City of Colton
City Tree Management Master Plan

Consultant:

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The City of Colton's Urban Forest Vision

1. Take Care of Colton's Existing Trees;

2. Select, Plant and Care for Additional Trees;

3. Engage the Colton Community;

4. Align with Colton's Priorities and Optimize Resources

Gaining Benefits From Colton Trees

- **Inspire Healthier Communities**

- **Beautify Communities**

- **Provide   Shade & Cooling- slowing down the**
  Heat island effect

- **Filter Air Contaminants**

  - **Capture and Store Greenhouse Gases**

    - **Collect Water & Storm Runoff**

      - **Save Energy**

- **Increase Retail Business**

      - **Increase Property Value**

    - **Reduce Sound & Noise**

Colton's Tree Canopy Assessment Results

Tree Canopy	6.01%	+/- 1.06%
Grass, Parks, Lawns & Shrubs	16.8%	+/- 1.67%
Water/Riverbed	.6%	+/- .35%
Streets, Highways, Sidewalks	24.6%	+/- 1.93%
Building/Roof	12.2%	+/- 1.47%
Soil + Bare Ground	37.5%	+/- 2.17%

Air Quality Benefits From Colton's Tree Canopy

Air Quality Improvement (Annual)

	Benefit Description	Amount Removed	Value (SE)
Air Contamination Removed	Ozone (O_3)	15.30 Tons	$2,142 ($379)
	Particulate Matter – PM 2.5	1,487.33 Pounds	$4,428 ($784)
	-- PM 10	5.13 Tons	$1,555 ($275)
	Sulfur Dioxide (SOx)	1,936.72 Pounds	$7 ($1)
	Nitrogen Dioxide (NOx)	1.54 Ton	$41 ($7)
	Carbon Monoxide (CO)	563.62 Pounds	$24 ($4)
			Total: $8,197
Carbon Dioxide Removed	Annually Sequester (CO_2)	3,116.24 Tons	$112,681 ($19,945)
		Annual Benefit Total:	$120,879 ($21,395)
	Cumulative CO_2 Storage	78,570 Tons	$2,841,045 ($502,867)

Tree Selection Criteria:

1. Colton's Weather: Sun, Rain & Water

2. Hardiness to Climate

3. Tree Height and Canopy Spread

4. Location (e.g., Park, Street, Home)

5. Insect & Pathogen Resistant

6. Community Beautification

Engage the Colton Community

1. **Thrive:** Trees are carefully planted and cared for;

2. **Protect:** Trees are protected by holistic best management practices;

3. **Nurture:** Our community is devoted to the trees in the urban forest;

4. **Connect:** Trees connect our community, streets, shopping, parks, and open spaces;

5. **Be Resilient:** Trees are rooted in the larger ecosystem;

6. **Be Diverse:** Our forest is comprised of multiple species and different age groups;

7. **Be Valued:** Colton's trees are recognized as essential to our community well-being;

Align with Colton's Priorities and Optimize Resources

1. Align with Colton's General Plan and Ordinances

2. Support Colton's governance (e.g., Planning Commission)

3. Augment Colton's 'Cleaner Greener Community' initiatives

4. Driven by engagement and dialogue with citizens and business

5. Deliver value across the community over the near-term and long-term

6. Focus on creating healthy trees and resilient ecosystems

7. Supports public health and safety

8. Results in co-benefits in electricity, water, wastewater, & storm-water efficiency

9. Incorporates tree- and urban forest-Best Management Practices

Community Summary & Recommendations

1. Improve Colton's urban forest by increasing the number of trees, tree canopy, tree species diversity, and strengthen the management, maintenance and stewardship of Colton's trees

2. Integrate Colton's Urban Forest Management Master Plan with broader City-wide planning, storm water management, waste water management, public health, transportation, and sustainability initiatives;

3. Engage the community and promote Colton's trees to support the Master Plan and increase public appreciation of the wide-spectrum of aesthetic, energy and water conservation, health, business, and property value benefits from public and private trees.
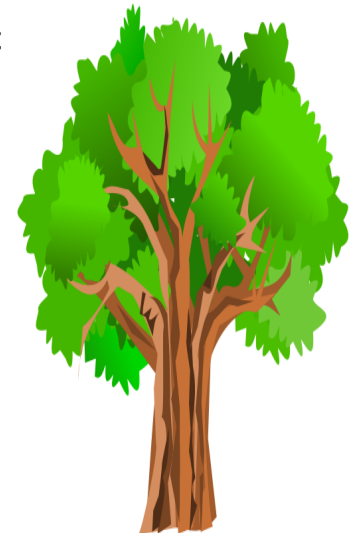
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