

Los Angeles County Flood Control District



Short Term Sediment Management Needs
After 2009 Fires
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Period of Short Term Needs

We need to consider sediment management for the next several years:

- 2010-11 Water Year*
- 2011-12 Water year
- 2012-13 Water Year
- 2013-14 Water Year

* Water Year is from September 1 to August 31



Areas with Short Term Needs

We need to manage sediment from facilities located in several fire areas that are still undergoing recovery:

➤ 2009 Station, Morris Fires

Altadena

Tujunga (City of LA / Angeles Nat'l Forest)

La Canada Flintridge

Acton

La Crescenta

Azusa

Glendale

➤ 2008 Santa Anita, Merek, Sesnon and Sayre Fires

Sierra Madre

Sylmar

Kagel Canyon

Porter Ranch

Lopez Canyon

Browns Canyon

Pacoima Canyon

➤ 2007 Buckweed, Magic and Ranch Fires

Santa Clarita

Castaic

Stevenson Ranch

Val Verde

Assumptions Used to Identify Short Term Needs

- Normal rainfall during the next 4 years
- Sediment volumes in debris basins based on volumes removed from 2009-10 Storm Season
- Debris basin cleanouts to be done during storm season
- Sediment volume potential reduced by half in years 4 and 5 after a fire.
- Sediment volumes captured in reservoirs assumes 50% of standard design capacity
- Reservoir cleanouts to be done outside storm season



Actual Sediment Volumes

- 2009-10 Storm Season Sediment Volumes from Debris Basin Cleanouts

Chatsworth	22,500 CY	Sierra Madre/Arcadia	25,800 CY
Glendale	313,700 CY	San Gabriel Valley (Other)	41,300 CY
La Canada Flintridge	407,000 CY	Sylmar	105,200 CY
La Crescenta	294,800 CY	Tujunga	86,500 CY
Santa Clara River Areas	11,500 CY		
Total: 1,300,000 CY			

* Many of the debris basins in the Station Fire area received 50 to 90% of the std. design volume during the Feb. 6 storm



Anticipated Sediment Volumes

- In Debris Basins thru 2013-14 Storm Season

Chatsworth	51,000 CY	Sierra Madre/Arcadia	58,000 CY
Glendale	941,000 CY	San Gabriel Valley (Other)	15,000 CY
La Canada Flintridge	1,220,000 CY	Sylmar	237,000 CY
La Crescenta	884,000 CY	Tujunga	260,000 CY
Santa Clara River Areas	16,000 CY		

Total: 3,680,000 CY

- In Reservoirs

Big Tujunga	6,900,000 CY	Morris	836,000 CY
Cogswell	3,300,000 CY	Pacoima	2,600,000 CY
Devils Gate	2,100,000 CY		

Total: 15,750,000 CY

