



**green  
our  
planet**

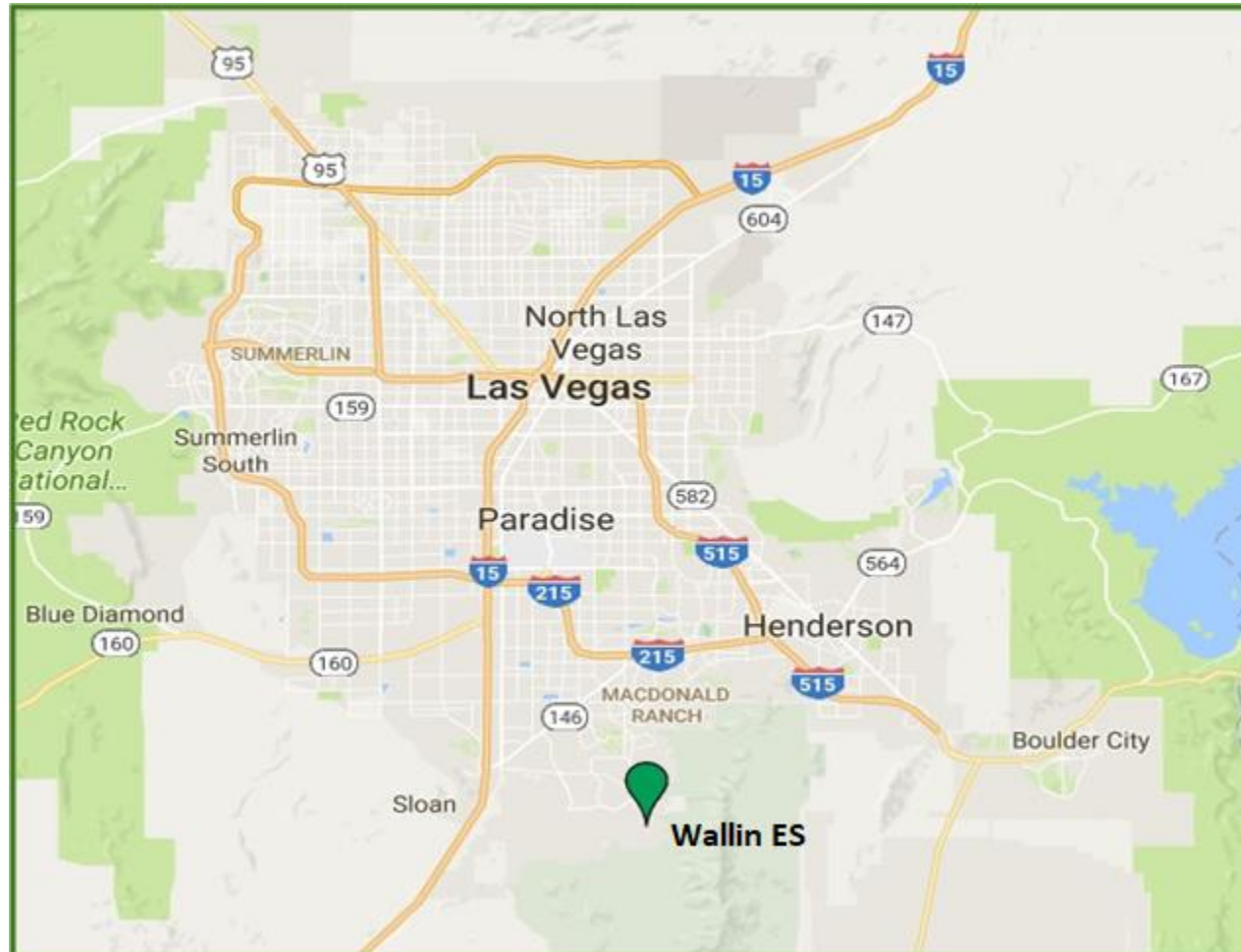
**Creators of  
America's Largest  
School Garden  
Program**

# Green Our Planet's Mission

Founded by Ciara Byrne and Kim MacQuarrie in 2013, Green Our Planet is a 501(c)3 nonprofit conservation organization that runs the largest and one of the most comprehensive STEM (science, technology, engineering, and math) school garden programs in the United States.

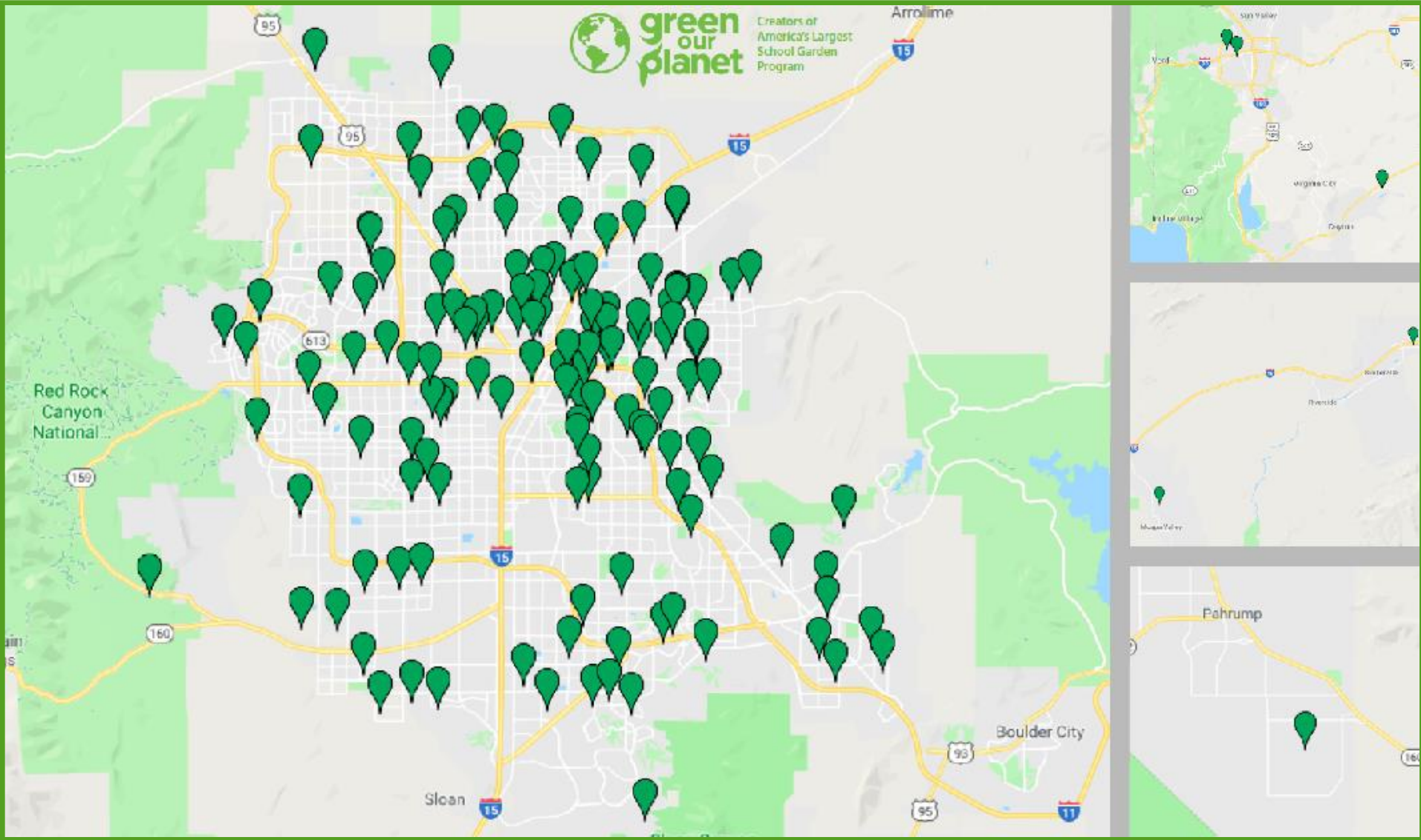
The program's mission is to increase student academic performance in STEM subjects as well as to conserve and protect the environment through project-based STEM education, which includes nutrition, financial literacy, and conservation education in PreK-12 schools.

# 2013: Installed First School Garden



# 2019: Largest school garden program in the US

160+ gardens serving 128,000+ students



# Why School Gardens?



# Green Our Planet School Gardens Offer Solutions

- ❖ **Improve student academic performance**

In a comprehensive review of 20 years of literature on school garden programs:

- ❖ 93% of the studies reported improved student performance in science
- ❖ 80% saw improvement in math
- ❖ 72% noted improvement in language arts

(Williams and Scott Dixon, 2013)

- ❖ **Increase children's vegetable consumption and variety of vegetables eaten** (Ratcliffe et al. 2011)

- ❖ **Instill in students a lasting respect for nature**

(Lohr and Pearson-Mims 2005)



# Our Goals

- ❖ Increase student academic achievement in STEM education
- ❖ Improve student health
- ❖ Increase community engagement
- ❖ Educate the next generation of conservationists





# Green Our Planet STEM Curricula

Providing Resources

## Outdoor Garden



KINDERGARTEN STEM LESSONS

*Care Takers*



GRADE 1 STEM LESSONS

*Seeds*



GRADE 2 STEM LESSONS

*Insects*



GRADE 3 STEM LESSONS

*Soil & Composting*



GRADE 4 STEM LESSONS

*Nutrition & Native Plants*



GRADE 5 STEM LESSONS

*Farm-preneurs*

## Hydroponics



*Seeds & Cuttings*



*Plant Parts*



*Pollination*



*Life Cycles & Environments*



*System Engineers*

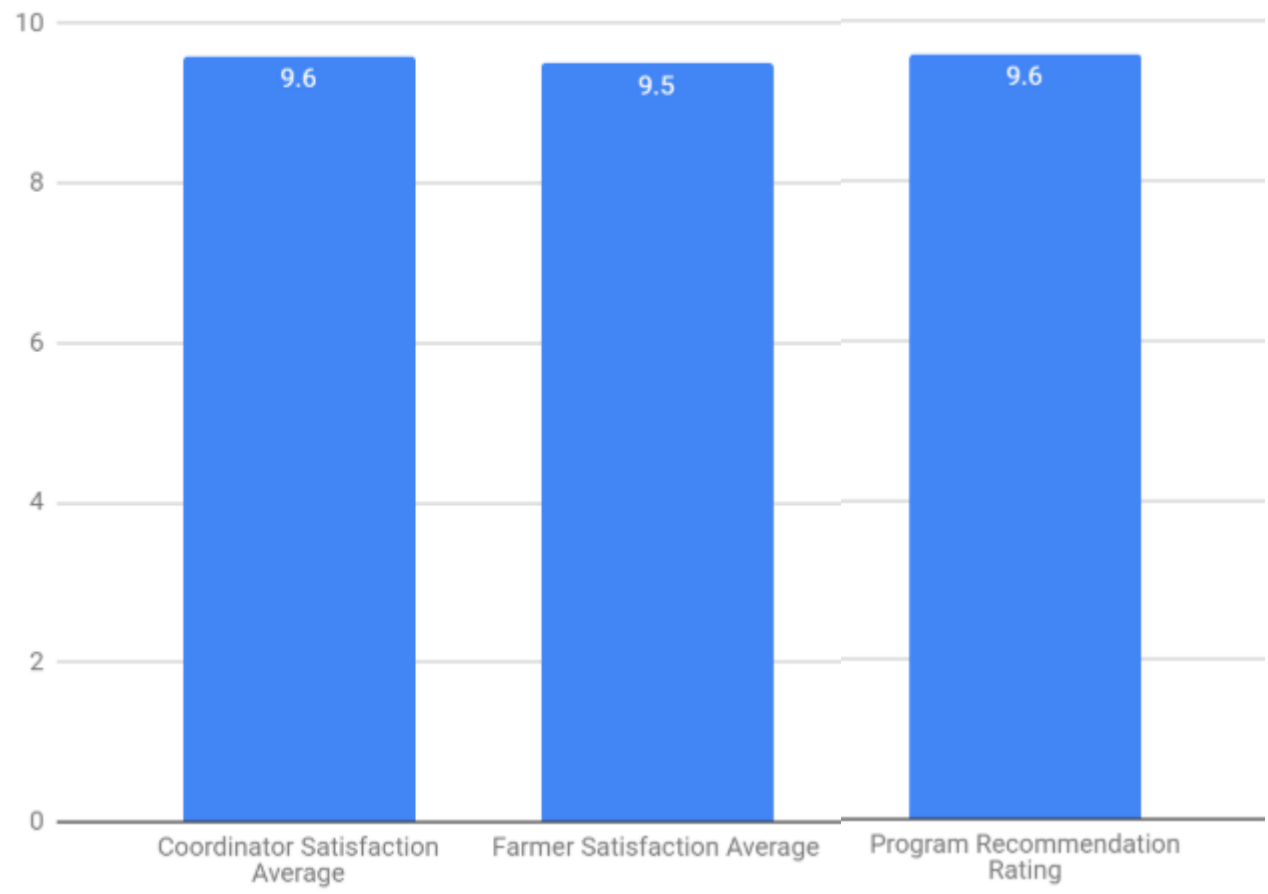


*Hydroponic Entrepreneurs*

# Mid-year Program Satisfaction Survey

Survey sent to all principals and garden team leads working with Green Our Planet

Overall Rating Averages



# Over 50 Sponsors

After School All Stars  
Alice C Tyler Perpetual Trust  
All in Web Pro  
Alpha Landscapes  
American Honda Foundation  
Bank of Nevada  
Boyd Gaming  
Brees Foundation  
Brownstein, Hyatt, Farber, Schreck  
Café de Paraiso  
Owen and Marty Carver Foundation  
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City of Las Vegas  
Consumer Technology Association  
(CTA)  
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CPC, Inc  
Diamond Resorts  
Focus Property Group

Fruits & Roots  
Get Fresh Sales  
Honey Salt  
Jamba Juice  
Jameson Foundation  
JBA Consulting  
Junior League of Las Vegas  
KB Home  
Keep Las Vegas Beautiful  
Ken MacDonald (NewFields)  
Ken McDonald  
KJS Family Foundation  
Ladies Who Dine LV  
Landwell  
Logistical Solutions  
Lowe's  
Los Vaqueros  
Mandalay Bay  
Marty & Owen Carver Foundation  
Mentor's Foundation

Nevada Energy  
Norgren Engineering  
NOVA Geotechnical Services  
Nevada State Bank  
Pardee Homes  
Pavestone  
Pomeroy  
Public Education Foundation  
Las Vegas Sands Corporation  
Santa Fe  
Stations Casinos  
Sunstate Landscaping  
The Grey Foundation  
Tronox  
Vegetation  
Wells Fargo  
Whole Foods Market  
Whole Kids Foundation  
Wynn Resorts of Las Vegas  
YWS Design & Architecture



University of Nevada  
Cooperative Extension  
Clark County





**THANK YOU!**