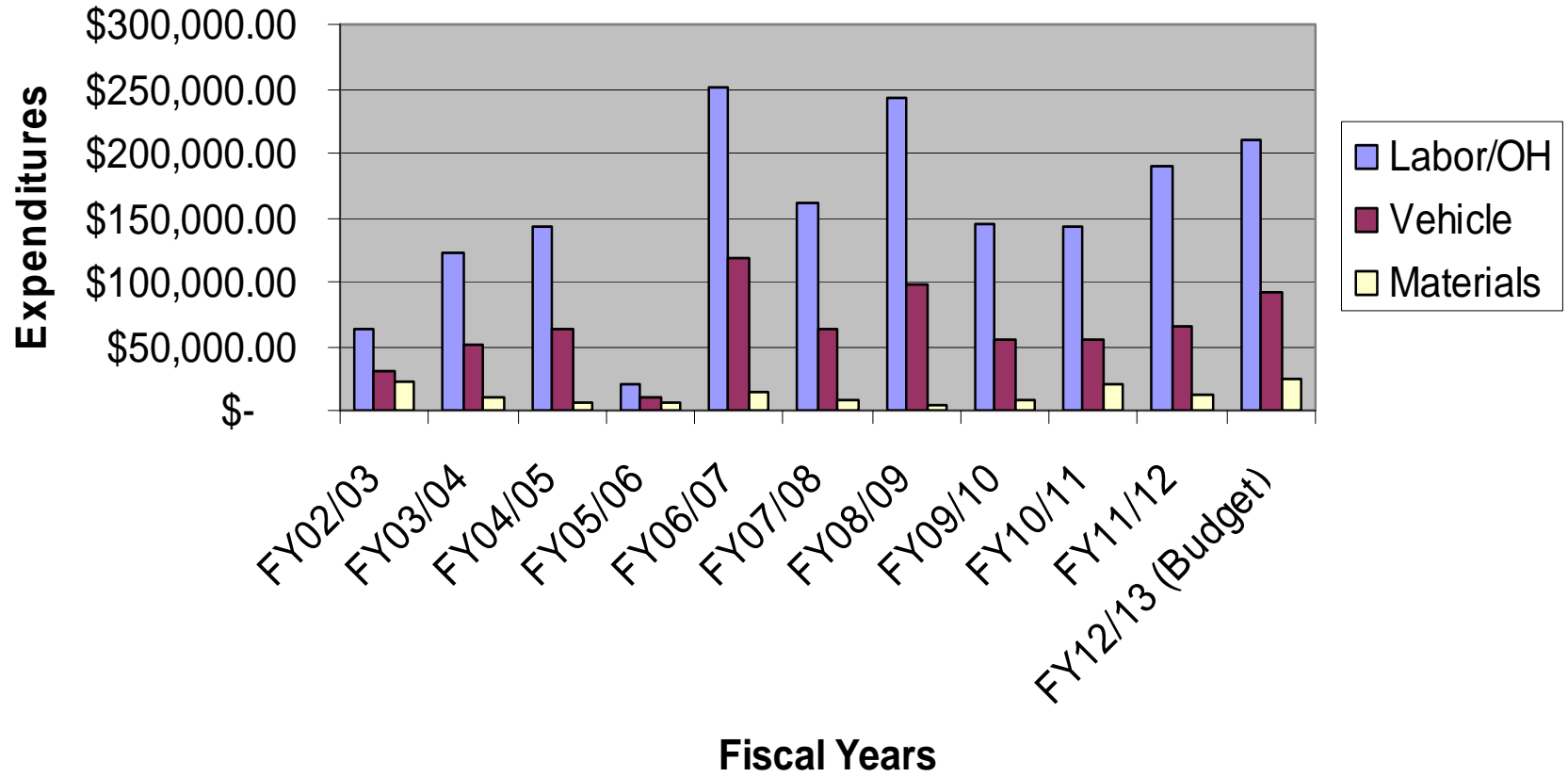
Brushing

- 15 days
- 957.5 total labor hours
- \$54,691.05 total labor cost
- 632.00 equipment hours
- \$9,380.00 total equipment cost

Total Brushing Project -
\$64,071.05



Brushing



Crack Sealing/Dura-patching



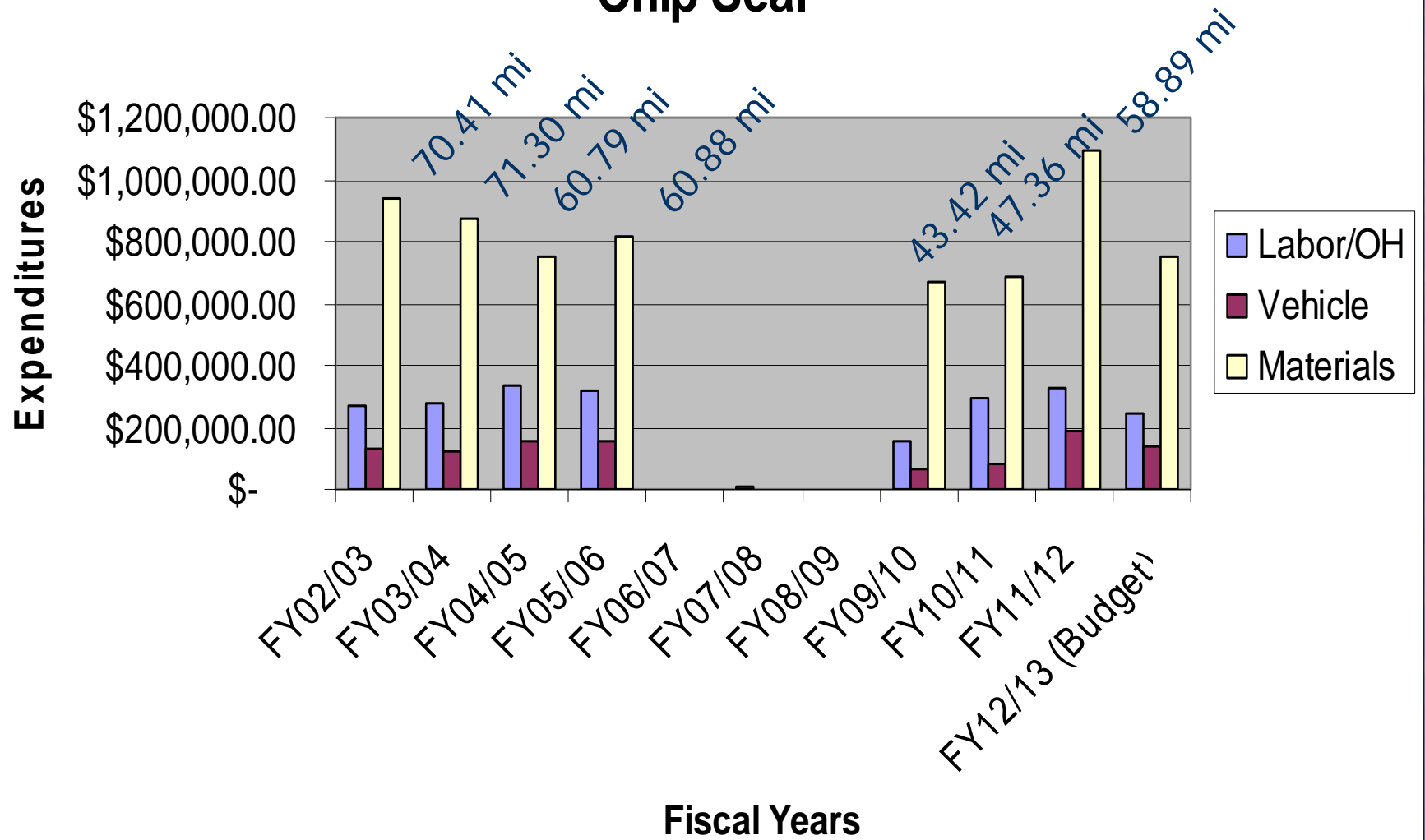
Shingle Springs Rd (2011)

Chip Seal



Glenn Drive (Tahoe Basin)

Chip Seal



Cape Seal



Marina Village Subdivision

Overlay



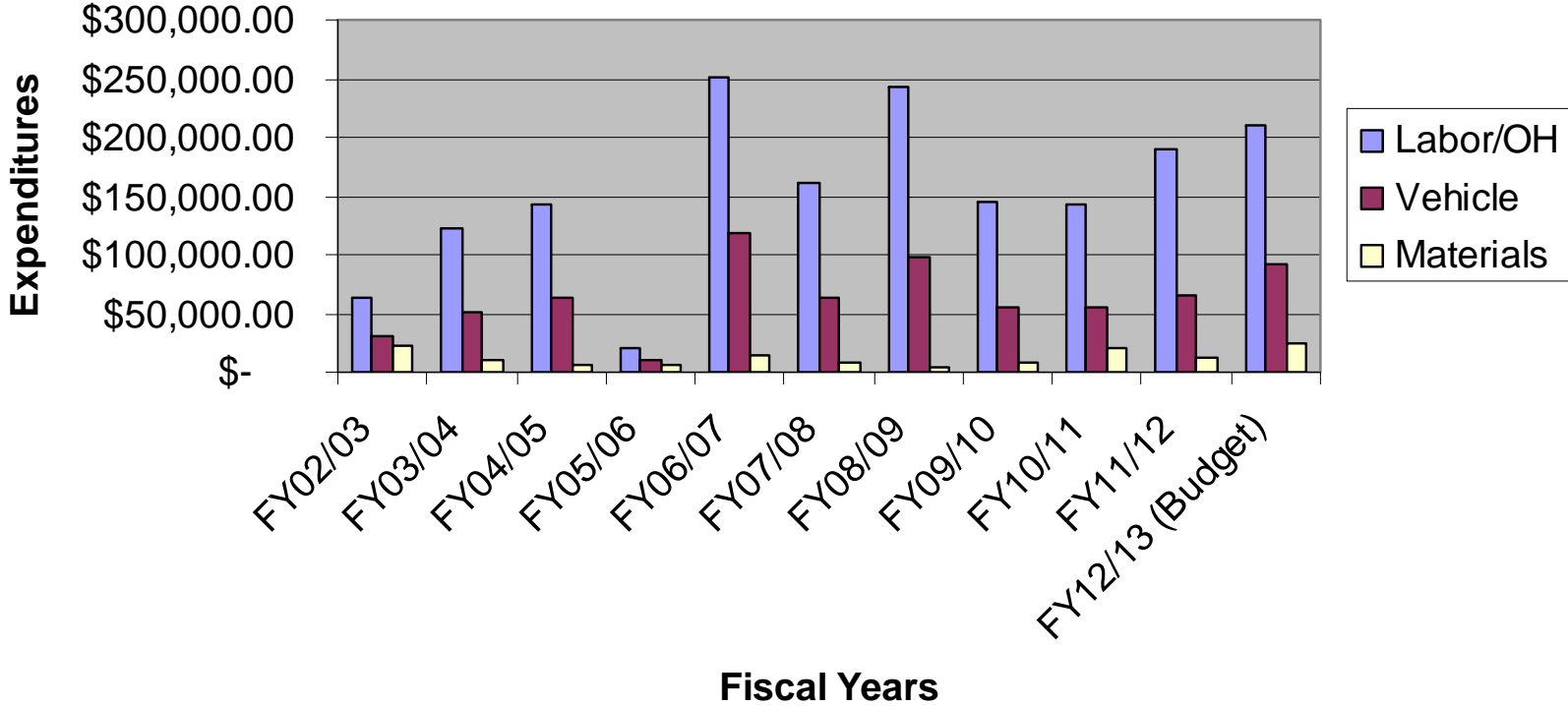
Bassi Road (2012)

Road Surface Grading



Bayne Road 2011

Grading



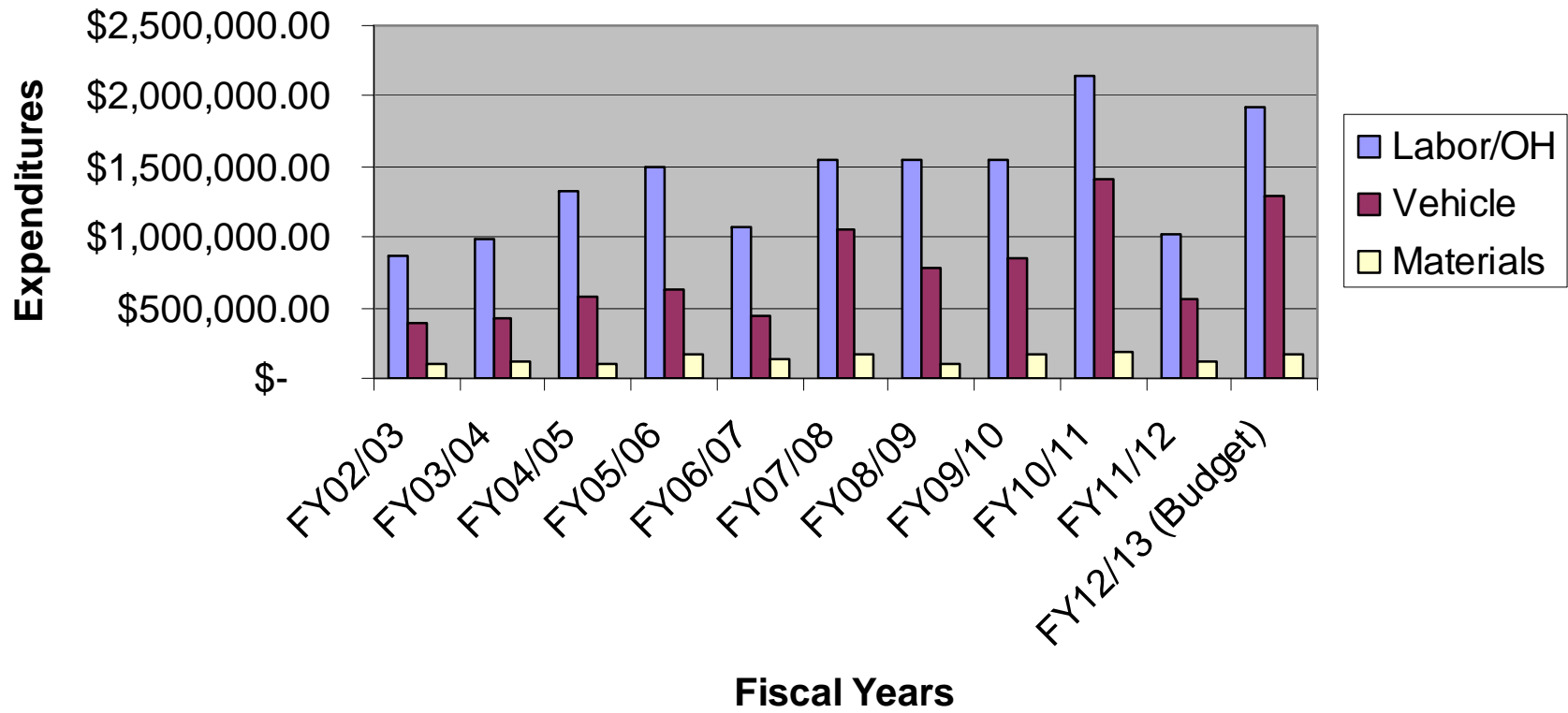
Snow Removal

FY 11/12 5,800 Labor Hours of Snow Removal



Tahoe Basin

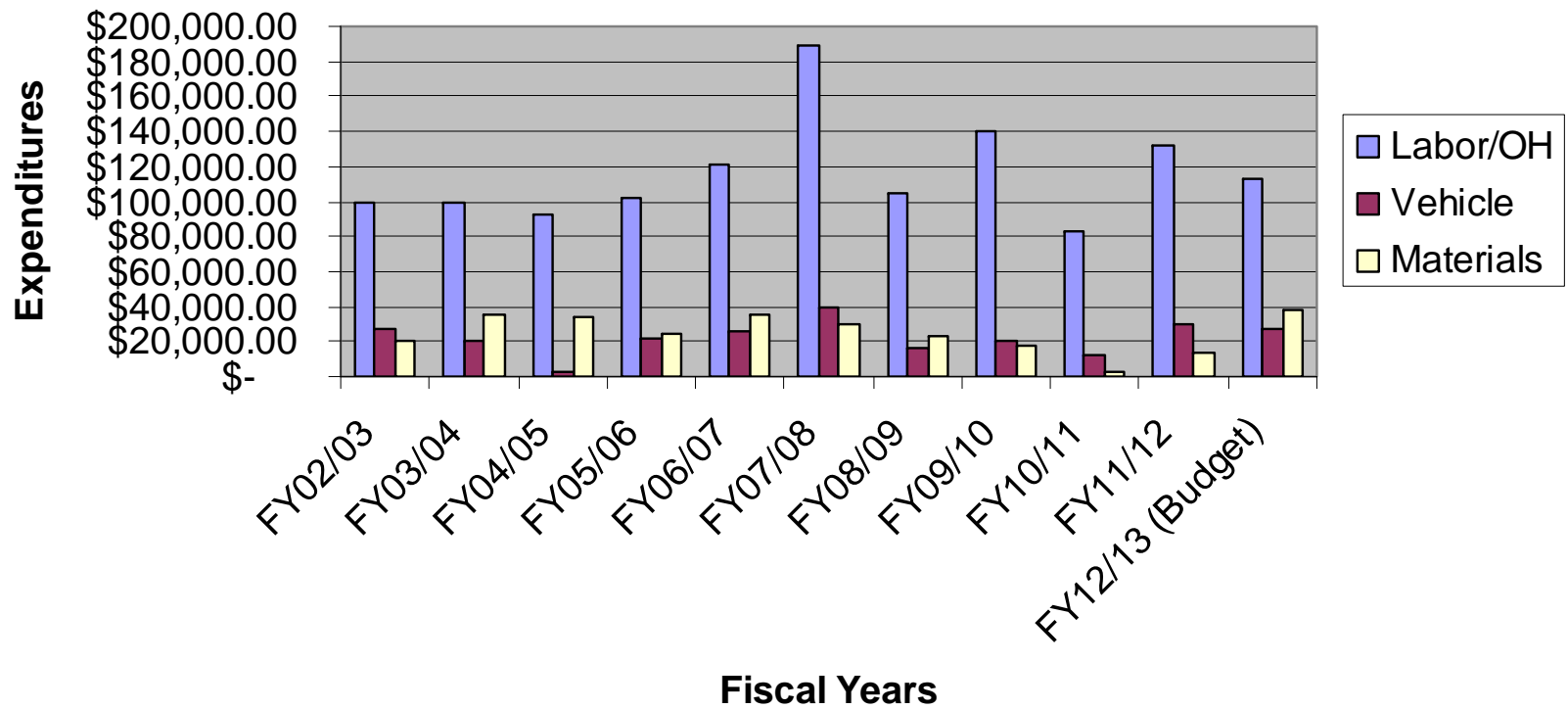
Snow Removal



Bridge Maintenance



Bridge Maintenance



Emergency Response

FY 11/12 = 96 After Hour Calls Were Recorded

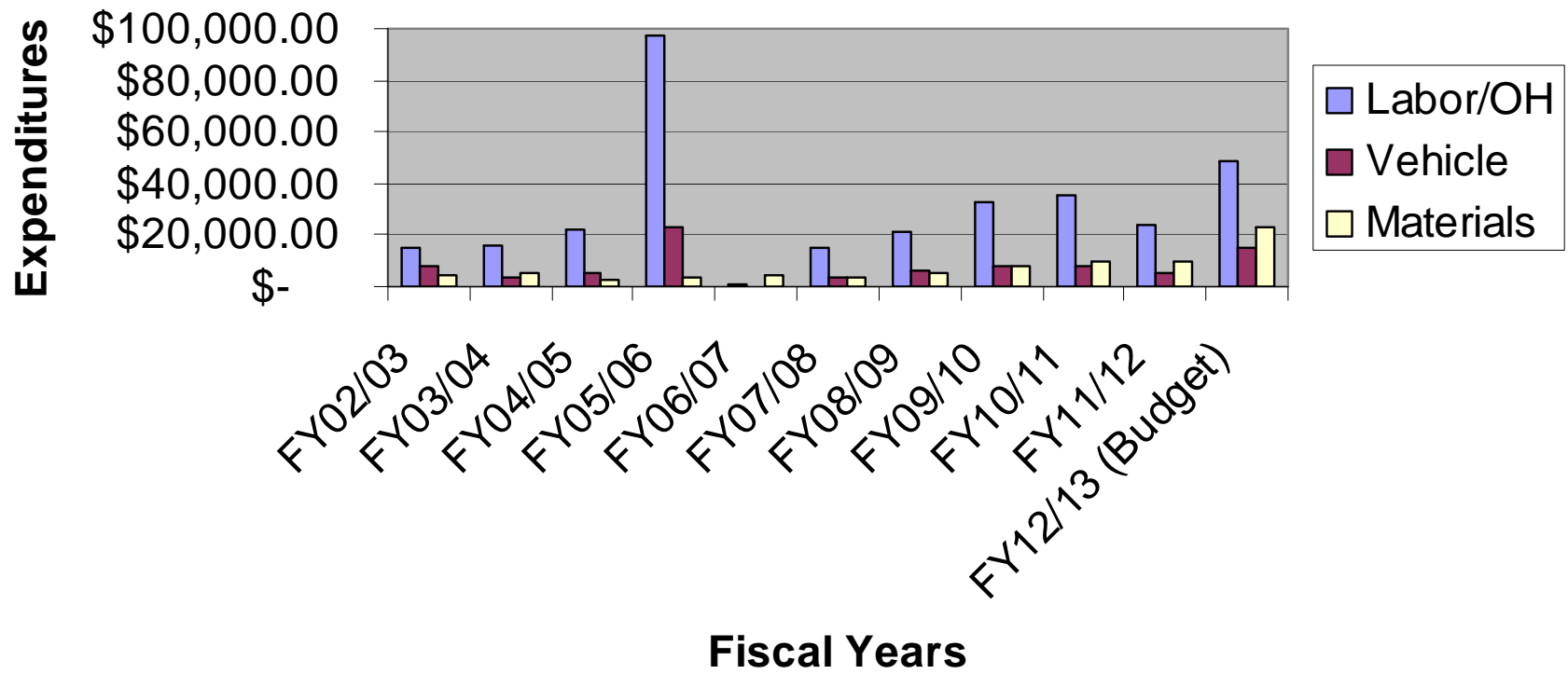


Major Tree Removal
Newtown Rd 2011

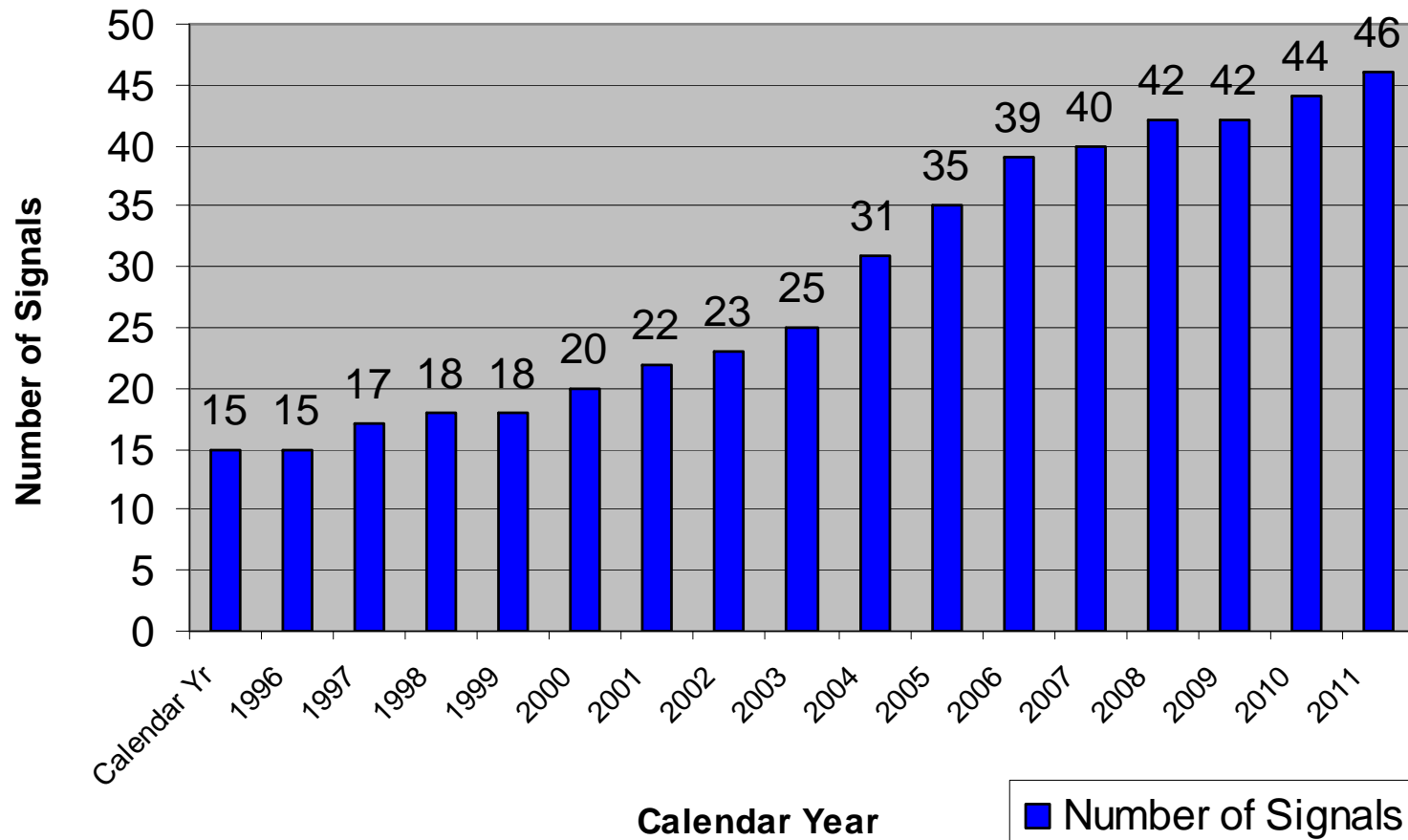


Major Slide
Rock Creek Rd 2011

Emergency Response



County Maintained Signals



Traffic Signal Cabinets

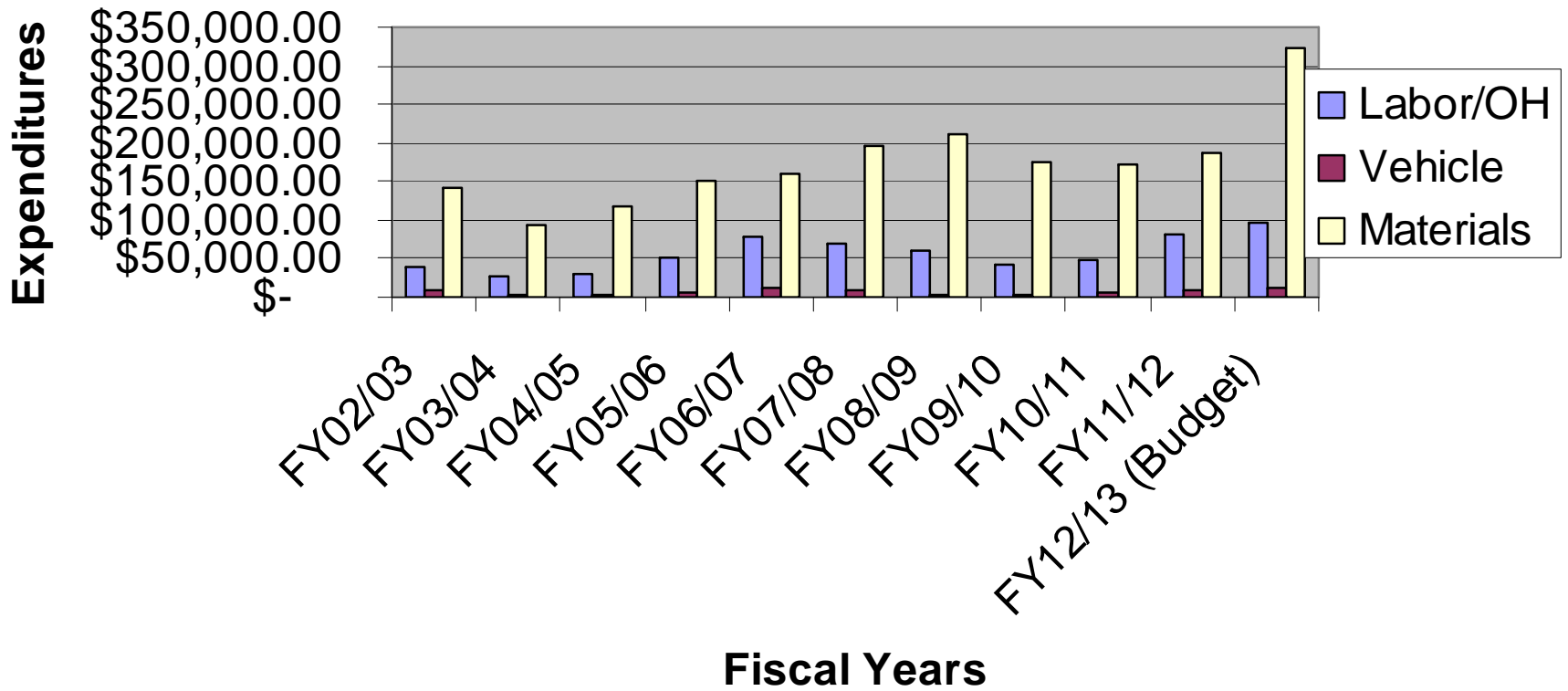
White Rock at Windfield Way - Traffic Signal Controller and Service Cabinets



Signal Power Service and Battery Back-up Assembly

Traffic Signal Controller Assembly

Signal Maintenance



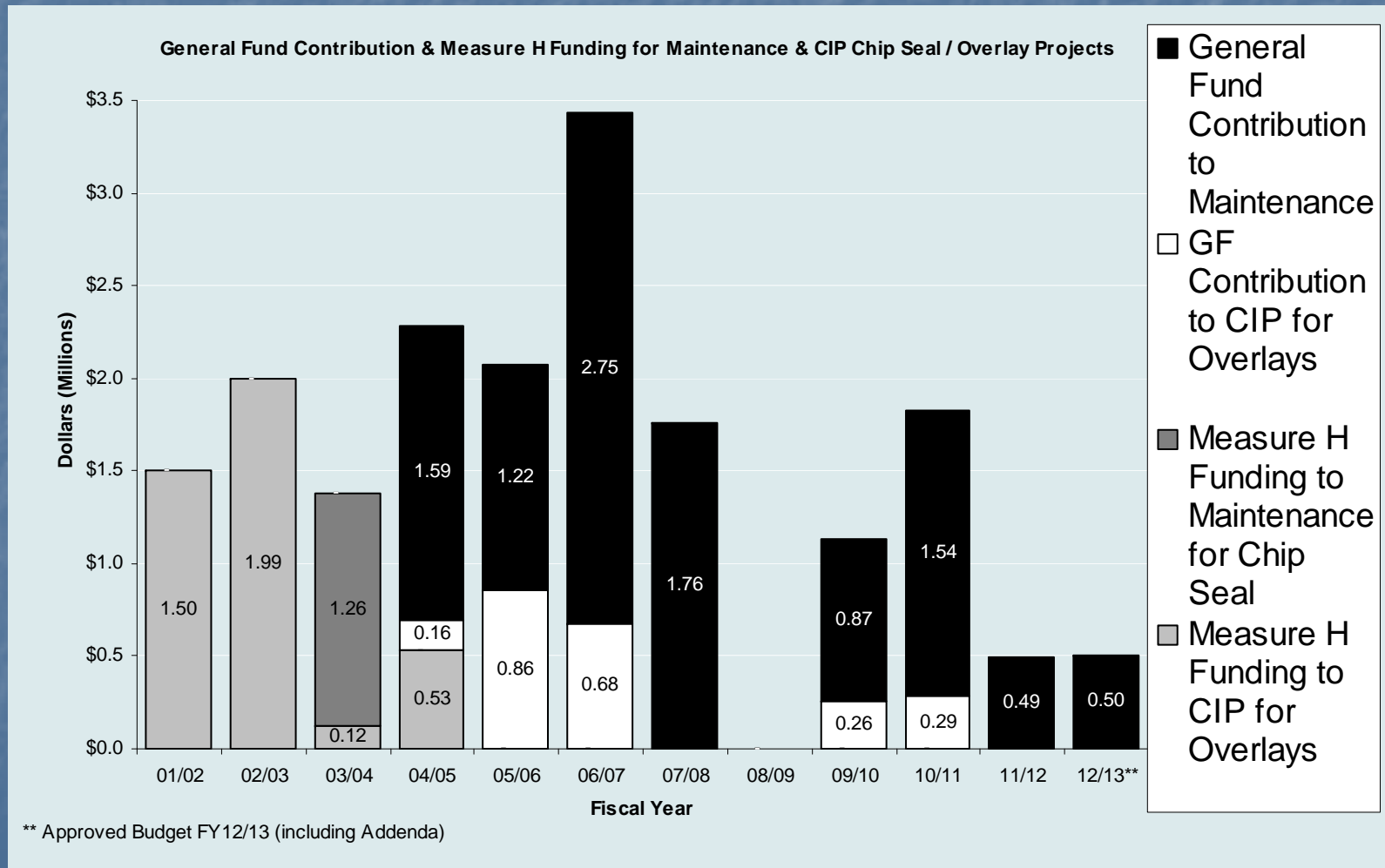
Traffic Signal Knock Down



"B" Pole

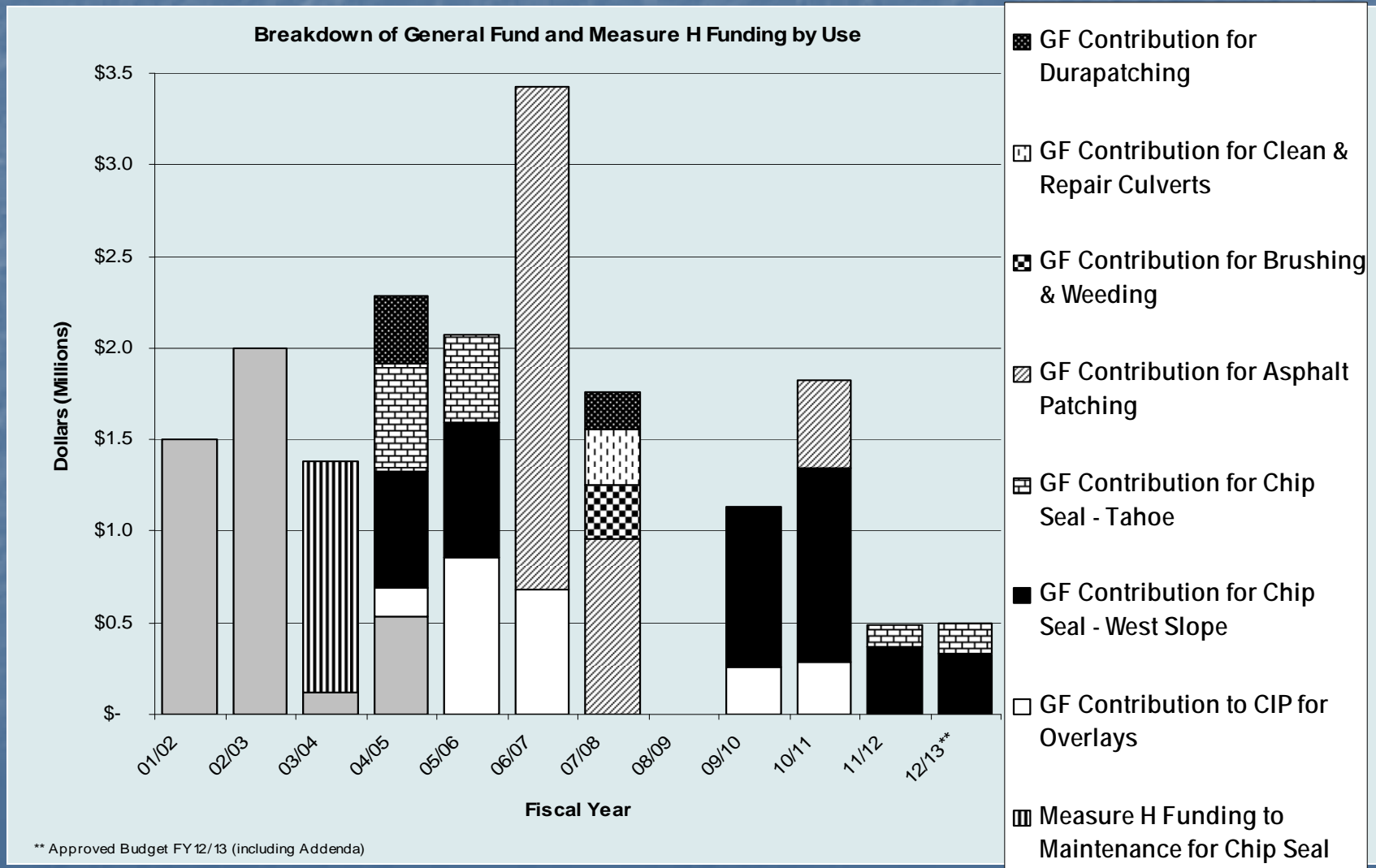
Missouri Flat Road at El Dorado Road, May 2011

General Fund Contribution & Measure H for Maintenance



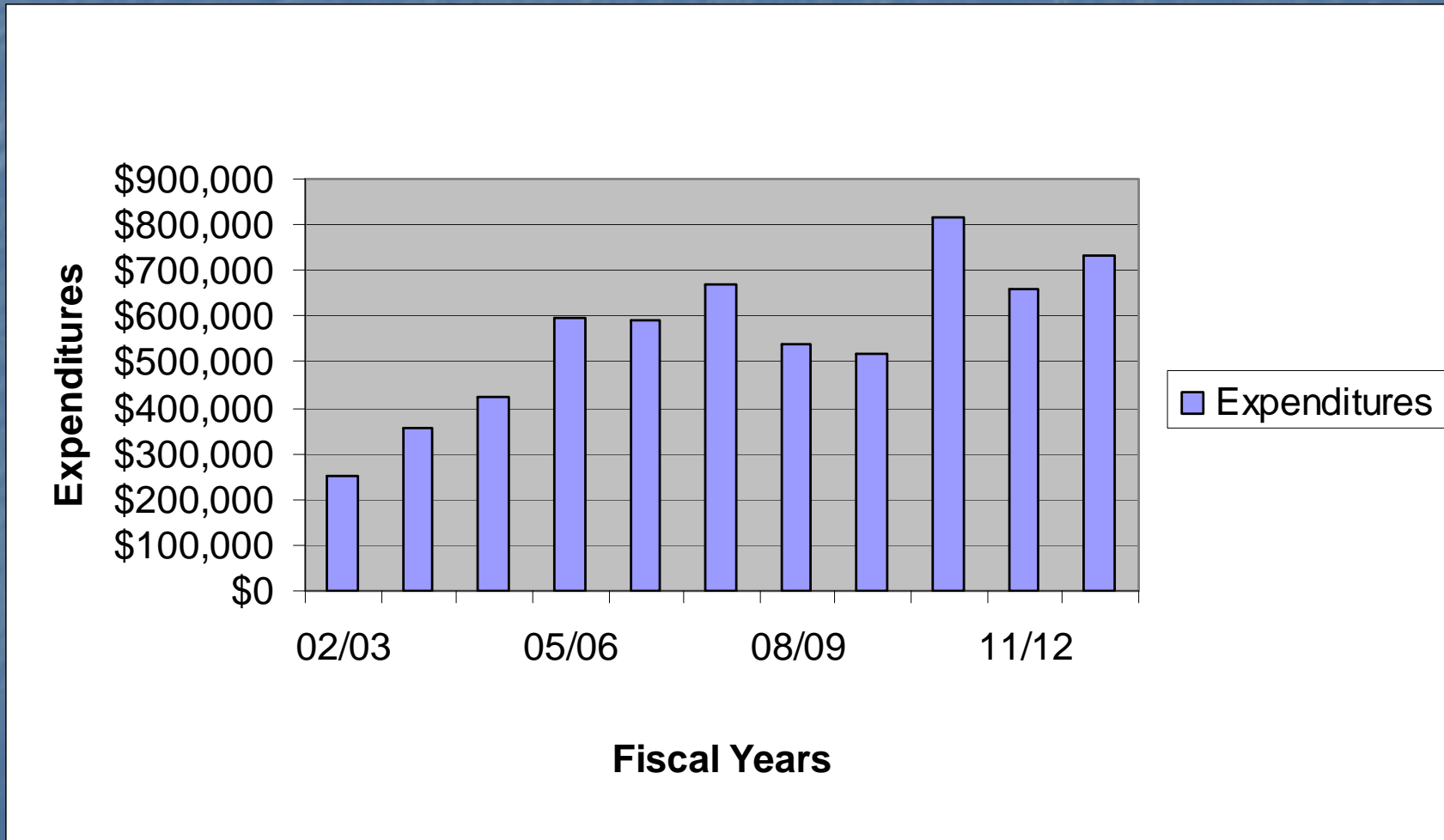
* Spike in 06/07 from storm event where funding was supplied by General Fund as storm event did not meet FEMA category

How General Fund Contribution Have Been Utilized



* Spike in 06/07 from storm event where funding was supplied by General Fund as storm event did not meet FEMA category

Diesel and Unleaded Fuel Costs

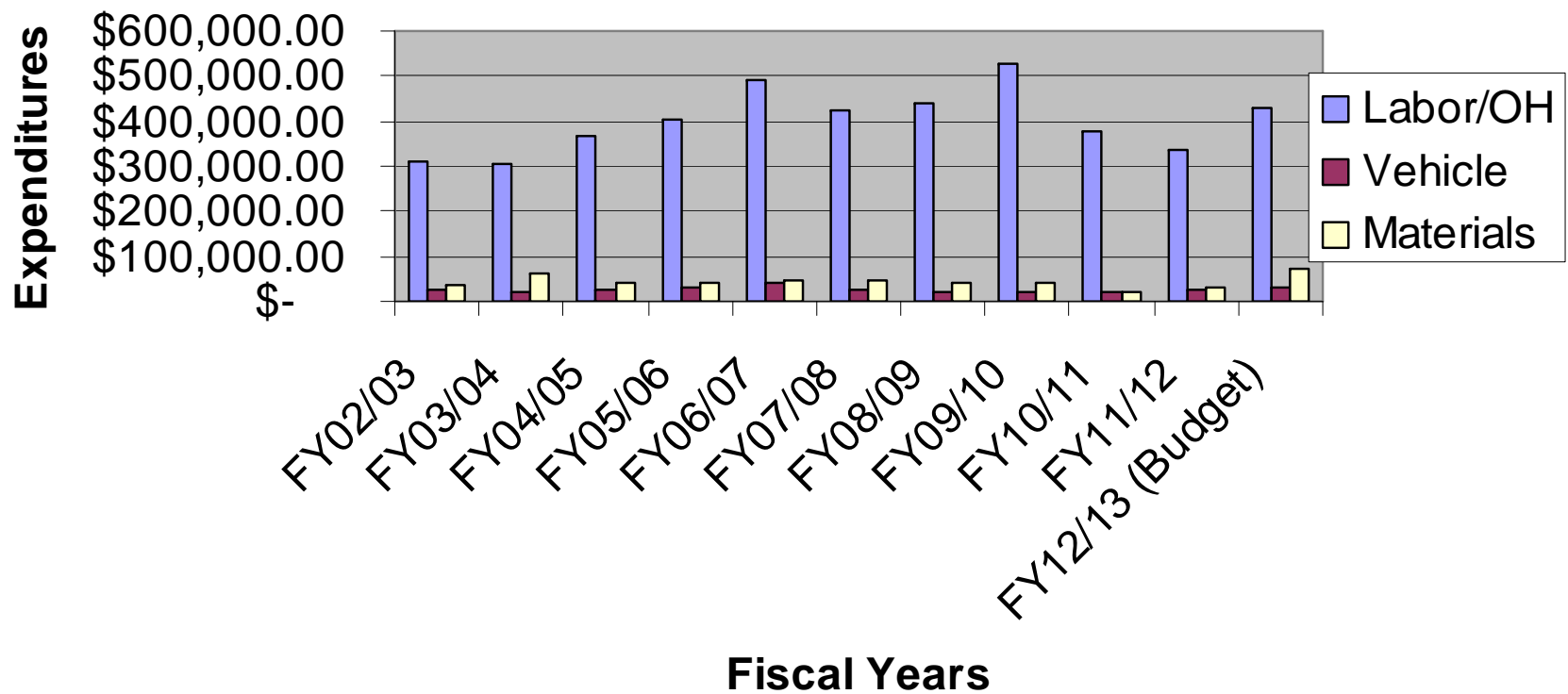


- Next Steps

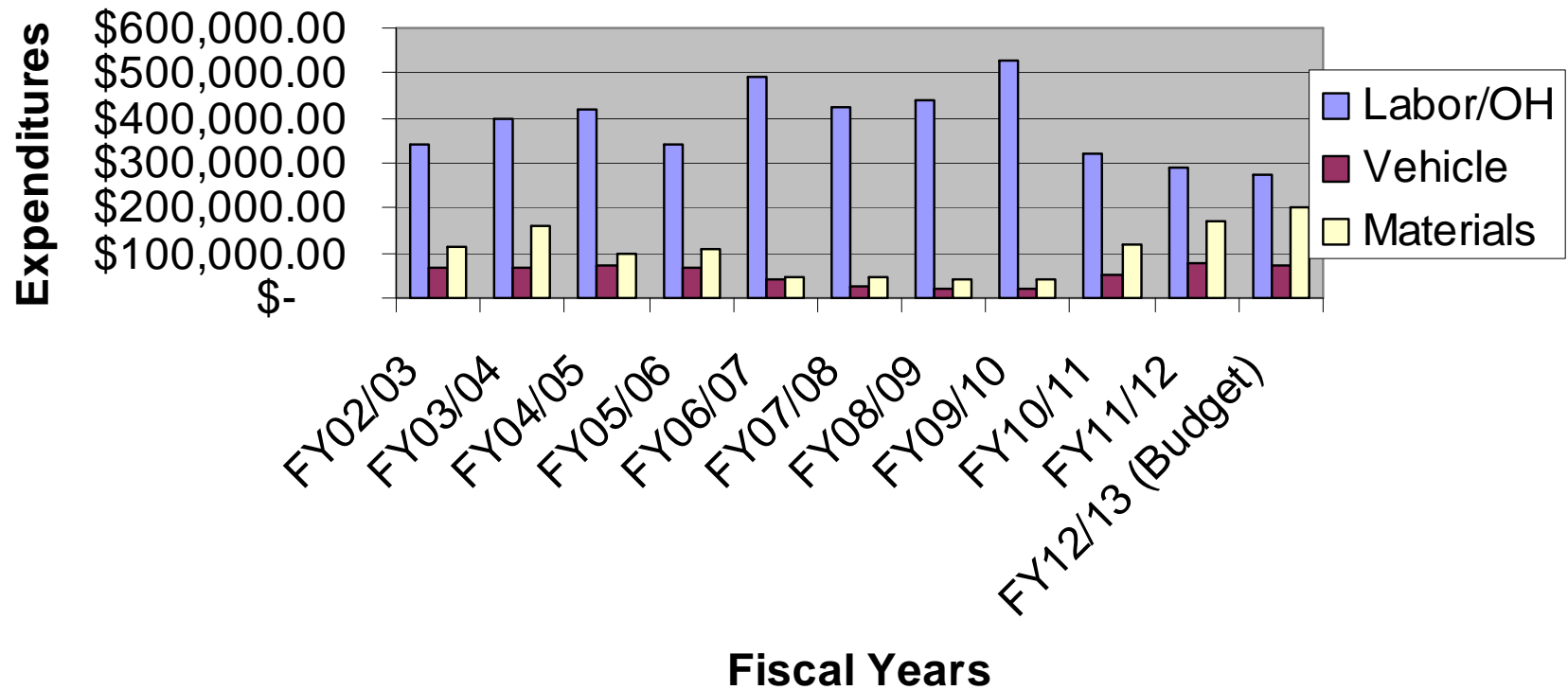
- Direct the Department of Transportation on next steps as to pavement management and road maintenance priorities

Back Up

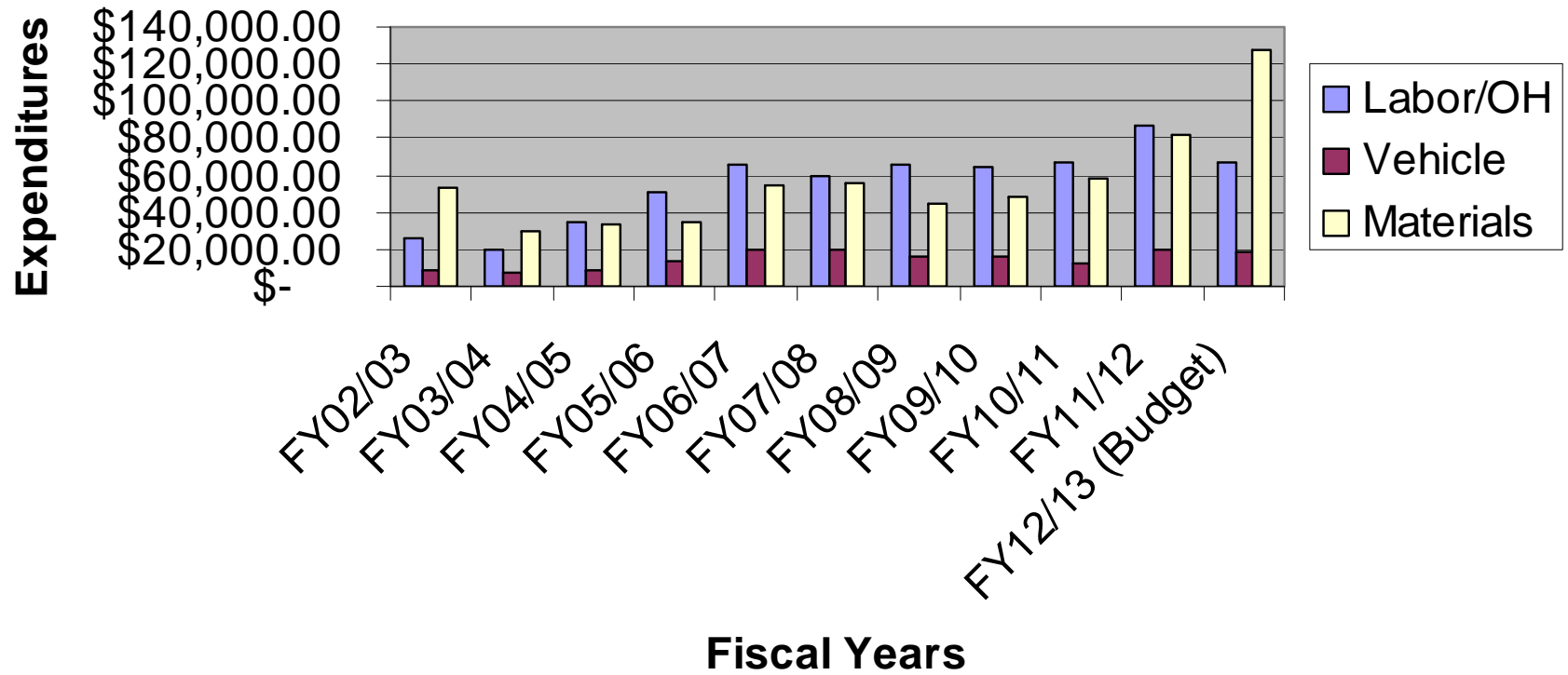
Sign Maintenance



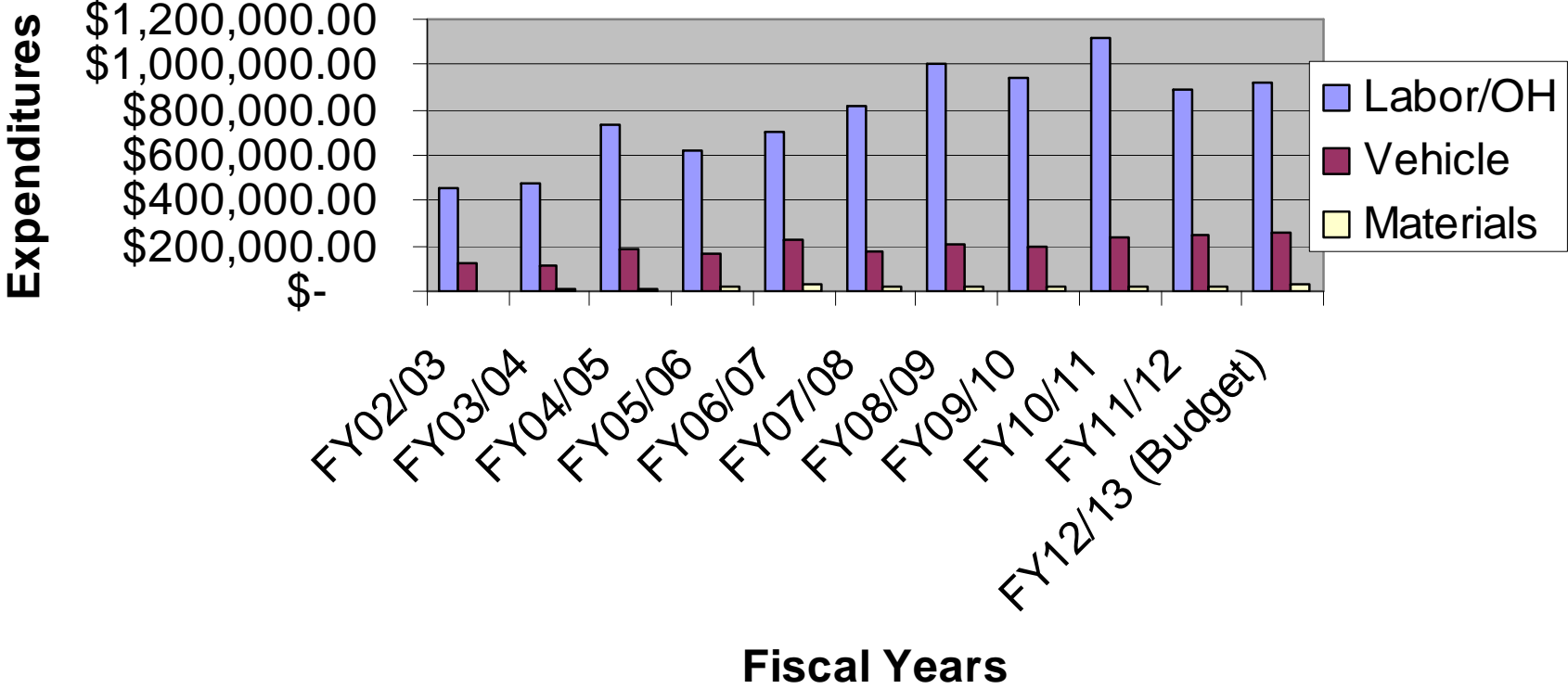
Centerline/Marker Maintenance



Vegetation Control



Sweeping



Culverts-Drainage

