

**Table 7.8.4-2. Mean Annual Sediment Delivery to Napa River at Soda Creek (1994-2004)**

Source	Estimated Mean Annual Delivery Rate (metric tons/yr)
<b>Land areas upstream of dams</b> (fine sediment discharged from reservoirs)	
▪ Natural Processes	7,000
▪ Human Actions	11,000
<b>Land areas downstream of dams</b>	
▪ Natural Processes:	92,000
▪ Human Actions:	
○ Channel incision and associated bank erosion	37,000
○ Road-related sediment delivery (all processes)	55,000
○ Surface erosion associated with vineyards and/or livestock grazing	37,000
○ Gullies and shallow landslides associated with vineyards, and/or intensive historical grazing	30,000
○ Urban stormwater runoff and wastewater discharges	2,500
<b>TOTAL</b>	<b>272,000</b>
<p>Notes: Drainage area for Napa River at Soda Creek = 584 km<sup>2</sup>. Estimates above do not include sediment deposited and retained in tributary reservoirs, which includes all gravel and sand, and most of the finer sediment input to channels located upstream of the reservoirs. Approximately 104,000 metric tons per year of sediment are deposited in tributary reservoirs, 48,000 metric tons per year of which is derived from natural processes (Above estimates are rounded to the nearest thousand).</p>	