

USU Extension Sustainability Permaculture Initiative



2021 IMPACT REPORT

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 **25** Volunteers completed
121 service hours

 **90**
Plants donated to the garden, valued at
\$735.27

 **2** Peer-reviewed publications

 **6** Permaculture workshops

 **3** Ecological landscaping tours

 **1** Presentation to the Tribal Natural Resource Scholars Program

 **1** Graywater presentation

 **1** City council presentation

 **2** UCC AmeriCorps members

 **11** Community organizations in collaboration

 **57** New meetup members

 **1,350** AmeriCorps hours will be served

LOGAN

676.05 LBS
Donated

Economic value
\$4,042.73



Total garden seed gathered for community donation
\$196.74


Plant and seed donations to the garden, valued at
\$932.01

MOAB

37.27 LBS
Donated

Economic value
\$133.37


Seeds sown in Moab community for estimated
30,000-LB
potato harvest to families in need


Permaculture Fridays social media reach
37,383

PERMACULTURE
FACT SHEET

 **984**
Downloads

by
147
different institutions in

78
countries

extensionsustainability.usu.edu



Extension
UtahStateUniversity



PERMACULTURE VIDEOS IN 2021



TITLE	LENGTH	NEW VIEWS	NEW LIKES
Moab Native Bee Habitat	1:17	57	3
Brush Mineral Structures	15:18	28	4
USU Moab Permaculture Garden	1:13	59	1
Happy Earth Day From USU	3:47	20	0

ADDITIONAL VIDEOS CREATED THROUGH THE USU PERMACULTURE INITIATIVE

TITLE	LENGTH	VEIEWS	LIKES
Permaculture Techniques in Moab, UT	13:32	4,615	114
USU Moab Permaculture Garden Tour	8:22	1,497	41
How to Design a Backyard Food Forest	45:22	2,865	87
Gardening in Crisis: An American Norm	58:12	286	9
Sustainable Living	29:50	308	7
How to Harvest Water	1:19:19	334	10
Greywater Use and Regulations in Utah	44:59	463	7
Residential Greywater System in Moab, Utah	3:39	4,689	48
Garden C's: Compost and Cover Crops	49:02	641	21
Uncharismatic Microfauna	59:24	168	5



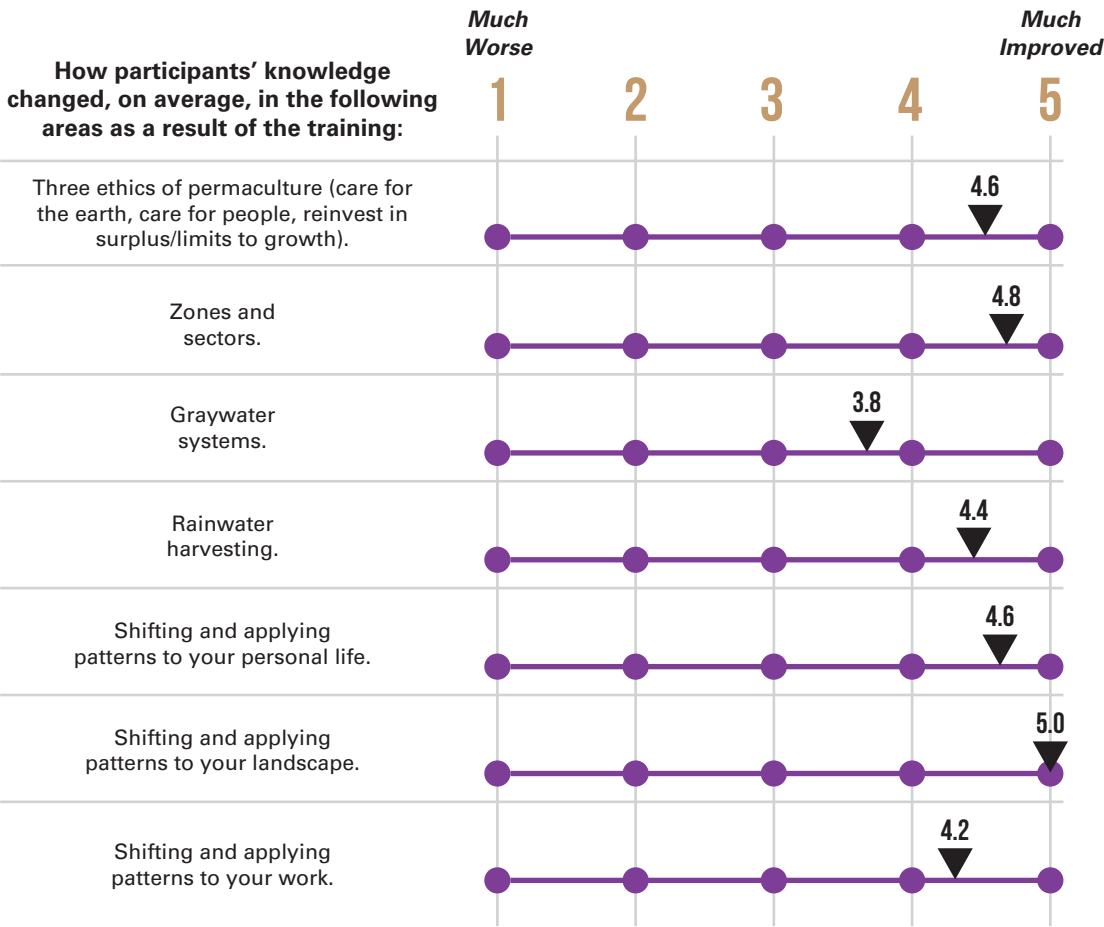
PRODUCE DONATIONS IN 2021

TYPE OF PRODUCE	SNAC	FAMILY PLACE	CHRYSLIS GIRLS HOME	FAMILIES FEEDING FAMILIES PORCH PANTRY	COMMUNITY & VOLUNTEER HARVEST	COMMUNITY TOTAL	VALUE
Amaranth					2 lbs	2 lbs	\$9.98
Apricot	39 lbs	12 lbs	10 lbs		43 lbs	104 lbs	\$383.76
Bell pepper	3.75 lbs			3 lbs		6.75 lbs	\$30.30
Cantaloupe				11.5 lbs		11.5 lbs	\$57.38
Cherry tomato	20.5 lbs		3.25 lbs	6 lbs	56.75 lbs	86.5 lbs	\$327.83
Chard	2 bunches				1 bunch	3 bunches	\$5.37
Chive	22 bunches					22 bunches	\$131.56
Cucumber	7.25 lbs		.75 lb		5.55 lbs	13.55 lbs	\$17.47
Currant					.5 lb	.5 lb	\$1.70
Dill					2 bunches	1 bunches	\$5.98
Elderberry					25.75 lbs	25.75 lbs	\$555.17
Fennel	16 bunches					16 bunches	\$95.68
Garlic	1.5 lbs					1.5 lbs	\$13.03
Green onion					3.5 bunches	3.5 bunches	\$4.16
Kale				8 bunches	5 bunches	13 bunches	\$16.77
Large tomato	36.25 lbs			5.5 lbs	63.25 lbs	105 lbs	\$618.45
Lemon balm	2 bunches				1 bunch	3 bunches	\$26.85
Lettuce	16.25 lbs					16.25 lbs	\$46.96
Mint					15 bunches	15 bunches	\$89.70
Nanking cherry	23.5 lbs				9.5 lbs	33 lbs	\$379.17
Nectarine					12 lbs	12 lbs	\$44.28
Onion					3.5 lbs	3.5 lbs	\$7.31
Parsley	4 bunches					4 bunches	\$23.92
Peach	16.5 lbs	13.5 lbs			43.5 lbs	73.5 lbs	\$234.46
Peppers					2 lbs	2 lbs	\$7.38
Plum	104 lbs					104 lbs	\$383.76
Pole bean	4 lbs				8.5 lbs	12.5 lbs	\$84.83
Potato					.25 lb	.25 lb	\$0.29
Pumpkin					5 lbs	5 lbs	\$11.45
Purslane	6 lbs				17 lbs	23 lbs	\$134.78
Radish	2 bunches				1 bunch	3 bunches	\$3.57
Rhubarb	3.5 lbs				4.75 lbs	8.25 lbs	\$94.79
Sage	4 bunches				2 bunches	6 bunches	\$35.88
Squash	4 lbs			.75 lb	11.25 lbs	16 lbs	\$31.84
Strawberry	.5 lb				1.5 lbs	2 lbs	\$7.98
Tarragon	5 bunches					5 bunches	\$29.90
Tree cherry	7.75 lbs					7.75 lbs	\$89.04

TOTAL VALUE:

\$4,042.73

PERMACULTURE WORKSHOPS IN 2021



PARTICIPANT RESPONSES

"I would like to try to start my own garden."

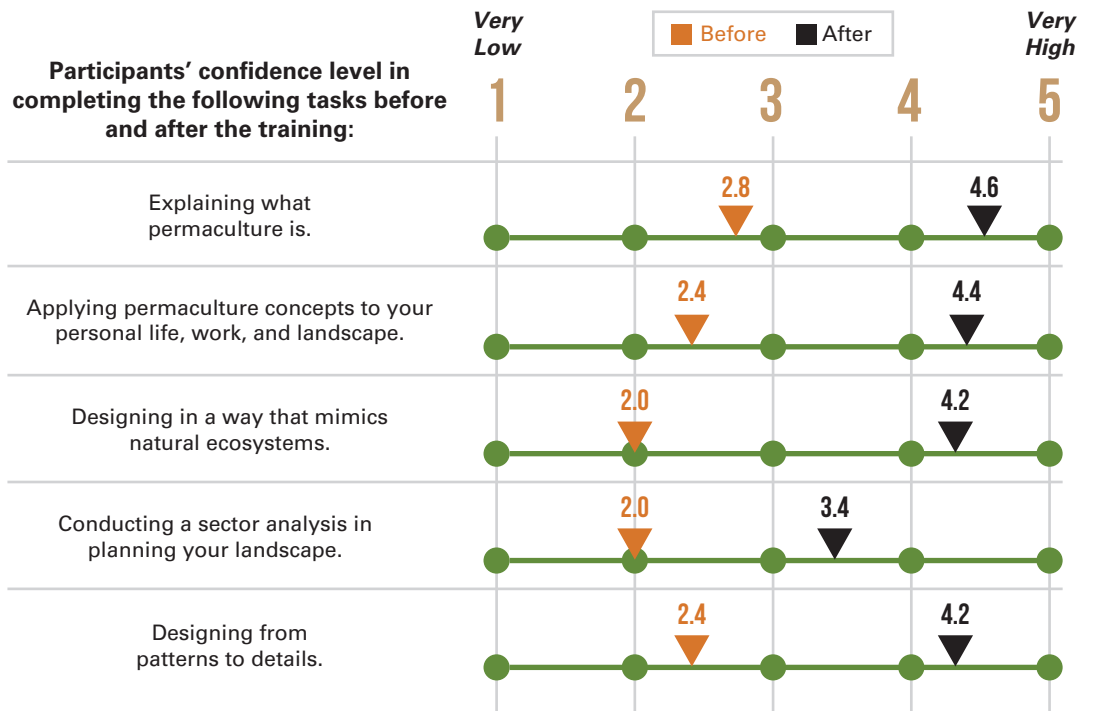
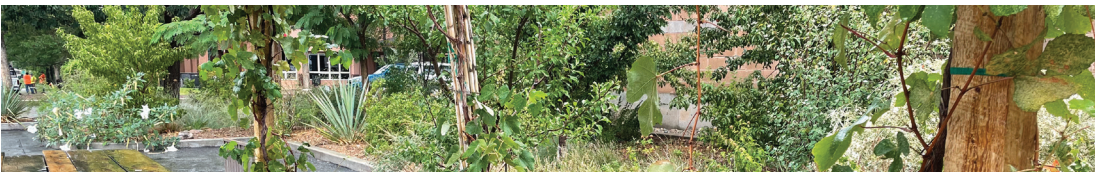
"I'd like to apply these tools and principles towards designing and caring for places."

"I plan to help guide friends and family, eventually clients, in creating ecoscapes good for the planet, the ecosystem, the bees, and their well-being."

"I plan to apply the permaculture ethics and principles to my work, lifestyle, social structures, and decision-making. These ideas offer me a lens to make wholistic, ecologically ethical choices."

"I'd like to design a permaculture food forest of some sort."

"I want to plant things to foster a wonderful environment for pollinators and animals, plus to grow food."



PERMACULTURE WORKSHOPS IN 2021

100% of participants rated the quality of content as exceptional.

100% of participants rated the overall effectiveness of the instructors as exceptional.

Participants were either very likely or likely to implement something they learned within the next year.

PARTICIPANT RESPONSES

“To be more cautious of my surroundings, myself, and how everything is connected. I plan on being more sustainable in my choices and my lifestyle.”

“Loved the rainwater harvesting emphasis in particular. Will be applying pattern/systems thinking to every realm of life. But was inspired by water catchment infrastructure concepts in particular”

“I’m going into the environmental field and though I am undecided as to what focus and career I will take, I have no doubt that applying the principles of permaculture to my work will help immensely. I also hope to one day have a permaculture garden on my own land and seeing a home with a thriving permaculture garden was beyond inspirational!”

PERMACULTURE EVENTS IN 2021

JULY 6

Harvested: cherries, lettuce, radish, purslane

1.25 Volunteer hours

3 Volunteers

SEPT. 1

“Getting to Know the Garden”

USU Farmers Market

25 Participants

SEPT. 1

“Getting to Know the Garden”

QCNR Event

38 Participants

SEPT. 8

Connections course and garden tour

104 Lbs of plums harvested

5 Volunteers

SEPT. 8

“Getting to Know the Garden”

USU Farmers Market

15 Participants

SEPT. 15

“Getting to Know the Garden”

USU Farmers Market

12 Participants

SEPT. 21

Educational tour

NFS 202: Learning About Providing Food in Small Spaces

13 Students

SEPT. 28

Tour and volunteering

Student Organization for Society and Natural Resources

7 Volunteers

SEPT. 29

“Getting to Know the Garden”

USU Farmers Market

15 Participants

OCT. 6

“Pollinator Seed Jars”

USU Farmers Market Volunteer Fair

33 Participants



THANKS TO:

Eric Schiess (plant donation) | GreenHouse Nursery (plant donation) | Becky Yeager (Wildflower pod donation)



Peer-reviewed Publications

McCann, R., Spangler, K. & Millison, A. (2021). Life paths to leading systems-level change: Higher education's pitfalls and potential. *Sustainability & Climate Change* 14(4). <https://doi.org/10.1089/scc.2021.0005>

- CiteScore 1.7

Spangler, K., McCann, R. & Ferguson, R. (2021). (Re-)Defining permaculture: Perspectives of permaculture teachers and practitioners across the United States. *Sustainability*, 13(10). <https://doi.org/10.3390/su13105413>

- Impact Factor: 2.576 (2019); 5-Year Impact Factor: 2.798 (2019)



Invited Presentations and Tours

McCann, R. (2021, October). USU Moab's ecological landscaping In K. Kopp & C. Schaible (Coordinators), *Fall tour*. Utah Water Conservation Forum. (25)

McCann, R. (2021, September). *Moab green infrastructure discussion & permaculture bike tour*. Utah Climate Week. (16)

McCann, R. (2021, July). *Climate change, gratitude, & permaculture: Hope in solutions* [Zoom virtual presentation]. Tribal Natural Resource Scholars Program, Canyonlands Research Center & USU Blanding. (6)

Rogers, O. & McCann, R. (2021, May). *Graywater in Utah* [Online panel presentation]. Utah Water Conservation Forum Spring Conference. (87)

Scott, T., Clyde, R., Mann, R., Dohrenwend, K., & McCann, R. (2021, March). *Pollinator health, water conservation, and perennial edible food and forage systems: A Bee Inspired Gardens Plant ID walk at the Moab Valley Multicultural Center*. A partnership between the USU Permaculture Initiative, Moab Bee Inspired Gardens, Youth Garden Project, Moab Community Gardens, Resiliency Hub, Wildland Scapes, and the Moab Valley Multicultural Center, Moab, UT. (16)

Note from the Moab Valley Multicultural Center: *"Just wanted to follow up and thank you for visiting the other day! I know those kids have a lot of energy but I think a few bee facts stuck with them. Both yesterday and today some of the kids pointed out some bees flying around, we may have identified one correctly as a sweat bee, it was cool!"*

McCann, R. (2021, January). Water: Issues & opportunities [Invited presentation from Mayor Niehaus]. Moab City Council. (Attended by 11 and streamed online at <https://www.youtube.com/c/MoabCityGovernment/videos>.)

Workshops

McCann, R., Hancey, S. & Robalino, N. (2021, September). *Permaculture* [Workshop for interns]. Community Rebuilds, Moab, UT. (12)

McCann, R. & Hancey, S. (2021, May). *Introduction to permaculture: Ethics, principles, zones and sectors* [Workshop for interns]. Community Rebuilds, Moab, UT. (12)