

<b>Acres of Disturbed Areas Restored, Enhanced or Created</b>	
Latest Revision: <i>February 24, 2014</i>	Updated By: <i>Brian Strachan (EI)</i>
<b>1.0 Introduction</b>	
<b>1.1 Description</b>	
<p>The Acres of Disturbed Area Restored, Enhanced or Created TMDL PM tracks the total acres of land in the Forested Uplands with compacted soil, disturbed vegetation and/or impacted hydrology that is restored, enhanced or created each year. Disturbed areas include areas tracked as soft coverage by the EIP PM Impervious Coverage Retired. This PM does not track actions to reduce stormwater runoff on forest roads. Forest roads are tracked using the Miles of Roads Treated, Miles of Roads Inspected and Maintained and Miles of Roads Created TMDL PMs.</p>	
<b>1.2 Relevance to the Lake Tahoe TMDL</b>	
<p>Areas with moderately compacted soil, disturbed vegetation and/or impacted hydrology (ski runs/recreational areas) represent roughly 13% of the total fine sediment particle loading to Lake Tahoe generated in the Forested Uplands. Efforts to restore these disturbed areas increases stormwater infiltration and reduces pollutant loading to surface waters. Reducing pollutant loading in stormwater runoff improves the quality of water flowing in streams and slows clarity loss in Lake Tahoe. These disturbed areas present the second greatest opportunity to reduce fine sediment particle loading from the Forested Uplands, second only to forest roads. While disturbed areas represent a larger area than roads, they produce less fine sediment particle loads than roads on a per acre basis.</p>	
<b>1.3 EIP Reporting Relationship</b>	
<p>The following EIP PMs track and report a similar set of data:</p> <ul style="list-style-type: none"> <li>▪ Impervious Coverage Retired</li> </ul>	
<b>2.0 Reporting Criteria</b>	
<b>2.1 Subcategories</b>	
<p><i>Performance measures are broken down into subcategories to allow for data aggregation and greater reporting detail. Subcategory names are shown in <b>bold</b>, followed by the options that can be selected for the subcategory and a brief description</i></p>	
<p><b>Land Ownership</b>            USFS LTBMU, CA Tahoe Conservancy, CA State Parks, NV State Lands, Heavenly, Homewood, Diamond Peak, Urban Jurisdictions</p> <p>This subcategory differentiates between land ownership in the Forested Uplands to allow separate tracking of efforts from different land owners. The above list is not comprehensive.</p>	
<p><b>Action Type</b>            Restoration, Enhancement, Creation</p> <p>This subcategory tracks whether the disturbed acreage was restored, enhanced or created, allowing for separate tracking of reductions or additions to disturbed area in the Forested Uplands.</p>	
<b>2.2 Data Attributes</b>	
<p><i>In addition to the subcategories described above, the following project-level data attributes are needed to support the reporting of TMDL PM accomplishments</i></p> <ul style="list-style-type: none"> <li>▪ Project Name</li> <li>▪ Project Description</li> <li>▪ Project Status</li> <li>▪ Project Contact/Lead</li> <li>▪ Implementing Partners</li> <li>▪ Project Location (subwatershed, county, GPS coordinates – if available)</li> </ul>	
<b>3.0 Key Definitions</b>	
<p><b>Disturbed Area</b> - Disturbed areas are large areas in the forested uplands in which soil, hydrologic function and/or vegetation has been degraded by development or operations undertaken by the property owner or other users. This does not include SEZs or roads. Examples of Disturbed Areas include areas defined as soft coverage by TRPA as well as ski runs, staging areas and landings.</p>	
<p><b>Disturbed Area Restoration</b> - Disturbed areas are considered restored when soil nutrient cycling, hydrologic function and biotic integrity are reestablished to levels similar to pre-disturbance conditions.</p>	
<p><b>Disturbed Area Enhancement</b> - Disturbed areas are considered enhanced when erosion and surface runoff has been minimized. Enhancement actions include application of mulch and/or drainage improvements. Enhancement is differentiated from restoration in that treatments are intended to temporarily reduce erosion potential rather than to permanently reestablish soil, hydrologic and biotic function.</p>	
<p><b>Disturbed Area Creation</b> - Disturbed areas are considered created when soil and hydrologic function have been reduced or</p>	

degraded, thereby increasing the potential for increased erosion and/or surface runoff. This does not include the creation of roads.

**Soft Coverage** - Compacted areas without structures so used before February 10, 1972, for such uses as for the parking of cars and heavy pedestrian traffic that the soil is compacted so as to prevent substantial infiltration. A structure shall not be considered as coverage if it permits at least 75 percent of normal precipitation directly to reach the ground and permits growth of vegetation on the approved species list (*TRPA Regional Plan for the Lake Tahoe Basin: Code of Ordinances*).

#### 4.0 Reporting Display

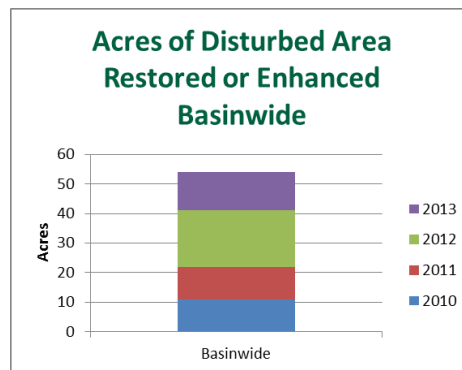
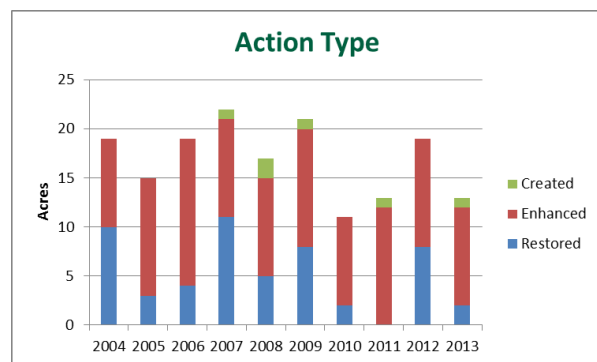
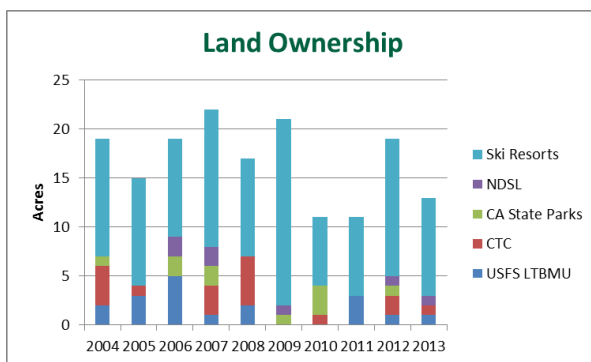
##### 4.1 Targets

*Soft targets are used to display TMDL PM results. Soft targets are incorporated into data charts as a performance range on the y-axis. Soft targets can be defined for annual or longer term performance*

There are no defined basin-wide targets for the Acres of Disturbed Area Restored, Enhanced or Created TMDL PM

##### 4.2 Potential Data Charts

*The charts below are potential displays for the Acres of Disturbed Area Restored, Enhanced or Created TMDL PM. These charts enable a comparison of different land ownership and action types, as well as an understanding of the trend in Acres of Disturbed Area Restored, Enhanced or Created over time. **The data in the charts below is hypothetical.***



#### 5.0 Notes

*This section contains additional information that would be useful to TMDL Program Managers or project implementers*

- The USFS LTBMU will generally report all information for this PM under the EIP for the Impervious Coverage Retired PM.
- Homewood is concerned that ski runs may not actually be disturbed per the definition of Disturbed Area.
- Homewood does very little work on their ski runs on an annual basis. Implementation activities include general maintenance such as vegetation cut backs. This does not qualify as an action to be tracked by this PM.