

Sustainability in Prisons Project Fiscal Year 2017 Annual Report



This year focused on growing and enriching programs on *many* fronts. We offered innovations such as: a day-long summit for beekeepers held inside a prison, climate change seminars in the turtle programs, donating reference libraries, educational posters and slides, and taking high-quality photos of every prison in the state. In this photo, for the first time prairie nursery partners were able to visit sites where they could see the plants they work with in full bloom. Photo by Ricky Osborne.



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olympia, washington



Sustainability in Prisons Project

Fiscal Year 2017 Annual Report



WCCW Corrections Officer Kyra Cammarata photographs native prairie flowers in bloom at Wolf Haven; WCCW prairie nursery partners learned more about the plants in the program during site visits to Wolf Haven and Violet Prairie Nursery in May, 2017. Photo by Ricky Osborne.

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Executive Summary: Sustainability in Prisons Project, FY17

Fiscal year 2017 (FY17, July 1, 2016 – June 30, 2017) was another productive year for the [Sustainability in Prisons Project \(SPP\)](#) in Washington State (WA). The full SPP annual report aims to represent all science and sustainability programs in WA prisons. Programs may be initiated and operated by SPP founding partners ([WA Department of Corrections](#) and [The Evergreen State College](#)) or allied organizations. This year the SPP collaboration included **186 programs** and **117 partner** organizations statewide. Our executive summary highlights select new changes, programs, partnerships, and expected developments for fiscal year 18 (July 1, 2017 – June 30, 2018).

SPP Organization Changes: SPP Co-Director, [Steve Sinclair](#) was appointed Secretary for WA Department of Corrections (WA Corrections). Despite new responsibilities, Steve maintained his position as SPP Co-Director.

Emergent vegetation mats (EVM): The EVM program at Stafford Creek Corrections Center (SCCC) expanded to increase production, and received a grant from [U.S. Fish and Wildlife Service](#) (USFWS) for research on the program’s innovative restoration technique.

Beekeeping Summit: A statewide Beekeeping Summit was held at Washington Corrections Center for Women (WCCW). More than 125 corrections staff, incarcerated students, and beekeeping experts discussed best practices and program planning. Since the summit, the number of beekeeping programs in WA prisons jumped from 4 to 14.

Composting Specialist Certification: We partnered with [Tilth Alliance](#), corrections staff, and incarcerated technicians at Monroe Correctional Complex (MCC) to develop a composting program certificate. New educational components include reading assignments, workshops, and quizzes.

Piloting New Curricula: We offered [OR Food Bank’s Seed to Supper](#) gardening and nutrition curriculum at SCCC. Within various conservation programs, we provided readings and facilitated discussions, some using [Northwest Earth Institute](#) discussion course books on topics such as climate change.

NASA Astrobiology Lectures: We formalized a new collaboration with [NASA](#) and [University of Utah](#) to offer astrobiology lectures in prisons. Workshops are planned for prisons in WA, UT, and OH in FY18.

Focus on Social Justice Topics: SPP staff and [Roots of Success’](#) director wrote a chapter and presented at the launch of [EarthEd: Rethinking Education on a Changing Planet, State of the World \(2017\)](#). SPP [summer newsletter](#) was dedicated to Just Sustainability, featuring articles by incarcerated students.

Workshop Series Analysis: Workshop Series Coordinator Liliana Caughman analyzed participant data from 2009-2016. Findings provided evidence for improved environmental attitudes and content knowledge over time and helped identify workshop format and protocols changes.

College Course on SPP: SPP Education and Outreach Manager [Joslyn Rose Trivett](#) taught “**Learning Across Differences: Collaborations in Conservation and Sustainability in Prisons**” for Evergreen’s [Master of Environmental Studies](#) program. SPP was as an effective case study for graduate-level study.

Educational Prairie Site Visit: Incarcerated technicians participating in the [Conservation Nursery program at WCCW](#) traveled off-site to Violet Prairie and [Wolf Haven International](#) to learn from partners about how the plants they produce are used in Salish lowland prairie restoration.

Community Contributions: Prisons made significant contributions to communities and sustainable food production including 14,601 donated items and more than 491,991 lbs. of produce grown for food banks and prison kitchens.

Energy Project Funding: WA Corrections, [Department of Enterprise Services](#), and [Department of Commerce](#) hosted a National Governors' Association workgroup. They discussed project financing needs to meet energy efficiency demands of a low-carbon future; new strategies and collaborations resulted.

Sustainable Purchasing: To further reduce reliance on single-use plastics, prisons replaced plastic bottles from vending machines with recyclable aluminum cans and disposable plastic cutlery with durable sporks or paper spoons.

Photographed 10 Prisons: Evergreen student and professional photographer Ricky Osborne photographed SPP programs in 10 WA prisons. These high quality images help convey program activities and experiences. Photos were only taken with permission of incarcerated participants and staff.

Anticipated Programs Highlights, FY18

SPP has plans for several exciting new programs and partnerships in FY18. Highlights are below.

Program/Project	Partners and facility	Planned outcomes
Domestic sheep	WA Dept. Fish & Wildlife, sheep experts & WA State University at WA State Penitentiary (WSP)	Sheep arrived at WSP in Sept. 2017. Partners will formalize program protocols, roles, and education and training components.
Certifications and academic credit	All facilities and academic partners	One or more partnerships will serve to review and award academic credit for participation in select SPP certification programs.
Woodpecker nest predation research	U.S. Forest Service at Mission Creek (MCCCW) and Cedar Creek Corrections Centers (CCCC)	Program equipment has been purchased and protocol developed. Education and training will occur at CCCC late fall/early winter.
Taylor's checkerspot butterfly program expansion	U.S. Fish & Wildlife Service, WA Dept. Fish & Wildlife, & OR Zoo at MCCCW	Partners received a grant to double capacity of the butterfly captive rearing program. Infrastructure is scheduled to be completed June 2018.
PBS Nature media piece	PBS Nature and WA Dept. Fish & Wildlife	Piece will air to national audience, highlighting the great work taking place in the butterfly program
SPP Strategic Planning	SPP, Advisory Panel, and Evergreen leadership	Functional strategic plan to guide organization development
SPP Service Center at Evergreen	SPP and The Evergreen State College	Increased integration with Evergreen campus activities and programs

Conclusion

We are proud of the shared accomplishments of SPP in FY17. The number of new programs, partnerships, and participants in SPP programs continues to increase and reporting continues to improve. Our collaborative success is thanks to the efforts and expertise of many organizations and individuals working across differences toward shared goals.

Our fruitful collaborations yield successes and challenges. In addition to our shared accomplishments, we have faced challenges such as delays to launching new programs, changing availability of funding, and staffing restrictions. We will continue to maximize productivity by leveraging resources, cultivating partnerships, creating adaptability and resilience, and prioritizing initiatives best aligned with SPP goals. For FY18, we look forward to organizational planning and further program enhancement and development. Together we are creating positive change for people and the environment.

1. Background Information

In response to the dual crises of ecological degradation and mass incarceration, SPP creates innovative programs to reduce the environmental, economic, and human costs of prisons. Scientists, incarcerated people, students, prison staff, and community partners in all 12 WA prisons work together to change lives and make positive contributions to people and the environment. For FY17, SPP included approximately 186 different programs and 117 partner/ally organizations. Working lists of all SPP-WA programs ([Appendix 1](#)) and partners ([Appendix 2](#)) are included to recognize the impressive diversity and number of opportunities offered. [Appendix 3](#) lists common abbreviations.

This report provides information on SPP activities during Washington State fiscal year 2017 (FY17) which includes the period from July 1, 2016 through June 30, 2017. [Washington Department of Corrections](#) (WA Corrections) considers all sustainability initiatives in Washington (WA) prisons to be part of SPP regardless of which partner(s) leads and operates the program. The primary objective of this document is to update all collaborators and stakeholders on SPP-WA activities. This report represents the most complete information available with current reporting mechanisms.

SPP Mission

The Sustainability in Prisons Project (SPP) is a partnership founded by the WA Corrections and [The Evergreen State College](#) (Evergreen). Our mission is to bring environmental education, science, and nature into prisons. We conduct ecological research and conserve biodiversity by forging collaborations with scientists, incarcerated people, prison staff, students, and community partners. Equally important, we help reduce the environmental, economic, and human costs of prisons by inspiring and informing sustainable practices.

SPP Vision

This union of ideas and activities – and people inside and outside prison walls – creates a collaborative, intellectually stimulating environment in which incarcerated people play key roles in conservation, sustainability, and advancing scientific knowledge. We encourage teamwork, mutual respect and a stewardship ethic among individuals who typically have little or no access to nature or opportunities in science and sustainability. Our vision is to broaden access to environmental education and participation in the environmental movement while also providing opportunities for personal transformation, saving natural resources, and tax dollars.

SPP Essential Components

Although each endeavor and corrections institution is unique, our experiences point to five [Essential Components](#) for every SPP program:

1. Partnerships and collaborations with multiple benefits
2. Bringing nature “inside”
3. Engagement and education
4. Safe and sustainable operations
5. Evaluation, dissemination, and tracking

SPP Staff and Organization Chart

The organization chart in Figure 1 includes staff as of July 2017. This chart is limited to core staff at WA Corrections and Evergreen, only hinting at the many corrections staff involved; there are many more corrections, academic, conservation, and community organization staff contributing to program success. During this reporting period, SPP was co-directed by [Dr. Carri LeRoy](#) from Evergreen and [Mr. Steve](#)

[Sinclair](#) from WA Corrections. In FY17, Steve Sinclair was appointed by the governor as Secretary for Washington State Department of Corrections. Despite this significant increase to his responsibilities, Steve decided to maintain his role as SPP Co-Director. He asked Mr. Robert Herzog, WA Corrections Director of Prisons, to increase his support of SPP partners and leadership to fulfill and advance the organization’s mission. SPP leadership meetings are held quarterly.

Program Coordinator positions are staffed by Evergreen graduate students working 19 hours per week. Student-staff are typically recruited from the Evergreen Master of Environmental Studies graduate program and work for two-year terms. Each summer several students complete their work with SPP and train new students to the positions. Three student-staff not named on the chart below worked for SPP during FY17: Conrad Ely, Ricky Johnson, and Allie Denzler. In addition, Christina Faires worked as a Program Enhancement Coordinator for several months.

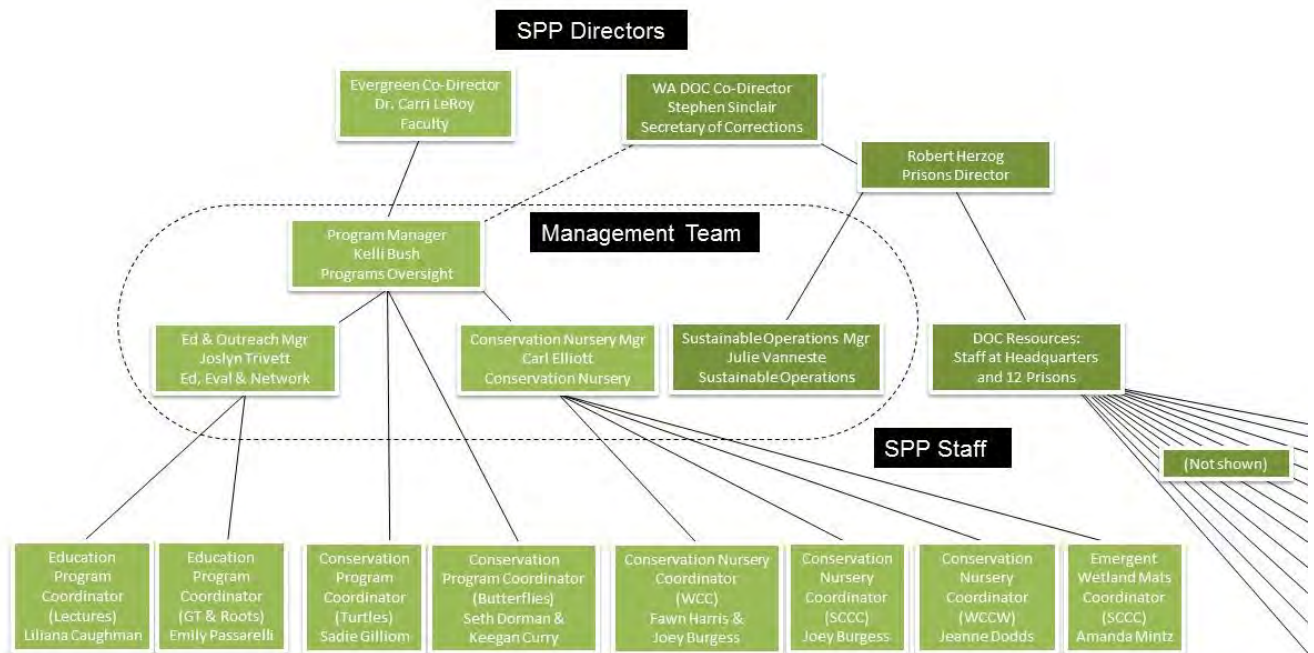


Figure 1. SPP Organizational Chart

In FY17, SPP’s Advisory Panel was comprised of eight participants including SPP’s two co-directors. Panel members represent corrections, conservation, education, and formerly incarcerated partners. The [Advisory Panel](#) was available to staff to provide expertise, creative thinking, advice and assistance with SPP initiatives and program development.



Figure 2. SPP Advisory Panel

Partnerships

Partnerships and collaboration are an essential component of SPP work and nearly every SPP program. We continually work to identify new partners and mutually beneficial programs. A working list of SPP partnerships is included as [Appendix 2](#); during FY17 more than 117 different organizations contributed to SPP programs in WA.



Taylor's checkerspot butterfly program partners have a meeting in the butterfly greenhouse at MCCCW. Photo by Keegan Curry.

Staff Development: training, safety and security

SPP programs aim to improve facility and community safety by offering programs that reduce idleness, provide education (the best-proven means to reduce recidivism), training, and offer a therapeutic, stress-reducing connection with the natural environment. Programs are operated in compliance with WA Corrections safety and security rules, SPP-Evergreen protocols for working in the prison environment, and partner protocols for work with plants and animals. All SPP-Evergreen staff complete required WA Corrections training. Security is a topic included on every staff meeting agenda, which are held every two weeks.

In FY17, two staff members completed an intensive training in Restorative Justice communications. They shared the most salient theory and practice with the SPP-Evergreen team, and have since integrated those elements throughout team communications, and within the workshop series and ecological conservation educational offerings.

2. Budget

This section of the report addresses budget resources available on the Evergreen side of the SPP partnership. WA Corrections dedicates significant personnel time, sustainable operations funding, materials, and contract support for SPP-Evergreen—those critical contributions are not detailed here. While Evergreen does not provide direct funding for SPP, they do make important contributions by providing space, payroll, access to students and faculty, human resource services, grant, foundation, and budget support, and more.

In FY17, SPP had approximately \$558,000 in funds available from 12 sources, including two contracts with WA Corrections. SPP-Evergreen spent the entire amount provided in the two contracts awarded by WA Corrections in FY17. Funds were spent on programs in Washington State in accordance with contract requirements. Other funding sources include state and federal contracts, foundation donations, private donations, and grants. Following a pattern of annual giving, SPP-Evergreen received another generous contribution from an anonymous donor at the [Seattle Foundation](#) in FY17. These funds have been awarded for general SPP initiatives and make a significant difference in the programming, outreach, and education SPP is able to offer.

The percentage of funding provided by individual sources varies from month to month as sources become available or close. SPP staff continuously seek new funding and close out existing grants and contracts. In FY17, SPP Evergreen staff were responsible for stewarding funds from 15 different sources (see Table 1). Regular budget reports were sent to Co-Directors and SPP managers throughout the fiscal year including detailed updates on current and pending grants, contracts, donations, and awards.

Table 1. SPP FY17 Grant and Contract Funding Requests (see [Appendix 3](#) for abbreviations)

Source	Program Area	Funded?	Timeline
JBLM Plants 2015/2016	Conservation Nursery	yes	9/1/15 -8/31/16
CNLM Plants/Seeds 2016	Conservation Nursery	yes	11/1/15 - 12/31/16
WDFW 2016	Butterflies	yes	1/1/16 - 12/31/16
WA DOC FY17	SPP General	yes	7/1/16 -6/30/17
WA DOC Green Track FY17	Roots & beekeeping	yes	7/1/16 - 6/30/17
JBLM Plant Production 2016/2017	Conservation Nursery	yes	9/1/16 - 8/30/17
US Fish & Wildlife Service	Veg Mats	yes	9/1/16 - 8/31/18
CNLM Plug/Seed/EVM Production	Conservation Nursery	yes	11/1/16 -10/31/17
WDFW 2017	Butterflies	yes	1/1/17-12/31/17
NASA/Blue Marble	Astrobiology Education	yes	4/1/17-3/31/18
WA DOC Green Track FY18	Roots and beekeeping	yes	7/1/17 - 6/30/18
WA DOC FY18	SPP General	yes	7/1/17 -6/30/18
US Fish & Wildlife Service	Butterfly Program Expansion	yes	9/1/17-8/31/19
SPP Operating	SPP General	yes	on-going
Foundation Donations	SPP General	yes	until spent

The majority of SPP-WA's budget is dedicated to personnel expenses. A smaller but significant portion goes to program materials such as: supplies, small infrastructure projects, scientific equipment, printed outreach, and prison libraries. For the last category, prison libraries, FY17 expenditures were ~\$3,700 for 177 volumes, supplied to all 12 prisons in Washington State.

3. Environmental Education Programs

Education is integral to SPP's programs; our aim is to make the most of formal and informal opportunities for education and to offer new knowledge and new practice to inmates, staff, and all partners. While our goal is to provide education within all SPP programs, education is the *central* focus in our [Environmental Workshop Series](#) (formerly the Science and Sustainability Lecture Series), an environmental literacy course called [Roots of Success](#), and community college programs related to nature and/or sustainability.

Academic Credit & Certifications

There are few resources available to fund programs offering college credit. SPP has sought creative ways to overcome this limitation while also maintaining low cost programs available to more students, and thus better serving our mission. This year, we continued to improve and standardize SPP-issued certificates. SPP-certificated programs track and recognize academic experience and achievements of ecological conservation technicians and workshop series students. In a new partnership with [Tilth Alliance](#), we developed a composting certification for the world-class program at MCC, recognizing technician's scientific and technical accomplishments, and enhancing and formalizing academic components of the program; we expect the first certificate awards within the upcoming year.

Currently and formerly incarcerated people enrolled as students at The Evergreen State College have successfully received [transfer credit](#) for their work and/or study in an SPP program. SPP-certificated programs could offer low-cost means for adding more college credit within environmental science; pursuing this potential will be a priority in FY18. In FY17, we awarded 137 SPP certificates, 70 of which warrant consideration as transfer credit by Evergreen or other four-year colleges.

Table 2. SPP Certificate Awards, all facilities

Program	Certificate	Awarded FY17	Academic hours	Vocational hours
Environmental Workshop Series	Student of 5 or more lectures	67	7.5	
	Student of 10 or more lectures	32	15	
	Student of 20 or more lectures	16	30	
Conservation Nurseries	Technician	8	30	270
	Specialist	17	60	740
Western Pond Turtle Care	Rehabilitation & Research Specialist	4	160	600
Taylor's Checkerspot Butterfly	Rearing & Research Specialist	1	540	960

SPP facilitates certificate awards from outside organizations in three additional programs:

- Beekeeping apprentices are certified by [Washington State Beekeepers Association](#)
- Sagebrush Technicians are certified by the [Institute of Applied Ecology](#)
- Roots of Success graduates are certified by the organization [Roots of Success](#).

Community College Courses

[Recent legislation](#) changes afforded Washington State community colleges more flexibility in providing two-year Associate degrees to incarcerated students. Their top priorities are adult basic education and vocational education.

In FY17, CCCC, OCC, WCC, and WCCW offered vocational horticultural classes. Those students gain access to classroom instruction and hands-on work in extensive gardens. At CCCC, students receive instruction from [Centralia College](#). Horticulture graduates from that program may be hired as Teaching Assistants who largely oversee the greenhouses, aquaculture program, and vegetable and fruit production areas. At WCC, students with cognitive challenges receive horticulture and literacy education provided by a Centralia College instructor. They also participate in SPP's [conservation nursery](#), producing seeds of a prairie violet essential to rare and endangered butterflies in the region. WCCW's students are provided education and training by [Tacoma Community College](#). These students have access to diverse specialties such as flower arrangements, house plants, and farming. OCC's students receive education from [Peninsula College](#) to gain skills and knowledge working through a variety of stations such as aquaponics, container gardens, and grafting.

Through a partnership with Peninsula College, OCC also offers Green Building and Carpentry, with an emphasis on small-footprint structures that are affordable to build and maintain. Other facilities have vocational building programs that include green building modules.

Environmental Engagement Workshop Series

Since 2009, we have offered more than 210 lectures and workshops in six prisons from 190 scientists and practitioners representing 85 agencies, businesses, and schools. We have recorded 2,293 inmate-students from the two main sites: 1,235 from SCCC and 1,058 from WCCW. Adding known inmate-students from other facilities and years, we estimate at least 2,300 incarcerated students have attended the workshop series. Most of those students have attended multiple presentations.

Overall attendance of the Workshop/Lecture Series for FY17 has been strong. Specific attendance and topics are detailed in Table 3. Fiscal Year 2017 highlights include:

- A new collaboration with [NASA](#) and [University of Utah](#) will bring astrobiology lectures to several prisons in WA, UT, and OH in FY18. In WA, these will be one-time, long program, special events, and we will prioritize facilities without established series to receive the program.
- We analyzed seven years of student survey responses, and results indicated that lectures positively impact both student knowledge of environmental topics and pro-environmental attitudes. Program students informally confirmed the findings, and provided additional input. Combined data prompted program improvements, such as promoting more interactive sessions, and a name change. See [Evaluations](#) for further details.
- Previously this program had been referred to as the Lecture Series and now is called the Environmental Engagement Workshop Series. This change helps clarify the mission of the series and the pedagogical approaches.
- Led by WA Corrections staff, the Sustainability Lecture series at CRCC, was well established.

Table 3. Workshop series attendance statewide, FY17

Workshop Series at Stafford Creek Corrections Center (SCCC)			
Date	Presenter	Topic	Attendance
7/21/2016	Greg Taylor, Evergreen MES	Nuclear Power	62
8/25/2016	Matt DelSesto, The New Garden Society	Urban Agriculture and Environmental Justice	69
9/15/2016	Kerensa Mabwa, Grub	Building Sustainable Community	58
10/20/2016	Faye Peebles, Wolf Haven	Wolves of Washington	66
11/17/2016	Linda Glasier, WA Dept of Ecology	Environmental Justice	74
12/15/2016	Giovanni Galarza, Evergreen	Snakes of the US	56

1/19/2017	Liliana Caughman, SPP	What is Sustainability?	51
2/16/2017	Jeanne Dodds, SPP	Nature Drawing	41
3/16/2017	Peter Robinson, Evergreen	Real Science Mini-series 1	43
4/20/2017	Peter Robinson, Evergreen	Real Science Mini-series 2	61
5/18/2017	Peter Robinson, Evergreen	Real Science Mini-series 3	61
6/15/2017	Cathy Bradley, King County WCC	Washington Conservation and Plant ID	53
Total			695
Workshop Series at Washington Corrections Center for Women (WCCW)			
Date	Presenter	Topic	Attendance
7/5/2016	Kerensa Mabwa, Grub	Building Sustainable Community	44
8/2/2015	Megan McGinnis, Nature School	Composting and Soil Science	37
8/4/2016	Debbie Sturm, James Madison University	Psychology of Sustainability	21
9/2/2016	Rachel White, UW	Engaging Children in Environmental Ed	39
12/6/2016	Faye Peebles, Wolfhaven	Wolves of Washington	39
1/3/2017	Kirk Hafner, South Sound Solar	Solar Energy	26
2/7/2017	Fawn Harris, SPP	Native American Environmentalism	21
3/7/2017	Liliana Caughman, SPP	What is Sustainability?	44
4/4/2017	Sonalini Serpa, St. Martins University	Women and Environmental Justice	24
5/2/2017	Katrina, LOTT Wet Science Center	Wastewater and Conservaation	53
6/6/2017	Laurie Pyne, Olympia Beekeepers Association	Beekeeping	37
Total			385
Workshop Series at Monroe Correctional Complex (MCC)			
Date	Presenter	Topic	Attendance
5/27/2017	Caroline Pew, Highline College	Composting and the Atmosphere	27
Total			27
Workshop Series at Airway Heights Corrections Center (AHCC)			Attendance
8/22/2016	Jeanne Dodds, SPP	Monarch conservation illustration workshop	24
Sustainability Lecture Series at Coyote Ridge Corrections Center (CRCC)			
Date	Presenter	Title/topic	Attendance
5/18/2017	Unknown	Beekeeping	19
10/2017	Steve Ghan, Climate Scientist	Global Warming	7
Unknown	Unknown	Hanford Clean Up	11
2/9/2017	Duane Horton, Geologist	Hydraulic Fracking	13
8/2016	Stacy Moore, Institute for Applied Ecology	Prairie Restoration	unknown
Unknown	Ginger Wireman	Ground Water	unknown
Unknown	Gretchen Graber	Farmscaping for Pollinators I	unknown
Total			50+
Statewide Total			1181+

The series offers three levels of certification recognizing attendance of 5 sessions, 10 sessions, and 20 or more. Level 3 certificates have been successfully recognized as transfer credit for admitted students at Evergreen. Certificates awarded since 2014 and in FY17 are detailed in Table 4.

Table 4. Students Eligible for Lecture Series Certification

Facility	Certificate	Awarded since 2014	Awarded FY17
SCCC	Level 1 – 5 or more lectures	261	41
	Level 2 – 10 or more lectures	116	26
	Level 3 – 20 or more lectures	35	14
WCCW	Level 1 – 5 or more lectures	145	26
	Level 2 – 10 or more lectures	31	6
	Level 3 – 20 or more lectures	7	2
Total		512	115

Roots of Success

Roots of Success is an environmental curriculum developed by Dr. Raquel Pinderhughes, Professor of Urban Studies & Planning at San Francisco State University (more at rootsofsuccess.org). WA Corrections



At the Roots of Success instructor training at WCCW, the instructor candidates were encouraged to ask a lot of questions. Dr. Pinderhughes found this group to be impressively engaged and thoughtful. Photo by Ricky Osborne.

began offering the program in July 2013, and interest and availability of the program has grown steadily since. Staff and inmate responses to the program content have been very positive.

The program is delivered by inmates certified as instructors, a model we have found effective and satisfying among students, instructors, and staff sponsors. We have five incarcerated Roots of Success instructors certified by Dr. Pinderhughes to train and award certification to other program instructors,

known as Master Trainers. They provided six training events during fiscal year 2017—table below.

Table 5. Roots of Success Instructor details, FY17 (see [Appendix 3](#) for abbreviations)

Facility	Number of Instructors Certified	Date of Training
AHCC	14	10/5/2016
CBCC	1	3/28/2017

CRCC	6	1/31/2017
MCCCW	5	4/28/2017
WCCW	10	4/28/2017
WSP	7	7/7/2016
Total Instructor Certified: FY17	43	
Total Instructors Certified: Since Beginning	110	

Since the start of the program in 2013, 1,088 students have received certification for all ten modules of the curriculum, and 122 CI students have been certified for the condensed curriculum. Details for FY17 are provided in the following table.

Table 6. Summary of Roots of Success Graduates FY17 (see [Appendix 3](#) for abbreviations)

Facility	Number of cohorts	Graduates	Instructors	Staff sponsors
AHCC	4	84	Joshua Tucker, Allen Jackson, Daniel Gard	Robert Mackey and Dawnel Southwick
CRCC	2	44	Jonathan Bolden, Julian Reyes, Yoshio White, Eugene Youngblood, Michael Johnson, Ivory Berube	Gena Brock
LCC	2	11	Brian Winters, Johnny Hudson	Shawn Piliponis & Caitlin Ribera
SCCC	2	62	David Duhaime, Grady Mitchell, Cyril Walrond, Carlos Bernardez	Robert Aleksinski & Kelly Peterson
WCCW	2	14	Renee Curtiss and Teresa Settle	Paula Andrew & Shawna Boutwell
WSP	8	53	Michael Oakes, Kieth Parkins, George Whipple	Robert Branscum & Chris McGill
MCC	1	4	Jason Balaski, Jeffrey Foxx	Anne Williams
WCC	1	8	Aro Williams-Walker	Kathryn Shea
Total for all facilities	22	280		
Note: all Roots graduates receive a graduation certificate from Roots of Success.				

Green Track

“Green Track” is the term conceived and coined by WA Corrections leadership to link learning experiences in Sustainability in Prisons Project (SPP)’s programs. The concept is envisioned as linked and tracked opportunities for inmates to build on learning, training, and skills received during participation in a variety of SPP programs which address local and global environmental issues.

This year, we suspended formal work on the Green Track, due to insufficient staffing for program development. However, the general concept has been implemented by prisons that require Roots of Success graduation prior to application for choice sustainability jobs, such as technician positions in beekeeping or a Sustainable Practices Lab. This process is in place at AHCC, CBCC, and WSP’s Sustainable Practices Lab and Green Zone. Also, the term “Green Track” continues to be the position name for the SPP coordinator tracking and supporting Roots of Success and beekeeping certification statewide.

SPP as the Case Study in an Evergreen Master of Environmental Studies Elective

For Fall Quarter, 2016, SPP Education and Outreach Manager Joslyn Rose Trivett taught “**Learning Across Differences: Collaborations in Conservation and Sustainability in Prisons**” for Evergreen’s Masters of Environmental Studies program. The ten-week course centered on SPP as a case study, and integrated topics including restorative justice, racial and cultural elements of environmental education and action, effective collaboration, and American criminal justice past, present, and future. The class was engaging and well received.

Piloting new Curriculum

[OR Food Bank’s Seed to Supper](#) is a gardening curriculum developed to help build food security in local communities. SPP integrated these classes with SCCC’s efforts to donate produce to Coastal Harvest, a local food distribution hub for food banks and pantries. Beginning in April 2017, SPP coordinators presented three classes to 60 inmates from all living units at SCCC. The program has been successful; we plan to continue offering it and hopefully we can expand it to other facilities.



A student describes his thinking during the Seed to Supper class at SCCC. Photo by Ricky Osborne.

SPP received a generous donation to purchase [Northwest Earth Institute](#) discussion course books on several different topics. Each course book includes multiple sessions with readings, facilitation guidelines, and discussion questions. We piloted use of the curriculum at CCCC and LCC with turtle technicians using the course book on climate change. The discussions were meaningful and well-received. We plan to continue offering these discussions and reading materials on other topics and in other facilities.

4. Ecological Conservation Programs

SPP conservation programs represent ambitious collaborations among multiple partners. Each program receives crucial support from a variety of contributors including incarcerated people, corrections staff, students, SPP staff, scientists, and community partners. Program success is dependent on each participant contributing their expertise and time. Programs are designed to maximize benefits for each collaborator by sharing workload and leveraging resources.

Western Pond Turtle Program

The western pond turtle (*Actinemys marmorata*) is a state-listed endangered species and federal species of concern. Led by [Washington Department of Fish and Wildlife](#) (WDFW), partners have been working toward the recovery of western pond turtles since the late 1990s. At the start of recovery efforts, about 150 turtles remained in the wild in Washington.

In 2013, SPP joined the effort to assist with the rehabilitation of western pond turtles afflicted with a recently discovered concern referred to as “shell disease.” Affected turtles require a period of acute care provided by veterinarians. After receiving veterinary care, some turtles are moved to correctional facilities to receive extended, daily care provided by trained incarcerated technicians. As each turtle heals, it can be released back into the wild (Tables 7 & 8) where they are monitored by WDFW.



Turtle program partners discuss plans and paperwork in the Western Pond Turtle Program at CCCC. Photo by Ricky Osborne.

Turtles have been housed at Cedar Creek Corrections Center (CCCC) since 2013 and at Larch Corrections Center (LCC) since December 2015. The new program at Larch began in response to requests for help with the Columbia Gorge turtle population and is modeled on the program at CCCC.

In addition to caring for turtles, technicians raise mealworms as a sustainable food source for turtles, gain useful job skills, learn about a wide variety of sustainability and environmental topics (Table 9) and gain a certificate. Since the program started, 9 certificates have been awarded to technicians (Table 9),

three graduate students have provided program coordination, and five corrections staff have served as liaisons. Community partners for these programs include WDFW, [PAWS Wildlife Rehabilitation Center](#), [Woodland Park Zoo](#) (WPZ), and [Oregon Zoo](#) (OR Zoo).

Table 7. Western Pond Turtle Rehabilitation at CCCC, August 2013 - September 2017

Year	Turtles Received	Turtles Released
2013	8	2
2014 ⁱ	28	28
2015	8 ⁱⁱ	6
2016	9 ⁱⁱⁱ	5
2017	4^{iv}	10
Total	57	51^v
Notes	i Significantly different from reported totals from 2016 report due to missing data which was recently recovered ii 7 of 8 turtles were being re-treated iii One of these was humanely euthanized due to a neurological abnormality iv 3 of 4 turtles were being re-treated v 4 turtles were sent back to PAWs for exams and 1 was euthanized	

Table 8. Western Pond Turtle Rehabilitation at LCC, December 2015- September 2017

Year	Turtles Received	Turtles Released
2015	5	0
2016	11	9
2017	5	12
Total	21	21

Table 9. Western Pond Turtle Program Education FY 17

Session (30-90 minutes)	Number of Sessions	Incarcerated Attendees	WA Corrections Staff Attendees	SPP Staff Attendees
CCCC				
Climate Change (Northwest Earth Institute (NEI) discussion manuals)	4	2	2	5
Science Journal Seminars	7	3	1	1
Each One Teach One science article discussions	5	3	1	1
Interpreting environmental messaging, public speaking workshops	5	4	2	1
Turtle Field Work Field Trip	2	2	3	1
Edible Insect Workshop	1	2	1	1
Resume & Employment Application Practice	2	2	1	1
LCC				
Climate Change (NEI discussion manuals)	1	5	1	1
Science Journal Seminars	4	3	1	1
Each One Teach One science article discussions	2	3	1	1
Resume & Employment Application Practice	1	3	1	1
Total education sessions	34			
Certificates Awarded	Number of Recipients			

Rehabilitation and Research Specialist, over 1,000 hours	4
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Sagebrush Conservation Nursery

Fall 2016, approximately 25,020 Wyoming big sagebrush (*Artemisia tridentate*) and three-tip sagebrush (*Artemisia tripartite*) were delivered from CRCC, concluding the second season of the program. Plants are grown to help restore habitat for the greater sage-grouse with most installed on sites previously burned by wildlife. In Spring 2017, a second nursery site was added to the program. A total of 75,000 seeds were sown in nurseries at CRCC and Washington State Penitentiary.

Program funding is provided primarily by partners with the [Institute for Applied Ecology](#) (IAE) and the [Bureau of Land Management](#) (BLM). The programs in Washington State are part of an impressive, multi-state effort led by IAE including programs in Oregon, Idaho, Nevada, Utah, and Montana prisons. Corrections staff, incarcerated technicians, a local contract employee with IAE and the IAE staff leading the multi-state program, support program coordination, certification, supervision, nursery operations, and education and training.

In FY17 and into FY18 this program has faced significant challenges. Partners made the difficult decision to move all plants from CRCC to WSP July 2017. Further details on the move and crop challenges will be reported in SPP's FY18 annual report. Programs in all participating states are also facing funding challenges. We are hopeful federal funding will be restored so that this mutually beneficial conservation and education work may continue.

Table 10. Sagebrush Program Education and Certification FY17 (see [Appendix 3](#) for abbreviations)

Education Sessions (30-90 minutes)	No. of Sessions	Attendees
WSP		
Journey of a Sagebrush Seed	1	32
Arid plant Adaptations	1	28
Bee Diversity Overview	1	20
Environmental Rhetoric	1	33
Documentary - <i>Chasing Ice</i>	1	26
Farmscaping for Pollinators I	1	10
How to Write a Business Plan	1	23
Thinning Your Sagebrush Crop	1	22
Hardening sagebrush prior to outplanting	1	11
Farmscaping for Pollinators II, Green Zone Design Practicum Indoors	1	9
Total education sessions	10	214
CRCC		
Sagebrush and Greater Sage Grouse	1	
Total education sessions	1	
Certificates Awarded by IAE	No. of recipients	
Level 1	11	
Level 2	4	
Level 3	1	

Prairie Conservation Nursery Programs

Primary funding support for the Prairie Conservation Nurseries comes from [Center for Natural Lands Management](#) (CNLM) and [Joint Base Lewis-McChord](#) (JBLM). Plant materials produced by SPP's prairie conservation nurseries are used by state and federal agencies and conservation organizations including the [U.S. Fish and Wildlife Service](#) (USFW), JBLM, WDFW, [WA Dept. of Natural Resources](#) (DNR), and CNLM. During 2017 we expanded the regions for which we grow plants; our nurseries will now curate and supply plant material from Oregon to southern British Columbia.

Prairie Plant-Plug Production

The SPP nursery sites have an annual combined sowing capacity of 520,000 plugs, and can produce up to 300,000 viable plant-plugs annually. This year, the nursery delivered 294,000 plant plugs of 56 species for Taylor's checkerspot recovery and lowland prairie restoration; see Table 11 for more information.

Cumulatively, the nurseries have delivered more than 2 million plant-plugs since 2009.

Plant-plug production remains a vital component of the regional recovery plan for Taylor's checkerspot butterflies. However, direct seeding has become the *primary* method of habitat restoration. Starting in 2016, the majority of SPP plant-plug production was to supply seed nurseries. As a result of reduced plug production, SPP's nursery site at Shotwell's Landing nursery was closed in the fall of 2017. Plug production was concentrated at SCCC and WCCW; these facilities provide the greatest opportunities for education within the nursery programs.

Table 11. Conservation Nursery Regional Plug Summary, delivered FY17

	# of species	Plants
Total Sown Winter	54	367,839
Total Sown Summer	28	144,599
Total Sown	72	512,438
Total Delivered	56	294,304
Total Requested	72	354,858
Percent Delivered of Requested		82%

Prairie Seed Gardens

SPP cultivated plants for seed at WCC and WCCW. Seed production in a corrections setting has proven successful for species poorly adapted to mechanical agriculture techniques. The seed production gardens at WCC harvested over 8 lbs of early blue violet seed from 3456 sq. ft; their harvest rate was more than three times the harvest rate of other regional seed nurseries. SPP has been so successful at cultivating early blue violet that USFWS has asked us to add seed production for silverspot butterfly (*Speyeria zerene Hippolyta*) recovery, growing early blue violet seed from the Oregon coast. WCCW's nursery was chosen as the site for this effort.

We are now the only source of production for early blue violet in the Western U.S. The continued success of the seed gardens presents an excellent opportunity for WA Corrections to contribute to conservation, and provide ecological education for program technicians.

Emergent Pre-Vegetated Mat (EVM) Production

The EVM program is a research collaboration among CNLM, WDFW, and JBLM which began with the primary objective to restore habitat for the Oregon spotted frog. A two-year grant was provided by the USFWS to help fund the project. Critical funding support has also been provided by JBLM, WA



Mats of established wetland plants grown in SCCC's aquaponic nursery (EVM) are intended to successfully compete with reed canarygrass and provide improved habitat for Oregon spotted frogs. Photo by Amanda Mintz.

Corrections, and SPP Foundation donations. The mats produced in 2017 will be installed in wetlands that have received two years of weed control to limit the spread of invasive reed canary grass. The treatment areas will be monitored for plant establishment and weed suppression over a three-year period. The technical accomplishments of the project thus far bode well for positive results from

this new technique in ecological restoration. The USFWS have been active in finding new regional partners to support the production of mats in the future; these include tribal nations as well as smaller, regional land trusts.

Plantain Programs

Narrow leaf plantain (*Plantago lanceolata*) beds at MCCCW and at LCC provided all the larval food for the Taylor's checkerspot butterfly rearing program at OR Zoo and MCCCW. The turtle and butterfly technicians supplement their work with the cultivation and harvest of plantain leaves during the growing season. LCC staff provided vital support for larval food transportation and logistics for OR Zoo. Additionally, WA Corrections staff supported Oregon Zoo research into plantain nutritional analysis. LCC shipped a total of 13,700 leaves of plantain to the OR Zoo for Taylor's checkerspot rearing in 2017.

Training and Education

SPP's Conservation Nursery Program Coordinators provide frequent guidance and education to inmate technicians. They serve as the primary liaisons between partners, including the WA Corrections staff that supervise and counsel the inmates. In FY17, the students focused on providing unique and relevant education for the programs and their efforts had superb results. The lectures and workshops offered within the prairie conservation nursery programs are detailed in Table 12.

Table 12. Prairie Conservation Nursery Education and Certification, FY17 (see [Appendix 3](#) for abbreviations)

Sessions (30-90 minutes)	Number of Sessions	Attendees
SCCC Conservation Nursery		
Pest control presentation	1	17

Climate change seminar	3	12
PNW flora seminars	4	11
Sowing and species tracking workshop	4	7
Botany basics lecture	2	12
Compost practicum	2	14
Careers in conservation lecture	1	11
Wild seed processing lecture	1	12
Compost lecture	2	12
Recording field data	2	4
Seed ecology of summer germinating species workshop	4	12
Seed ecology of winter germinating species workshop	4	13
Consolidation and tracking workshop	3	4
Weeds of PNW nurseries	2	13
Irrigation workshop	3	7
SCCC CvN sub-total	38	
Seed to Supper	3	60
SCCC EVM		
Aquaponics monitoring and data collection workshop	4	4
Plant I.D. workshop	4	4
Frog morphology workshop	2	4
Wetland ecosystems workshop	2	4
Oregon spotted frog recovery workshop	2	3
Algae in aquaponics workshop	2	3
Koi biology workshop	2	4
Managing the mechanics of the aquaponics system	3	3
Sowing and cultivation workshop	3	4
Seed stratification workshop	2	3
Aquaponics chemistry workshop	3	3
Plant nutrient deficiencies workshop	2	4
SCCC EVM sub-total	31	
WCCW Conservation Nursery		
Basic botany workshop	2	4
Writing and reflecting workshop	2	4
Seed ecology of winter germinating species workshop	2	4
PNW flora seminars	4	4
Plant I.D. and pollinators workshop	1	4
Scarification workshop	1	4
Scientific illustration workshop	2	4
Prairie paper seminar workshop	4	4
Wild seed processing lecture	1	4
Plant illustration workshop	4	4
Pollinator workshop	1	4
Wolf haven field trip	1	3
Prairie plant ecology workshop	8	3

WCCW CvN sub-total	33	
WCC Prairie Seed Garden		
Plant and weed I.D. workshop	4	6
Seed collection workshop	3	8
Seed cleaning and processing workshop	3	8
Botany basics workshop	1	3
Plant defenses workshop	1	3
Restoration ecology workshop	1	3
South Sound prairies workshop	1	6
Irrigation equipment training	3	3
Organic horticulture workshop	4	4
Worm bins workshop	3	4
Insect I.D. workshop	1	4
Cultivation workshop	2	6
WCC Seed sub-total	27	
Total education sessions	132	
Certificates Awarded	Technician 400 hrs	Specialist 800 hrs
SCCC Prairie Conservation Nursery	4	8
SCCC Emergent Vegetated Mats	1	3
WCCW Prairie Conservation Nursery	1	4
WCC Prairie Seed Garden	2	2
Certificate Totals	8	17

Animal Feed Programs

Several prisons raise high quality feed for animals in the care of zoos and SPP programs. A summary of animal feed programs is provided below.

Table 13. SPP programs providing food for captive animals (see [Appendix 3](#) for abbreviations)

Food source	Facilities	Recipients
Mealworms	LCC, CCCC, and SCCC	Western pond turtles and koi in prison facilities; excess from LCC donated to Oregon Zoo
Plantain	LCC	OR Zoo's Taylor's checkerspot rearing program
Plantain & Nectar Plants	MCCCW	Taylor's checkerspot rearing program at MCCCW, in collaboration with OR Zoo
Soldier fly larvae	MCC	Dried larvae donated to Woodland Park Zoo and Western Pond Turtle Programs

Honeybee Programs

Matching interest we have heard from WA Corrections headquarters and multiple prisons, developing and improving beekeeping programs are a priority for SPP-Evergreen staff. These programs provide meaningful education and therapeutic activities for incarcerated and WA Corrections staff beekeepers, contribute to honeybee conservation and restoration, and have the potential to create and contribute related goods (hives, honey, beeswax products) to nearby communities.



Apprentice beekeeper Lonniesha Veasey asks a question during the day-long summit on beekeeping in prisons, hosted by WCCW; WA corrections staff from every prison in WA attended the event. Photo by Ricky Osborne.

Beekeeping was a priority in FY17. In response to SPP co-director Steve Sinclair's request, and enormous interest in the topic among WA Corrections staff and incarcerated residents, we organized a day-long summit devoted solely to beekeeping in prisons. WCCW graciously hosted the event, and the setting meant that several incarcerated beekeeping students were able to participate. Every prison in WA was represented by staff, and we were joined by experts from several regional beekeeping associations and [Washington State Beekeepers Association](#), the statewide organization that oversees certification. In part due to the interest and knowledge generated by the summit, new partnerships facilitated the start of beekeeping programs at five facilities: LCC, WCC, CRCC, MCCCW and CBCC. Twenty-six new hives were installed. Since fall 2015, 116 incarcerated students became certified apprentices. A detailed summary of program status as of June 30, 2016, is in Table 14.

Table 14. Beekeeping Certification Overview by Institution FY17 (see [Appendix 3](#) for abbreviations)

Prison	Hives	Partners	Incarcerated Apprentices certified since 2015
AHCC	8 (was 4)	West Plains Beekeepers , CI , Inland Empire Beekeepers	38
CCCC	1	Olympia Beekeepers Association	59
CBCC	2	North Olympic Peninsula Beekeepers Association	12
CRCC	3	Mid- Columbia Beekeepers	17
LCC	2	Clark County Beekeepers	
MCC-WSR	Planning		
MCC-SOU	Planning (3 hives ready)		

MCC-TRU	Planning		
MCCCW	2	West Sound Beekeepers	
OCC	Planning	North Olympic Peninsula Beekeepers Association (partnership in progress)	
SCCC	2	Olympia Beekeepers Association	
WCC	3	Olympia Beekeepers Association	
WCCW	2	Mother Earth Farm	8
WSP	10	West Plains Beekeepers Association, CI	7
Total	38		141

Pacific Northwest Monarch Butterfly Program

The BAR Unit Monarch Butterfly Program is a joint research project with [Washington State University](#) (WSU). Program technicians are in a social skills group in which mental health and protective custody incarcerated individuals work together to raise and care for Monarch butterflies. In FY17, fifteen technicians participated in the program, and nearly all completed the full season. Technicians were able to observe the full life cycle, which takes about 6 weeks from egg laying, to emerging adult butterflies; participants completed this cycle twice. Adult butterflies are tagged before release and WSU receives report sightings from the field, usually from California overwintering sites. Offspring of these butterflies will begin the migration back north in the spring.

Taylor's Checkerspot Butterfly Program

Our flagship pollinator program is rearing and releasing Taylor's checkerspot butterfly (*Euphydryas editha taylori*), a federally-endangered species that once flourished from southern British Columbia to central Oregon. Only a few small, isolated populations of the butterfly remain. The SPP rearing facility at MCCCW adds to the scope and resilience of recovery efforts and bolsters the original rearing program at the OR Zoo. The end of FY17 marks the completion of the program's sixth breeding season. Program partners include WDFW, USFWS, JBLM/Department of Defense, and CNLM.

Program participants have reared and released more than 13,000 caterpillars and adult butterflies onto south Salish Sea prairies. More than 25 incarcerated technicians have received training, four graduate students have coordinated the program, and seven WA Corrections staff have served as liaisons. Since fall 2013, SPP has issued ten certificates for incarcerated technicians completing training in the program. Rearing outcomes for this reporting period are summarized in Table 15. Percent survival by life stage is available in Table 15.

A crew from PBS Nature visited the program in May 2017 to film a segment on butterfly conservation. Incarcerated technicians provided interviews and gave the filmmakers a tour of the program.

Table 15. Taylor's Checkerspot Rearing and Adult Breeding at MCCCW FY17

	Into Diapause July 2016	Released February 2017	Retained for Breeding March 2017	Egg Laying Females May/June 2017	Eggs Produced May/June 2017
Wild	2,583	2,242	288	21	3,315
Captive-bred	541	508	0	5	621
Second Diapause Caterpillars	47	6	41	120	0
Unidentified Caterpillars	13	14	0	N/A	N/A
Totals	3,184	2,770	329		3,936

Table 16. Number of individuals and percent survival by life stage for wild and captive-reared Taylor's checkerspot butterflies FY17

Life Stage	MCCCW Wild & Captive-bred Summary	
	#	% Survival
Diapause to wake-up	3,184	99.8
Diapause to release	2,770	98.8
Breeding colony	329	---
Multi-diapause	123	---
Pupae	174	84.5
Adult	156	89.7
Eggs	3,936	---
Eggs to hatch	3,234	82.2
Hatch to diapause	3,169	98.0



(Left to right) Jessica Stevens, Nicole Alexander, Cynthia Fetterly, and Alexis Coleman pose in front of their original artwork. Ms. Stevens and Ms. Christopher painted this banner to welcome Girl Scouts Beyond Bars to the butterfly lab for a day of activities, including a unique Taylor's checkerspot merit badge designed by Ms. Alexander. Photo by Keegan Curry.

Table

17. Education and Certification, Taylor's Checkerspot Butterfly Program FY17

Education Sessions (30-90 minutes)	Number of Sessions	Attendees
MCCCW		
Bee Biology and Communication	2	4
Monarch Ecology and Migration	1	4
Butterfly Courtship, Intelligence, Social Behavior, Diapause Physiology, Range Expansion and Climate Change	3	4
Avian Intelligence and Conservation	2	4
Natural History of Fungus Growing Ants	1	4

Taylor's Checkerspot and Golden Paintbrush Conservation	1	4
Owl Biology, Ecology, and Conservation	2	3
The Anthropocene and Sixth Mass Extinction	2	3
<i>Total education sessions</i>	<i>14</i>	<i>4</i>
Certificates Awarded	Number of recipients*	
Butterfly Rearing and Research Specialist, 1500 hours	1	

*Other technicians active in FY17 had already received SPP certification

Wildlife Habitat Programs

Several facilities have installed structures or plantings to benefit wildlife. A summary follows.

Table 18. Reported efforts to provide wildlife habitat and forage, FY17 (see [Appendix 3](#) for abbreviations)

Prison	Programs	Program Partners	Highlights
AHCC	Pollinator forage & habitat	Miller Homestead LLC	Pollinator-friendly plantings throughout the main & minimum areas: flowers, herbs, pussy willow. Large woody debris and shrubby habitat in pond area
CRCC	Heritage Garden		Inmates designed garden, which honors the cultural and natural heritage of our local area, using native plants to minimize water use
CRCC	Plant and Animal Habitat		Bird boxes, owl box, and pollinator box in garden
CRCC	Nesting Platforms	Lower Columbia Basin Audubon Society	
LCC	Bird feeders		Feeders throughout the facility; rehome baby birds that fall from nests
MCC	Plant and animal habitat		Washington State Reformatory has bird houses and hummingbird feeders
MCC	Flower gardens, boxes, baskets		Flower gardens are grown to attract bees to pollinate the vegetables
MCCCW	Bird boxes		20 bird boxes
MCCCW	Vegetable & flower gardens		5 gardens, 250 ft ² total; grew 1,450 pounds of produce for prison kitchen last year; every living unit has 2 beds of vegetables and 1 of flowers
CBCC	Flower gardens		Ornamental gardens in courtyard, access breezeway, MSC light yards; "worm tea" is only fertilizer
OCC	Pollinator-friendly plantings		All greenhouse plants selected to benefit pollinators
OCC	Flower gardens, boxes, baskets		Each living unit has several garden beds planted and maintained by residents; hanging baskets and flowering beds throughout staff and inmate areas
SCCC	Flower gardens, boxes, baskets		Flowers plantings throughout the campus
WCC	Flower gardens		Flower gardens throughout the campus
WSP-EC	Flower gardens		~30 garden boxes in East Complex

5. Restorative Nature Programs

SPP brings nature inside prisons with the motivation to relieve the stress of prison environments. Scientific literature shows that when nature is available within institutional and urban environments, inhabitants experience many positive, therapeutic benefits. In FY17, research on “vicarious” nature exposure, in the form of nature videos in a maximum security prison, found beneficial results for incarcerated individuals and staff in the area; these programs are supported by a [Nature Imagery in Prisons](#) team, led by SPP co-founder Nalini Nadkarni.



LCC Turtle Technician Damian Larson spent ten minutes in this stance, absorbed by the natural beauty of the Columbia River Gorge during the 2017 turtle release. Photo by Sadie Gilliom.

Less formally, the therapeutic value of SPP’s programs has been recognized widely and consistently by both incarcerated and staff partners. While all SPP programs are intended to offer positive contact with nature, the programs detailed below include enjoying nature as their *primary* function.

Table 19. Restorative Nature Programs FY17

Prison	Programs	Program Partners	Highlights
AHCC	Flower gardens		Throughout the prison for human & wildlife well-being
AHCC	Nature imagery	Nature Imagery in Prisons Project	Inmates in maximum security area have access to nature videos.
CBCC	Flower gardens		Ornamental gardens in courtyard, access breezeway, MSC light yards; “worm tea” is only fertilizer
CRCC	Heritage Garden		Inmates designed garden, which honors cultural and natural heritage of area, native plants minimize water needs

LCC	House plants		Only known prison that allows houseplants in residents' dorm rooms; last year were nearly 300 plants for 480 residents!
MCC	House plants		Grow plants for donation to hospital floor
MCC	Flower gardens, boxes, baskets		Flower gardens grown to attract bees to pollinate the vegetables
MCCCW	House plants		All living units have houseplants and numerous staff have plants in their officers
OCC	Water features		Two living units have fish ponds; the other has a fountain and basin
OCC	Flower gardens, boxes, baskets		Each living unit's residents has several garden beds; hanging baskets and flowering beds throughout staff and inmate areas
OCC	Chickens		Some loss to coyotes
WCC	Nature Imagery	NIPP team; University of UT	1 nature imagery room in IMU; 2 in Cedar Hall; WCC leadership helped draft 1st statewide policy for Nature Imagery
WCC	House plants		In all shared and staff areas; Grounds Maintenance crew provides and maintains all
WSP	House plants		More than 600 potted plants inside, plus several terrariums, provided by SPL
WSP-EC	Flower gardens		~30 garden boxes in East Complex
WSP-EC & SC	Rental garden boxes		62 rental boxes available in south and east complexes; soil and fertilizer from SPL
WCCW	Chickens	Mother Earth Farm	8 chickens; eggs sold to staff to pay for chicken feed



The gardens outside of WCC's Cedar Hall living unit are gorgeous; the care and pride that goes into them is well apparent. Photo by Ricky Osborne.

6. Community Contribution Programs

Community contribution programs directly provide services and/or goods to nearby communities. They train pets for adoption and donate crafts and products (firewood, quilts) derived from reclaimed materials. Other community contribution programs provide services such as habitat restoration and removing hazard trees.

Typically, these programs are partnerships between prisons and community organizations that help organizations increase capacity and provide inmates opportunities to contribute to the world outside the fence. Most of these programs predate the formal SPP partnership. SPP-Evergreen's role is to acknowledge and support these productive partnerships and provide a comprehensive overview of activities taking place statewide.

SPP's conservation and sustainable operations programs also make community contributions; for example, the [Conservation Nurseries](#) provide hundreds of thousands of plants to regional restoration, and [Sustainable Operations](#) programs contribute by reducing prisons' environmental footprint and saving taxpayer dollars. See those sections for details.

Dog and Cat Programs

Dog and cat programs are common in prisons across Washington State. Nearly all of Washington's prisons have formed one or more partnerships with community nonprofits to create pet programs. Inmates receive support from partner organizations to provide excellent animal care and obedience training, and—in a few cases—service and/or therapy training. We have heard from inmates and staff that pet programs are a benefit to all directly involved, and to the larger prison community as well.

In FY17, two prisons added dog programs. WSP discontinued its pet programs. More than 574 dogs and cats graduated from all the programs combined; details are shown in the following table.



© J. Devine Photography.com
A Ridge Dogs handler. Photo by J. Devine Photography.

Table 20. FY17 Dog and Cat Programs (see [Appendix 3](#) for abbreviations)

Prison	Program	Program Partners	Highlights
AHCC	Pawsitive dog training	Diamonds in the Ruff and Spokanimal	Graduated 24 dogs last year, with 4 graduation ceremonies; Sister Quinn visited in May, 2016
CBCC	Dog training and adoption	WAGS	23 dogs and 17 Puppies graduated from the program last year
CBCC	Cat program	WAGS	
CCCC	Training dogs for veterans	Brigadoon Service Dogs	Last year, 8 dogs trained to the needs of individual veterans; 2 graduation ceremonies
CRCC	Mother and kitten foster	Benton Franklin Humane, Adam County Pet Rescue	52 kittens and 7 adult cats last year
CRCC	Ridge Dogs	Benton Franklin Humane, Adam County Pet Rescue	213 dogs graduated from the program last year!
LCC	Dog Adoption Program	Humane Society for Southwest Washington	Weekly classes and one-on-one training with handlers; 17 dogs and puppies adopted in FY17
LCC	Cat Adoption Program	Humane Society for Southwest WA	Education and training every 2nd week; 34 kittens and cats adopted in FY17

MCC-SOU	Cat program	Purrfect Pals	
MCC-TRU	Dog training and adoption	Summit Assistance Dogs	14 dogs graduated this year, in 4 graduations
MCCCW	Pawsitive Prison Project	Kitsap Humane Society	222 cats in first 2 years of program!
OCC	OCC Dog Program	Olympia Peninsula Humane Society	167 dogs graduated since 2010; dog handlers trained in AKC Canine Good Citizen practices, meet weekly for group study and group training
SCCC	Freedom Tails	Harbor Assn of Volunteers for Animals (HAVA)	Last year 2 graduation ceremonies, 19 dogs
SCCC	Service dogs for veterans	Brigadoon Service Dogs	
WCC	Training dogs for veterans	Brigadoon Service Dogs	Training service dogs to needs of individual veterans. Small pilot with plans for expansion.
WCCW	Prison Pet Partnership		First in-prison pet program in the country! Last year, graduated 35 dogs, 19 incarcerated employees; scholarships for reentry

Reclaim, Repurpose or Restore, and Donate Programs

Consistent with the earliest days of SPP programs, WA prisons strive to “throw nothing away,” to transform potential refuse into something of value. In some cases, these programs’ creations directly meet an organization’s need: donating quilts to a homeless shelter, refurbished computers for schools, and growing produce for food banks. In other cases, programs donate handmade or restored creations for organizations’ fundraising events. The productivity and generosity of these programs are best illustrated by statewide numbers (below); most are even higher than prisons reported in FY16.



The Sustainable Practices Lab at WSP is a model of innovation and productivity. The Lab houses 18 programs, all of them reducing waste, and bringing benefits to taxpayers and nearby communities. Photo by Ricky Osborne.

Table 21. FY17 Community Contributions Programs state-wide totals (12 prisons)

Item	Statewide totals (approximations)
Garden area	16.3 acres cultivated
Produce grown	491,991 pounds to food banks & prison kitchens
Crafts made from reclaimed materials	7,000+ donated (FY16 total included WSP SPL multi-year count)
Refurbished bicycles	679 donated
Refurbished wheelchairs	780 donated
Firewood	699 cords donated
Water filters	110 donated
Computers	5,333 donated

Reclaim and donate details *by prison* are shown in the following table.

Table 22. FY17 Community Contributions Programs to Reclaim, Repurpose, Restore, or Donate (see [Appendix 3](#) for abbreviations)

Prison	Programs	Program Partners	Highlights
AHCC	Gardens: Minimum	Second Harvest Food Bank, Master Gardeners, and Gospel Mission	20,000 sq. ft. of gardens grew 4,140 lbs of produce, big increase from FY16
AHCC	Gardens: Main	Master Gardeners	100,000 sq. ft. of gardens; 37,000 lbs of produce, less than 2016; all went to prison kitchen; expanded greenhouse
AHCC	SPL: Quilting	Blessings Under the Bridge	Inmates repurposed 280 lbs/50% of textiles in waste stream; created 32 quilts for donation; June celebration
AHCC	Computers 4 Kids	School districts – OSPI, DES	Donated 5,333 refurbished computers last year; incarcerated technicians learn computer diagnostics (can test for certification), plus office & shipping skills
AHCC	Firewood donation	SNAP Spokane	Donated 550 cords of wood to low income families; DNR provides wildland fire trainings; prison staff provide firewood and chipper trainings
CBCC	Vegetable gardens	Donations to Peninsula College culinary program	5,850 sq. ft. (additional 4,000 sq. ft. unused); Nearly 1,000 pounds of produce grown, ~150 lbs to culinary program; the rest to inmate kitchen
CCCC	Gardens	Centralia Community College, Littlerock School District	40,000 sq. ft. of gardens grew ~10,000 lbs of produce for inmate kitchen, less than FY16; pumpkins for School District
CRCC	Gardens: Minimum		3,000 sq. ft. of gardens produced 1,200 lbs summer 2016
CRCC	Pumpkin Patch		Grew 200 pumpkins for visitors and community last year
CRCC	Toys for Tots	Tri-Cities Toys for Tots	Inmate-designed crafts donated to holiday event, 20 in FY17
CRCC	Teddy bears from reclaimed materials	Hospitals, API events held at CRCC, ARC of Tri-Cities, Franklin County Sheriff's Office	Donated 100 teddy bears to partners and benefit events
LCC	Gardens		No food grown/harvested in FY17; FY18 new hire to oversee Groundskeeping

LCC	Wood craft donations		Jewelry and décor boxes donated as appreciation gifts or to non-profits for fund raising
MCC-SOU	Gardens		Several gardens
MCC-TRU	Gardens		Grew 850 lbs for inmate kitchen; garden space for each living unit; gardens are ~4,000 sq. ft.
MCC-TRU	Craft donation	Community Aide Coalition (CAC)	Donated 114 quilts and 1,000 crocheted hats, stuffed animals and scarfs
MCC-WSR	Composting programs	City of Monroe, Fircrest Residential Habilitation Center, Northwest Trek, Woodland Park Zoo	Donate worm castings and grow flower starts for City; built & donated full-size worm bin for NW Trek; donate black soldier fly larvae to zoo as animal feed
MCC-WSR	SPL Bikes	Snohomish County Sheriff's Office, YMCA, Cocoon House, Local Police Dept, Snohomish Boys & Girls' Club, MCC family nights	Last year refurbished and donated 191 Bikes
MCC-WSR	SPL Wheelchair program	Wheels for the World	More than 600 wheelchairs sent to Guatemala and Thailand in FY17
MCC-WSR	SPL Wood shop	Scrap wood donated by Canyon Creek Cabinet Company; donate to Children's Hospital, YWCA, Domestic Violence Services of Snohomish County, Women's Shelter of Monroe	Created and donated more than 340 toys
MCC-WSR	Gardens		Grew 1,100 lbs for inmate kitchen and donated 1,066; every living unit has garden space
OCC	Wood shop	Quileute High School scholarships, Cherish our Children, Forks Lions Club, CASA, Quillayute Valley School District, Relay for Life, Forks Chamber of Commerce, Timber Museum, Olympic Anglers, Calm Waters; Forks Soroptimists; wood provided by Westport Shipyard and OCC Community Crews (DNR)	Last year donated 250 toys, crafts, sculptures, and pieces of furniture to charitable and nonprofit partners
OCC	Firewood	DNR, Olycap, Quillayute Valley Scholarship Auction, Cherish the Children, Forks Soroptimists	Last year, 24 cords for Native American ceremonies; ~125 cords to donated to community partners
SCCC	Gardens and greenhouses	Coastal Harvest Food Bank, Harvest Now	25,000 sq. ft., produced 10,335 lbs to staff and inmate kitchens and food pantry; Harvest Now donated seeds
SCCC	Food Bank fundraisers	5 food pantries	Inmates and staff raised funds and donated nearly \$860 to food pantries
SCCC	Bicycle Repair	Lions Club	Last year 161 bikes repaired and donated
SCCC	Wheelchair Repair	Wheels for the World	Last year 180 wheelchairs repaired and donated
WCC	Gardens and greenhouses	Thurston County Food Bank, The Saint's Pantry Food Bank, The City Reach Food Bank, Shelton Community Kitchen, Harvest Now	FY17, grew 45,000+ lbs value of ~\$92,000 (increase!); Summer 2017 grew 23,000+ lbs value of \$56,000; 25% for prison kitchen, the rest donated to partners; Harvest Now donated seeds;

			garden area 43,560 sq. ft., greenhouse 1,440 sq. ft.
WCC	Plant starts	Hoodspport Kiwanis	Grew ~2,800 plants for 2017 Hood Canal Kiwanis Spring Plant Sale!
WCC	Neighborhood Pantry Project		Built 12 pantry boxes for Kitsap neighborhood food sharing
WCC	Shoe and clothing repurposing	CI	Facilities send used clothes to WCC for reuse and recycling; large portion mended and cleaned, back into circulation or donated
WCCW	Gardens and greenhouses	Tacoma CC, WSU Extension, Pierce County	10,000 sq. ft. of growing space; summer of 2017 grew 5,300 lbs of produce for inmate kitchen (reduction); 10 TAs maintain landscaping
WCCW	Bicycle Repair	Kiwanis Gig Harbor supplies bikes; donate to "Gear Up For School" program at KP Middle School; schools in Peninsula School District; individual kids	Last year donated 147 refurbished bikes to school kids
WCCW	Mother Earth Farm	Mother Earth Farm, Real Food Network	Offsite crew of 7 inmates; grew 100,000+ lbs for donation to 16 food pantries; gave ~3,400 hours, estimated at \$81,497 value; formal education on 17 topics
WCCW	Quilts and other fabric crafts	Community members donate supplies; West Sound Wildlife receives nests and beds	Last year donated 3,395 craft items! (Christmas stockings, knitting, quilts, yarn nests and animal beds etc.)
WSP	Gardens and greenhouses: Institutional Sustainability Garden		Last year grew 275,000+ lbs of produce, savings of \$227,578; 457,380 sq. ft.
WSP-SPL	SPL: Bicycle Refurbish	Bikes donated by Walla Walla Police and Sheriff's Department	Rebuilt and donated 180 bikes last year
WSP-SPL	SPL: Wood Shop		Built custom wood signs, special furniture items, and carvings; big cost savings for DOC associated
WSP-SPL	SPL: Wood Carving		Hand-carved 60+ items for auctions
WSP-SPL	SPL: Furniture Repair	Simpli-Home Furniture LLC.; donations to Habitat for Humanity, The Humane Society, Veterans Housing Project, Women and Children Rescue Mission, Christian Charities Mission, and Teen Aid	Donated furniture sorted, salvaged, and assembled for donation to 40+ charities; Donated \$120,000 value of furniture
WSP-SPL	SPL: Teddy bears		SPL's most productive shop by # of items, sewing 1,000s of stuffed animals and custom projects for charities; last year, created 490 bears for Children of Inmates Project
WSP-SPL	SPL: Quilting		From reclaimed fabric, last year created ~160 quilts, blankets, and wall hangings for charity, including 40 blankets for homeless shelters and fine-craft times for auctions

WSP-SPL	SPL: Water filtration pilot	Project 41	Low cost technology to produce water treatment systems for export to Africa, human-powered, built 110 units last year!
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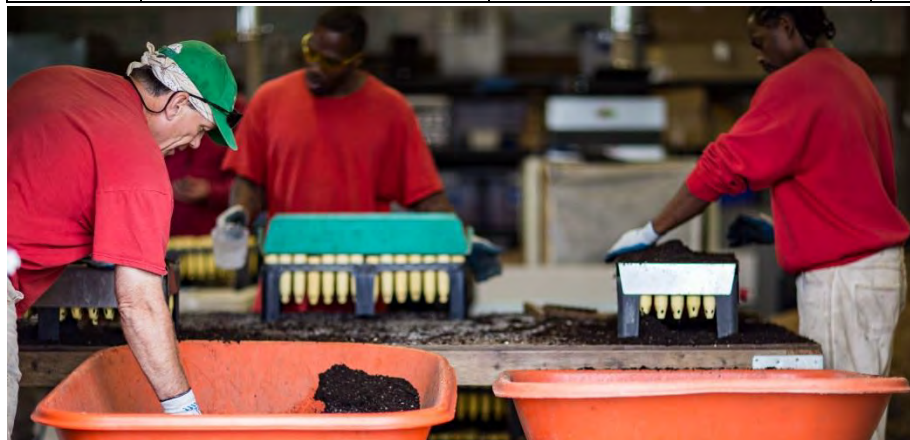
Community Work Crews

Many incarcerated residents of minimum security prisons (LCC, OCC, MCCCW, and CCCC) and units (Minimum Security Unit="MSU") are allowed to join offsite crews working on forested and community sites. The work allows positive reconnection with outside communities: providing exposure to, and experience outside the fence while contributing needed community services.

These crews employ more inmates than any other kind of program under the SPP umbrella: 1,662 incarcerated men and women this fiscal year. With so many inmates participating at hundreds of sites statewide, we still have much to learn about these programs, including how well each does and does not fit the SPP model. Reported details are shown in the table below.

Table 23. Community Work Crews FY17 (see [Appendix 3](#) for abbreviations)

Prison	Programs	Program Partners	Highlights
CCCC	Prairie Restoration crew	CNLM , JBLM, WA DNR, WDFWUSFWS, OR Zoo, Pacific Rim Institute for Environmental Stewardship, Whidbey-Camano Land Trust, Friends of Puget Prairies, Wolf Haven International, and Town of Steilacoom	Ended October 2016
CRCC	CRCC land restoration		Restoring native vegetation outside the fence; planted ~200 sagebrush plants
MCCCW	Conservation crews	Hood Canal Salmon Enhancement Group, Kitsap County Public Works, Great Peninsula Conservancy	Last year: Trail work at Theler Center; 36,000+ plants for 3 restoration projects; planting new habitat for 4 additional projects; moved 150+ yards of bark; flood control; noxious weed removal; certificates of appreciation from Kitsap County Public Works
MCCCW	Kitsap Conservation District Clear Creek Project		



This year ended SPP's involvement with the CCCC offsite community crew at Shotwell's Landing nursery. Photo by Ricky Osborne.

7. Sustainable Operations

Sustainable Operations programs are led by the Washington State Department of Corrections (WA Corrections) and this section of the annual report is authored by WA Corrections' Sustainable Operations Manager. While other programs included in this report are also led by WA Corrections or other outside partners, Sustainable Operations programs statewide are unique as they are managed by a dedicated WA Corrections staff position; this position was created by WA Corrections to monitor and reduce the environmental, economic, and human cost of prisons. Major sustainable operations initiatives include greenhouse gas emissions, energy, waste, and potable water use reductions.

Prison facilities are responsible for the vast majority of WA Corrections' resource consumption and waste generation. In 2017, these facilities occupied over 7 million square feet of conditioned space and housed an average population of 17,000 incarcerated individuals. Prison age and design range from the 130-year-old first territorial prison in Walla Walla, to the nation's first LEED Gold prison campus in Connell, WA. Facilities provide health and dental care, treatment programs, educational and employment training, laundry and food services.

Energy

Since 2009, WA Corrections has reduced energy consumption in prison operations by 23%. When evaluating consumption since 2011, energy use has been reduced by 10%. Over the past 2 years, energy reductions have mostly leveled off, with a slight uptick in fiscal year 2016 (FY16), followed by only a slight decrease of .07% this year.

WA Corrections continues to identify new ways to reduce energy consumption. The past trend of significant reductions was due in large part to the use of the energy savings performance contracting. This financing mechanism identifies and funds energy efficient facility improvements and pays for project costs with the energy savings delivered by the project. WA Corrections has completed 20 energy service performance contracts since 2005. Deferred maintenance results in higher energy use and premature equipment failure. Our practice of robust preventative maintenance programs has contributed to more efficient building performance and energy consumption. Facilities continue to make good use of utility incentives to recover costs of minor projects such as lighting. WA Corrections is working with other state agencies and partners to identify and adopt a portfolio management practice to better prioritize projects.

Energy data:

- Energy use/incarcerated person/day showed a slight increase of 0.03% from the FY16 rate
- The FY17 rate energy use/incarcerated person/day is 47.3 kWh/incarcerated person/day
- The target energy use rate is 54.2 kWh/incarcerated person/day

Data represents power demands to operate facility conditioned spaces, perimeter lighting, food service, laundry, health care and industrial operations. Power sources include: electricity, natural gas, propane and fuel oil. Consumption records for each facility for each power source are converted to equivalent kWh hours and divided by the number of incarcerated people.

FY17 activities and initiatives:

- **Lighting retrofits** – Prison facilities continue to use operational funds made available for LED lighting projects, resulting in significant energy savings.

- **Training and utility incentives** – Facility managers engaged in energy conservation and building management training and continue to use utility incentives to fund small-scale conservation and preventative maintenance projects.
- **Energy project funding** – WA Corrections, Department of Enterprise Services, and the Department of Commerce hosted a National Governors Association workgroup meeting focused on the challenges of insufficient project financing to meet energy efficiency demands of a low-carbon future. The meeting resulted in strategies and collaborations to address financing shortfalls.

Waste

The primary focus of WA Corrections' waste reduction strategies includes appropriate management of waste streams and environmentally preferable purchasing. Managing waste streams includes separating and shuttling waste to its next, most appropriate destination such as a recycle center, compost facility, waste to energy plant, reuse/redistribution operation, or if no better option exists, to a landfill.

WA Corrections is successfully decreasing the amount of waste generated and sent to the landfills: since 2011, landfill waste had been reduced by 33%. Much of this progress is due to the diversion of food waste to composting operations. Sorting and diverting recyclable items is the second largest contributor to landfill waste reduction. Attention to environmental preferable purchase choices also plays a large part in waste reduction. Replacing disposable items with durable, reusable alternatives has been a consistent strategy. Challenges over the past year in reaching further landfill reductions include the loss of cost-effective recycle opportunities for footwear, textiles, and mattresses.



Technicians at WCCW reclaim resources from the waste stream. Photo by Ricky Osborne.

Waste data:

- Waste generated has increased slightly over the past year from a rate of 1.5 lbs./incarcerated person/day (FY16) to 1.8 lbs./incarcerated person/day (FY17)
- The target waste goal is 1.5 lbs./incarcerated person/day

Data represents the amount of landfill or incinerator waste generated by facilities that was not diverted to better solutions. These rates do not include wastes diverted to composting, recycling, and hazardous and universal wastes, such as electronics and light tubes, which are captured and managed specially.

Activities and initiatives:

- **Medication waste diversion** – Random waste stream reviews over the past year revealed the absence of any pharmaceutical or over-the-counter medications in the waste stream indicating that the diversion process for any unused or expired medications is effective.

- **Food waste composting and recycling** – All facilities are expected to have recycle and composting programs.
- **Sustainable Purchasing** – A major initiative over the past year was reducing consumption of single-use plastics. Prisons replaced plastic bottles from vending machines with recyclable aluminum cans, durable sporks or paper spoons replaced disposable cutlery, and facilities are working toward elimination of plastic trash can liners.



*WCCW's Mark Blatman offers SPP nursery program coordinator Jeanne Dodds a sample of finished compost for a smell test.
Photo by Ricky Osborne.*

Water

Prison facility managers know that conserving water can save money and be good for the environment. Reducing water use at facilities also extends beyond resource protection and potable water cost savings to savings in wastewater and energy costs.

Water data:

- Potable water use has decreased by 9.6% from last year's consumption rate of 124 gallons/incarcerated person/day
- Current use is 112 gallons/incarcerated person/day
- Target goal is 120 gallons/incarcerated person/day

Data represents the amount of potable water consumed by all prison facilities. It does not include consumption of water from rainwater catchment systems, reclaimed water, or agricultural well water, sources which some of the facilities use to reduce their demand on potable water.

Activities and initiatives underway:

- **Plumbing retrofits** – A pilot program was implemented to install efficient valves and controllers for showers, sinks and toilets. The program has projected water savings of 65% with a payback of under two years and it appears to be a promising investment.
- **Metering and facility water use assessments** – Five facilities have completed metering of their entire campuses. The meters will be used to monitor and reconcile water use to reduce consumption and detect and repair leaks. Cost benefit analysis of the project may support further metering of other campuses.
- **Water conservation landscaping** – While garden programs depend on sufficient water use to thrive, several facilities across the state are employing water conservation strategies including drought tolerant landscaping/gardens and improved irrigation practices.

Sustainable Operations and low cost programing

Fostering low cost programs and skill development opportunities for the population such as gardening, waste-water treatment plant operation, durable medical equipment repair and composting facility operation, provides job skills training, meaningful opportunities for incarcerated individuals to contribute, and cost benefits to the facility.



A gardener at AHCC harvests from the main garden. Photo by Ricky Osborne.

In the past few years gardening space at the prison facilities has increased exponentially, transforming lawns and gravel yards into beautiful, productive spaces. Production of vegetables has increased at the same time that these programs have matured with more emphasis going toward growing produce for food banks and facility food service operations. Water

reduction goals will not diminish support for garden programs, but rather will bring a new opportunity for water conservation innovations.

Durable medical equipment repair programs refurbish equipment to make it functional for use at the facility or to be donated through community partnerships. The program saves equipment from the landfill and spares facilities replacement costs.

Trades training and certification programs provide incarcerated individuals the opportunity to gain confidence, new skills and job training, and they assist in successful reentry.

8. Sustainability Job Programs

SPP job programs offer incarcerated participants ways to contribute to communities and ecosystems, and offer job training, education, and sustainable living skills. The list included in Table 24 shows all sustainability job program placements in FY17 (data provided by WA Corrections staff; OMNI system).



A shop lead in WSP's Sustainable Practices Lab describes the work of his area for SPP-Evergreen visitors. Photo by Ricky Osborne.

We include all jobs involving sustainability of resources, science, and contact with non-human nature as documented and reported by WA DOC staff. It leaves out some sustainability jobs coded in a non-sustainability category; for example, technicians working on composting and aquaponics at SCCC are not represented, and neither are electricians who install energy efficient fixtures. These job programs represent an enormous variety of activities, most of which were initiated and run with little-to-no input from Evergreen partners. SPP-Evergreen aims to promote and support the educational enrichment of every program, and will continue to build partnerships and capacity toward this goal.

The approximately 4,126 inmates in sustainability jobs are approximately 21% of the ~19,300 men and women currently incarcerated in Washington State.

Table 24. FY17 SPP Jobs in WA Prisons: all inmate jobs involving science, sustainability of resources, and/or contact with living things.

Sustainability Job Program	Number of participants, FY17
Agricultural Engineer	1
Aquaponics	7
Basic Obedience - American Boarding Kennel Assc (ABKA)	4
Basic Pet Care – ABKA	20
Bee Conservation Tech	20
Bicycle Repair	35
Bike & Wheelchair Repair	40
Bio Waste Custodian	27
Book Repair	1
Butterfly Rearing Tech	6
Cat Handler	78
Clerk Sustainable	12
Community Work Crews	881
Compost Worker	31
Computer Refurbishing	13

Cultural Crafts Program	12
Diversity Garden	3
Dog Handler Mentor	8
Dog Obedience Handler	232
Dog Service Handler	42
Dog Svcs/Obed Secondary	55
Dog Walker	18
EC Organic Gardening	34
Fire Wood Stacker	6
Food Svcs Waste Recycler	3
Forestry I Worker	778
Forestry II Worker	15
Frog Rearing	0
Groundskeeper I	502
Groundskeeper II	55
Horticulture I Worker	240
Horticulture Worker II	39
Horticulture-Therapeutic Com	0
Inside Groundskeeper	18
Kennel Worker ABKA	20
Plantain (grown for Oregon Zoo)	3
Prairie Plant Conservation	88
Quilting (reclaimed materials)	9
Recycling Worker	471
Re-Use Fabric-Sustainable	70
Root Of Success Trainer	33
Roots Of Success Practice Lab	3
Sustainability Analyst	1
Sawyer	29
SC Garden Plot	49
Teddy Bear Creations	14
Turtle Technician	8
Waste Treatment Helper	7
Waste Treatment Operator II	15
Waste Trt 1 Operator	21
Wood Working	4
Worm Farm Worker	45
TOTAL	4,126

9. Evaluation

Program Evaluation

This year, WA corrections' requirements for application and review for human subject's research is changing substantially, and those changes are still in development. Overall, the review process for program evaluation and research will require more personnel time and funding resources than it has in the past. We have valuable results to share from FY17 evaluations, and expect our capacity to evaluate programs may be reduced going forward.

Research with External Partners

Dr. Kevin Morris of the Institute for Human-Animal Connection at the University of Denver (DU) conducted a study of social/emotional impacts for inmates who participate in dog programs. Dr. Morris



MCC staff escort Dr. Kevin Morris and SPP's Emily Passarelli. Photo by Ricky Osborne.

and colleagues implemented surveys and discussions with dog handlers at ten prisons in August, 2016. When analyses are complete, the research will complement the 2015 study conducted by Washington State University that found positive behavior changes in dog program participants.

Two psychologists from Simon Fraser University in Burnaby, British Columbia, Canada drafted a proposal to study the effects of prosocial priming with incarcerated participants of SPP programs, with the aim to replicate results of earlier studies with other populations. SPP program evaluation was also suggested. SPP's co-director for WA Corrections identified the research as a priority project. We have not yet advanced the project to formal application stage.

Program Evaluation

Lecture/Workshop Series

We have surveyed students of our workshop series, technicians in ecological conservation programs, and inmates and staff in the Nature Imagery program at WCC. This year, SPP program coordinator Liliana Caughman analyzed data from lecture series students from seven years' of responses, encompassing 15,874 surveys. Her key findings were:

- The students are gaining environmental knowledge from the lectures. As the years pass, students are learning more from our lectures. Does this mean they are becoming better

students, or that the lectures themselves have improved?

- As Tiffany Webb found in 2014, students' positive attitudes about the environment have been steadily increasing over time. Many students do not become more positive about the environment as a result of a single lecture, but most started with such positive regard of environmental topics that no change is still a good thing! We see this as confirmation of what we've experienced: that there has been a positive culture shift within Washington State prisons.

These results were *strongly* statistically significant, giving us solid evidence that the program is effective. Liliana added a new measure of lecture quality, and found:

- Using 3 criteria to describe how engaging a lecture is, scoring how much a lecture *1. provided hands-on experiences 2. empowered students to be helpful to others who are important to them 3. built community and connections between people*, there is a nice correlation between each lecture's engagement score and how much environmental attitudes increased for the same lecture. These results suggest that Liliana's engagement score is a valuable measure of a lecture's quality.

We facilitated discussion of these results with lecture series students at both host facilities, and found further validation. Both sets of students emphasized interest in interactive sessions, and connecting every topic with their current lives and future plans. We revised program protocols to better meet that interest, and changed the program name from *Science and Sustainability Lecture Series* to [*Environmental Engagement Workshop Series*](#).

Reentry

In June, 2016, we offered a one-time reentry presentation, coupled with a reentry survey for those attendees. From 30 complete surveys, we found:

- "Letters of Reference" and "Host Re-entry Guest Experts" were the assistance types most often cited at being the most important. Those options also ranked 1st and 2nd when considering each respondents top three choices. From these results, SPP-Evergreen staff will prioritize creating letters of reference for technicians and students who have demonstrated ability, skills, and/or work ethic.
- From qualitative responses to concerns about post-release challenges, the vast majority were worried about employment and housing.

Student Theses

Two Master of Environmental Studies students presented their findings from SPP programs.

Sadie Gilliom, SPP Turtle Program Coordinator, completed a qualitative study of WA Corrections staff and leadership involved in the turtle program at CCCC and LCC. Key findings were:

- Staff reported that the program increases job satisfaction and decreases stress
- Staff described the program as catalyzing a shift from punitive to collaborative and offender to human: positive impact on staff and residents
- The program is a small step in the right direction in the big picture: program expansion and more collaborative training would be beneficial

Emily Passarelli, SPP Green Track Coordinator, interviewed former conservation technicians and [*Roots of Success*](#) instructors to characterize their environmental attitudes and identities. Key findings were:

- Environmental identities are being formed in-program and lasting post release.

- Participants have been pursuing environmental education and plan to pursue environmental careers.
- Participants are sharing what they learned with their families and communities.



Master of Environmental Studies candidate Emily Passarelli presents her findings on former SPP participants environmental identity and attitudes. Photo by Ricky Osborne.

Data Requests

WA Corrections research staff provided data on three sets of SPP participants: [Roots of Success](#) instructors, Roots of Success graduates (students), and Ecological Conservation program technicians. All three data sets ended June 30, 2017, and started with earliest records: spring 2013 for Roots of Success, and ~2010 for first full records from a conservation program. Results help us describe incarcerated participants in SPP programs, as compared to WA prison residents overall ([Agency Fact Card](#)). **We cannot claim that any of the results below were caused by participation in our program; however, we find value in better knowing the attributes and habits of SPP instructors, students, and technicians.** Key findings summarized for each group below.

Roots of Success Instructors

From data on 32 Roots of Success instructors, we see higher racial diversity than the general population: 53% White compared to 71% White statewide.

Comparing pre-program, during program, and post-program rates, General Infractions are higher *during* the program, and drop to slightly below the pre-program rate when program participation ends (4.5/15.4/4.2). Serious and violent infraction rates both drop to low levels (6.1/0.0/0.4 and 1.8/0.0/0.0). Rates of grievances decline slightly during and post-program (14.9/14.2/12.1).

Roots of Success Student Graduates

We received data for 1,015 Roots of Success graduates of the full curriculum. Again, we see higher racial diversity than the general population: 64% White compared to 71% White statewide. The difference appears due to increased participation by Black students: 25% of Roots graduates are Black, compared to 18% statewide. Student graduates in this program appear to be more racially diverse than those in the SPP Lecture Series: from 2015 data from the lecture series, 73% of those students were White, and only 15% were Black.



Roots of Success instructors Reyes and Youngblood pose with a workbook at CRCC. Photo provided by CRCC.

Comparing pre-program, during program, and post-program rates, student's general infractions drop *during* the program, and rebound slightly following graduation (10.5/6.2/8.2). Serious and violent infraction rates both drop to lower levels (5.6/2.8/2.9 and 1.3/0.6/0.6). Rates of grievances decline slightly during, and then rebound (28.8/20.4/28.8).

Ecological Conservation Technicians

From data on 139 conservation technicians, we see lower racial diversity than the general population: 78% White compared to 71% White statewide. Asian/Pacific Islanders show a relatively high rate of participation, 8% compared to 4% statewide, and Black technicians are relatively rare, 10% compared to 18% statewide.

Comparing pre-program, during program, and post-program rates, general infractions are higher *during* the program, and then drop to below the pre-program rate (9.7/11.7/4.9). Serious and violent infraction rates drop during and post-program (3.0/2.2/2.2 and 1.0/0.0/0.1). Rates of grievances decline during and post-program (10.9/4.1/2.4).



WDFW Biologist Stefanie Bergh and LCC Turtle Technician Damian Larson shaking hands after a successful turtle release. Photo by Sadie Gilliom.

Since the first SPP conservation program in 2009, 91 have released from prison. Again, most of these have been in the community less than 2 years. 87% have not returned to prison; this does not satisfy WA Corrections definition of recidivism, but it suggests relatively successful reintegration.

Questions for Further Study

These findings suggest future inquiry and/or program development:

- How to promote more racial diversity in SPP workshop/lecture series and ecological conservation programs?
- What accounts for increase in general infractions for Roots Instructors and Conservation technicians during participation?
- To gauge recidivism rates, repeat data request in ~2 years

10. SPP Network

SPP-WA

SPP functions as a statewide movement more than ever. We maintained a high level of contact with all Washington state prisons during FY17. We created our first in-prison statewide event, the Beekeeping Summit, at which all facilities were represented. We received high quality responses to our annual reporting requests from nearly every facility. Two areas that warrant improvements:

- Clarifying SPP's "brand": both WA Corrections and Evergreen initiated programs are SPP; WA Corrections leadership and policy recognize *all* environmental education, science and sustainability programs in WA prisons as part of SPP; brand helps bring program interest and funding.
- Ongoing clarification of program partner roles and expectations: most program challenges stem from role confusions.

SPP Network-International

No dedicated funding for a national and international expansion of the model has been available. However, involvement in SPP-model programs continues to grow, and particularly the multi-state programs such as Nature Imagery in Prisons and Sagebrush in Prisons require frequent national contacts. In addition, we provide limited support to new and existing Network contacts, explore and develop national contacts, and lay plans for future development. SPP-WA continues to act as the primary point of contact for the SPP Network and is recognized by other countries, states, and counties for leadership in environmental education and nature programs in prisons.

New national and international contacts are summarized in Table 25, as are the established national and international partners with whom we had the most contact in FY17.

Table 25. SPP Presentations FY17 (see [Appendix 3](#) for abbreviations)

New contact in FY17: Title/profession, organization	Interest in SPP	State	Country
Travis County Corrections	Initiating programs in Travis County	Texas	
Deputy Sheriff in the Corrections Bureau	County jail looking at any way possible to become a greener facility	New York	
College of William & Mary working on an article in conjunction with the Pulitzer Center on Crisis Reporting.	Covering prison farms and sustainability	Virginia	
Sheriff's office, Alachua County, Florida	Interested in talking to the sheriff's office here about taking part in this program	Florida	
Undergrad, Prescott	Senior project on environmental ed program for Juvenile Detention Center	Arizona	
Program Coordinator, Ecological Education Program, Sagebrush Project, IAE	Sagebrush programs	Oregon	
Villanova University	Biology class at Grateford Prison	Pennsylvania	
Beekeeper	Interested in SPP programs in their area	California	
Poland prisons; just received for PhD studies at the Institute of Sociology at Adam Mickiewicz University in Poznan	compare environmental correctional programs in US and Poland	International	Poland
Community Nutrition & Food Safety Cape Cod Cooperative Extension	Corrections-grown food for inmate kitchen	Massachusetts	

Warden/ Nebraska Correctional Center for Women	Wanting to develop a Horticulture program	Nebraska	
Senior at the University of Southern Maine, staff for Maine DOC	Senior research paper on sustainable operations in Maine prisons	Maine	
Supervising Rehabilitation Therapist; California Department of State Hospitals	Considering butterfly program in a hospital	California	
Masters student at the Australian National University	Wrote a paper for the journal <i>Solutions</i> which highlights SPP as model	International	Australia
Winston Churchill Fellowship 2017	Visitor to horticulture programs in April 2017	International	UK
Middlesex Sheriff's Office	Wants to start beekeeping in prisons	Massachusetts	
Recycling and Sustainability Manager for the Virginia Department of Corrections	Sustainable operations and education in corrections	Virginia	
Assistant Director, University Sustainability Practices, Arizona State University	Establish a desert tree nursery with Arizona Department of Correction, trees used to reduce Urban Heat Island	Arizona	
Food & Nutrition Coordinator – Upstate New York, Humane Society	Working closely with our local correctional facility on a garden therapy program	New York	
SF State U, Dr. Pinderhughes student	Wants interview about Roots of Success	California	
Energy Conservation & Sustainability Administrator, Ohio Department of Rehabilitation and Correction	New sustainability lead for OH Corrections	Ohio	
Graduate student	Computer programming as STEM ed in women's prison	Ohio	
TERC and The New Garden Society	SPP supported an INCLUDES proposal to enhance Hort programs with adult mathematics ed	Massachusetts	
Division of Development: Improvement and Readiness, Florida DOC	Nature imagery	Florida	
Postdoctoral researcher at the University of Colorado	Volunteered w INSPIRE and wants to do more	Colorado	
Warden Work Ethic Camp, NE DOCS	Therapeutic color schemes; ecological projects for connectedness and responsibility for the environment	Nebraska	
San Mateo County Health Department	Interested in SPP programs in their area	California	
Writer and Documentary Filmmaker	Nature imagery nationwide	national	
The Cultural Conservancy; American Indian Studies, SFSU; https://faculty.sfsu.edu/~mknelson	Co-presenter for Earth Ed webinar	California	
Contractor for IAE, Montana State Prison lecture series	Lecture coordination	Montana	
Parsons in New York City	Capstone project, rehabilitation in prison, sustainability and horticulture	New York	
Department of Geology Southern Illinois University Carbondale	Interested in SPP programs in their area	Illinois	
Nurse practitioner at Fluvanna Correctional Center for Women in Virginia	Adding gardens and greenhouses	Virginia	
Conservation and Research Department, Zoo Miami	Interest in forming a partnership for endangered butterflies	Florida	

Managing Director, Security and Sustainability Forum	Hosting webinar on Earth Ed	national	
Secure Custody Instructor, North Fraser Pretrial Centre	Worm composting, following MCC model	British Columbia	Canada
Education and Communications Lead, NASA Astrobiology Program	Astrobiology lectures in prisons nationally	national	
student in the Roosevelt Institute chapter at Carnegie Mellon University	Writing a policy proposal, nature in prisons as a stress relieving program	Pennsylvania	
Partnership Manager, Island Press	Publisher for <i>State of the World</i>	national	
Associate Professor and Director, Counseling Programs, James Madison U	Ground eco therapy in research, like eco-psychology is	Virginia	
Sagebrush in Prisons Project, Coordinator for Nevada	Strong educational offering within the program	Nevada	
Integrity (business)	Sustainability programs in Arkansas prisons	Arkansas	
Facility Management Services, CO DOC	6 statewide reduction goals; want to initiate SPP model programs	Colorado	
Education Director, MCF-Shakopee, Minnesota Dept of Corrections	Wants to start beekeeping in a women's prison	Minnesota	
NPP University of Montana	Interested in SPP programs in their area	Montana	
Undergrad research team, University of Queensland	Exploring the concept of altruism within the prison system	Queensland	Australia
Conservation and Research Department, Zoo Miami	Working with neighbor prison surrounded by ecosystem of interest	Florida	
Fish and Wildlife and Parks	Gearing up to start sagebrush program, with excellent enhancements	Montana	
Department of Conservation & Natural Resources, TreeVitalize.net	Developing an arboriculture program	Pennsylvania	
Most active established partners nationally and internationally, FY17	Interest in SPP	State	Country
Assistant Professor, Simon Fraser University	Studying altruism and well-being in WA programs.	British Columbia	Canada
MSW Candidate, University of Denver	Studying impacts of pet programs in prisons	Colorado	
Doctoral Student, Experimental Forensic Psychology, Simon Fraser University	Studying altruism and well-being in WA programs	British Columbia	Canada
Multiple staff members	Sagebrush programs	Oregon	
Associate Research Professor, Institute for Human-Animal Connection, U of Denver	Ongoing relationship; studying impacts of pet programs in prisons	Colorado	
University of Utah, all team members	Nature imagery in prisons	national	
Sustainability Programs Manager, Oregon Department of Corrections	SPP-Oregon	Oregon	
Freelance journalist & author, consultant at Shimane Asahi Rehabilitation Program Ctr	Interested in SPP programs in their area	International	Japan

During this fiscal year, SPP-Washington's Kelli Bush and Joslyn Rose Trivett partnered with University of Utah's Nalini Nadkarni and conducted a meeting with an SPP Network Core Team to further development of the Network. While this effort has been suspended, we see strong potential to lead and support nationwide development and implementation of SPP-model programs. The quantity of new and ongoing contacts, plus their responses to SPP-WA expertise, point to powerful, largely untapped

resources. We are able to leverage existing resources to provide minimal support and resources; with funding for additional staffing, we could provide higher quality leadership nationally and internationally.

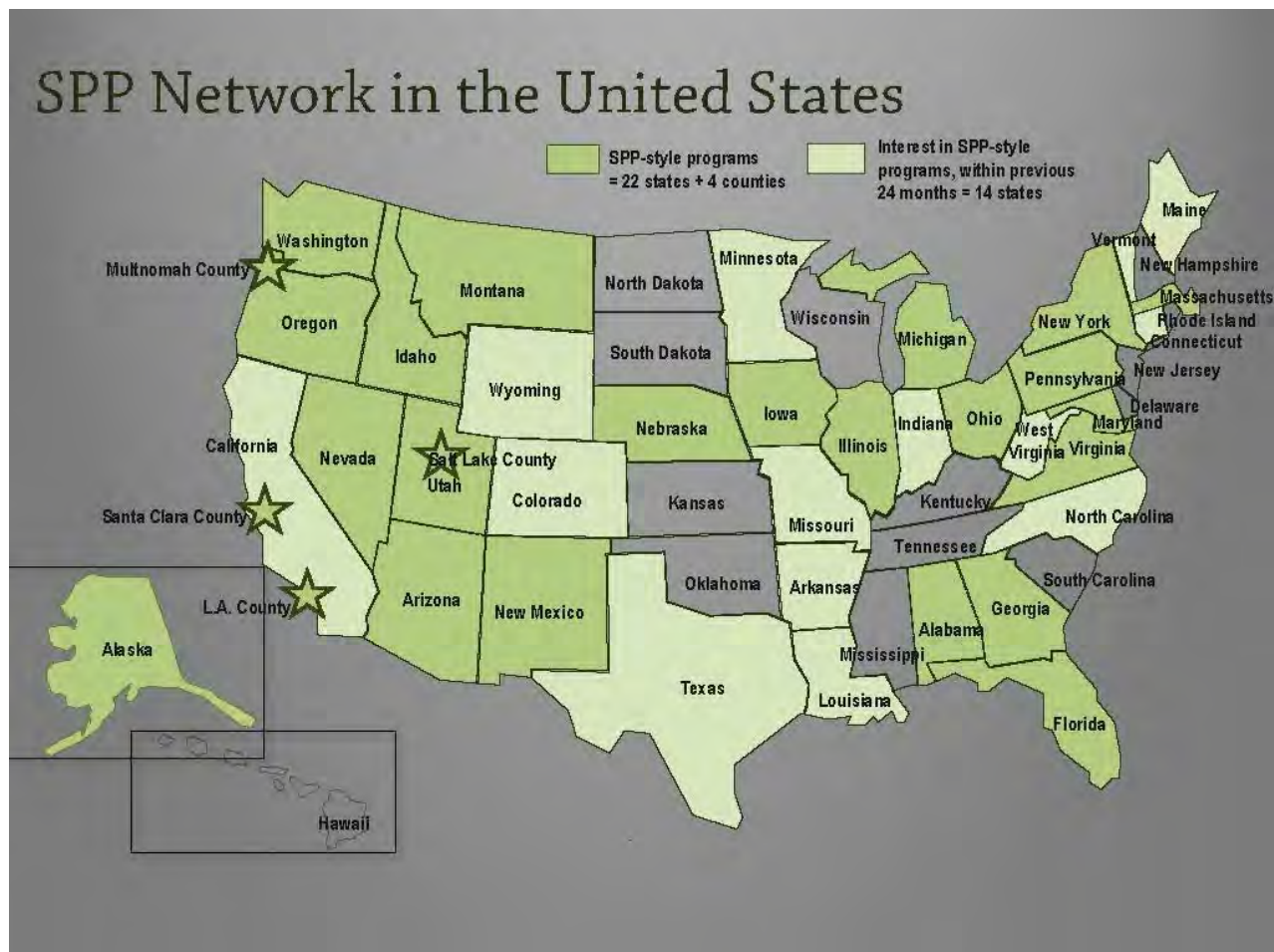


Figure 3. Implementation (shown in darker green) of and interest (shown in lighter green) in SPP model programs in the United States.

11. Dissemination

Presentations and Events

In FY17, SPP-Evergreen staff presented at a variety of venues to highlight specific programs or represent SPP as a whole. In addition, we attended numerous events at which we made informal or brief presentations representing the organization; examples include tabling at Prairie Appreciation Day and speaking at Roots of Success graduation celebrations. A summary of presentations is given in Table 26. SPP-WA Corrections staff made presentations on sustainability initiatives that are not shown here.

Table 26. SPP Presentations FY17 (see [Appendix 3](#) for abbreviations)

Date	Presenter(s)	Title	Venue
7/28/16	Liliana Caughman	SPP overview	Lunch and Learn, Dept of Ecology
8/22/16	Jeanne Dodds	Scientific Illustration	AHCC
8/25/16	Kelli Bush & Joslyn Rose Trivett	SPP Overview, Green Track, in-prison outreach, Nature Imagery programs	Superintendents' Meeting
9/1/16	Steve Sinclair	WA Corrections progress on Results WA Goal 5: Resource Stewardship	Governor's Meeting
9/6/16	Dr. Barb Toews	Designing Justice: An Introduction to Restorative Justice	Horticulture class – WCCW
9/8/16	Rebekah Golden, Bee Thinking	Beekeeping Basics	Larch Corrections Center
9/23/16	Kelli Bush & Mary Linders	Butterfly Program	Saint Martin's University
9/29/16	Sadie Gilliom	Western Pond Turtle Program	Western Pond Turtle Health Meeting
11/2/16	Sadie, Emily, Lilliana, Fawn	SPP from Program Coordinator Perspective (panel)	Learning Across Differences, MES class
10/5/16	Carolina Landa	Working in an SPP Program as a Conservation Technician	Learning Across Differences, MES class
10/13/16	Kelli Bush & Carl Elliott	Cultivating Place: Sustainability in Prisons Project	North State Public Radio, Cultivating Place
11/9/16	Dan Pacholke & Sandy Mullins	Past, present, and future of corrections in the US	Learning Across Differences, MES class
11/2/16	Seth & Butterfly Technicians	SPP Butterfly Program	Taylor's Checkerspot Butterfly Working Group meeting
11/30/16	Kelli Bush & Steve Sinclair	SPP Overview	Tumwater Rotary Club
1/19/17	Kelli Bush & Sadie Gilliom	SPP Western Pond Turtle Program	Western pond turtle working group meeting
1/21/17	Kelli Bush and Steve Sinclair	SPP overview and opportunities	DOC Family Council Meeting
1/31/17	Joslyn Trivett & Emily Passarelli	Nature's role in healing and redemption	WCCW Exec Leadership Team Meeting
2/2/17	Sadie Gilliom	Impacts of SPP turtle and butterfly programs on DOC staff	SPP Advisory Panel
2/2/17	Lilliana Caughman	Lecture Series Data	SPP Advisory Panel
2/2/17	Emily Passarelli	Lasting identity and attitudes shifts in former SPP program participants	SPP Advisory Panel
2/22/17	Joslyn Rose Trivett	Opportunities for Evergreen students and faculty in SPP programs	Environmental Studies Planning Unit

3/7/17	Sadie Gilliom	SPP Western Pond Turtle Program overview	Oregon Zoo
3/15/17	Carl Elliott	UW Botanical Symposium	Poster on Conservation Nursery Manual
4/6/17	Joslyn Rose Trivett	SPP Overview	Black Prisoners Caucus at Cedar Creek
4/7/17	Kelli Bush	SPP Overview; Increasing educational opportunities; Partnerships	SPP Leadership Meeting, The Evergreen State College
4/1/17	Chris McGill	Sustainable Practices in Prison	Unknown
4/20/17	Joslyn Rose Trivett	Sustainability Education in Prisons: Transforming Lives, Transforming the World	State of the World 2017 Launch, Appalachian State University
4/27/17	Sadie, Kelli, Emily, Joey	SPP Overview, MES student opportunities in SPP	MES Admitted Students Day
5/1/17	Chris McGill	Sustainable Practices in Prison	SPL Tour
5/13/17	SPP staff	SPP Overview (tabling)	Prairie Appreciation Day
6/6/17	Emily Passarelli	Becoming Environmentalists: Previously incarcerated individuals' experiences with science and sustainability programs in prison	MES Thesis Presentation, Evergreen
6/6/17	Sadie Gilliom	Insight into the impacts of the SPP's Western pond turtle programs on the work environment of WA Corrections prison staff	MES Thesis Presentation, Evergreen
6/1/17	Chris McGill	Sustainable Practices in Prison	Associate Corrections, Annual Meeting

SPP Tours

SPP staff from Evergreen, and WA Corrections staff at each facility regularly host visitors interested in SPP programs. A summary of tours reported for FY17 is in Table 27; we believe this greatly underrepresents tours conducted by WA Corrections staff, but do not have more data available.

Table 27. Tours of SPP programs, FY17

Date	Location	Visitors	Program areas
2012-16	WSP-SPL	Various, 298 tours	SPL programs
7/7/16	CCCC	Rachel Friedrich & Tim Kelly	Turtle shed
7/7/16	WSP	William Gatchel & William Clemens, program managers	SPP programs
7/21/16	WSP	Ricky Osborne, Joslyn Trivett, Emily Passarelli	Beekeeping program
7/22/16	WSP	Ricky Osborne, Joslyn Trivett, Kelli Bush, Emily Passarelli	SPL programs
8/8/16	WCCW	Ricky Osborne, Emily Passarelli	Roots of Success, Gardens, Beekeeping
8/8 – 8/18/16	10 facilities	Dr. Kevin Morris & Dr. Amy Fischer, University of Denver-Institute for Human-Animal Connection	Dog Programs
8/12/16	WSP	EMP2 Rep for PP&L Incentive	IMU North
8/16/16	OCC	Ricky Osborne, Joslyn Rose Trivett	SPP programs
8/18/16	MCC	Ricky Osborne, Kevin Morris, Emily Passarelli	Roots of Success, Vermiculture
8/18/16	LCC	Dick Morgan, Secretary for WA Corrections	Turtle Building, Cat Program
8/20/16	SCCC	Daniel Cherniske, aquaponics expert	Aquaponics

8/22/16	OCC	Chamber of Commerce	SPP programs
8/22/16	AHCC	Ricky Osborne, Jeanne Dodds, Kelli Bush, Emily Passarelli	Gardens, Beekeeping, Roots of Success
8/23/16	CRCC	Ricky Osborne, Emily Passarelli	Gardens, Wood shop, Roots of Success
8/31/16	CCCC	ReForm Grant Participants	Inside Grounds/SPP Programs
9/8/16	WSP	EMP2 Rep for PP&L Incentive	SPL & SC Rec
9/12/16	CCCC	Jeffrey Swan, Elisea Garcia	Inside Grounds/SPP Programs
10/4/16	WCCW	Debbie Sturm, James Madison University	SPP Programs
10/18/16	WSP	EMP2 Rep for PP&L incentive	Power Plant
10/27/16	WCC	Mason County Fire Chiefs	Nature Imagery Program and SPP Violet Program
11/14/16	WSP	Sustainable Living Center Reps, SmartBusiness Dir, City of Walla Walla	Facility-wide
2/3/17	MCC-WSR	Rachel Mueller	Worm Farm
2/6/17	LCC	Kelli O'Connor	Dog Program
2/10/17	MCC-WSR	William Patton	Worm Farm and SPL
3/1/17	WSP	Leadership Walla Walla	Sustainable Practices Lab
3/8/17	MCC-WSR	UW Law Students	MCC WSRU Building 2/SPL
4/7/17	MCC-WSR	Gavin Sawle BC Corrections	MCC WSRU Worm Farm
4/26/17	WSP	Margo Heffron, Whitman College	Facility-wide
4/26/17	CCCC	Symbiotic Cycles	Aquaponics
5/1/17	MCC-WSR	Ramirez, Katia- Bockelman, Patrick- Griffin, Kimberly	MCC WSRU Worm Farm
5/12/17	LCC	Leadership Clark County Event	SPP programs
5/23/17	CCCC	Pierce College Tour	Inside Grounds/SPP Programs
5/24/17	CCCC	Legislative Tour	Inside Grounds/SPP Programs
5/30/17	WCCW	Atsuko Otsuka, journalist	SPP programs
5/31/17	WCCW	Atsuko Otsuka	SPP programs
5/31/17	WCC	Richard Eltringham, Winston Churchill Fellowship 2017	Nature Imagery Program and SPP Violet Program
6/1/17	MCCCW	Atsuko Otsuka	SPP programs
6/6/17	AHCC	Atsuko Otsuka	SPP programs
6/7/17	MCC-WSR	Morgan Huber, Cocoon House	Bike and Wheelchair Repair
6/8/17	SCCC	Atsuko Otsuka	SPP programs
6/13/17	MCC-WSR	Kraig Witt and Kenneth Avery, AHCC	Worm Farm
6/14/17	MCC-WSR	Snohomish Boys and Girls Club	Building 2/SPL
6/29/17	LCC	DNR	SPP Programs

SPP Products, Publications, and Internships

Self-Published

In FY17, we produced and provided outreach and education materials for several prisons. In addition to several conservation program materials, we created SPP overview slides for WCC public access, beekeeping posters for CBCC and WCCW. We created in-prison one pagers for Roots of Success and [Beekeeping](#) programs. We discontinued work on an in-prison SPP orientation video for inmates and staff due to production problems.

We published Summer 2016 and Winter 2017 Newsletters on schedule and distributed widely via email, website, and print.

Formal Publications

SPP publications for FY17 are summarized below; items that were in review previously but published in FY17 are included.

Trivett, J.R., R. Pinderhughes, K. Bush, L. Caughman, and C.J. LeRoy. *Sustainability Education in Prisons: Transforming Lives, Transforming the World*. In: State of the World, 2017. Worldwatch Institute, 2017.

Buckingham, D. A., M. Linders, C. Landa, L. Mullen, and C.J. LeRoy. *Oviposition preference of endangered Taylor's checkerspot butterflies (*Euphydryas editha taylori*) using native and non-native hosts*. Northwest Science. Vol. 90, No. 4, 2016.

Internships

In FY17, SPP staff supervised two academic internships:

- Summer quarter 2016 – Jeanne Dodds completed several efforts in support of a milkweed program at AHCC; milkweed is a key food source for monarch butterflies. Her activities included developing protocols and partnerships, adapting a curriculum, compiling a program cost estimate, and presenting a science illustration and monarch education workshop.



Master of Environmental Studies graduate student Jeanne Dodds presented a science illustration focused on monarch butterfly conservation as part of her summer internship. Photo by Ricky Osborne.

- Fall quarter 2016 – In addition to her duties as Green Track Coordinator, Emily Passarelli made substantial progress preparing for and organizing the Statewide Summit for Beekeeping in Prisons. She attended two planning meetings at the host prison, and advanced problem solving, strategizing, and completing key tasks.

Formally and informally, we continue to support and work with numerous additional students, graduates, and undergraduates. We met the research interests of several groups of Evergreen students in FY17. Contacts with students outside of WA are detailed in the Network section of the report. Two

Master of Environmental Studies students studied SPP programs for their theses, and both projects entailed significant SPP-Evergreen staff support; results are described in [Evaluations](#).

Media Coverage

In FY17, SPP-WA was featured in more than 26 stories from local, regional, and international media outlets. The table below includes all of the pieces SPP-Evergreen staff tracked during FY17. Links for each of the pieces are available on SPP's website at <http://sustainabilityinprisons.org/press/press-archive/>.



Table 28. SPP Media FY17

Date	Paper/Source	Author	Title
8/5/2016	triblive.com	The Washington Post	Nature videos made violent prisoners more peaceful
8/11/2016	HuffPost Live	WA Corrections (edit)	Bringing Environmentally Friendly Practices Behind Bars HuffPost Rise
8/11/2016	Sage Grouse Initiative	Brianna Randall, photos by Stacy Moore/Jessie Brothers	Why Grow Sagebrush Seedlings in Prisons?
8/12/2016	Terrapin Bright Green	Lilli Fisher	Prison, Nature and Social Structure
8/16/2016	New4Nevada	Debra Reid	Inmates help restore sage grouse habitat: Sage grouse remains off endangered list due to prisoners' efforts

9/7/2016	National Geographic: Explorer Moments	Gary Strauss	Biologist Wants Nature for Everyone - Including Prisoners
9/8/2016	Heatspring Magazine: Sustainable Womens Series	n/a	Fostering Sustainability in Prisons + Reducing Emissions/Consumption
10/6/2016	The Washington Times/AP	Paul Gottlieb	Clallam Bay inmates reunite with reformed dogs
10/17/2016	Civil Eats	Amy McKeever	Philadelphia's Prison System is Fighting Food Waste and Recidivism with an Organic Farm
10/20/2016	North State Public Radio	Jennifer Jewel & Sarah Bohannon	Cultivating Place: Sustainability in Prisons Project
10/23/2016	Clark County Today	Joanna Yorke	Sustainability programs at Larch 'therapeutic' for inmates
11/1/2016	The Chronicle	Jordan Nailon	'This Is Pretty Dope Community Service' : No Child Left Inside Grant Opens Doors for Juvenile Offenders
11/21/2016	The Spectrum	Haven Scott	BLM restoring land with aid from inmates
12/1/2016	Ecology e-news	Ministry of Justice Shared Estates	Projects in Focus: What's new with our International Partners and Sustainability in Prisons Project
12/15/2016	Camas-Washougal Post-Record	Dawn Feldhaus	Rehabilitating offenders and canines at Larch Corrections Center
12/15/2016	KXLY	Jeff Humphrey	Stray dogs become inmate therapy at Airway Heights prison
12/20/2016	Overlook Press	Caren Cooper	Citizen Science: How Ordinary People are Changing the Face of Discovery
1/26/2017	Bureau of Land Management	Toshio Suzuki	A sagebrush sea change from behind barbed wire
2/10/2017	History Now	n/a	Dan Pacholke is Saving Taxpayer Dollars by Bringing Sustainability to Prisons
2/23/2017	OPB (Oregon Public Broadcasting)	n/a	Oregon Field Guide: Sagebrush in Prisons Project
3/23/2017	Wilsonville Patch	Travis Loose	Oregon Corrections Inmates to Protect, Raise Endangered Butterflies
4/5/2017	Huffington Post	Dominique Mosbergen	Bees Are Slowly Going Extinct. These Prisoners Are Trying To Stop That.
4/18/2017	Fox 12 Oregon	Simon Gutierrez	Rescue dogs get second chance with help from inmates at Larch Corrections Center
4/23/2017	Fox 28 Spokane	Val Hughes	PAWSITIVE DOG PRISON TRAINING PROGRAM—ADOPTERS TELL THEIR STORIES
4/25/2017	WA Corrections News Release	Jeremy Barclay	PRESS RELEASE: Governor Inslee Names Stephen Sinclair Secretary of the Department of Corrections
5/1/2017	The Solutions Journal	Rosemary Elkins	Slowing Australia's Revolving Prison Door through Biodiversity Conservation Projects

Website/Social Media

During the reporting period, SPP-Evergreen staff, wrote or adapted and published 49 [posts](#) for SPP's website sustainabilityinprisons.org. We employed an Evergreen student to update and modernize website layout and navigation. Also, we expanded and updated the Resources area of our website, offering separate pages and more detailed information and resources for:

- General resources: re-entry, curricula, supporting studies, education and training opportunities, and green collar jobs
- SPP publications: guidebooks, annual reports, one-pagers, newsletters, and academic papers
- Allied organizations: lead organizations working on criminal justice, environmental justice, education, horticulture, re-entry, and sustainable operations
- SPP Families: resources for families' with incarcerated loved ones, and child-appropriate content on ecological conservation

SPP's main outlet for social media continues to be Facebook

(www.facebook.com/sustainabilityinprisons), although we increasingly use twitter as well

(twitter.com/SPP_WA). On Facebook, we posted on a wide variety of topics, and our Likes increased from 1,450 to 1,781. The posts that attracted the most attention were:

1. March 6, 2017 KOMO 4 news article on Beekeeping Summit (share) - 13.46 K
2. April 4, 2017 Huffington Post article on beekeeping in prisons (share) - 3.59 K
3. February 15, 2017 BlackBoot article on a youth in Louisiana doing great work on 'school to prison' pipeline (share) - 2.57 K
4. March 27, 2017 Report on Beekeeping Summit at WCCW (blog) - 2.48 K
5. August 22, 2016 WCC harvested over 20,000 lbs. for food banks (photo post) - 1.86 K
6. July 1, 2016 Eight staff at Airway Heights become apprentice beekeepers (photo post) - 1.78 K
7. February 23, 2017 Update on Beekeeping Summit and beekeeping in prisons (blog) - 1.57 K
8. February 6, 2017 New Instagram account highlighting SPP photographers (link/photo post) - 1.44 K
9. May 3, 2017 Steve Sinclair appointed as Secretary of Prisons (share) - 1.4 K
10. August 11, 2016 Huffington Post article on SPP bringing nature inside prisons (share) - 1.38 K

Awards

Gretchen Graber, Sagebrush program coordinator for WA facilities, was named [Tapteal Conservationist](#) for 2016 by the Lower Columbia Basin Audubon Society.

WA Department of Ecology recognized both CBCC and CCCC's wastewater treatment facilities.

Appendix 1. SPP Program in Washington State Prisons FY17

We reported on 186 SPP programs in Washington State's 12 prisons this year; see Table 29, below. Several additional programs were in development during the reporting period, and most of those are not indicated here. For links to programs, partner organizations, and highlights for each program, see <http://sustainabilityinprisons.org/what-we-do/spp-programs-in-washington-state-prisons-v2/>

Table 29. SPP-WA Programs

Airway Height Corrections Center (AHCC)

Roots of Success, environmental course
Beekeeping
Vegetable gardens: Minimum
Vegetable gardens: Main
Horticulture
Flower gardens
Pollinator forage and habitat
Waste sorting & recycling
Large-scale composting
Worm farm: Main
Worm farm: MSU
SPL: Quilting
Computers 4 Kids
Pawsitive dog training – prison program
Nature imagery
Firewood donation

Cedar Creek Corrections Center (CCCC)

Horticulture, including aquaponics
Beekeeping
Western pond turtle care
Prairie Restoration crew
Woodpecker predation study, in development
Vegetable gardens
Flower gardens
Waste sorting & recycling
Large-scale composting
Water use reduction and catchment
Training dogs for veterans

Clallam Bay Corrections Center (CBCC)

Roots of Success, environmental course, & Redemption
Beekeeping
Vegetable gardens
Flower gardens

Dog training and adoption
Cat program
Water catchment
Waste sorting & recycling
Cloth hand towels (waste reduction)

Coyote Ridge Corrections Center (CRCC)

Roots of Success, environmental course
Conservation nursery, sagebrush
Sustainability Lecture Series
Heritage Garden
Gardens: Minimum
Pumpkin patch
Plant and animal habitat
CRCC land restoration
Nesting platforms
Beekeeping
Worm farm
Composting: Medium
Composting: MSU (in development)
Waste sorting & recycling
Ridge Dogs
Mother and kitten foster
Toys for Tots
Teddy bears from reclaimed materials

Larch Corrections Center (LCC)

Roots of Success, environmental course
Western pond turtles care
Beekeeping
Plantain, food source for Taylor's checkerspot butterfly
Bird feeders
Vegetable gardens
Flower gardens
House plants
Large-scale composting
Waste sorting & recycling
Waste reduction
Food waste reduction
Wood craft donations
Larch Dog Adoption Program
Larch Cat Adoption Program



Atsuko Otsuka, a freelance journalist and author from Japan, made multiple visits to WA Corrections prisons this year. Here she learns about the butterfly program from a technician at MCCCW. Photo by Keegan Curry.

Mission Creek Corrections Center for Women (MCCCW)

Roots of Success, environmental course
Taylor's checkerspot butterfly program
Project Feeder Watch
Bird boxes
Beekeeping (in development)
Kitsap Conservation District Clear Creek Project
Vegetable gardens
Flower gardens
Small-scale composting
Conservation crews
Plant and animal habitat
Waste sorting & recycling
Water use reduction & catchment
Pawsitive Prison Project
House plants

Monroe Correctional Complex (MCC)

Roots of Success, environmental course
House plants
Plant and animal habitat
Flower gardens, boxes, baskets
Waste sorting & recycling
Water use reduction & catchment

Waste Water Treatment Certification
SOU
Vegetable gardens
Cat program
TRU
Vegetable gardens
Dog training and adoption
Craft donation
WSR
Composting programs: worm farm, black soldier flies, bokashi
SPL bikes
SPL Wheelchair program
SPL Woodshop
Vegetable gardens



A small, energy efficient house serves as an accessible model for post-release living for students of OCC's Green Building program, taught by Peninsula College instructor Phil Goetze. Photo by Ricky Osborne.

Olympic Corrections Center (OCC)

Vegetable gardens
Horticulture
Pollinator-friendly plantings
Flower gardens, boxes, baskets
Water features
Beekeeping
Chickens
Large-scale composting
Waste sorting & recycling
Solar power

Waste Water Treatment
Water catchment
Wood shop
OCC Dog Program
Green Building
Firewood

Stafford Creek Corrections Center (SCCC)

Roots of Success, environmental course
Lecture/Workshop Series
Seed to Supper
Prairie Conservation Nursery
Emergent Vegetation Mats
Beekeeping
Gardens and greenhouses
Lifer Garden
Food Bank fundraisers
Large-scale composting
Waste sorting & recycling
Water catchment
Bicycle Repair
Wheelchair Repair
Freedom Tails
Service dogs for veterans
Flower gardens, boxes, baskets

Washington Corrections Center (WCC)

Roots of Success, environmental course
Prairie Conservation Nursery
Horticulture
Gardens & greenhouses
Plant starts
Neighborhood Pantry project
Flower gardens
Nature Imagery
House plants
Large-scale composting
Waste sorting & recycling
Shoe & clothing repurposing
Training dogs for veterans

Washington Corrections Center for Women (WCCW)

Roots of Success, environmental course
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Lecture/Workshop Series
Prairie Conservation Nursery
Gardens & greenhouses
Flower gardens
Horticulture
Prison Pet Partnership
Beekeeping
Chickens
Mother Earth Farm
Large-scale composting
Bicycle Repair
Quilts and other fabric crafts
Waste sorting & recycling
Electric vehicles
Lighting upgrades

Washington State Penitentiary (WSP)

Monarch program
Gardens & greenhouses: Institutional Sustainability Garden
House plants
Waste sorting & recycling
Electrical upgrades
Water conservation
EC
Beekeeping
Flower gardens
EC & SC
Rental garden boxes
SPL
Bicycle Refurbish
Wood Shop
Wood Carving
Learning Center
Aquaculture and Aquaponics
Worm Farm
Furniture Repair
Sign Shop
Teddy Bears
Quilting
Sagebrush Conservation Nursery
Roots of Success, environmental course
Green Zone
Water filtration pilot

Appendix 2. SPP Programs Partners in Washington State Prisons

Complementing the efforts of founding partners WA Corrections and Evergreen, program partners contribute to almost every SPP program. Most programs would not be possible without their input, enthusiasm, and resources. In FY17, we have 117 known and named partners. Considering that the Sustainable Practices Lab has donated program creations to more than 400 charitable organizations, we believe the actual number is far greater!

Table 30. SPP-WA Partners (Partnering with DOC, Evergreen, or both)

Adam County Pet Rescue
ARC of Tri-Cities
Bee Thinking
Benton Franklin Humane Society
Blessings Under the Bridge
Brigadoon Service Dogs
Bureau of Land Management
Calm Waters
Canyon Creek Cabinet Company
Center for Natural Lands Management
Centralia College
Cherish our Children
City of Monroe
Clark County Beekeeping Association
Clark County Food Bank
Coastal Harvest
Cocoon House
Community Aide Coalition (CAC)
Cornell University
Correctional Industries
Diamonds in the Ruff
Domestic Violence Services of Snohomish County
Emergency Food Network
Farm to School
Fircrest Residential Habilitation Center
Forks Chamber of Commerce
Forks Lions Club
Forks Soroptimists
Franklin County Sheriff's Office
Friends of Puget Prairies
Gig Harbor Food Bank
Gospel Mission
Great Peninsula Conservancy
Harbor Association of Volunteers for Animals (HAVA)
Harvest Now
Hood Canal Salmon Enhancement Group
Hospitals
Humane Society for Southwest Washington
Institute for Applied Ecology
Joint Base Lewis-McChord
Kalaoloch Lodge
Kitsap Humane Society
Kitsap Conservation District

Kitsap County Public Works
Kiwanis Hoodsport
KNS Recycling
KP Middle School
Lettuce Grow
Lions Club
Littlerock School District
Lower Columbia Basin Audubon Society
Master Composters
Master Gardeners
Mid Columbia Beekeepers
Millers Homestead
Mother Earth Farm
Nature Imagery in Prisons Project
North Olympic Peninsula Beekeepers Association
Northwest Trek
Office of the Superintendent of Public Instruction
Olycap
Olympia Beekeeping Association
Olympic Anglers
Olympic Peninsula Humane Society
Oregon Food Bank
Oregon State University Extension Service
Oregon Zoo
Pacific Rim Institute for Environmental Stewardship
PAWS
Peninsula College
Project 41
Purrfect Pals
Quileute High School
Quillayute Valley Scholarship Auction
Quillayute Valley School District
Real Food Network
Relay for Life
Roots of Success
School Districts- OSPI , DES
Second Harvest Food Bank
See the Bees
SNAP Spokane
Snohomish Boys & Girls' Club
Snohomish County Sheriff's Office
SpokAnimal
Summit Assistance Dogs
Tacoma Community College
The City Reach Food Bank
The Saint's Pantry Food Bank
The Shelton Community Kitchen
Thurston County Food Bank
Tilth Alliance
Timber Museum
Town of Steilacoom
Tri-Cities Toys for Tots

University of Utah
U.S. Fish and Wildlife Service
Walla Walla area charities: SPL has donated to \$120,000 worth of furniture
Walla Walla Police and Sheriff's Department
Washington Department of Fish and Wildlife
Washington Department of Natural Resources
Washington State University Department of Entomology
Waste Connections
Waste Management
Welfare for Animals Guild (WAG!)
West Plains Beekeepers Association
Westport Shipyard
West Sound Beekeepers Association
West Sound Wildlife
Wheels for the World
Whidbey-Camano Land Trust
Wolf Haven International
Woodland Park Zoo
Women's Shelter of Monroe
WSU Extension, Pierce County
YMCA
YWCA
117 organizations + 100s of SPL charitable partners



Beekeeping students at CBCC hear from Mark Urnes of North Olympic Peninsula Beekeepers Association. The 12 students studied for months in advance; by the end of Mark's weekend-long intensive, they were able to pass all required tests and achieve apprentice beekeeper certification. Photo by Emily Passarelli.

Appendix 3. Abbreviations

Table 31. Common abbreviations found in FY17 Report.

Prisons	
AHCC	Airway Heights Corrections Center, Airway Heights (near Spokane)
CCBC	Clallam Bay Corrections Center, Clallam Bay (northwest Olympic Peninsula)
CCCC	Cedar Creek Corrections Center, Littlerock
CRCC	Coyote Ridge Corrections Center, Connell (south, central Washington)
LCC	Larch Corrections Center, Yacolt (northeast of Vancouver)
MCC	Monroe Correctional Complex, Monroe (northeast of Seattle)
MCCCW	Mission Creek Corrections Center for Women, Belfair (Kitsap Peninsula)
OCC	Olympic Corrections Center, Forks
SCCC	Stafford Creek Corrections Center, Aberdeen
WCC	Washington Corrections Center, Shelton
WCCW	Washington Corrections Center for Women, Gig Harbor
WSP	Washington State Penitentiary, Walla Walla
Organizations	
WA Corrections	Washington State Department of Corrections
ABKA	American Boarding Kennel Association
CI	Correctional Industries
CNLM	Center for Natural Lands Management
Evergreen	The Evergreen State College
IAE	Institute for Applied Ecology
JBLM	Joint Base Lewis-McChord
NSF	National Science Foundation
OR Zoo	Oregon Zoo
SPL	Sustainable Practices Lab
SPP	Sustainability in Prisons Project
USFWS	U.S. Fish and Wildlife Service
WDFW	Washington Department of Fish and Wildlife
WPZ	Woodland Park Zoo
DNR	Department of Natural Resources



Partners in the Sagebrush Conservation Nursery at CRCC. Photo by DOC staff.

SPP's Year in Photos



The emergent wetland vegetation mat (EVM) program at Stafford Creek Corrections Center (SCCC) expanded to increase native plant production. The highly-collaborative program was awarded a grant from U.S. Fish and Wildlife Service (USFW) to help fund research on this innovative restoration technique. In this photo, partners look at the roots of emergent plants that have grown through to the underside of a mat. Photo by SPP staff.



In collaboration with partners, SPP wrote a beekeeping guide to support establishment of more programs in Washington prisons. Following completion of the guide, we held a statewide Beekeeping Summit at Washington Corrections Center for Women (WCCW). About 125 participants spent the day sharing best practices. In the six months since the Summit, beekeeping programs have increased from 4 to 14 facilities statewide. Photo by Ricky Osborne.



We partnered with Tilth Alliance, corrections staff, and incarcerated people at Monroe Correctional Complex (MCC) to develop a certificate for composting program participants. New program components included supporting literature, fact sheets, workshops, and quizzes. Photo of Vermiculture technician showing the program to visitors by Sadie Gilliom.



Prisons made significant contributions to communities and sustainable food production including 14,601 donated items made from repurposed materials and more than 491,991 lbs. of produce grown for food banks and prison kitchens. Photo of gardeners at AHCC by Lieutenant Mayfield.



SPP Co-Director Steve Sinclair was appointed by the Governor as Secretary for WA Department of Corrections. We are thrilled Steve maintained his SPP directorship even as he took on greater responsibilities with the Department. Photo of Steve at the Beekeeping Summit by Ricky Osborne.

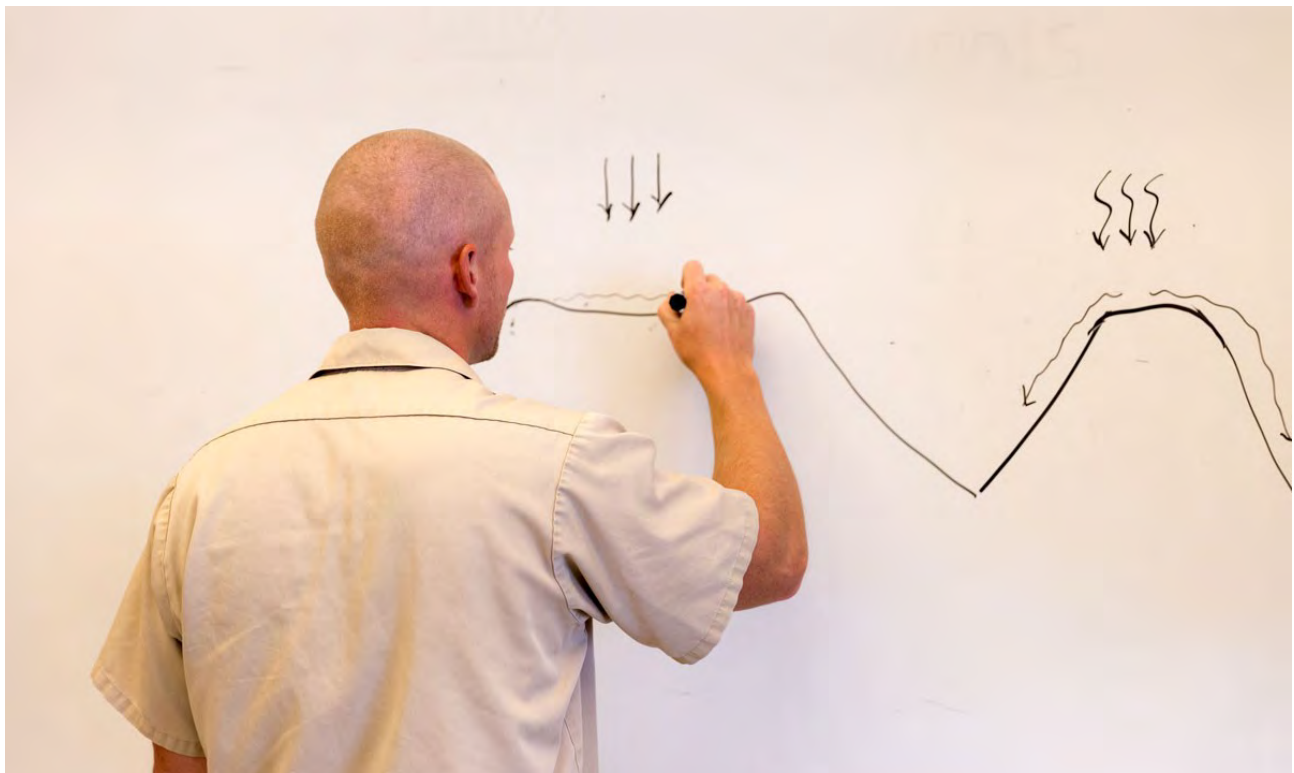
EarthEd Symposium and Live Webcast



SPP and [Roots of Success](#) staff wrote a chapter and participated in Worldwatch Institute's launch of [EarthEd: Rethinking Education on a Changing Planet, State of the World \(2017\)](#). We dedicated an issue of our bi-annual newsletter to the topic of Just Sustainability. Screen capture of Joslyn Rose Trivett presenting at State of the World 2017 launch.



SPP Workshop Series Coordinator and Evergreen graduate student Liliana Caughman analyzed workshop student surveys from 2009-2016. Findings showed environmental attitudes and content knowledge have improved over time. Results also helped managers identify changes for the series. Photo of Liliana Caughman presenting program results at WCCW by Joslyn Rose Trivett.



We offered OR Food Bank's Seed to Supper gardening and nutrition curriculum in the Conservation Nursery program at Stafford Creek Corrections Center. We also provided readings and facilitated discussions on topics such as climate change using guides from NW Earth Institute. Photo of a student in the Seeds to Supper class by Ricky Osborne.



Ricky Osborne photographed SPP programs in 10 prisons statewide, and at Evergreen. These quality images help us convey program experience and many are included in this report. Photos were only taken with subjects' permission. Photo of Sadie Gilliom giving their thesis presentation by Ricky Osborne.



SPP Education and Outreach Manager, Joslyn Rose Trivett, taught a course on SPP in Evergreen's Master of Environmental Studies program, "**Learning Across Differences: Collaborations in Conservation and Sustainability in Prisons.**" Photo of students and a guest expert by Joslyn Rose Trivett.



To further reduce reliance on single-use plastics, prisons replaced plastic bottles from vending machines with recyclable aluminum cans and disposable plastic cutlery with durable sporks or paper spoons. Photo of smashed aluminum cans in a prison recycling program by Benj Drummond and Sara Joy Steele.



From 2009 to the end of FY17, 37 Evergreen students have worked for SPP programs, most of them as program coordinators. Here, outgoing and incoming Green Track Coordinators Emily Passerelli and Bethany Shepler pose with the honeybee hives at WCC. Photo by Ricky Osborne.