

Playground Shading Options



Discussion Topics

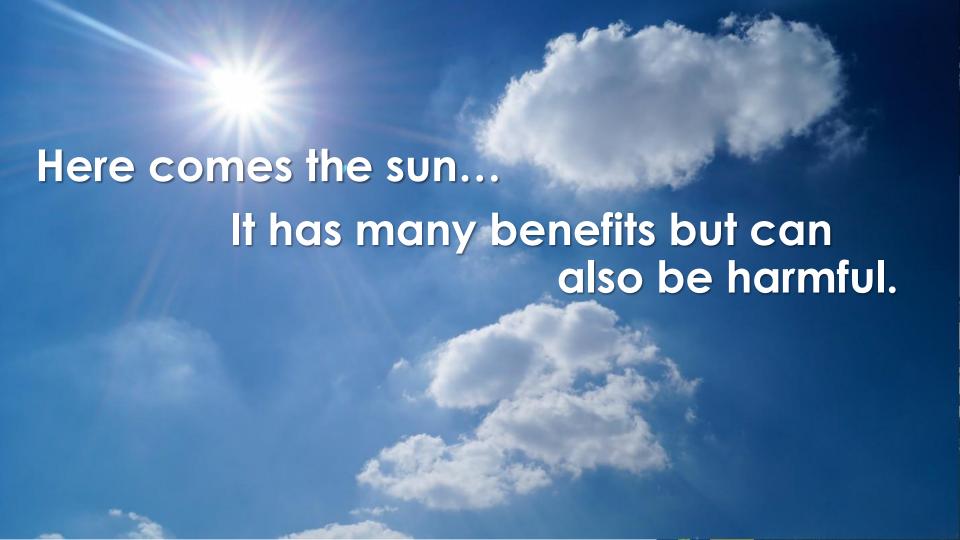
Playgrounds & Shade:

- 🤏 Sun effects & Corona's portfolio
- Best practices & community desires
- 🧩 Various strategies

Seeking Recommendations on:

- 🧩 Coverage levels & shade types
- 🤼 Implementation timeline
- 🤼 Future guidelines





Negative Effects



- Eye Damage
- Skin Damage
- Heat Illness





- Cracking
- Fading
- Shortens Useful Life

A Tale of Two Sun Exposures





Mean Monthly and Annual Temperatures 1949 - 2006

Location	Average Max.	Average Min.	Average	High	Average Max.	Days Over
Austin, TX	79.0°	58.1°	68.6°	110°	71.5°	112
Dallas, TX	76.7°	56.4°	66.6°	112°	69.8°	102
Las Vegas, NV	79.8°	54.4°	67.1°	117°	70.0°	134
Los Angeles, CA	74.9°	56.6°	65.8°	112°	68.9°	24
Phoenix, AZ	85.9°	59.9°	72.9°	122°	76.9°	168
Riverside, CA	78.9°	50.4°	64.7°	117°	66.7°	95
San Diego, CA	70.5°	57.2°	63.9°	111°	67.2°	3

Western Regional Climate Center website:

https://wrcc.dri.edu/Climate/comp table show.php?stype=temp means

Corona's Playgrounds

Full Shade	Partial Shade	Full Sun	
Shade Structure	Large Canopy / Established Trees	No Structures or Trees	
0	11	18	
0%	38%	62%	

Best Practices & Community Goals

Best Practices – S.A.F.E. Playgrounds

National Program for Playground Safety



Appropriate Environments:

- Plan for Child Development Characteristics
- Offer Suitable Environmental Conditions
- Have Inclusive Spaces
- Provide Nature-Based Outdoor Environments

Best Practices – Sun Exposure

Questions to Ask	If Yes, Potential Mitigation		
Is sun exposure sufficient to heat exposed bare metal slides, platforms, steps and surfacing enough to burn children?	Bare metal slides, platforms and steps should be shaded or located out of direct sun.		
	Provide warnings that equipment and surfacing exposed to intense sun can burn.		
Will children be exposed to the sun during the most intense part of the day?	Consider shading the playground or providing shaded areas nearby.		

Handbook for Public Playground Safety, 2010 Edition U.S. Consumer Product Safety Commission

Strategic Plan Goals



3. Sound Infrastructure

Sustain high quality service delivery by investing in public infrastructure, including parks, buildings, equipment, roads, and technology.

- Unified vision for enhancement, maintenance and expansion of parks
- Percent of residents rating quality of public parks as good or excellent
- Development of Parks and Recreation Master Plan



4. Safe Community

Protect our quality of life by ensuring the community is safe and clean.

- Enhance the experience of residents, business owners and visitors
- Rating overall appearance of Corona as good or excellent
- Total number of trees in City owned parks and rights-of-way

Community Desires

Nice but no shade?

Hope you make some shade!

Please add shade tarps to these beautiful playgrounds!

Shade, hot or heat

were used

249 times

in 249 survey responses on Lincoln Park

huge sail over the entire playground?

Can we please have a

How about adding shade so these parks are actually useable.

> Where is the cover for hot sunny days?

Any shade planned this time?

But no shade? So it can be used for only a few months out of the year. Shade is a must.

This is so awesome. Please incorporate shade!!

Why is there never any shade at playgrounds!?!

This is so awesome. We

do need more shade 🙏

It's nice to have a new park but most parks in Eastvale and Norco have shading over the equipment. Why can't we have this?

> Is there a way to run a fundraiser for shade?

> > Looks great! Just needs some shade and some benches around the park.

Why is it that almost all parks have hardly any shade over the playgrounds area?? 😠

Coverage and Cost

Shade Options







Shade Structures

- Artificial materials
- Increased cost
- Full / partial coverage options
- Maintenance / vandalism concerns
- Replacement costs

Trees

- Natural esthetic
- Lower cost
- Environmental benefits
- Reduced temperatures
- Not most-effective coverage
- Leaves and debris
- Urban Forest Master Plan

Combination / Flexible

- Balances natural / artificial appearance
- Scalable
- Not full coverage
- Target specific areas
- Overall cooling effect for spectators, too

Shade Structure Only



Large, established oak trees





Size: 3,850 - 6,500 sf

Est. Cost: \$85,000 - \$235,000

Cost / SF: \$22 - \$40; \$33 average

Trees Only









48" Box: \$5,000 / tree

84" Box: \$20,000 / tree

Est. Cost: \$10,000-\$80,000

Combination / Flexible Option



Lincoln Park

Shade Structures: \$30,000

Structure Sizes: 2 - 14' x 14'

Est. Tree Cost: \$20,000 - \$80,000



Santana Park

Shade Structures: \$108,000

Structure Sizes: 50' x 32' x 48' x 37'

14' x 14'

Est. Tree Cost: \$10,000 - \$40,000

Moving Forward

Options for Consideration

Cost Summary & Discussion



Park	Playground Size (SF)	Structure Only	Trees Only	Combination
Lincoln	6,440	\$235,000	\$20,000 - \$80,000	\$50,000 - \$110,000
Village	3,860	\$153,000	\$20,000 - \$80,000	
Mountain Gate	3,994	\$85,000	\$10,000 - \$40,000	
Santana	6,320	~\$250,000- \$300,000	\$20,000 - \$80,000	\$128,000 - \$148,000
Total:	20,614	\$723,000 - \$773,000	\$70,000 - \$280,000	\$178,000 - \$258,000

Discussion

Let's Talk!

Timeline

- 🤗 No immediate action as playground equipment is replaced
- 🤏 Low Impact: 3 per year for 10 years
- Moderate Impact: 5-6 per year for 5 years
- 风 Aggressive Impact: 10 per year for 3 years

Potential Policy Recommendations

- 🍀 Upcoming Park Master Plan
- 🤗 Preferred types of shade
- 🦩 Levels of coverage
- 🤼 Budget

Next Steps

Formalize Recommendation

Develop Budget

Present to Committee of the Whole

Adopt Policy and Request Appropriation

QUESTIONS?





951-817-5880



Tracy.Martin@CoronaCA.gov



www.CoronaCA.gov



www.CoronaCA.gov













