

Small Acreage Landholder Outreach Program 2017 Annual Report

Submitted to Clark County Department of Public Works, Clean Water Program

Submitted by WSU Clark County Extension

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WSU Clark County Extension



Department of Public Works
Clean Water Program

Executive Summary

Three BMP workshops drew 65 people, four Well and Septic Maintenance workshops attracted 134 participants, and three small farm tours drew 28 participants. The Small Acreage Expo attracted 109 attendees. The fall *Living On the Land* class series graduated 24 enrollees. The 18th Annual Harvest Celebration held September 16th featured ten local properties and drew 806 visitors. The winter Cultivating Success Agricultural Business Planning class graduated 21 enrollees. One small farm workshop enrolled 36 people and the Women in Agricultural conference drew 24 participants. Six landowners were assessed for the clean water model property sign and four properties qualified for the sign.

Task 1 - Best Management Practices (BMPs) Guidelines

Task 1a – Information Resources

The program makes many resources available to the public. The program tracks website hits and downloads monthly and compiles quarterly statistics (Table 1). The most highly visited webpage is the Small Acreage Program main page where the program posts new classes and opportunities. The second most highly visited page is the Living on the Land webpage where all of the course materials for the Living on the Land class series are available.

The factsheet *Reduce Mud and Keep Water Clean: Sacrifice Areas* continues to be the most popular publication and was downloaded 160 times in 2017. The most popular video clip is on *Manure Management* and was viewed 2079 times.

The Coordinator added announcements for BMP workshops, farm tours, well & septic classes, the Harvest Celebration and the *Living On the Land* class series to the WSU Extension website calendar (<http://clark.wsu.edu/calendar/index.asp>); Small Acreage webpage (<http://extension.wsu.edu/clark/naturalresources/smallacreageprogram/>) and to the program Facebook page (<http://www.facebook.com/smallacreageprogram>).

Issues and Recommendations

The program factsheets are not widely accessed by the public. The program intends to increase promotion of the program factsheets through Facebook in 2018.

Task 1 b – Publications

Article. The Coordinator wrote an article on the Clean Water Model Property Program for publication in *The Reflector* (Appendix A). The article was delivered on December 27 and was published in the January 10 edition.

Factsheet. The Coordinator is in the process of finishing the *Rainwater Harvesting: Cisterns* factsheet that the previous Coordinator began. The Coordinator expects to complete the article in the winter of 2018 and will post the article to the Small Acreage webpage <http://extension.wsu.edu/clark/naturalresources/smallacreageprogram/>.

Issues and Recommendations

The Coordinator did not complete the *Rainwater Harvesting: Cisterns* factsheet during 2017, but expects to finish the factsheet during the spring of 2018.

Table 1: Small Acreage Webpage Activity

Fact sheets *	Qtr 1	Qtr 2	Qtr 3	Qtr 4	YTD
Reduce Mud and Keep Water Clean: Sacrifice Areas	54	38	30	27	160
Save Time and Money - Properly Landscape Your Septic System	5	10	4	2	24
How Green is Your Grass? Five Steps to Better Pasture & Grazing Mgmt	6	13	7	16	52
Don't Let Your Dollar\$ Go Down the Drain! Septic Tank Additives	12	10	5	7	32
Keeping Clean Water Clean & Reducing Mud - Improving Drainage	0	0	2	0	2
Information on Small Acreage Management - Resource List	0	0	0	0	0
Protecting Drinking Water: Simple Tips for Well Maintenance	0	0	0	0	0
Do You Qualify For Reduced Property Taxes? Current Use Taxation	0	0	0	0	0
Water Quality Self-Assessment for Small Acreages	0	0	0	0	0
What Can You Do On Your Land? Frequently Asked Questions	0	0	0	0	0
Constructing Ponds and Water Features - What Does It Take?	0	0	0	0	0
Keeping Clean Water Clean & Reducing Mud: Managing Roof Runoff	0	0	0	0	0
Small Acreage Landowner Services Directory	2	0	0	0	2
What's Bugging You? Natural Insect Control for Small Acreages	1	0	0	0	1
Certified Kitchens Fact sheet	0	0	0	0	0
Manure Management: Strategies for Collection, Storage & Disposal	0	0	0	0	0
Protecting Your Investment: Inspecting Your Septic System	1	0	0	0	1
Best Management Practices for Small Acreages	0	0	0	0	0
Simple Steps To Protect Your Surface and Well Water	0	0	0	0	0
Total Downloads	81	71	48	52	252
Video Clips					
Manure Management	388	472	377	842	2079
Five Quick Steps to Reduce Mud	28	27	25	81	161
Reducing Mud on Small Acreages	26	4	10	39	79
Five Ways to Protect Riparian Areas	9	57	32	89	220
Managing Manure	16	5	39	20	49
Livestock Exclusion and Off Channel Watering	16	4	9	9	37
Doing Our Part for Clean Water	12	6	17	3	38
Total Views	495	569	509	1080	2663
Website Visitors					
Small Acreage Web Page	681	185	1437	295	2598
BMP Video Web Page / Publications and Videos Page	141	17	24	21	93
Living on the Land Web Page	24	165	126	59	484
Total Visitors	846	427	1587	375	3290

Task 2 - Public Education & Outreach

Task 2a – Living on the Land: Stewardship for Small Acreages

The 2017 Living On the Land class ran for 12 weeks, from August 30th through November 15th. The class enrolled 33 participants in 18 households, although one student dropped out and one spouse never came to class. The LOL program graduated 24 people in 12 households. The class syllabus remains similar to past years, with some reorganization to accommodate speakers (Table 2).

Most graduates (60%) heard about the LOL class through email, although 20% heard through Small Acreage events, 17% heard from other sources, and 5% through *The Reflector* (Table 3). This data can be somewhat misleading since some participants heard about the course at an event or by word of mouth, but requested to be notified by email when registration opened. The Coordinator promoted the class through

Table 2: LOL Class Schedule

Date	Topic	Instructor(s)
8/30/17	What Do You Have & What Do You Want? Turning Dreams into Reality	<i>Doug Stienbarger</i> , WSU Clark County Extension
9/6/17	What Can You Do? Turning Dreams into Reality	<i>Doug Stienbarger</i> , WSU Clark County Extension
	Clark County Land Use Zoning and Codes	<i>Scott Melville</i> , C.C. Community Development
9/13/17	Managing Soil to Keep it Productive	<i>Heather Havens</i> , Concentrates Northwest
9/20/17	Protecting Household Drinking Water & Maintaining Septic System	<i>Charles Harman</i> , Clark County Public Health <i>Sean Hawes</i> , Clark County Public Health
9/27/17	Getting Down and Dirty With Soil	<i>Gordon French</i> , LJC Feed
10/4/17	How Grass Grows / Pasture Establishment	<i>Gene Pirelli</i> , OSU Extension
10/11/17	Watershed Pollution & C.C. Clean Water Prgm	<i>Eric Lambert</i> , C.C. Clean Water Program
	Managing Land for Stormwater	<i>Brent Davis</i> , Clark Co Community Development
10/18/17	What to Do About Weeds?	<i>Casey Gozart</i> , Clark County Vegetation Mgmt.
10/25/17	Hay Feeding & Animal Scoring	<i>Gary Fredricks</i> , WSU Cowlitz County Extension
	Managing Animals to Avoid Negative Impacts	<i>Doug Stienbarger</i> , WSU Clark County Extension
11/1/17	My Place On a Stream	<i>Anitra Gorham</i> , NRCS
	Living With Wildlife	<i>Rachel Maggi</i> , NRCS
11/8/17	Business Opportunities	<i>Chip Bubl</i> , OSU Extension
	Direct Marketing & Value-Added	<i>Justin O'Dea</i> , WSU Clark County Extension
11/15/17	Focusing on Stewardship: Tying it all together	<i>Amber Lefstead</i> , WSU Clark County Extension

press releases to three newspapers (Appendix B), the program website, Facebook, outreach events, workshops, other Extension and county programs, and e-mail listservs. The program placed one paid advertisement in The Reflector newspaper. The program charged \$50 per household to help cover material costs (e.g., printing, binders, etc.).

Of the 24 graduates, 21 (88%) attended at least three-quarters (9) of the 12 class sessions. Two students attended all classes (Table 4).

Table 3: How Participants Learned About the LOL Class

Source	No.	%
E-mail	12	60%
Small Acreage Events	4	20%
Other (CCEHC Directory, word of mouth, other organizations)	3	15%
Internet (WSU Ext website, Facebook)	0	0%
Reflector	1	5%
Columbian	0	0%
Friends, family, and neighbors	0	0%
Camas Washougal Post Record	0	0%
Total	20	100%

Table 4: LOL Attendance

Classes Attended	# Graduates	As % of Graduates
12	2	8%
11	8	33%
10	8	33%
9	3	13%
8	2	8%
7	1	4%
6	0	0%
Total	24	100%

Most classes were held at the 78th Street Heritage Farm. The Well & Septic Class and Pasture Management Class were advertised outside of the *Living On the Land* class and therefore were held at alternate facilities to accommodate their larger size.

Of the 18 graduating households in the class, 16 own acreage in Clark County, one owns land in Cowlitz County, and one owns acreage in Oregon. The 24 participants came from ten different areas in the county, with forty percent of participants coming from Vancouver area (Table 5).

Table 5: Geographic Distribution of Graduates

Location	F03	S04	F04	S05	F05	F06	F07	F08	F09	F10	F11	F12	F13	F14	F15	F16	F17	City Totals
North																		
Amboy	0	3	4	5	1	3	3	1	2	0	1	1	1	0	3	2	2	30
La Center	6	7	4	5	3	6	5	1	0	3	3	5	1	3	4	2	2	82
Ridgefield	0	5	2	2	7	2	2	6	3	3	0	7	3	2	1	2	2	103
Yacolt	0	6	0	0	1	7	3	0	1	1	1	0	0	2	2	0	0	76
Woodland (Clark Co.)	0	0	2	2	1	2	2	3	0	0	0	0	0	0	1	2	2	40
Subtotal	6	21	12	14	13	20	15	11	6	7	5	13	5	7	11	8	8	188
Central																		
Battle Ground	8	14	8	5	4	6	6	7	2	2	3	8	9	8	9	4	6	270
Brush Prairie	2	4	5	2	0	0	2	3	4	0	3	1	0	2	2	2	2	127
Subtotal	10	18	13	7	4	6	8	10	6	2	6	9	9	10	11	6	8	157
South																		
Camas	1	0	0	1	4	1	1	1	4	2	2	0	1	0	0	0	1	144
Vancouver	4	3	2	3	3	2	2	4	5	5	3	4	6	8	5	7	10	89
Washougal	2	1	3	0	1	3	6	0	0	4	2	0	0	1	0	1	2	94
Subtotal	7	4	5	4	8	6	9	5	9	11	7	4	7	9	5	8	13	133
Out of County	0	0	4	2	2	1	0	5	2	5	1	2	6	0	3	1	2	34
Totals	23	43	34	27	27	33	32	31	23	25	19	28	27	26	30	18	24	446

When looking at the characteristics of the 13 graduating households (Table 6), participants manage a total of 96 acres within Clark County, averaging 7.5 acres per property. The largest property managed in the class was 30 acres and one participant began the class still searching for land to buy. Seventy-seven percent of class graduating properties have septic tanks while 46% of graduating properties use wells for potable water.

Table 6: Graduate Property Characteristics**

		03	S04	F04	S05	F05	06	07*	08	09	10+	11^	12	13	14	15	16	17^	Total
# Graduates		23	43	34	27	27	33	32	31	23	25	19	28	27	26	30	18	24	470
# Properties		19	33	27	22	24	25	24	23	12	16	15	21	16	16	21	15	13	342
Ac Owned	Total Acreage	132	377	412	317	299	388	323	229	111	267	97	161	97	107	160	112	96	3685
	Avg Ac/Property	8.3	11.1	15.3	14.4	12.5	15.5	14.7	10	9.3	16.7	7	8.5	5.1	6.7	7.6	8	7.5	10.5
	Smallest	2.5	2.5	2.3	5	1	1	2	1.6	0.8	1	0.2	.1	.2	1	.3	1	.2	
	Largest	35	82	80.2	68	60	79	41	49	45	67	25	40	21	20	24.4	40	30	
	< = 5 ac	7	13	11	7	7	8	13	12	8	6	7	10	11	10	11	10	3	154
	>5 - 10	7	13	3	8	9	11	6	3	2	1	5	6	4	3	5	2	6	94
	>10 - 20	1	5	5	4	4	2	1	6	1	3	1	1	0	3	4	0	2	43
	> 20 ac	1	3	8	3	4	4	3	2	1	5	1	1	1	0	1	2	1	41
Yrs On Land	Average	5.8	7.2	8.3	9.2	8.1	12	5.4	5.7	6	11	7.7	3.9	5.2	6.9	4.5	6	NA	7
	Least	.1	0	0	0	.3	.1	0	0	.3	.3	.1	.1	0	0	.3	1	NA	
	Most	8.5	34	38	40	34	66	17	26	30	40	32	15	20	20	22	18	NA	
Land with:	Septic System	14	31	25	21	23	24	22	22	10	10	12	18	15	14	18	15	10	304
	Well	11	27	25	17	21	23	20	16	9	10	8	16	10	11	15	12	6	257

** Not all graduates completed survey or provided all information.

* Excludes 3 ac outside Clark County. ^ Excludes 100 ac outside Clark County. ^ Excludes 2.5 ac outside Clark County.

Compared to previous years, the 2017 graduating class owns the least amount of land. With 96 total acres owned across the 18 households, this is the smallest acreage land ownership compared to all previous years. The 2017 class also owns fewer properties with septic systems and wells than the average class. For the average class, nearly 18 and 15 graduates owned septic systems and wells, respectively. For 2017, only 10 and 6 households owned septic systems and wells, respectively.

Pasture represents the largest single use of acreage by 2017 graduating households (Table 7), followed by forest and wildlife habitat. The most common reported use is orchard production with eight households maintaining small orchards at a total acreage of 2.8 acres. Acreage ownership in the 2017 class is similar to the 2016 class, which also showed fewer individuals owning less acreage.

Table 7: Types of Land Use On Graduate Properties

Land Use	Number of Graduate Properties (Ac)																	Total	% Grad Properties
	F03	S04	F04	S05	05	06	07+	08	09	10	11	12	13	14	15	16	17		
Vegetable Production	12	26	23	13	17	17	16	17	9	11	12	13	12	9	13	9	7	235	69%
Orchard Production	7	20	17	10	10	13	15	14	5	10	10	10	11	5	10	6	8	180	53%
Landscape	12	20	15	10	11	12	9	14	2	4	8	4	6	6	4	5	3	144	42%
Wildlife	9	21	15	12	12	14	9	12	2	6	8	7	9	6	9	4	5	159	46%
Lawn	15	27	23	15	18	22	17	13	8	5	14	11	14	13	10	6	5	235	69%
Pasture	11	19	15	12	17	18	18	19	10	9	9	13	12	8	11	6	7	213	62%
<i>Acres*</i>	23	33	73	58	53	65	81	31	8	54	22	37	31	29	26	30	18	669.65	
Hay	2	6	8	6	2	3	1	5	2	3	1	1	2	1	3	1	0	47	14%
<i>Acres*</i>	2	39	18	23	5	12	n/a	52	5	8	2	N/A	11	18	2	10	0	206.7	
Forest	9	22	16	8	10	17	9	9	3	8	9	7	9	7	8	5	3	158	46%
<i>Acres*</i>	29	26	30	8	28	117	106	12	15	55	20	35	43	26	51	11	13	623.9	

* Understates total since not all participants listed acreage. + One parcel accounts for 52 acres.

Nine households (50%) keep livestock, primarily poultry, rabbits, horse, sheep and goats in descending order (Table 8). Eight participants own 116 poultry animals, two participants own six rabbits, three

Table 8: Number of Livestock Owned*

Livestock	Graduate Properties (# Livestock)																	Total
	F03	S04	F04	S05	05	06	07	08	09	10	11	12	13	14	15	16	17	
Poultry	86	112	792	65	40	44	44	108	137	86	58	250	412	144	103	34	116	2631
Alpacas	0	7	90	19	41	0	28	12	81	0	11	0	0	0	0	16	0	305
Cattle	3	90	23	68	9	43	0	15	0	24	0	8	20	0	4	0	0	307
Equine	27	28	25	8	53	18	15	21	14	7	15	7	0	12	9	2	5	266
Goats	3	28	4	0	2	73	21	12	48	16	7	3	19	19	20	0	2	277
Sheep	0	5	143	0	0	0	8	4	9	2	5	0	13	0	22	1	4	216
Swine	0	2	13	0	0	9	90	3	0	0	0	8	4	2	0	0	4	135
Llama	12	0	2	9	7	1	10	4	1	0	0	0	0	0	11	1	0	58
Rabbits	20	3	0	0	0	0	0	0	6	0	4	0	416	0	6	0	6	461
Donkey	0	0	2	4	4	2	2	1	0	4	0	0	0	0	0	0	0	19
Ostrich/Emu	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Total	151	281	1094	173	156	190	218	180	296	139	100	276	884	177	175	54	137	4681

* Understates total since not all participants listed livestock.

participants own five horses, one participant owns four sheep and one participant owns two goats. Livestock numbers for 2017 graduates are half the average of earlier classes.

Participants rated 11 of 12 classes at 4.5 or above, and no classes below 4.3 (Table 9). Gordon French's presentation on soils; Gene Pirelli's presentation about pastures; and Doug Stienbarger and Gary Fredricks presentation on animal management and husbandry garnered the highest ratings. Most to all respondents indicated that they would use the information provided and that they learned something new in the 12 classes.

Table 9: Class Ratings

	Inventory 1	Inventory 2	Soil II	Well & Septic	Soil I	Pasture	Water	Weeds	Animals	Wildlife & Streams	Business Planning	Stewardship
Overall Score?	4.5	4.6	4.6	4.6	4.7	4.7	4.3	4.6	4.7	4.6	4.5	4.6
	Percent of respondents answering YES											
Intend to use info? <i>N (NR)</i>	100% 24 (3)	100% 21 (2)	100% 19 (4)	100% 11 (2)	100% 21 (2)	100% 23 (12)	93% 22 (6)	100% 22 (6)	100% 15 (2)	100% 20 (10)	73% 20 (9)	100% 19 (4)
Learn something new? <i>N (NR)</i>	100% 24 (3)	100% 21 (2)	100% 19 (4)	100% 11 (2)	100% 21 (2)	100% 23 (12)	100% 22 (6)	100% 22 (6)	100% 15 (2)	100% 20 (10)	100% 24 (9)	93% 19 (4)

Knowledge Increases. Participants were also asked to rate their knowledge on each topic before and after the workshop using a scale of one to five: a response of one equals poor, two fair, three average, four good and five excellent. At least 58% of all respondents learned something new in all 49 topic areas (Table 10). All respondents gained some knowledge about pasture management and soil health, while at least 89% increased their knowledge about well and septic systems, and weeds. All respondents increased their knowledge at least somewhat when asked about why the Clean Water program was formed, indicating most were unaware of how Clark County collects and uses funds to improve our waterways. Similar to last year, the classes on *Inventorying Resources* saw the smallest knowledge increases, but 58% - 86% of respondents still increased their knowledge by one level on the eight topics.

Table 10: LOL Participant Change in Knowledge Levels

LOL Class	Knowledge Area	Before and After Class Knowledge Change (As percent of respondents)					
		Same	1	2	3	4	N (NR) *
Inventory 1	Goal setting & talking a whole property view	33%	25%	33%	8%	0%	24 (3)
	Considering neighbors when setting property goals	42%	42%	8%	8%	0%	24 (3)
	Identifying assets on your property	29%	46%	21%	4%	0%	24 (3)
	Identifying problems on your property	25%	38%	21%	17%	0%	24 (3)
Inventory 2	The importance of photo documentation to successfully track your progress and management plans	38%	24%	19%	14%	5%	21 (2)
	Identifying limitations when setting property goals	19%	52%	14%	14%	0%	21 (2)
	Clark County Codes that may affect what you can do on your property	20%	10%	30%	25%	15%	20 (3)
	Where to find answers to codes and permits in Clark County	14%	38%	5%	29%	14%	21 (2)

LOL Class	Knowledge Area	Before and After Class Knowledge Change (As percent of respondents)					
		Same	1	2	3	4	N (NR) *
Soils II	Understanding major nutrients for plant/soil health	0%	26%	37%	32%	5%	19 (4)
	How soil chemistry impacts soil health and available nutrients	0%	26%	42%	16%	16%	19 (4)
	Understanding soil tests	0%	21%	26%	37%	16%	19 (4)
	Uses for soil surveys	0%	21%	32%	26%	21%	19 (4)
Well & Septic	Knowledge of well & septic maintenance	0%	27%	0%	73%	0%	11 (2)
	How to keep my drinking water healthy	11%	22%	22%	33%	11%	9 (4)
	Protecting my septic system	0%	36%	9%	36%	18%	11 (2)
	How to properly inspect my septic system	0%	0%	27%	36%	36%	11 (2)
Soils I	Understanding soil structure, type & texture	0%	29%	38%	33%	0%	21 (2)
	Causes of erosion and how to improve them	19%	33%	43%	5%	0%	21 (2)
	How to improve soils by adding amendments	5%	24%	38%	24%	10%	21 (2)
	How to properly test your soils	14%	19%	29%	29%	10%	21 (2)
Pasture	Methods for renovating/reseeding pasture	0%	9%	45%	36%	9%	11 (12)
	Common grass/legume species for Western WA pastures	0%	9%	55%	36%	0%	11 (12)
	How grass life cycle impacts management practices during fall and winter	0%	9%	36%	18%	36%	11 (12)
	Grazing management that encourages healthy grass and maximizes available forage	0%	18%	27%	27%	27%	11 (12)
Watershed Pollution & C.C. Codes	Why the Clean Water Program was formed	0%	31%	25%	25%	19%	16 (6)
	How the Clean Water Program collects and used funds to improve our waterways	0%	13%	56%	25%	6%	16 (6)
	Techniques and best practices to control SW and improve water quality	0%	38%	25%	19%	19%	16 (6)
	The SW permit application process for new development	6%	13%	38%	25%	19%	16 (6)
Weeds	Considerations for creating a weed management plan	13%	38%	31%	13%	6%	16 (6)
	Plant life cycles of weeds	6%	44%	31%	6%	13%	16 (6)
	Methods used to control weeds	6%	31%	31%	19%	13%	16 (6)
	Identifying weeds in our area	0%	38%	13%	38%	13%	16 (6)
Managing Animals	Resources available at Clark CD	23%	15%	15%	23%	23%	13 (4)
	Feed and forage needs of animals	7%	29%	29%	7%	29%	14 (3)
	Things to consider when evaluating hay quality	0%	13%	40%	20%	27%	15 (2)
	BMPs for managing manure	0%	50%	33%	0%	17%	12 (5)
	Understanding impacts animals have on our watershed	7%	57%	14%	0%	21%	14 (3)
Wildlife & Streams	How to create wildlife habitat	10%	10%	40%	30%	10%	10 (10)
	Ways to discourage unwanted wildlife	20%	20%	40%	20%	0%	10 (10)
	Signs of a healthy/unhealthy stream	30%	20%	30%	20%	0%	10 (10)
	Tips for improving stream health	20%	40%	20%	20%	0%	10 (10)
Business	Evaluating resources for starting a business	27%	18%	18%	27%	9%	11 (9)
	Importance of gal setting & business planning	36%	9%	27%	18%	9%	11 (9)
	value-added concepts in ag	0%	36%	18%	27%	18%	11 (9)
	How direct marketing can be used by ag producers	27%	9%	27%	18%	18%	11 (9)

LOL Class	Knowledge Area	Before and After Class Knowledge Change (As percent of respondents)					
		Same	1	2	3	4	N (NR) *
Stewardship	What stewardship and sustainability mean for small acreage residents	20%	33%	20%	7%	20%	15 (4)
	applying the LOL concepts to create holistic goals	7%	60%	40%	0%	0%	15 (4)
	Developing short term actions to achieve long term goals	0%	20%	20%	20%	0%	15 (4)
	How to monitor and assess your progress	13%	40%	27%	7%	13%	15 (4)

When asked what management practice they might implement with a year, participants indicated they would improve pasture management, better control erosion, add more native plants, begin composting, eliminate weeds, get soil tested, improve soil care, improve manure management, better manage stormwater, plant cover crops, inspect septic system regularly, and take animals off pastures when grass is three inches tall.

LOL Class Course Evaluations. Participants also evaluated the 12 week program as a whole (see evaluation forms, Appendix C). Respondents stated they learned useful information and the classes answered most of their questions (Table 11). Most thought the course length was just right with a few indicating it was a little too long. Several people indicated that the binder was not very useful and suggested that the materials be made available electronically instead.

Table 11: Overall LOL Program Evaluation Summary

Evaluation Question	Average
What overall score would you give this program?	4.6
How much will you use this information to change your practices?	4.6
	% YES N (NR)
Did the program series answer most of your questions?	100% 17 (2)
Did you learn useful information?	100% 17 (2)

Issues and Recommendations

The program will consider the usefulness of printing binders when the materials are not used or referenced by most speakers. It may be more economical and time efficient to provide the content on a flash drive or via the website which may also be able to collect tracking data.

Task 2b – Well and Septic Maintenance Workshops

The Program held four well and septic maintenance workshops for landowners with gravity-fed septic systems who can use this class to pass a test allowing them to self-inspect their septic system. All four workshops were held at the CASEE Center in Brush Prairie. The program charged \$15 per household to help cover costs.

The first workshop on May 9 attracted 31 participants, while the second workshop, on June 21, attracted 22 participants. The third and fourth workshops, held on August 16 and September 20, attracted 44 and 37 participants, respectively. The September 20 workshop was part of the Living On the Land class series, where 23 members of the public joined 14 members of Living on the Land class. Results for the September 20 workshop include only responses from the public. Responses from the Living On the Land participants are recorded in under Task 2a.

Sean Hawes, Department of Public Health, presented on septic maintenance and demonstrated how to properly inspect a septic system. Different instructors rotated teaching the well maintenance portion of the class. Carla Sowder, Matt John, Allison Johnson and Chuck Harman, all from the Department of Public Health, presented on well maintenance (Table 12).

Table 12: Well & Septic Workshop Attendance

Date	Location	Instructors	Time	Attendance
May 9	CASEE Center	Sean Hawes, Carla Sowder, <i>C.C. Public Health</i>	6:00 – 9 pm	31
Jun 21	CASEE Center	Sean Hawes, Matt John, <i>C.C. Public Health</i>	6:00 – 9 pm	22
Aug 16	CASEE Center	Sean Hawes, Allison Johnson, <i>C.C. Public Health</i>	6:00 – 9 pm	44
Sept 20	CASEE Center	Sean Hawes, Chuck Harman, <i>C.C. Public Health</i>	6:00 – 9 pm	23
Total Attendance				134

The program promoted these workshops using Facebook, the small acreage listserv, press releases to *The Columbian*, *The Reflector*, and *The Camas Washbougat Post Record*, and a flyer handed out at program and Extension events (Appendix D). The Coordinator ran three paid advertisements in *The Reflector*, one each for the May 9, June 21 and August 16 workshops (Appendix D). Clark County Public Health also included the flyer in mass mailings they sent to households. *The Reflector* featured the well & septic classes in an article which seemed to increase interest in the class. The program maintains a waitlist of 59 individuals for 2018 classes.

The class outline remains similar to past years. The agenda divides the class into three sections, an introduction PowerPoint on how land management practices can impact water quality, a PowerPoint presentation, video and Q&A on septic maintenance and inspection, and presentation on well maintenance and safety (Table 13). The Washington Department of Health created the videos for participants to use as a reference.

Table 13: Well & Septic Workshop Agenda

Time	Topic
20 min	<i>Introduction</i> – How my management practices impact water quality
35 min	<i>Septic System Maintenance</i> – Components of a septic system / How septic systems work / Different types of septic systems / Maintaining your septic system / Causes of septic failure
50 min	<i>Septic System Inspection Videos</i> – Safety procedures for inspecting a septic system / How to make simple inspection tools / How to measure scum and sludge / How to know when a system needs to be pumped / How to report your inspection to C.C. Public Health / Q & A
10 min	<i>Break</i>
60 min	<i>Protecting Household Drinking Water</i> - Watersheds and water quality / Where does Clark County's water come from? / Testing Drinking Water / Protecting Well Water Supplies / Q & A
5 min	<i>Evaluations and Septic Inspection Exam</i>

One hundred twenty participants attended the workshops and 80 participants (67%) returned evaluations (Table 14). Most intend to use the information and thought it answered their questions. In the four workshops measured, almost all respondents felt the septic inspection component was sufficient and that the program was worth their time. Participants' comments also expressed positive feedback:

“[The program was] very informational and presented with a sense of humor.”

“All perfect, professional and interesting!”

“[What I enjoyed most about the program is the] enthusiastic presenter, video, and the opportunity to inspect it myself.”

Table 14: Well & Septic Workshop Evaluation

% Yes N (NR)	May 9	June 21	Aug 16	Sept 20
Do you intend to use any of this information?	100% 16 (15)	100% 18 (4)	100% 28 (16)	100% 18 (5)
Was the septic inspection component sufficient?	100% 16 (15)	94% 18 (4)	100% 28 (16)	94% 17 (6)
Was this program understandable?	100% 16 (15)	100% 18 (4)	100% 28 (16)	100% 18 (5)
Did the program answer your questions?	100% 16 (15)	100% 18 (4)	100% 28 (16)	100% 18 (5)
Was this program worth your time?	100% 16 (15)	100% 18 (4)	100% 28 (16)	100% 18 (5)
Average	100%	99%	100%	99%
Participants (n)	31	22	44	23
Evaluations completed	16	18	28	18
Percent completed evaluations	52%	82%	64%	78%

Participants also rated their knowledge (1 to 5) of topics before and after the workshop (Table 15). Averaged across all workshops, at least 82% learned something about all topics discussed, while at least 88% of respondents learned at least something about well and septic maintenance. On four out of the five topics presented (all except the question on keeping drinking water healthy), 51% to 70% of respondents increased their knowledge a moderate amount to a lot.

Table 15: Well & Septic Workshop - Change in Knowledge Level

Workshop	Knowledge Area	Before and After Knowledge Change (As percent of respondents)					
		Same	1	2	3	4	N (NR) *
May 9	Knowledge of well & septic maintenance	19%	25%	38%	19%	0%	16 (15)
	Keeping my drinking water healthy	17%	17%	67%	0%	0%	6 (25)
	Protecting my septic system	25%	13%	50%	13%	0%	16 (15)
	How to properly inspect my septic system	20%	27%	40%	13%	0%	15 (16)
	How my management practices impact clean water	20%	40%	40%	0%	0%	15 (16)
June 21	Knowledge of well & septic maintenance	6%	39%	44%	11%	0%	18 (4)
	Keeping my drinking water healthy	0%	60%	30%	10%	0%	10 (12)
	Protecting my septic system	6%	39%	17%	39%	0%	18 (4)
	How to properly inspect my septic system	12%	18%	29%	29%	12%	17 (5)
	How my management practices impact clean water	18%	24%	41%	12%	6%	17 (5)
Aug 16	Knowledge of well & septic maintenance	11%	43%	29%	18%	0%	28 (16)
	Keeping my drinking water healthy	9%	45%	36%	9%	0%	11 (33)
	Protecting my septic system	11%	36%	43%	11%	0%	28 (16)
	How to properly inspect my septic system	0%	18%	36%	39%	7%	28 (16)
	How my management practices impact clean water	20%	28%	36%	16%	0%	25 (19)
Sept 20	Knowledge of well & septic maintenance	12%	47%	18%	18%	6%	17 (6)
	Keeping my drinking water healthy	14%	43%	14%	29%	0%	7 (16)
	Protecting my septic system	17%	33%	28%	17%	6%	18 (5)
	How to properly inspect my septic system	6%	24%	47%	12%	18%	18 (5)
	How my management practices impact clean water	13%	27%	53%	0%	7%	15 (8)

Workshop	Knowledge Area	Before and After Knowledge Change (As percent of respondents)					
		Same	1	2	3	4	N (NR) *
Average	Knowledge of well & septic maintenance	12%	39%	32%	17%	2%	79 (41)
	Keeping my drinking water healthy	10%	41%	37%	12%	0%	34 (86)
	Protecting my septic system	15%	30%	35%	20%	2%	80 (40)
	How to properly inspect my septic system	10%	22%	38%	23%	9%	78 (42)
	How my management practices impact clean water+	18%	30%	43%	7%	3%	72 (48)

*N = number of responses; NR = no response;

Issues and Recommendations

Participants who do not have a well are not required to stay for the second half of the workshop which covers that topic. These participants are encouraged not to answer the second knowledge change question, “Keeping my drinking water healthy”. This explains the lower number of responses for that question.

Septic System Workshops Follow-up: 2016-2017

A short follow-up survey continues to be sent out and encompasses participants at septic classes through 2017. Surveys to collect information from Well & Septic class participants in 2017 will be sent out in the summer of 2018.

Task 2c – Best Management Practices Workshops

The Coordinator held three BMP workshops. The first workshop, *Optimizing Soil Health* on July 12 attracted 15 participants and was held at the 78th Street Operations Center. The second workshop, *Native Vegetation Landscaping* attracted 35 participants and was held at the 78th Street Operations Center on August 22. The third workshop, *Pasture Establishment and Renovation*, attracted 15 people from the public and took place on October 4 as part of the Living On the Land class.

The program promoted the workshops through e-mails to WSU Extension listservs, the Small Acreage Facebook page, the WSU Extension website, and flyers at all program workshops and events (Appendix E). Most of the participants learned about the workshops through email. Attendees paid \$10 per person for the workshops to help cover material costs.

Martha Minnich, a WSU Master Gardener and soil chemist for over 30 years, taught the first workshop on *Optimizing Soil Health*. She covered improving soil fertility and soil structure through a number of best practices, including no-till and reduced till practices, maintaining biodiversity, organic fertilizers, cover crops, and soil testing.

Vanessa Gardner Nagel, a professional landscape designer, instructed the second workshop on *Native Vegetation Landscaping*. She taught participants how to transform their landscapes using native plants, the use of good drought tolerant and flood tolerant plants, and ways to address erosion and drainage challenges and stabilize slopes.

Gene Pirelli of OSU Extension presented the *Pasture Establishment and Renovation* workshop. Topics included how grass grows, renovation and establishment methods, grass and legume species, and management practices for pasture sustainability (e.g., keeping animals off pasture in the winter, and how to prevent runoff).

Participants completed evaluations that expressed their intent to use the information, whether they learned something new, and what overall score they gave the workshops. The overall ratings for the first two workshops on soil health and native plant landscaping are 3.3 and 3.7, respectively, out of 5 (scale of one to five, with five being the highest). These ratings are lower than the normal average. For the soil workshop, students reflected that the workshop ended early, which may be the reason for the lower rating. For the native landscaping workshop, students mentioned that the presentation was too broad, not focusing enough on native plant suggestions. This critique may be the cause for the class's lower rating. The overall rating for the pasture management workshop was 4.4. Almost all respondents indicated that they intend to use the information provided in the workshops (Table 16). For the native landscaping and pasture management classes, nearly all participants indicated that they learned something new. For the soil health class, 79% of respondent indicated they learned something new.

Table 16: Evaluation Summary for BMP Workshops

Question	Soil 7-12	Native 8-22	Pasture 10-4
What overall score would you give this event?	3.3	3.7	4.4
% Yes	% Yes	% Yes	% Yes
Do you intend to use any of the info provided?	92%	94%	100%
Did you learn something new or how to do others differently?	79%	94%	100%
Participants (NR)	15 (1)	35 (16)	15 (6)
Evaluations completed (as %)	14 (93%)	19 (54%)	9 (60%)

* Combined LOL class and general public.

Participants also estimated their knowledge (1 to 5) of topics before and after the workshop. Seventy-one percent of respondents in the soil health class reported increased knowledge on understanding soil texture and structure (Table 17). Less than half of respondents (43%) increased knowledge on reasons for use of cover crops and management practices that improve soil health. For the native landscaping class, 74% of respondents indicated learning something about dealing with erosion, drainage and slope stabilization, the BMP focus of the workshop. In the pasture management class, 100% of students increased their knowledge on methods for renovating and reseeding pasture and how grass lifecycle impacts management practices.

Issues and Recommendations

It is disappointing to see the lower than average class scores for the Optimizing Soil Health and Native Vegetation Landscaping classes. The Coordinator is uncertain of how to ensure more well-received speakers especially when working with new speakers. The Coordinator has preliminary calls with speakers to set expectations and requests presentations in advance to provide feedback. However, few speakers send presentations in advance. Because the program relies on speakers to volunteer their time, it is difficult to press speakers to send materials in advance or set additional requirements.

Table 17: BMP Workshops - Change in Knowledge Levels

Knowledge Area	Before and After Workshop Knowledge Change (As percent of respondents ⁺)					
	Same	1	2	3	4	N (NR)*
Optimizing Soil Health						
Understanding soil texture & structure	29%	43%	14%	14%	0%	14 (1)
Nitrogen content, transformation and soluble forms in soil amendments	36%	29%	29%	7%	0%	14 (1)
Reasons for use of cover crops	57%	29%	14%	0%	0%	14 (1)
Management practices that improve soil health	57%	14%	29%	0%	0%	14 (1)
Native Vegetation Landscaping						
Benefits of native plants for your landscape	32%	42%	26%	0%	0%	19 (16)
Dealing with erosion, drainage and slope stabilization	26%	32%	32%	11%	0%	19 (16)
Soil health, soil pollution and impacts on plant health	47%	16%	32%	5%	0%	19 (16)
Means for handling stormwater (e.g. vegetative pervious surfaces, rain gardens, etc)	42%	11%	26%	16%	5%	19 (16)
Pasture Management						
Methods for renovating/reseeding pasture	0%	33%	44%	22%	0%	9 (5)
Common grass/legume species for Western WA pastures	0%	44%	22%	33%	0%	9 (5)
How grass life cycle impacts management practices	0%	11%	33%	33%	22%	9 (5)
Grazing management that encourages healthy grass and maximizes available forage	22%	0%	44%	22%	11%	9 (5)

* N = number of responses; NR = no response

BMP Workshop Follow-up Survey: 2016-2017

Surveys to collect information from BMP class participants from 2016 and 2017 will be sent out in the summer of 2018.

Task 2d – Outreach Events and Promotional Activities

Clark County Fair. The Small Acreage Program coordinated with the Master Gardener Program to set up a static display at the Clark County Fair. The display featured a standing tri-fold that describes the various BMPs that the program promotes. Twenty-one people asked to be added to the program listserv.

Clark Conservation District Plant Sale. The Clark Conservation District Plant Sale was not attended this year due to a change in event setup. In years past, the plant sale has been inside in a covered area that allowed us to set-out pamphlets and program announcements; attendees generally lingered because plants were sold on-site. This year, the event took place outside, all sales were done in advance, and the event functioned solely for pick-up. Given the change in set-up, which provided very limited opportunity for program outreach and interaction, the program did not attend the event.

Small Acreage Expo. The twelfth annual *Small Acreage Expo* took place on Saturday, April 8th at the 78th Street Heritage Farm. Speakers presented on thirteen session topics including composting, soil testing, and weed identification (Table 18). Participants selected from three or four concurrent classes during each session. Eleven topics related directly to stormwater management, natural resource protection, or other goals undertaken by Clark County's Department of Public Works, Clean Water Division. Those topics are outlined in more detail below under the Low Impact Development heading.

Table 18: Small Acreage Exposition Schedule

	Time	Session	Title	Speaker(s)
Session A	9:00 to 10:15	A1	Managing Grazing for Sustainable Pastures	Gary Fredricks, WSU Cowlitz County Extension
		A2	Mushroom Cultivation	Tony McMigas, McMigas Family Farms
		A3	Weed ID and Control	Kara Hauge, C.C. Vegetation Management
		A4	Low Down on Lime	Gordon French, LJC Feeds
Session B	10:30 to 11:45	B1	Composting	Pete Dubois, Master Composter
		B2	Septic Inspection Certification	Sean Hawes, C.C. Public Health
		B3	Beekeeping	Charles Bennett, Buzy Bee Farm
	11:45 to 12:45		Open House, Lunch	
Session C	12:45 to 2:00	C1	Manure Management	Denise Smee, Clark Conservation District
		C2	Composting with Worms	Pete Dubois, Master Composter
		C3	Improving Drainage	Grant Johnson
Session D	2:15 to 3:30	D1	Rain Barrels, Green Roofs, LID Plants	Robert Bacon, Portland State University
		D2	Soil testing & Organic Fertilizer	Heather Havens, Concentrates NW
		D3	Sustainable Living for Small Farms	Eric Lambert, CC Public Health

The coordinator planned classes in four tracks to encourage people to stay the whole day and to equalize registration for sessions during a given time. Classes varied from seven to 32 participants per class.

Participants received check-in packets of handouts on small acreage property management, a schedule of Expo classes (Appendix F), information on upcoming events, and program promotional materials. The program charged \$15 for pre-registration and \$25 for walk-ins. Pre-registration included lunch from a local caterer. The Coordinator arranged an open house for nine organizations to set up booths to provide informational materials.

The event attracted 109 attendees, the same attendance as the 2016 event. Seventy-four participants submitted evaluations for the event as a whole, a return rate of 66% (Table 19). Door prize tickets were offered in exchange for completing evaluations, an effort to encourage a higher return rate. Donations for door prizes were made by Columbia River Carbonates, Wilco, Backyard Bird Shop and the Master Gardener Foundation, a value of \$465. Respondents rated the event overall an average of 4.6 on a scale of one to five, five being the highest. All respondents indicated they had learned something new and intend to use the information learned to change what they do at home.

Table 19: Overall Event Program Evaluation

	Average	N (NR)*
What overall score would you give this event?	4.6	74 (35)
Answering yes:		
Did you learn something new as a result of the classes you attended?	100%	74 (35)
Did you learn information that will be useful to make improvements at home?	100%	74 (35)
Do you intend to use this information to change what you do?	100%	74 (35)
Would you recommend this event to others?	100%	74 (35)
Overall Average		
Attendance	109	
Evaluations Completed	74	
Percent Returned Evaluations	66%	

*N = number of responses; NR = no response

Individual Expo Sessions. Participants assessed their learning for all of the individual sessions and indicated whether the information they learned would be used to change their practices at home. On 37 of 38 topic areas in the 13 classes, at least 67% of respondents increased their knowledge somewhat (Table 20). Overall, 92% of respondents across all sessions indicated that they would use the information learned to change practices at home. Evaluation results indicate the Expo provided useful information.

Table 20: Small Acreage Expo Participant Change in Knowledge Levels

Expo Session	Knowledge Area	Before and After Class Knowledge Change (As percent of respondents)					
		Same	1	2	3	4	N (NR)*
Managing Grazing/ Sustainable Pastures	Recognizing and preventing over-grazing	11%	28%	17%	44%	0%	18 (0)
	Practices for reducing mud, compaction, and weeds in pastures	33%	11%	28%	22%	6%	18 (0)
	Considerations for rotational grazing systems	11%	22%	33%	33%	0%	18 (0)
	Will you use any of the information to change what you do at home?		Yes 100%		No 0%		18 (0)
Mushroom Cultivation	Suitable mushrooms for home cultivation	8%	28%	28%	36%	0%	25 (0)
	Mediums used for mushroom cultivation	8%	28%	20%	32%	12%	25 (0)
	How to cultivate mushrooms at home	12%	20%	40%	28%	0%	25 (0)
	Will you use any of the information to change what you do at home?		Yes 100%		No 0%		24 (1)
Weed ID and Control	Properly identifying problem weeds in Clark County	5%	33%	33%	24%	5%	21 (4)
	Using IWM (integrated weed mgmt) for controlling weeds	9%	14%	32%	36%	9%	22 (3)
	Washington State weed laws and landowner responsibility	14%	14%	33%	19%	19%	21 (4)
	Will you use any of the information to change what you do at home?		Yes 95%		No 5%		21 (4)
Get the Lowdown on Lime	Understanding of soil pH and basic soil biology	0%	33%	50%	17%	0%	6 (1)
	Utilizing soil tests to determine fertilizer & lime application	67%	0%	0%	17%	17%	6 (1)
	Applying lime for soil and pasture health	0%	0%	67%	17%	17%	6 (1)
	Will you use any of the information to change what you do at home?		Yes 100%		No 0%		6 (1)
Septic Inspection Certification	The importance of inspecting your septic inspection	17%	45%	21%	14%	0%	29 (0)
	How to properly inspect your septic system	0%	14%	34%	31%	17%	29 (0)
	How often your septic inspection should be inspected	17%	45%	10%	14%	10%	29 (0)
	Will you use any of the information to change what you do at home?		Yes 90%		No 10%		29 (0)
Composting	The benefits of composting	17%	43%	26%	13%	0%	23 (0)
	What you need to set up a compost system	13%	26%	48%	13%	0%	23 (0)
	How to properly maintain your compost system	4%	26%	35%	30%	4%	23 (0)
	Will you use any of the information to change what you do at home?		Yes 96%		No 4%		22 (1)
Beekeeping: Saving the Honeybee	What you can do to support local honeybees	10%	23%	43%	23%	0%	30 (2)
	What you need to get started as a beekeeper	3%	30%	23%	40%	3%	30 (2)
	Seasonal maintenance tips for keeping bees	10%	40%	23%	23%	3%	30 (2)
	Will you use any of the info to change what you do at home?		Yes 96%		No 4%		28 (4)

Table 20 continued

Composting with Worms	The benefits of vermicomposting	7%	21%	36%	29%	7%	28 (0)
	What you need to set up a vermicompost system	7%	7%	36%	43%	7%	28 (0)
	Caring for worms and maintaining a vermicompost system	0%	7%	30%	52%	11%	27 (1)
	Will you use any of the information to change what you do at home?		Yes		No		28 (0)
		89%		11%			
Drainage Solutions for Small Acreages	Surface and subsurface drainage solutions	17%	58%	25%	0%	0%	24 (0)
	Different methods to manage runoff water	29%	38%	33%	0%	0%	24 (0)
	How to build and install a French drain	26%	35%	35%	4%	0%	23 (1)
	Will you use any of the information to change what you do at home?		Yes		No		24 (0)
		75%		25%			
Manure Management	General manure management	6%	24%	29%	35%	6%	17 (0)
	Composting manure properly	6%	24%	18%	41%	12%	17 (0)
	Proper manure management to protect water quality	12%	18%	41%	24%	6%	17 (0)
	Will you use any of the information to change what you do at home?		Yes		No		*
		*		*			
LID & Wet Weather Management	How to manage stormwater using low impact development (LID)	8%	13%	38%	29%	13%	24 (0)
	What different LID techniques (rain barrels, rain gardens, etc) exist	9%	26%	30%	26%	9%	23 (1)
	How LID benefits the environment through stormwater reduction	17%	22%	13%	39%	9%	23 (1)
	Will you use any of the information to change what you do at home?		Yes		No		22 (2)
		86%		14%			
Sustainable Living for Small Farms	Best management practices that benefit landowners and protect natural resources	11%	41%	41%	7%	0%	27 (0)
	Social considerations for whole farm planning	15%	59%	11%	15%	0%	27 (0)
	Resources available in Clark County to help landowners manage their land	12%	20%	32%	32%	4%	25 (2)
	Will you use any of the information to change what you do at home?		Yes		No		26 (1)
		85%		15%			
Soil Testing & Organic Fertilizer	Information soil tests provide	0%	29%	53%	18%	0%	17 (10)
	How to interpret and utilize the soil test results	0%	29%	47%	18%	6%	17 (10)
	Will you use any of the information to change what you do at home?		Yes		No		17 (10)
		94%		6%			

* N = number of respondents; NR = estimate of non-respondents, based on registration for each session. Due to the open nature of the event, participants may elect to attend classes other than what they registered for.

Low Impact Development

Eleven classes at the Expo explored topics beneficial to stormwater improvements in Clark County.

- *Managing Grazing for Sustainable Pastures* taught participants how to apply rotational grazing to their pastures. Gary Fredricks, WSU Cowlitz County Extension, showed attendees how rotational grazing reduces weeds, compaction, mud and erosion which in turn reduces sediment flow into our water bodies. All 18 participants in the class plan to use information learned in this class to change practices at home, with seven specifically planning to implement rotational grazing.

- Kara Hauge, Clark County Vegetation Management, taught *Weed ID and Control*. She educated attendees on how to properly identify weeds in Clark County and how to use IWM (integrated weed management) for controlling weeds. IWM involves timely scouting, rotating herbicides, cover cropping, changing tillage practices, and hand-pulling weeds. These practices reduce overuse of herbicides which keeps these toxins out of our surface and ground water. Ninety-five percent of respondents say they will use the class information to change practices at home. Participants indicated they would work to identify noxious weeds, have a weed inspection on their property, create a management plan, begin using organic herbicides, manually pull weeds and check their property for weeds multiple times a year.
- Gordon French, LJC Feeds, taught *The Low Down on Lime* and explained soil testing to determine fertilizer & lime application rates and how to lime for soil and pasture health. He explained how soil pH impacts whether plants can uptake soil nutrients. Teaching farmers and gardeners about soil pH helps them more effectively use and not overuse fertilizers to improve plant health. Class participation was low, with only seven attendees. All respondents plan to use their new knowledge and apply to change current practices, including using lime to balance soil pH, testing soil, planting cover crops and not tilling.
- *Composting* class attendees learned how to set up and maintain a compost system and how to use compost in soil to improve soil health. Pete Dubois, a Master Composter/Recycler, taught the class. Using compost in soil increases soil organic matter which reduces compaction and runoff carrying fertilizers/nutrients. Ninety-six percent of respondents say they will use what they learned in class and improved their level of understanding of properly maintaining their compost system. Some students commented they would: begin to aerate and turn their compost more often, add more brown matter to their bins, begin a compost pile, maintain a proper green-brown ratio, and expand their compost system.
- Sean Hawes, Clark County Public Health, taught the *Septic Inspection Certification* class on how to properly inspect and maintain a gravity-fed septic system. Properly maintained septic systems treat waste water before it reaches groundwater and streams. Ninety percent of respondents improved their understanding of how to properly inspect their septic systems by one level or more and plan to use the information to change practices at home, including limiting use of bleach, self-inspecting their septic system, checking their septic system more often, and protecting the drainfield better.
- Denise Smee, Clark Conservation District, taught *Manure Management*, discussing how to store and compost manure. Properly storing manure away from water bodies, covering manure, and effectively composting it for use on crops, keeps nutrients and pathogens out of our water bodies. Ninety-four percent of respondents increased their understanding of how to properly store and compost manure. Respondents commented that they would change their current composting habits, water drainage, and covering.
- *Composting with Worms* taught participants how to set up and maintain a vermicompost system. Pete Dubois, Master Composter/Recycler, also taught attendees that using compost in soil increases soil organic matter which reduces compaction and runoff carrying fertilizers/nutrients. All respondents improved their understanding of how to maintain a vermicompost system. Most respondents will use the information learned in class to change their home composting system such as creating a more suitable environment for vermicomposting, changing how castings are used, and multiplying their worms bins. Ten attendees said they would start a new worm bin.

- *Improving Drainage* showed students drainage solutions and how to control runoff on small acreages. Grant Johnson, Grant Johnson Drainage, taught students how to infiltrate water onsite to allow soils to filter contaminants from runoff before recharging groundwater. Seventy-five percent of attendees will use the information learned in this class to improve their home drainage solutions, including better placement of their ponds and gardens, using road drains to reduce erosion, and installing French drains.
- Rob Bacon, City of Portland, presented on *Rain Barrels, Green Roofs, and LID Plants*. He taught how to manage stormwater using low impact development (LID). The class demonstrated how rain barrels, green roofs, rain gardens, and other LID techniques can infiltrate rainwater onsite and reduce stormwater flows to rivers and streams. Ninety-two percent of respondents improved their understanding of how to manage stormwater using LID. Eighty-six percent of respondents indicated they will use the techniques learned in this class at home, such as adding a rain barrel, planning a rain garden in a low-lying area, being more careful with chemicals used around water bodies, using rocks to slow water movement from downspouts, and creating a green roof.
- *Soil Testing & Organic Fertilizer* showed participants how to interpret soil tests and appropriately apply organic fertilizers. Heather Havens of Northwest Concentrates taught students that testing soil can help them understand which fertilizers to use, in which amounts and when to apply to ensure the fertilizers are used by plants instead of leaching from the soil and contributing to surface water pollution. All respondents improved their understanding of how to interpret and utilize soil test results by one level or more. Ninety-four percent of respondents said they will change home practices as a result of this class, including getting their soil tested and using organic amendments.
- Eric Lambert, Clark County Public Works, taught *Sustainable Living for Small Farms*, providing an overview of best practices for small farmers, including manure management, composting, weed management and soil testing that help landowners effectively manage their properties while keeping runoff clean. Most respondents improved their understanding of the best management practices and plan to use what they learned on their properties.

The Coordinator hired one temporary employee, and was assisted by eleven volunteers who were recruited in exchange for free entry. The abundance of help made the event run very smoothly.

Promotion. The Coordinator announced the Expo at workshops, sent e-mails to office listservs, and posted the Expo program and registration on the WSU Clark County Extension, Small Acreage and Facebook web pages. The Coordinator sent the Expo flyer to forty-two contacts, including feed stores, farriers, veterinarians and libraries for posting on their bulletin boards. The program advertised in *The Reflector*, and sent press releases to all local media (Appendix F).

Harvest Celebration. The 19th annual Clark County Harvest Celebration took place on Saturday September 16 from 10 am to 3 pm. The event showcased ten farms, including three properties who earned *Doing Our Part for Clean Water* signs. New additions to this year's Harvest Celebration were Peculiar Ambitions Educational Farm and Serendipity Alpaca Ranch. Each farm had staff or volunteers for the full event to count attendance. Every farm displayed a poster highlighting its features and each of the three clean water signage farms displayed an additional poster highlighting the BMP's implemented on their properties. At least 806 visitors made 1238 farm visits (Table 21). Attendance increased substantially from 2016 where poor weather contributed to low attendance. This year's attendance was average for the attendance since 2000.

Table 21: 2017 Harvest Celebration Attendance

Farm	Visitors
Botany Bay Farms	146
Half Moon Farm	171
Bi-Zi Farms	71
Serendipity Alpaca Ranch*	34
Peculiar Ambitions	58
Yacolt Mountain Farm & Nursery *	34
Coyote Ridge Ranch	14
Compass Rose Alpacas*	80
White Oak Alpacas	80
Greene Jungle Farm	118
Total	806

* Farms with clean water signage.

The three properties with Clean Water signs included Serendipity Alpaca Ranch, Yacolt Mountain Farm, and Compass Rose Alpacas:

Serendipity Alpaca Ranch earned their sign this year. The property does a good job managing their pastures, with no signs of erosion or compaction and very limited weeds. They control stormwater runoff on their property through gutters installed on all buildings and by diverting water away from livestock areas. The owners also remove alpaca manure from their pastures daily and compost it in a covered pile which keeps the manure from leaching nutrients into nearby water bodies.

Yacolt Mountain Farm earned their Clean Water sign in 2015. The owners do an excellent job maintaining the health of two streams that run through their property; they recently took a pasture out of rotation to provide better riparian habitat for one the streams while providing a 30 foot forested buffer for the second stream. All of their animal barns and the house have gutters and downspouts, some of which drains to large cisterns for storage and later reuse.

Compass Rose Alpacas, 5 acre farm, has been a Clean Water Model Property since 2005, most of which serves as alpaca pasture. The farm uses sacrifice areas for the alpacas in the winter to keep their pastures healthy and free of mud. Their pastures have no signs of erosion or compaction and have very few weeds. The property also has a wetland protected from contaminated runoff. The sacrifice areas, shelter, and pasture more are over 100 feet from the wetland, with a grassy buffer and shrubs separating the pasture from the wetland.

The Coordinator publicized the event at other Small Acreage program events, using WSU Extension listservs, the program's Facebook page, flyers at local feed stores and libraries, press releases to *The Columbian*, *The Reflector*, and *The Post Record*, as well as a paid advertisement in *The Reflector* and on Facebook (Appendix G). The program also created a Google Map showing the participating farms and a description about them. Peculiar Ambitions Educational Homestead published an article in *The Reflector* that showcased their farm in addition to the full event.

Issues and Recommendations

Due to changes in the format of the Clark Conservation District plant sale, the program should explore an alternate event more appropriate to promoting the Small Acreage Program.

Task 3 - Merit and Model Small Acreage Properties

Task 3a – Property Tours

Two farm property tours occurred in the third quarter, one on July 15 at Yacolt Mountain Farm and Nursery, and the second on July 22 at a horse farm in Battle Ground. An additional farm tour took place in the fourth quarter, at White Oak Alpacas Ranch in Woodland on December 2.

The Yacolt Mountain Farm tour highlighted how to maintain healthy pastures through rotational grazing and sacrifice areas; sustainable manure management; weed eradication and effective riparian buffers. The horse farm tour also showed attendees rotational grazing and a sacrifice area, as well as sustainable manure management, effective riparian buffers and onsite stormwater management. The tour at White Oak Alpacas taught participants about sacrifice areas, mud and erosion management, and rotational grazing. Most participants heard about the tours through email and program events.

The program advertised the property tours through a press release to local newspapers, including *The Columbian*, *The Reflector*, and *The Post Record*. The flyer and press release were also sent to Washington Trail Riders Association, Back Country Horsemen and Clark County Executive Horse Council. Announcements were made at Well & Septic Workshops, Living on the Land workshops and through Facebook (Appendix H).

Five participants returned evaluations at the July 15 tour and ranked the tour an average score of 4.8 on a scale of one to five, with five being the highest (Table 22). All respondents at the July 15 tour indicated that they learned something new and intend to use that information within the next year. Two will practice better pasture management, one will practice better weed management, and one will improve manure management.

Table 22: Model Property Tour Evaluation Summary

Question	July 15	July 22	Dec 2
Overall, what score would you give this tour?	4.8	4.8	4.8
	% Yes	%Yes	%Yes
Did you learn something new or how to do other differently?	100%	100%	100%
Do you intend to use any of the information provided?	100%	100%	100%
Participants	14	6	8
Evaluations completed	5	5	5
Percent completed evaluations	36%	83%	63%

+N = number of responses; NR = no response

Four respondents from the July 15 tour indicated a knowledge increase about manure management, and three respondents increased their knowledge on pasture management and management impacts for clean water (Table 23).

The July 22 tour respondents ranked the event 4.8 and all participants indicated that they learned something new and would change their practices at home. Five participants returned evaluations. When asked to assess what they learned during the July 22 tour, all five respondents had a knowledge increase on all subjects surveyed. At least three respondents increased knowledge by two levels on all subjects surveyed.

Table 23: Model Property Tour Participant Knowledge Change

Knowledge Area	Before and After Tour Knowledge Change (As percent of respondents)					
	0	1	2	3	4	N (NR) *
July 15 – Yacolt Mountain						
Manure management and composting	20%	80%	0%	0%	0%	5 (9)
Knowledge of pasture management	40%	60%	0%	0%	0%	5 (9)
Ways to manage runoff and control mud	80%	20%	0%	0%	0%	5 (9)
How management practices impact water quality	40%	60%	0%	0%	0%	5 (9)
July 22 – Horse Farm						
Manure management and composting	0%	20%	40%	40%	0%	5 (1)
Knowledge of pasture management	0%	0%	60%	40%	0%	5 (1)
Ways to manage runoff and control mud	0%	20%	60%	0%	20%	5 (1)
How management practices impact water quality	0%	40%	60%	0%	0%	5 (1)
December 2 – White Oak Alpacas						
Manure management and composting	0%	0%	80%	20%	0%	5 (3)
Knowledge of pasture management	0%	0%	40%	40%	20%	5 (3)
Ways to manage runoff and control mud	40%	20%	0%	40%	0%	5 (3)
How management practices impact water quality	0%	20%	60%	20%	0%	5 (3)

*N = number of responses; NR = no response

Respondents ranked the tour at White Oak Alpacas on December 2 as a 4.8 on a five point scale. All five tour respondents indicated they learned something new and intend to use the information they learned. All five increased their knowledge of manure management and composting, pasture management and how land management impacts water quality. Some concepts that the tour attendees might implement within a year include better erosion management, pasture management, water runoff control, and improving sacrifice area footing materials.

Issues and Recommendations

The Coordinator forgot to hand out evaluations at the July 15 tour and instead sent evaluations through Survey Monkey, this accounts for the lower percentage of surveys returned.

Longitudinal Tour Follow-up Survey: 2016-2018

Surveys to collect information from property tour participants from 2016 and 2017 will be sent out in the summer of 2018.

Task 3b – Landowner Recognition

The program completed six property assessments in 2017. Of the six assessed properties, four qualified to receive the clean water model property sign based on their good land management practices.

During the second quarter, the program made the first model property assessment at Serendipity Alpaca Ranch in Ridgefield. Pam Conrad owns Serendipity Ranch and raises 12 alpacas on the 5.5 acre ranch. The Coordinator and Director toured the property and awarded Pam Conrad a Clean Water sign.

The second model property assessment occurred during the second quarter at a farm in Battle Ground. James McIntosh owns the 4.8 acre farm and grazes 5 cattle on his pastures as well as a 30 acre pasture owned by his neighbor. The Coordinator and Director toured the property. McIntosh met most of the criteria for a model property, but he did not qualify for a Clean Water sign.

Four model property assessments occurred during the fourth quarter. The Coordinator and Director toured Greene Jungle Farm owned by James Kunetz. Kunetz owns a 26 acre diversified family farm in Ridgefield where he raises chickens, pigs, cows, sheep, and maintains an orchard and vegetable garden. Kunetz met most of the criteria for a model property, but did not qualify for a sign.

The fourth model property assessment for the year was at Half Moon Farm in Brush Prairie. Brenda and Rob Calvert own the eight acre farm where they raise 30 hens and maintain ten bee hives. The Coordinator and Director toured the property and awarded the Calverts a Clean Water sign.

The last two properties assessed were both owned by students from the 2017 Living On the Land class. The Coordinator and Director toured Tammy Trebra's 15 acre farm in Amboy where she raises 17 chickens and seven turkeys, and also maintains a vegetable garden and orchard. Tammy was awarded a Clean Water sign. The last model property assessment for 2017 was made at a seven acre property in Battle Ground owned by Carol and Tom Ogle. The Ogles keep two horses on their property. The Coordinator and Director toured the property and awarded the Ogles a Clean Water sign.

The Coordinator promoted participation in the signage recognition program to farms on the Harvest Celebration, participants in the LOL class, at workshops and tours, and during outreach events.

Issues and Recommendations

The Coordinator shifted promotional language about the recognition program to better emphasize the guidance property owners can receive to help them qualify for a clean water sign. The Coordinator believes shifting language away from the program serving as an "assessment" and more towards "support and guidance" helped to more easily secure the four farms assessed in the fourth quarter.

Task 4 - Small Farms

Task 4a – Agricultural Entrepreneurship and Business Planning

The Program organized its tenth *Agricultural Entrepreneurship and Business Planning* class series where participants learn about business planning, marketing methods and opportunities, and how to develop or expand a small farm business. They produce a completed business plan by the last class and present their business plan to the class on the final evening. Farmers and various small business specialists serve as guest speakers, bringing valuable practical experience to the class. The ten-week class series ran from February 23 and ended April 27. Graduates owned 244 acres with the six existing businesses owning 115 acres.

The schedule included changes from 2016 in instructors for the topics of conducting research, better business practices, branding, email & social media marketing, and regulations (Table 24).

Table 24: Agricultural Entrepreneurship Course Schedule

Date	Topic	Instructor(s) & Guest Speakers
23-Feb	Introduction - Business Planning Basics <i>Vision, goals & mission statement</i>	Amber Lefstead, WSU Clark County Extension
2-Mar	Marketing: <i>Market Analysis</i> Market Options: <i>CSAs</i>	Jordan Bolt, Vancouver Farmers Market Anne Lawrence, Story Tree Farm
9-Mar	Marketing: <i>Conducting Research</i> Management: <i>Seven Pillars of Better Business</i>	Supisa Oliver, Fort Vancouver Regional Library Buck Heidrick, WSU Small Business Development Center
16-Mar	Marketing: <i>Branding</i> Industry Description: <i>WSDA Greenbook</i>	Tari Donahue, Grace Studios Karen Ullmann, WSDA
23-Mar	Management & Operations: <i>Insurance, Business Structures</i>	Bob Cosgrove, Country Financial Matt Bisturis, Schwabe, Williamson and Wyatt
30-Mar	Management and Operations: <i>Taxes, Licenses & Payroll</i> ; Marketing: <i>Email & Social Media Marketing</i>	Chris Hickey, On Point Consulting Albert Kaufman, AlbertIDEation
6-Apr	Marketing: <i>Marketing Farm Education</i>	Jacqueline Freeman, Friendly Haven Rise Farm
13-Apr	Management and Operations: <i>Regulations, Growing a Farm: Pasture Raised Meats</i>	Kim Hoffamann, WSDA Caleb Sturtevant, Botany Bay Farm
20-Apr	Financing: <i>Record Keeping & Basic Budgets</i>	Lorrie Conway, Northwest Accounting
27-Apr	Graduation; Present finished business plans	Students

The program charged \$100 per farm or family, which included a class notebook with syllabus, schedule, and activity worksheets. Before registering, the Coordinator spoke with participants about their intentions and what they hope to get out of the class in an effort to make sure the course and candidates were suitable and understood class expectations. Once accepted, candidates filled out a pre-survey using Qualtrics and then received a link to register on Brown Paper Tickets.

The Coordinator promoted the course through flyers at program events, the listserv, Facebook, and press releases in local papers (Appendix I).

Thirty-one people registered for the Ag Business & Entrepreneurship class and 21 met the graduation requirement of seven classes (Table 25), with 68% attending seven or more classes. Of the 31 registrants, 17 households are represented. Fourteen of the 17 households graduated. Four participants did not attend any classes; they were family members of other registrants who attended and graduated. Of the remaining six people who did not graduate and attended classes intermittently, two were family members of other farmers who did graduate the class series.

Table 25: Agricultural Entrepreneurship Attendance

Classes Attended	# Participants	As % of Participants	Cumulative %
10	1	3%	3%
9	8	26%	29%
8	5	16%	45%
7	7	23%	68%
6	2	6%	74%
5	2	6%	81%
4	0	0%	-
3	0	0%	-
2	1	3%	84%
1	1	3%	87%
0	4	13%	100%

Of the 17 households, 14 own properties, while three rent. Seven (29%) graduates currently run small farm businesses on their property, selling products such as vegetables, orchard fruit, flowers, herbs, nuts, mushrooms, jam, pickles, hot sauce, kraut, and salsa.

North Clark County yielded 48% of the graduates, central and south Clark County yielded 24% and 29% of graduates, respectively (Table 26). No graduates came from outside of Clark County.

Table 26: Agricultural Entrepreneurship Geographic Distribution

Location		08	09	10	11	12	13	14	15	16	17	City Total	Area Total
North	Amboy	0	0	0	2	0	0	0	0	0	1	3	60
	La Center	4	0	1	2	1	2	1	2	2	4	19	
	Ridgefield	5	3	0	2	2	2	0	2	5	5	26	
	Woodland	1	0	0	0	0	0	0	2	2	0	5	
	Yacolt	3	1	0	3	0	0	0	0	0	0	7	
Central	Battle Ground	1	7	2	3	1	1	1	4	3	1	24	42
	Brush Prairie	1	0	3	0	2	3	0	5	0	4	18	
South	Camas	1	4	1	0	3	1	0	0	1	1	12	92
	Vancouver	6	3	11	9	9	2	7	3	6	4	60	
	Washougal	2	2	1	2	3	1	4	2	2	1	20	
Out of County	Woodland (Cowlitz)	2	0	0	0	0	4	1	0	1	0	8	8
	SW WA	1	0	1	7	0	3	6	2	2	0	22	22
	OR	0	0	2	0	5	0	2	2	5	0	16	16
Totals		27	20	22	30	26	19	22	24	29	21	240	219

Overall, participants completing evaluations rated classes well, with all classes receiving a score of 4.0 or above on a scale of one to five, with five being highest (Table 27). Classes that featured farmers tended to score higher. The three highest scoring classes, which each scored 4.7, featured small farmers. The class on Regulations & Pasture Raised Meats had the lowest score, with 4.0. However, the Coordinator believes the lower score was due to fewer evaluations being filled for that class than because of the content. The class ran over by 10 minutes which resulted in students hurrying to leave and therefore completing fewer evaluations.

Table 27: Agricultural Entrepreneurship Class Evaluations

Class Session	Rank	N (NR)	Use any of this info? (% Yes)	N (NR)	Learn something new? (% Yes)	N (NR)
Business Planning Basics	4.5	23 (3)	100%	26 (0)	100%	26 (0)
Market Analysis & CSAs	4.7	17 (5)	100%	20 (2)	100%	20 (2)
Conducting Research & Better Business	4.4	16 (4)	100%	18 (2)	100%	18 (2)
Branding & WSDA Greenbook	4.4	15 (3)	100%	15 (3)	100%	15 (3)
Insurance & Business Structures	4.2	13 (5)	100%	15 (3)	100%	15 (3)
Taxes, Licenses, Payroll & Social Media Marketing	4.2	17 (3)	100%	17 (3)	100%	17 (3)
Marketing Farm Education	4.7	15 (3)	100%	17 (1)	100%	16 (2)
Regulations & Pasture Raised Meats	4.0	7 (13)	100%	7 (13)	100%	7 (13)
Finances & Record Keeping	4.7	12 (5)	100%	14 (3)	100%	13 (4)

Participant comments indicate they learned valuable information for planning their business:

“Originally, I did not know much [about] ag business – we gained a wealth of info from this class.”

“[The program] was good and really eye opening to more ins & outs of ag business.”

“[What I liked best was the] great real-life experiences shared by the guest speakers on small farms

“[The class was] superb, whether you are a novice, or you have been involved in the agricultural business for a while. Classes were very structured and the presenters had real life experiences. I learned a lot, even in the areas I thought I knew something. In addition, there was a wealth of knowledge within the group. I was pleasantly surprised [by] the diverse knowledge and experience from the participants.”

Participants assessed their knowledge before and after each class. The number of evaluations fluctuates each week due to some participants being in a hurry when classes run late. The Coordinator encourages students to submit their evaluations immediately after the class session, but also accepts any evaluation throughout the course, and provides reminders at the end of each class to submit any evaluations.

Sixty-four to 100% of respondents increased their knowledge by at least one level on all topics during the course (Table 28). Respondents gained the most knowledge about insurance, with 93% of respondents increasing their knowledge two or more levels about insurance options to manage risk for small farms and value-added businesses. One-hundred percent of respondents increased their knowledge on regulations and licensing requirements for their farm. These large increases in knowledge for both insurance and regulations indicate these areas as ones where attendees had limited knowledge to begin with or were especially information-rich presentations.

Table 28: Agricultural Entrepreneurship Knowledge Change Evaluation Summary

Class Session	Knowledge Area	Before and After Knowledge Change (As percent of respondents ⁺)					
		Same	1	2	3	4	N (NR)
Business Planning Basics	Components of a business plan	8%	31%	27%	31%	4%	26 (0)
	How to develop your business' mission statement	4%	19%	38%	35%	4%	26 (0)
	How to develop goals and objectives	12%	35%	27%	23%	4%	26 (0)
	Taking a farm resource inventory	13%	30%	35%	22%	0%	23 (3)
Market Analysis / CSAs	Identifying consumer preferences, values and demographics	5%	30%	30%	35%	0%	20 (2)
	Evaluating your potential	0%	35%	50%	15%	0%	20 (2)
	Starting and running a CSA	5%	25%	20%	40%	10%	20 (2)
	Options for Markets	10%	30%	40%	15%	5%	20 (2)
Research & Better Business	Pertinent resources for industry info	0%	28%	44%	28%	0%	18 (2)
	Researching consumer trends, target markets and competition	11%	22%	39%	22%	6%	18 (2)
	Benefits and drawbacks of various business structures	11%	39%	11%	22%	17%	18 (2)
	Determining the structure appropriate for your farm business	17%	22%	22%	33%	6%	18 (2)
Branding & WSDA Greenbook	How to create a brand for your product and business	17%	33%	22%	22%	6%	18 (0)
	Different methods of promoting your product/service	28%	17%	28%	28%	0%	18 (0)
	The WSDA Greenbook as a resource	6%	17%	17%	44%	17%	18 (0)
	How to create your elevator speech	11%	28%	44%	11%	6%	18 (0)
Insurance / Business Structures	Insurance considerations for small farms	0%	13%	40%	33%	13%	15 (3)
	Insurance options to manage risk for small farm and value added businesses	0%	7%	53%	33%	7%	15 (3)
	Benefits and drawbacks of various business structures	7%	40%	27%	20%	7%	15 (3)
	Determining the structure appropriate for your farm business	13%	47%	33%	7%	0%	15 (3)
Taxes, Licenses, Payroll & Social Media Marketing	Registering your business w/appropriate State & Fed Agencies	24%	35%	24%	18%	0%	17 (3)
	Taxes farm business are required to pay	29%	35%	24%	12%	0%	17 (3)
	Getting appropriate licenses & permits for your farm	24%	41%	24%	12%	0%	17 (3)
	Social Media Messaging Strategies	12%	59%	12%	18%	0%	17 (3)
Marketing Farm Education	Marketing your farm 'know-how' and other assets	13%	47%	13%	27%	7%	15 (3)
	Setting appropriate prices for your products	38%	38%	31%	0%	0%	13 (5)
	Developing Multiple Market Channels	6%	44%	25%	19%	13%	16 (2)
Regulations	How to find regulations that apply to your specific farm business	0%	71%	14%	14%	0%	7 (13)
	Licensing requirements	0%	71%	29%	0%	0%	7 (13)
	Labeling requirements	14%	71%	14%	0%	0%	7 (13)
	Starting and growing a small farm	14%	29%	57%	0%	0%	7 (13)
Finances & Record keeping	Different accounting system options & advantages & disadvantages of each	20%	40%	33%	7%	0%	15 (2)
	Creating a basic budget	27%	40%	27%	0%	7%	15 (2)
	How to complete a breakeven or sensitivity analysis	36%	29%	14%	14%	7%	14 (3)
	How to get info together for your accountant	20%	47%	27%	7%	0%	15 (2)

* N = number of respondents; NR = non-respondents. + May not equal 100% due to rounding

Participants rated the entire class series very well, rating the series a 4.9 on a scale of one to five, five being highest (Table 29). All respondents thought the course series answered most of their questions and felt it provided information useful for their farm business. While most respondents felt the series length was just about right, some thought it too long.

Table 29. Overall Agricultural Entrepreneurship Evaluation Summary

	Average	N(NR)
What overall score would you give this series?	4.9	15 (2)
How much will you use this information to help shape your agricultural business?	4.9	14 (3)
	% Yes	
Did this course answer most of your questions?	100%	15 (2)
Did you learn useful/helpful information?	100%	14 (3)

The Agricultural Entrepreneurship & Business Planning course graduated 21 people and completed this task.

Issues and Recommendations

There are none at this time.

Task 4b – Small Farms Workshops

On November 14, the Coordinator held a small farm workshop on Creating a Beehive at the CASEE Center in Brush Prairie. The event attracted 36 participants. Charles Bennett, past president of the Northwest Queen Bee Rearing Club discussed how to support local honey bees, how to get started as a beekeeper, and seasonal maintenance tips.

The program promoted the workshop using Facebook, the Small Acreage listserv, press releases to local newspapers, (Appendix J) and handed out at program and Extension events. Thirty-nine people registered for the event and 36 attended. The program charged a \$10 workshop fee per person.

Workshop participants ranked the workshop 4.6, on a scale of one to five with five being excellent (Table 30). Ninety-six percent of respondents indicated they intend to use the information, and only 100% said they learned something new.

Table 30: Evaluation Summary – Starting a Beehive Workshop

Question	Beehive	N (NR)
What overall score would you give this event?	4.6	23 (13)
	% Yes	
Do you intend to use any of the info provided?	96%	24 (12)
Did you learn something new or how to do others differently?	100%	24 (12)
Participants (n)	36	
Evaluations completed (as %)	24 (67%)	

Participants self-evaluate their knowledge about selected topics, once before and once after attending the workshop. Post-workshop evaluation results show that 87%-100% of respondents increased their knowledge on the four topics (Table 31). At least 74% increased their knowledge on all topics by two levels.

Table 31: Starting a Beehive Workshop

Knowledge Area	Before and After Workshop Knowledge Level Change (as percent of respondents)					
	Same	1	2	3	4	N (NR) *
What you can do to support local honey bees	13%	13%	46%	21%	8%	24 (12)
What you need to get started as a local beekeeper	0%	21%	25%	42%	13%	24 (12)
Seasonal maintenance tips for keeping bees	4%	13%	29%	54%	0%	24 (12)
How to create a honeybee hive	0%	25%	17%	46%	13%	24 (12)

The Coordinator and Director facilitated the 2017 Women in Agriculture Conference on November 18. The event attracted 24 participants to learn about women leadership in agriculture. Participants wrote down their take away messages and completed an action plan after each presentation. The facilitators led discussions about what the participants gained from the conference and the actions they plan to implement as a result.

The Coordinator arranged a panel of three women leaders in Clark County local agriculture. The panel included Anne Foster, coordinator of the Salmon Creek Farmers Market; Rachel Reister, owner of Reister Farms; and April Thatcher, owner of April Joy Farm. The panelists discussed their experience as women leaders in agriculture.

The program and the event's statewide organizers promoted the workshop through flyers at program events, the listserv, Facebook, and press releases (Appendix E).

Issues and Recommendations

None at this time.

Task 5 - Impact Evaluation and Project Reporting

Task 5a – Evaluations

Workshop Evaluations. The program conducts post-event evaluations for each workshop, tour, and class where appropriate. Spouses and partners are encouraged to fill out separate evaluations. Registration and attendance is tracked and recorded, along with evaluation results and comments. Participant suggestions and comments are incorporated as appropriate in planning for future events.

Impact Reporting (follow-up surveys on workshops and tours). The Coordinator sent follow-up surveys for the 2015 and 2016 *Living on the Land* classes. The results of the surveys have not yet been assessed. The Coordinator will prepare follow-up surveys for all BMP workshop, well and septic workshop, and small acreage tours from 2016 to 2017. The surveys will be sent out in the summer of 2018.

Between 73% and 100% of class respondents intend to use the class information across all classes (Well and Septic classes, *Living on the Land* classes, Ag Business Planning, BMP classes and Small Acreage Tours.

LOL Impact Evaluation.

Overview. Beginning in 2004, the Director developed a survey to assess behavior changes by former participants in the *Living on the Land* series based on the knowledge participants gained while taking the course.

Methodology. The close-ended survey measures self-reported changes from *Living on the Land* from participants. Graduates through 2015 have been surveyed after they had at least one summer to implement BMPs on their properties. After initial mailings, staff followed-up with non-responders by email and/or telephone.

Response. The LOL 12 week class series (graduated 470 people through 2017 owning at least 3,966 ac). LOL graduated 24 people (12 households) owning 99 acres in 2017.

As outlined in Table 24, 296 LOL participants returned the survey for an overall response rate of 69%. The class of Fall 2015 returned the least (20%) while the class of 2006 returned the most (91%). The 2015 class has not been surveyed a second time which will occur in September, 2017.

Table 32: Survey Response Rate

Class	Moved	No Response			Returned Evaluations					Total Grads	As % of All Grads
		No.	% of Class	As % of All Grads	Household	Partner/Spouse	Total	As% of Class	As % of All Grads		
Fall 03	0	4	17%	1%	16	3	19	83%	4%	23	5%
Spring 04	0	8	19%	2%	26	9	35	81%	8%	43	10%
Fall 04	0	4	12%	1%	25	5	30	88%	7%	34	8%
Spring 05	1	4	15%	1%	19	3	22	81%	5%	27	6%
Fall 05	1	2	7%	0%	20	4	24	89%	6%	27	6%
Fall 06	0	3	9%	1%	25	5	30	91%	7%	33	8%
Fall 07	0	5	16%	1%	21	6	27	84%	6%	32	7%
Fall 08	1	7	23%	2%	18	5	23	74%	5%	31	7%
fall 09	0	10	43%	2%	12	1	13	57%	3%	23	5%
Fall 10	0	17	68%	4%	7	1	8	32%	2%	25	6%
Fall 11	0	6	32%	1%	12	1	13	68%	3%	19	4%
Fall 12	0	11	39%	3%	11	5	16	57%	4%	28	7%
Fall 13	0	13	48%	3%	11	3	14	52%	3%	27	6%
Fall 14	0	10	38%	2%	13	3	16	62%	4%	26	6%
Fall 15	1	24	80%	6%	3	3	6	20%	1%	30	7%
Fall 16				0%				#DIV/0!	0%		
Total	3	128		30%	239	57	296		69%	428	100%

Analysis.

Through 2015, with a 78% response from 428 graduates, 260 graduate households (of 340 HH) implemented 667 BMPs on at least 2,206 acres affecting at least 1,082 livestock (excluding poultry). Graduates shared what they learned with over 3,134 other people (still entering data from 2016).

Over 42% of responding households tested their soil, 56% of respondent households with septic systems inspected their system, and 51% of households with wells tested them, all as a result of what they learned. Over 84% thought the class was a good use of their Clean Water fee.

When asked at what level their knowledge was at before and after the course in eight general topic areas, 55% to 80% learned something to a lot about all eight topics (Table 25). Leaving out the management of animal manure, 66% to 80% learned at least something. The fewest respondents learned something about managing manure, but over 55% still learned at least something. Over 74% of responding graduates learned how their management impacts clean water, a heartening level since water quality is a major theme underlying much of the LOL curriculum.

Information Requests. The program responded to 232 requests for information and assistance on upcoming events, agricultural business ventures, septic systems, drainage, animal husbandry, stormwater management, leasing farm land, rain barrels. Individuals received relevant factsheets and flyers for upcoming events as well as verbal and written guidance applicable to their concerns.

Table 33: Knowledge Change Before and After Course

General Topic	No Change (N)	Some to A Lot (N)
Managing weeds	16.6% (303)	79.9% (303)
Keeping my pasture/hay field healthy	22.6% (294)	71.0% (294)
Managing rainwater (stormwater runoff) so that it stays clean	26.4% (298)	68.5% (298)
Soil and how it relates to managing my land	15.9% (301)	79.9% (301)
Setting realistic goals for my land	24.8% (304)	72.0% (304)
Managing animal manure	38.9% (296)	55.4% (296)
Managing / controlling mud	29.6% (300)	65.9% (300)
How my management practices impact clean water:	22.0% (302)	74.2% (302)

Task 5b – Reporting

Reporting. This report constitutes the annual report for 2017.

Issues and Recommendations

There are none at this time.

Table 34: Summary Table

Program Elements			2017 Goals	Qtr 1	Qtr 2	Qtr 3	Qtr 4	YTD	% 2017 Goals
Best Management Practices (Task 1)	Information Resources	Materials added to reference files	ongoing	1	1	1	1	4	
		Post links and resources to website	ongoing	1	1	1	1	4	
		Track web site hits	ongoing	1	1	1	1	4	
		Track web site document downloads	ongoing	1	1	1	1	4	
	Publications	Article	1				1	1	100%
		Video clip, factsheet, or PowerPoint	1					0	0%
Public Outreach and Education (Task 2)	LOL Class Series	LOL series	1				1	1	100%
		Graduation	20				24	24	120%
	Well & Septic Workshops	Well & septic workshops	4		2	2		4	100%
		Attendance	30	31	22	44	37	134	447%
	BMP Workshops	BMP Workshops	3			2	1	3	100%
		Attendance	30			50	15	65	217%
	Outreach Events & Promotional Activities	Revise & maintain speaker's list	ongoing	1	1	1	1	4	
		Small Acreage Exposition	1		1			1	100%
		Attendance	75		109			109	145%
		Clark Conservation District Plant Sale	4					0	0%
		Clark County Fair	1			1		1	100%
		WSU Harvest Celebration	1			1		1	100%
		Realtor Outreach	ongoing					0	
		Additional Events as identified						0	
Model Properties (Task 3)	Property Tours	Conduct tours	3			2	1	3	100%
		Attendance	30			20	8	28	93%
	Sign Recognition	Assess properties for signage program	6		1	1	4	6	100%
Small Farms (Task 4)	Agricultural Entrepreneurship	10 week course	1	1				1	100%
		Graduates	20	21				21	105%
	Small Farm Workshops	Women in Ag Conference	1				1	1	100%
		Attendance	10				24	24	240%
		Small farm workshop	1				1	1	100%
		Attendance	10				36	36	360%
Impact Evaluation and Project Reporting (Task 5)	Evaluation	Workshop evaluations - Small Acreage	589		108	198	108	414	70%
		Requests for assistance		29	43	105	48	225	
		Impact evaluation of LOL graduates	30					0	0%
		Workshop/tour evaluations - Small Farms	324	127	64		24	215	66%
		Impact evaluation of Ag Biz graduates	3					0	0%
	Reporting	Quarterly Reports	3	1	1	1		3	100%
		Annual Report	1				1	1	100%

Appendix A: Article

Submitted to *The Reflector* on December 27, 2017

Small Acreages Owners Keep Water Clean for Clark County

WSU Clark County Extension recognizes property owners in Clark County who manage their land using practices to keep our local rivers and streams healthy. The Clean Water Model Property Program started in 2004 and recognizes small acreage landowners who go above and beyond, showing their commitment to land stewardship through their extra efforts in keeping our lakes, rivers and groundwater clean. The program awards these landowners a "Doing Our Part for Clean Water" sign and 57 properties have received a sign. The program also seeks to recruit new stewards each year to apply. In general, properties must meet eight criteria (*shown right*).



The Conrad's *Serendipity Alpaca Ranch* is recognized as a Model Property

Pam Conrad, owner of Serendipity Alpaca Ranch in Ridgefield, recently received a Clean Water Sign. When asked why she wants to steward her land, Pam said "because I didn't inherit the earth from my parents, I borrowed it from my children." Pam likes the signage program, explaining, "The model property sign is

important. I watch people read it; I have people ask about it. The sign helps people know who and what we are about."

The Conrad's five acre ranch houses seventeen alpacas. The Conrads installed a sacrifice area as one management practice that helps keep local water bodies clean. Keeping the alpacas in a sacrifice area during the rainy, winter months reduces mud and sediment runoff during the winter and keeps their pastures lush and healthy.

Jacqueline and Joseph Freeman, owners of Friendly Haven Rise Farm, have maintained their farm as a model property since 2009. Jacqueline says, "Not too many people see our sign, but we're glad to have it. The model property sign represents quite a bit of hard work done to qualify." They intensively manage their soils by regularly testing

8 Ways to Keep Water Clean

Do you want to be recognized as a clean water steward? Check out the eight core practices that keep water clean on small acreages.

1. **Drainage:** Gutters on buildings collect rainfall from the roof and downspouts direct rainfall to vegetated areas where it can soak into the ground.
2. **Streams and rivers** are protected from livestock by fences. Vegetation borders water bodies to protect them from stormwater runoff and erosion.
3. **Pastures stay healthy** by limiting machinery and animal access during the rainy season. Rotational grazing and sacrifice areas for livestock keep grass healthy, as well as limit weeds, bare soil and mud.
4. **Well & Septic** systems are protected from damage by machinery and inspected regularly.
5. **Well heads** are adequately protected.
6. **Chemicals** are stored safely and away from wells.
7. **Manure** remains covered with a tarp or kept in a shed to reduce runoff.
8. **Soils** are tested to manage the application, type, and timing of fertilizer.

If you're interested in a Model Property sign, contact WSU Extension Small Acreage program coordinator at amber.lefstead@wsu.edu or 360-397-6060 x5729

their soils and adding nutrients according to test results. Their lush pastures stand as evidence of the care they take. “We are glad the Clean Water Model Property program has a way to acknowledge farms who work toward good water stewardship,” says Freeman.

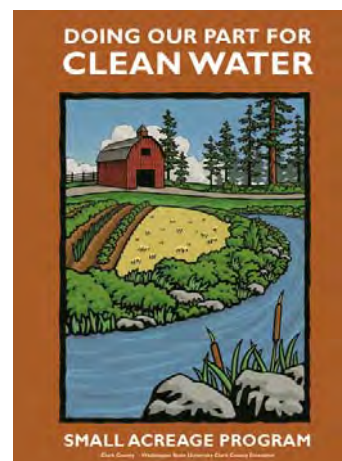


Tour of Friendly Haven Rise Farm to showcase their stewardship practices

Anne Lawrence, owner of Story Tree Farm, says, “Stewardship is important because the next generation depends on us to hand them a healthy future.” Story Tree Farm, a four acre, organic vegetable farm in Vancouver, received one of the first Clean Water signs back in 2006. Using gutters and downspouts on most of their farm buildings directs stormwater into drywells

and away from areas where it could create mud or erosion. The Lawrences also maintain their septic system through regular inspections and keeping heavy machinery off the drainfield.

Do you think your small acreage has what it takes to earn a Clean Water Sign? Take a look at the eight criteria and if you think you are doing some or all of the practices mentioned, contact WSU Clark County Extension. They will send someone out to walk your property with you and talk about the practices that you are doing well and areas for improvement. It’s a great way to receive advice on your property and put yourself on a path towards recognition for your stewardship. Contact the Small Acreage Program Coordinator, Amber Lefstead at amber.lefstread@wsu.edu or 360-397-6060 x5729.



Appendix B: Living on the Land

FLYER

SAMPLE PRESS RELEASE

OTHER PUBLICITY

FLYER:

Living On the Land - Stewardship for Small Acreages

New to living on acreage or just want to improve your property?
This 12-week course will help you reach your goals.

Living On the Land teaches important topics on land management for small acreages. Graduates learn practices that enhance natural resources and make improvements through a whole-property approach.

Topics include:

- ◇ Inventorying resources
- ◇ Soil health
- ◇ Pasture & grazing management
- ◇ Well & septic maintenance
- ◇ Drinking water protection
- ◇ Living with wildlife
- ◇ Controlling weeds
- ◇ Managing animals
- ◇ Business opportunities
- ◇ Reducing mud & much more!

Living n the Land *Stewardship for Small Acreages*

Date: Wednesdays, Aug 30 - Nov 15

Time: 6:00 to 9:00 PM

Cost: \$50 per family (up to 2 attendees)
(pre-registration required)

Where: Hazel Dell, WA

More info: <http://extension.wsu.edu/clark/calendar>

Questions? Contact Amber Lefstead
at amber.lefstead@wsu.edu or
360-397-6060 x5729

Jointly Sponsored by: WSU Clark County Extension and Clark County Clean Water Program.



WSU CLARK COUNTY EXTENSION
Small Acreage Program



Clean Water Program

WSU Extension programs and employment are available to all without discrimination. Reasonable accommodations will be made for persons with disabilities and special needs who contact 360-397-6060 ext 0 at least two weeks prior to an event.

SAMPLE PRESS RELEASE:

Contact: Amber Lefstead
WSU Clark County Extension
Tel: 360-397-6060 ext. 5729
Fax: 360-759-6524
E-mail: amber.lefstead@wsu.edu

Living On the Land Class Teaches Land Management

Vancouver, WA – Registration for WSU Clark County Extension’s Small Acreage Program’s twelve week class series, *Living On the Land – Stewardship for Small Acreages*, is now open. Sponsored by WSU Clark County Extension and Public Works Clean Water Program, this course prepares participants with the knowledge necessary to develop a sustainable property management plan.

Living On the Land participants learn about important topics pertaining to soil, water, plant and animal management that guide sound stewardship decisions for small acreages. Topics are presented by local and regional experts and include pasture management, controlling weeds, wildlife, soil health, well & septic maintenance, and more. Graduates learn practices that enhance natural resources and helpful strategies for improving their property by taking a whole farm approach.

Amber Lefstead, Program Coordinator, says “The real value of Living On the Land is hearing from regional specialists and making connections with local landowners.” Doug Stienbarger, Director of WSU Clark County Extension, adds “Living On the Land teaches management practices that help landowners save time and money, improve property value, and protect natural resources.”

“Living On the Land: Stewardship for Small Acreages”

Wednesdays, August 30 to November 15, 2015 - 6:00 to 9:00 PM

Registration is \$50 per family (including up to two attendees). Class size is limited (partial scholarships are available on a limited basis). This class series fills up quickly! Contact Amber Lefstead at amber.lefstead@wsu.edu or visit the WSU Clark County Extension events calendar (ext100.wsu.edu/clark/calendar/) for registration details on this terrific learning opportunity. **Deadline for registration is August 29.**

WSU Extension programs are available to all without discrimination. Persons requiring special accommodations should call WSU Clark County Extension at (360) 397-6060 ext. 0 at least two weeks prior to the event.

OTHER PUBLICITY:

Facebook



PAID ADVERTISEMENT:

The Reflector
July 26, 2017

<p>Got Acreage?</p> <p>Do You Want to.....</p> <p>Make your property look better?</p> <p>Reduce chore time?</p> <p>Improve your animals' well-being?</p> <p>Enhance your soils and pasture?</p> <p>Protect your drinking water and streams?</p> <p>Reduce mud?</p> <p>Improve storage & composting of manure?</p>	<p><i>Living on the Land Workshop Series</i></p> <p>August 30 - November 15 Wednesdays 6:00 - 9:00 PM Hazel Dell, WA</p> <p>PRE-REGISTRATION REQUIRED CLASS SIZE LIMITED \$50 PER FARM/FAMILY</p> <p>Call (360) 397-6060 x5729 or amber.lefstead@wsu.edu to register or for more info.</p> 
	<p>WASHINGTON STATE UNIVERSITY EXTENSION Small Acreage Program</p> <p>Sponsored by: WSU Clark County Extension Clark County Clean Water Program</p>

WSU Extension programs are available to all without discrimination. Persons requiring special accommodations should call WSU Clark County Extension at 360-397-6060 ext. 0 two weeks prior to the event.

Appendix C: Evaluation & Survey Forms

LOL IMPACT SURVEY

LOL PRE-CLASS SURVEY

LOL INDIVIDUAL CLASS EVALUATION

LOL CLASS SERIES EVALUATION

WELL & SEPTIC WORKSHOP EVALUATION

BMP WORKSHOP EVALUATION

PROPERTY TOUR EVALUATION

WORKSHOP & TOUR IMPACT SURVEY

LOL IMPACT SURVEY

Living on the Land (LOL) Participant Survey

We are glad you were able to participate in the 2016 Living on the Land class series. WSU Clark County Extension depends on people like you to provide feedback on our programs. All responses will be kept anonymous. Upon request, we will send you the results when completed. We greatly appreciate your help. Thank you!

First name _____ Last name _____

Please indicate the extent to which you agree or disagree with each statement below. (Please circle your responses.)

	Strongly Disagree	Some- what Disagree	Neither Agree or Disagree	Some- what Agree	Strongly Agree	Don't Know / Unsure
2. The LOL course provided the level of information I needed	1	2	3	4	5	DK
3. I would recommend this course to others	1	2	3	4	5	DK
4. Based on what I learned in the LOL course, I now manage my property differently	1	2	3	4	5	DK
5. This course is a good use for part of the clean water fee I pay with my property taxes every year	1	2	3	4	5	DK
6. The changes I made have improved my property	1	2	3	4	5	DK

As a result of the LOL classes, have you done any of the following (please circle response) :

	Yes	No	Does Not Apply
7. Tested your soil?	1	2	NA
8. Inspected your septic tank?	1	2	NA
9. Tested your well water?	1	2	NA

10. Have you shared what you learned in this class with anyone else? Yes _____ No _____

If yes: 11. Who did you share this with? (such as family, friends, etc) _____

12. About how many people did you share information with? _____

			Poor	Fair	Good	Excellent	Unsure / Don't Know	Does Not Apply
13.	Managing weeds:	Before....	1	2	3	4	DK	NA
		After	1	2	3	4	DK	NA
14.	Keeping my pasture/hay field healthy:	Before....	1	2	3	4	DK	NA
		After	1	2	3	4	DK	NA
15.	Managing rainwater (stormwater runoff) so that it stays clean:	Before....	1	2	3	4	DK	NA
		After	1	2	3	4	DK	NA
16.	Soil and how it relates to managing my land:	Before....	1	2	3	4	DK	NA
		After	1	2	3	4	DK	NA
17.	Setting realistic goals for my land:	Before....	1	2	3	4	DK	NA
		After	1	2	3	4	DK	NA
18.	Managing animal manure:	Before....	1	2	3	4	DK	NA
		After	1	2	3	4	DK	NA
19.	Managing / controlling mud:	Before....	1	2	3	4	DK	NA
		After	1	2	3	4	DK	NA
20.	How my management practices impact clean water:	Before....	1	2	3	4	DK	NA
		After	1	2	3	4	DK	NA

22. The most positive impact of these changes was _____

25. Highest educational level you have attained? High School or less _____ Bachelor's degree _____
Some college _____ Graduate degree _____

Please return this questionnaire BY JANUARY 29TH in the stamped, self-addressed envelope provided with this questionnaire. We will follow-up with a telephone call.

If you have questions about this survey, call Doug Stienbarger at 360-397-6060 x5742
(stiendm@wsu.edu)

LOL Pre-Class Survey

Living on the Land – Stewardship for Small Acreages

This brief survey helps us address your individual needs as small acreage landowners and tailor/adapt the program to your interests. ***All information collected on this form will be used only for this course to help you look at your management techniques.***

Name(s): * _____
 Mailing Address: * _____
 Phone Number: * _____
 Email Address: * _____

* This information is only used by our office for contact purposes and to inform you of other relevant events.

How many acres do you own? _____ How long have you owned this land? _____

Your parcel number(s) and/or legal description from your property tax statement. The parcel number is also your account number and is usually a six digit number followed by three zeros. Include physical address if different from mailing address. *(This will be used to generate maps of your property showing features such as soil types, topography etc. for your use during the course.)*

What do you use your acreage for? (***Check all that apply and list approximate size.***)

Vegetable garden	<input type="checkbox"/> _____	Pasture	<input type="checkbox"/> _____
Orchard	<input type="checkbox"/> _____	Hay	<input type="checkbox"/> _____
Floral/landscape	<input type="checkbox"/> _____	Lawn	<input type="checkbox"/> _____
Forest	<input type="checkbox"/> _____	Other (please	<input type="checkbox"/> _____
		list)	
Wildlife habitat	<input type="checkbox"/> _____	Other (please	<input type="checkbox"/> _____
		list)	

Do you own livestock? ☐ YES ☐ NO If so, what type of livestock?

Type	Total number	Type	Total number
_____	_____	_____	_____
_____	_____	_____	_____

Do you irrigate pastures? ☐ YES ☐ NO

Do you have mud problems? ☐ YES ☐ NO

Do you have unusually wet pasture(s)? ☐ YES ☐ NO

Do you have a well on your property? ☐ YES ☐ NO

Do you have a septic system? ☐ YES ☐ NO ☐ UNCERTAIN

Do any rivers, streams, creeks, or irrigation ditches run through your property? ☐ YES ☐ NO

Are there roadside ditches through or adjacent to your property? ☐ YES ☐ NO

What are your reasons for attending this workshop series? (use other side if necessary)

How did you hear about this class? (Please circle all that apply) E-mail The Reflector The
 Columbian The Oregonian Small Ac Program Event Camas-Washougal Post Record Other

LOL Individual Class Evaluation

Living On the Land

Class Evaluation – M1L1

Small Acreage Program

In order to help us evaluate this program, please answer the following questions

Please rate your knowledge of the following topic areas for both before and after you participated in the workshop. (Please circle your responses)						
		Poor	Fair	Average	Good	Excellent
Goal setting and taking a whole property view	Before...	1	2	3	4	5
	After...	1	2	3	4	5
Considering neighbors when setting property goals	Before...	1	2	3	4	5
	After...	1	2	3	4	5
Identifying assets on your property	Before...	1	2	3	4	5
	After...	1	2	3	4	5
Identifying problems on your property	Before...	1	2	3	4	5
	After...	1	2	3	4	5
What overall score would you give this lesson?		1	2	3	4	5
Workshop evaluation						
Do you intend to use any of the information provided?		Yes		No		
Did you learn something new or how to do others differently?		Yes		No		

What was the most informative part of this lesson?

Are there part(s) we need to spend more or less time on?

More:

Less:

Which part was too technical or too easy and why?

Too technical:

Too easy:

What is one practice from this lesson you might implement within a year?

LOL Class Series Evaluation

Living on the Land – Stewardship for Small Acreages
Whole-Class Evaluation

Please rate the entire twelve week program.

- *Module 1: Inventorying Resources, County Codes*- Doug Stienbarger (Inventory), Scott Melville (Codes)
- *Module 2: Your Living Soil* – Heather Havens (Soil Testing), Gordon French (Soil Texture, Lime)
- *Module 3: Water Quality, Wells & Septic, and Streams* – Sean Hawes (septic), Chris Hathaway (Streams)
- *Module 5: Pasture & Weed Management* – Gene Pirelli (Pastures), Kara Hauge & Cia Bywater (Weeds)
- *Module 6: Animal Management and Wildlife* – Doug Steinbarger (Animal), Rachel Maggi (Wildlife)
- *Module 7: Business Opportunities* – Chip Bubl (Business Planning), Justin O’Dea (Value-Added)
- *Module 8: Stewardship and Tying It Altogether* – Amber Lefstead

Please circle your answer.

	Excellent			Poor	
What overall score would you give this program?	5	4	3	2	1
Did the program series answer most of your questions?	YES		NO		
Did you learn useful information?	YES		NO		
	Quite a Lot		Some	Very Little	
How much will you use this information to change what you do on your land?	5	4	3	2	1
	Too long		About Right	Too Short	
The program series was:	5	4	3	2	1

Please explain why you rated any category below average:

What would you like to see added to the program (other or new topics)? Deleted?

Would you recommend this program to neighbors or friends?

How have you changed the way you manage your property based on what you learned in this class?

Which speakers did you like best? Are there any speakers who you would not invite back? (see speaker list on page 1)

What management practices will you change or implement within a year?

Did this program help you better understand the goals for your property and how you can meet those goals?

What are the first five words that occur to you to describe this program?

Was the time and day of the week convenient for you? Would something else work better (another weekday, Saturdays)? What about the time of year?

Did you submit a sample to a lab for analysis for any of the following?

	Yes	No	Plan to within the next year
Soil	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Forage	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Water	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Other Comments:

Thank you for your interest, your excellent questions, and your sense of humor!

Well & Septic Workshop Evaluation/Assessment Form

Please rate your knowledge of the following topic areas for both before and after you participated in the workshop.

(Please circle your responses)

		<i>Poor</i>	<i>Fair</i>	<i>Average</i>	<i>Good</i>	<i>Excellent</i>
Knowledge of well and septic maintenance	Before...	1	2	3	4	5
	After...	1	2	3	4	5
Keeping my drinking water healthy	Before...	1	2	3	4	5
	After...	1	2	3	4	5
Protecting my septic system	Before...	1	2	3	4	5
	After...	1	2	3	4	5
How to properly inspect my septic system	Before...	1	2	3	4	5
	After...	1	2	3	4	5
How my management practices impact clean water	Before...	1	2	3	4	5
	After...	1	2	3	4	5

Program evaluation

Do you intend to use any of this information? Yes No

Was the septic inspection component sufficient? Yes No

Was this program understandable? Yes No

Did the program answer your questions? Yes No

Was this program worth your time to attend? Yes No

What did you like best about the program?

In order to improve this program, are there part(s) we need to spend more or less time on? Topics to add or delete?

Do you have a well? *(circle one)* Yes No

Are you currently using it for your household water source? *(circle one)* Yes No

What was the main reason you attended this workshop? *(check one)* ☐ Learn about septic maintenance and protection.

☐ Learn about well maintenance and protection. ☐ Learn about how management practices impact clean water.

☐ Get the free coliform bacteria well test. ☐ Get certified to inspect your own septic system

Workshop Evaluation

Native Plant Landscaping Workshop Evaluation

Small Acreage Program – August 22, 2017

In order to help us evaluate this program, please answer the following questions

Please rate your knowledge of the following topic areas for both before and after you participated in the workshop. (Please circle your responses)						
		Poor	Fair	Average	Good	Excellent
	Before...	1	2	3	4	5
Benefits of native plants for your landscape	After...	1	2	3	4	5
Dealing with erosion, drainage and slope stabilization	Before...	1	2	3	4	5
	After...	1	2	3	4	5
Soil health, soil pollution and impacts on plant health	Before...	1	2	3	4	5
	After...	1	2	3	4	5
Means for handling stormwater (e.g. vegetative pervious surfaces, rain gardens, etc)	Before...	1	2	3	4	5
	After...	1	2	3	4	5
What overall score would you give this workshop?		1	2	3	4	5
Workshop evaluation						
Do you intend to use any of the information provided?				Yes	No	
Did you learn something new or how to do others differently?				Yes	No	

What was the most informative part of this workshop?

Are there part(s) we need to spend more time on?

Less time on?

What is one practice from this workshop you might implement within a year?

Are there other topics you would like to see offered as workshops in the future?

Property Tour Evaluation

WSU Clark County Extension – Small Acreage Program
Yacolt Farm Tour (July 15); Horse Homestead Tour (July 22); Alpaca Tour (Dec 2)

In order to help us evaluate this program, please answer the following questions

Please rate your knowledge of the following topic areas for both before and after you participated in the tour.						
		<i>Poor</i>	<i>Fair</i>	<i>Average</i>	<i>Good</i>	<i>Excellent</i>
<i>(Please circle your responses)</i>						
Knowledge of pasture management.	Before	1	2	3	4	5
	After...	1	2	3	4	5
Knowledge of manure management.	Before	1	2	3	4	5
	After...	1	2	3	4	5
Ways to manage runoff and control mud.	Before...	1	2	3	4	5
	After...	1	2	3	4	5
How management practices impact water quality.	Before	1	2	3	4	5
	After...	1	2	3	4	5
What overall score would you give this tour?		1	2	3	4	5
<i>Tour evaluation</i>						
Do you intend to use any of the information provided?				Yes	No	
Did you learn something new or how to do others differently?				Yes	No	

What was the most informative part of this tour?

Are there part(s) we need to spend more or less time on?

More:

Less:

What is one practice from this tour you might implement within a year?

Are there topics you would like to see offered at other workshops in the future?

Soil Health Optimization

Small Acreage Program – July 12, 2017

In order to help us evaluate this program, please answer the following questions

Please rate your knowledge of the following topic areas for both before and after you participated in the workshop. (Please circle your responses)						
		<i>Poor</i>	<i>Fair</i>	<i>Average</i>	<i>Good</i>	<i>Excellent</i>
Understanding soil texture & structure	Before...	1	2	3	4	5
	After...	1	2	3	4	5
Nitrogen content, transformation and soluble forms in soil amendments	Before...	1	2	3	4	5
	After...	1	2	3	4	5
Reasons for use of cover crops	Before...	1	2	3	4	5
	After...	1	2	3	4	5
Management practices that improve soil health	Before...	1	2	3	4	5
	After...	1	2	3	4	5
What overall score would you give this workshop?		1	2	3	4	5

Workshop evaluation

Do you intend to use any of the information provided?	Yes	No
Did you learn something new or how to do others differently?	Yes	No

What was the most informative part of this workshop?

Are there part(s) we need to spend more or less time on?

What practices from this workshop you might implement within a year?

Are there other topics you would like to see offered as workshops in the future?

Pasture Establishment & Renovation Workshop Evaluation

Small Acreage Program – October 4, 2018

In order to help us evaluate this program, please answer the following questions

Please rate your knowledge of the following topic areas for both before and after you participated in the workshop. (Please circle your responses)						
		<i>Poor</i>	<i>Fair</i>	<i>Average</i>	<i>Good</i>	<i>Excellent</i>
Methods for renovating/reseeding pastures	Before...	1	2	3	4	5
	After...	1	2	3	4	5
How grass life cycle impacts pasture management practices during fall and winter	Before...	1	2	3	4	5
	After...	1	2	3	4	5
Common grass/legume species for Western WA pastures	Before...	1	2	3	4	5
	After...	1	2	3	4	5
How pasture management practices impact water quality	Before...	1	2	3	4	5
	After...	1	2	3	4	5
What overall score would you give this workshop?		1	2	3	4	5

Workshop evaluation

Do you intend to use any of the information provided?	Yes	No
Did you learn something new or how to do others differently?	Yes	No

What was the most informative part of this lesson?

Are there part(s) we need to spend more or less time on?

More:

Less:

Which part was too technical or too easy and why?

Too technical:

Too easy:

What is one practice from this lesson you might implement within a year?

Workshop & Tour Follow-Up Impact Survey

BMP Workshop

We are glad you were able to participate in the «Workshop» Best Management Practice (BMP) workshop on «Date» with the Small Acreage Program. WSU Clark County Extension depends on class participants to provide feedback on our programs. All responses will be kept anonymous. We greatly appreciate your help. Thank you!

First name _____ Last Name _____

1. Did you put in or start using any of the practices discussed at the workshop?

☐ Yes ☐ No

2. If yes, which practices did you put in or start using? (ex: french drain, gutters & downspouts, sacrifice area, manure storage facility, covered manure pile, fenced off stream or wetland, perimeter or cross-fencing pasture, etc.)

3. Have you shared what you learned in this class with anyone else?

☐ Yes ☐ No

4. If yes, who have you shared with? (check all that apply)

☐ Friends ☐ Family ☒ Neighbors ☐ Coworkers

☐ Other (please list) _____ ☐ Other (please list) _____

5. About how many people did you share information with?

Please return this questionnaire BY June 30 in the stamped, self-addressed envelope provided. Multiple evaluations can be sent together in one envelope. We will follow-up with a reminder telephone call or e-mail.

If you have questions about this survey, call Eric Lambert at 360-397-6060 x5729 (eric.lambert@clark.wa.gov) or Doug Stienbarger x5742 (stiendm@wsu.edu).

Appendix D: Wells and Septic Maintenance Workshops

FLYER

ADVERTISEMENT

OTHER PUBLICITY

WELLS AND SEPTIC MAINTENANCE WORKSHOP FLYER

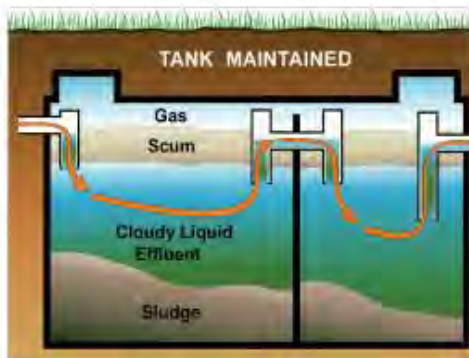
Well & Septic Inspection Certification

Homeowners! Get certified to inspect your own gravity-fed septic system and learn how to properly maintain your well and septic systems.

Well & Septic Inspection Certification and Maintenance Workshop

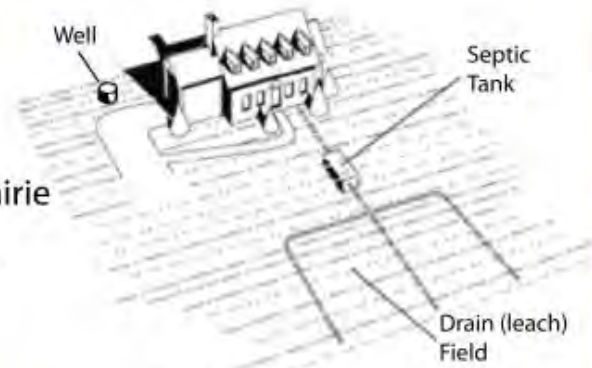
Get certified to inspect your septic system.*

* System must be owner occupied. Certification applies only to gravity fed systems. Not valid for sale of house, homeowner can self-inspect every other inspection, alternating with a certified O&M professional.



Learn how to:

- ◇ Prevent costly repairs
- ◇ Protect your drinking water
- ◇ Maintain your well and septic system



Where: CASEE Building B
Rooms 202 & 205
11104 NE 149 St, Brush Prairie

Dates: Wednesday, June 21 OR
Wednesday, Aug 16 OR
Wednesday, Sept 20

Time: 6 - 9 PM

Cost: \$15 per household

Registration and details at:

www.2017septic.brownpapertickets.com/

Sponsored by: WSU Clark County Extension, Clark County Clean Water Program, and Clark County Public Health.



WSU CLARK COUNTY EXTENSION
Small Acreage Program



Public Works
Clean Water



Public
Health

WSU Extension programs and employment are available to all without discrimination. Reasonable accommodations will be made for persons with disabilities and special needs who contact 360-397-6060 ext 0 at least two weeks prior to an event.

OTHER PUBLICITY

Facebook

WSU Extension Small Acreage Program
Published by Eric Smallacreage (7) · April 25 ·

Calling all Well & Septic System Owners: We've got a class for you! If you own a well and/or gravity-fed septic system, come out to the CASEE Center on May 9 from 6-9pm to learn how to properly maintain it. For \$15, take our Well & Septic Class and get certified to inspect your own septic system.
<http://2017septicclass.brownpapertickets.com/>



Well & Septic Inspection Certification

Homeowners! Get certified to inspect your own gravity-fed septic system and learn how to properly maintain your well and septic systems.

Well & Septic Inspection Certification and Maintenance Workshop

Get certified to inspect your septic system.*

* System must be owner occupied and gravity fed. Not valid for sale of house, homeowner can self-inspect every other inspection, alternating with a certified O&M professional.

Learn how to:

- Prevent costly repairs
- Protect your drinking water
- Maintain your well and septic system

Where: CASEE Building B
Rooms 202 & 205
11104 NE 149 St, Brush Prairie

Date: Tuesday, May 9

Time: 6 - 9 PM

Cost: \$15 per household

Registration and details at:
www.2017septicclass.brownpapertickets.com

Sponsored by: WSU Clark County Extension, Clark County Clean Water Program, and Clark County Public Health.

WSU Extension programs and employment are available to all without discrimination. Reasonable accommodations will be made for persons with disabilities (and special needs) who contact 360-397-6060 ext 0 at least two weeks prior to an event.

512 people reached [Boost Post](#)

WSU Extension Small Acreage Program
Published by Eric Smallacreage (7) · April 28 ·

Did you know?! You can get certified to inspect your own gravity-fed septic system! Save money and learn how to properly maintain your septic system at our Well & Septic Inspection Certification class. Tuesday, May 9, 6-9pm at the CASEE Center in Brush Prairie, WA



Well & Septic Homeowners, Do you want to:

- Save money?
- Get certified to inspect your own gravity-fed septic system?
- Protect your well water?
- Learn maintenance tips to protect your investments?
- Learn how your well and septic systems operate?

Well & Septic Inspection Certification & Maintenance for Homeowners

When: Tuesday, May 9 from 6-9pm
Where: CASEE Center, Bldg B
11104 NE 149 Street, Brush Prairie

Register at:
2017septicclass.brownpapertickets.com
\$15 PER HOUSEHOLD
CLASS SIZE LIMITED

For more info: Contact WSU Clark County Extension
360-397-6060 x 0 or amber.lefstead@wsu.edu

Jointly Sponsored By: WASHINGTON STATE UNIVERSITY CLARK COUNTY EXTENSION Small Acreage Program, Clark County Clean Water Program, Public Health

WSU Extension programs are available to all without discrimination. Persons requiring special accommodations should call WSU Clark County Extension at 360-397-6060 ext 0 prior to the event.

560 people reached [Boost Post](#)

WSU Extension Small Acreage Program
Published by Eric Smallacreage (7) · May 22 ·

Do you have a well or gravity-fed septic system? If so, check out our next Well & Septic Inspection Certification class - June 21 from 6-9pm in Brush Prairie. Learn important maintenance tips to protect your investments and save money by getting certified to inspect your own septic system.



Get certified to inspect your septic system.*

* System must be owner occupied. Certification applies only to gravity fed systems. Not valid for sale of house, homeowner can self-inspect every other inspection, alternating with a certified O&M professional.

Learn how to:

- Prevent costly repairs
- Protect your drinking water
- Maintain your well and septic system

Where: CASEE Building B
Rooms 202 & 205
11104 NE 149 St, Brush Prairie

Date: Wednesday, June 21 OR

Well and Septic Inspection Certification and Maintenance

Get certified to inspect your own septic system and learn how to properly maintain your well and septic system

2017SEPTIC.BROWNPAPERTICKETS.COM

237 people reached [Boost Post](#)

PAID ADVERTISEMENT

The Reflector
August 16, 2017

**Well & Septic Homeowners,
Do you want to:**

- Save money?
- Get certified to inspect your own gravity-fed septic system?
- Protect your well water?
- Learn maintenance tips to protect your investments?
- Learn how your well and septic systems operate?

Well & Septic Inspection Certification & Maintenance for Homeowners



When: Wed, Aug 16 from 6-9pm
Where: CASEE Center, Bldg. B
11104 NE 149 Street, Brush Prairie

Register at:
<http://2017Septic.brownpapertickets.com>
\$15 PER HOUSEHOLD
CLASS SIZE LIMITED

For more info: Contact WSU Clark County Extension
360-397-6060 x 5733 or amber.lefstead@wsu.edu

Jointly
Sponsored
By:

WASHINGTON STATE
UNIVERSITY
EXTENSION
Small Acreage Program

CLATSOP COUNTY
Public Works
Clean Water
Program

Public Health
Prevent. Promote. Protect.

WSU Extension programs are available to all without discrimination. Persons requiring special accommodations should call
WSU Clark County Extension two weeks prior to the event at 360-397-6060 ext. 0

Appendix E: BMP Workshops

FLYERS

OTHER PUBLICITY

PAID ADVERTISEMENT

OPTIMIZING SOIL HEALTH FLYER

Optimizing Soil Health

Save money while buidling and protecting one of your most valuable natural resources!

Learn how to improve soil fertility and structure with soil chemist and WSU Master Gardener, Dr. Martha Minnich.



Learn How To:

- ◇ Interpret soil test results.
- ◇ Increase soil organic matter.
- ◇ Use best practices to improve soil health, such as reduced till, maintaining biodiversity, cover crops and more!

Optimizing Soil Health

Where: Clark County Public Works
78th St. Ops Center
(4700 NE 78th St, bldg. B1)

Date: Wednesday, July 12

Time: 6 to 9 PM

Cost: \$10 per person

Register at:

www.soilclass.brownpapertickets.com/

Jointly Sponsored by: WSU Clark County Extension and Clark County Clean Water Program.



WSU CLARK COUNTY EXTENSION
Small Acreage Program



Clean Water
Program

WSU Extension programs and employment are available to all without discrimination. Reasonable accommodations will be made for persons with disabilities and special needs who contact 360-397-6060 ext 0 at least two weeks prior to an event.

LANDSCAPING WITH NATIVES FLYER

Landscaping with Natives

Learn how to transform your small acreage into a diverse, low-maintenance and nature-friendly oasis with native plants!

Discover the benefits of native plants and learn design ideas to help with:

- ◇ Managing erosion
- ◇ Slope stabilization
- ◇ Drainage challenges
- ◇ Solutions for shady, wet, or sloped areas



Solomon's Seal



Ocean's Spray



Five-Finger Fern and Vancouveria

Landscaping with Natives

Where: Clark County Public Works
78th St. Ops Center
(4700 NE 78th St, bldg. B1)

Date: Tuesday, August 22

Time: 6 to 8 PM

Cost: \$10 per person

Register Today!

<http://nativelandscapes.bpt.me>

Jointly Sponsored by: WSU Clark County Extension and Clark County Clean Water Program.



WSU CLARK COUNTY EXTENSION
Small Acreage Program



Clean Water
Program

WSU Extension programs and employment are available to all without discrimination. Reasonable accommodations will be made for persons with disabilities and special needs who contact 360-397-6060 ext 0 at least two weeks prior to an event.

PASTURE ESTABLISHMENT & RENOVATION FLYER

Pasture Management, Establishment & Renovation

Learn valuable practices to enhance your pasture and improve your forage from a regional OSU Extension specialist.

Join this workshop to hear OSU Extension livestock and forage specialist Gene Pirelli discuss pasture management practices that will get your pastures back on track. This workshop will cover:

- ◇ Grazing practices that improve pasture health
- ◇ Reseeding techniques and practices
- ◇ Pros and cons of various grass varieties
- ◇ Pasture renovation strategies and equipment



Pasture Management, Establishment & Renovation

Where: 78th Street Heritage Farm
(1919 NE 78th Street, Vancouver)

Date: Wednesday, October 4

Time: 6 to 9 PM

Cost: \$10 per person



Registration and details at:

www.pasture.brownpapertickets.com

Jointly Sponsored by: WSU Clark County Extension and Clark County Clean Water Program.



WSU CLARK COUNTY EXTENSION
Small Acreage Program



Clean Water
Program

WSU Extension programs and employment are available to all without discrimination. Reasonable accommodations will be made for persons with disabilities and special needs who contact 360-397-6060 ext 0 at least two weeks prior to an event.

OTHER PUBLICITY

Facebook

WSU Extension Small Acreage Program
Published by Eric Smallacreage 171 · July 11 · 🌐

Optimizing Soil Health class is one day away! Come out tomorrow from 6-9pm at the 78th Street Ops Center in Vancouver and learn new tips to improve the fertility and structure of your soil.



Optimizing Soil Health
Do you want to increase your soil health? This workshop will cover how to improve soil fertility and soil structure through a number of best practices, including no-till...
SOILSCCLASS.BROWNPAPERTICKETS.COM

41 people reached

Boost Post

Like Comment Share

WSU Extension Small Acreage Program added an event.
August 9 · 🌐

Does your landscape need a fresh face? This workshop will show you how to transform your landscape using native plants. Discover good deer resistant, drought tolerant and flood tolerant plants, and learn how to address erosion and drainage challenges and stabilize slopes.

The workshop will be held at the 78th Street Operations Center in Vancouver, WA. Participants will learn from Vanessa Gardner Nagel, a professional landscape designer.

Date: Tuesday, August 22, 2017 · See More

Landscaping with Natives

Learn how to transform your small acreage into a diverse, low-maintenance and nature-friendly oasis with native plants!



Landscaping with Natives class
Tue 8 PM · WSU Extension Small Acreage Progr...
How like WSU Extension Small Acreage Program

22

Interested


Boost Unavailable

Like Comment

Paulina Oberg, Eric Lambert and 9 others

WSU Extension Small Acreage Program
Published by Eric Smallacreage 171 · August 2 · 🌐

Discover the benefits of native plants and learn design ideas to help with managing erosion, slope stabilization and drainage challenges. Come check out our workshop - Landscaping with Natives - on Tuesday, Aug 22, 6-8pm in Vancouver.



Native Vegetation Landscaping
Learn how to create an aesthetic and eco-friendly landscape with native plants!
NATVELANDSCAPES.BROWNPAPERTICKETS.COM

271 people reached

Boost Post

Like Comment Share

Styn VanBodegom, Amber Lefstead and 3 others

PAID ADVERTISEMENT

The Reflector
June 28, 2017

Optimizing Soil Health

*Save money while building and protecting
one of your most valuable natural
resources!*

REGISTER HERE:
www.soilclass.brownpapertickets.com/

When: Wednesday, July 12 from 6-9 PM
Where: 4700 NE 78th Street, Vancouver, WA 98665
Cost: \$10. Register early, class size limited!
Additional information: WSU Clark County Extension
360-397-6060 ext. 5729 / amber.lefstead@wsu.edu

WSU Extension programs are available to all without discrimination.
Persons requiring special accommodations should call WSU Clark County Extension at
(360) 397-6060 ext. 0 prior at least two weeks prior to the event.

Topics Include:

- Interpreting soil test results
- Increasing soil organic matter
- Improving soil fertility and structure
- Best practices to restore soil health
- AND much more!!!

WASHINGTON STATE
UNIVERSITY
EXTENSION

Small Acreage Program
Sponsored by:
WSU Clark County Extension
Clark County
Clean Water Program

Appendix F: Small Acreage Expo

PROMOTIONAL FLYER

EXPO PROGRAM

PRESS RELEASE SAMPLE

PAID AD SAMPLE

PUBLICITY

Expo Promotional Flyer

Small Acreage Expo

Getting the most out of your land! Sustainable grazing, composting, weed control, soils, drainage, and more!

12th Annual Small Acreage Expo

Workshops on topics small acreage landowners want to know about.

- Septic System Inspection



- Soil Testing & Organic Fertilizers



- Improving Drainage



April 8!
Workshops, Demos,
Door Prizes, Lunch &
More!

- Grazing Management



Date: Saturday, April 8, 8:30am-3:30pm

Location: WSU Clark County Extension
78th Street Heritage Farm (1919 NE 78th St.)

Cost: \$15 pre-register (by April 5, with lunch)
\$25 walk-in (no lunch)

Other Topics:

- Mushroom Cultivation
- Weed Control
- Liming Pastures
- And MORE!

Registration & list of classes at: Expo2017.brownpapertickets.com

Questions? Contact Amber at 360-397-6060 x5729 amber.lefstead@wsu.edu



WSU CLARK COUNTY EXTENSION
Small Acreage Program



Public Works
Clean Water Program

WSU Extension programs and employment are available to all without discrimination. Reasonable accommodations will be made for persons with disabilities and special needs who contact 360-397-6060 ext 0 at least two weeks prior to an event.

12th Annual Clark County Small Acreage Expo



Saturday, April 8
8:30 AM - 3:30 PM

78th Street Heritage Farm
1919 NE 78th Street
Vancouver, WA

- Workshops
- Prizes
- Lunch
- Networking
- & Much More!

The Small Acreage Program is jointly sponsored by:



Public Works
Clean Water Division

Workshop Schedule

Registration & Check-in	8:30 - 9:00 AM
Session A	9:00 - 10:15 AM
Session B	10:30 - 11:45 AM
Lunch	11:45 - 12:45 PM
Session C	12:45 - 2:00 PM
Session D	2:15 - 3:30 PM
Evaluations & Door Prizes	3:30 PM

Workshop Locations

A1	Head House
A2	Conference Room
A3	Garage
A4	Greenhouse
B1	Garage
B2	Conference Room
B3	Head House
Lunch	Registration Table
C1	Head House
C2	Conference Room
C3	Garage
D1	Head House
D2	Conference Room
D3	Garage
Door Prizes	Registration Table

Special Thanks To:

All of our speakers,
vendors, and
volunteers.



Session A 9:00 - 10:15 AM

Managing Grazing for Sustainable Pastures: Hay and Animal Nutrition

Gary Fredericks, WSU Cowlitz County Extension

- A1** Want to improve pasture quality and increase forage yields? This session will discuss best practices to keep your pastures productive for the long run while maximizing forage through managed grazing.

Mushroom Cultivation

Tony McMigas, McMigas Family Farm

- A2** Learn various ways to incorporate mushrooms into your garden. You will get an overview of how to cultivate mushrooms on straw, logs, and woodchips. Tony will also explain how Fungi can help filter and decontaminate water and soil.

Weed'em and Reap

Kara Hauge, Clark County Vegetation Management

- A3** Are you losing ground in the fight against weeds? Learn to identify and control weeds that don't belong on your property and may harm your animals. Then practice spotting weeds on a pasture walk at the Heritage Farm (weather permitting).

Low Down on Lime

Gordon French, LLC Feeds

- A4** Want to green your pastures? Gordon will discuss timing, rates, and application methods for lime and fertilizers for pastures in our area. Then join him for a demonstration (weather permitting) of proper lime application!

Composting

Pete Dubois, Master Composter Recycler

- B1** Learn how to successfully set up your own compost pile and turn yardwaste and food scraps into gardener's gold. This class will cover setting up a compost bin, types of compost bins and tips for success.

Septic Inspection Certification

Sean Hawes & Yvonne Van Nostran, Clark County Public Health

- B2** Learn how to correctly inspect your home septic system to keep your investment working properly. At the conclusion of this presentation, take the Public Health Operations & Management test to become certified to do your own septic inspections (gravity fed only).

Beekeeping

Charles Bennett, Clark County Beekeepers

- B3** What can you do to help our local honeybee population? One way is to become a beekeeper! Learn the basics of getting set up, tips about keeping bees and what to expect after you get your own swarm.

Session C
12:45 - 2:00 PM

- C1** **Composting with Worms**
Pete Dubois, Master Composter Recycler
Don't let those food scraps and other organic materials go to waste! Learn how you can use worms to create nutrient rich garden fertilizer while reducing your waste footprint. Participants will learn how to build vermicompost bins and care for these hard working worms!
- C2** **Improving Drainage**
Grant Johnson
Got drainage problems? Grant will talk solutions. He'll cover surface and subsurface water issues and will highlight tips and techniques to improve drainage around your home and outbuildings.
- C3** **Manure Management**
Denise Smee, Clark Conservation District
Join Denise to learn how you can manage your mountain of manure. Learn ways to compost, store, manage and use the manure you have. Also, find out how to rent the Conservation District's manure spreader!

Session D
2:15 - 3:30 PM

- D1** **Rain Barrels, Green Roofs, and Managing Wet Weather with LID**
Rob Bacon, Portland State University
Want to learn new ways to manage this winter's wet weather? Join Rob for a discussion on rain barrels, raingardens, permeable pavement, green roofs and other low impact development (LID) techniques.
- D2** **Sustainable Living for Small Farms**
Eric Lambert, Clark County Public Health
Join Eric to learn important sustainability topics to keep in mind on your small acreage property. In this class geared toward new small acreage landowners you'll explore relationships between plants, animals, water, and soil that can improve farm operations and sustainability.
- D3** **Soil Testing & Organic Fertilizer**
Heather Havens, Concentrates NW
Want to know when, why and how to use a soil test to determine the nutrients of your vegetable garden? Learn what testing for nutrients does and does not provide. Plant nutrient needs, how to sample and interpret soil test results, and guidelines for adding the right amount of fertilizers and organic soil amendments will be covered. (If you've had your soil tested by A&L Labs in the past, bring your soil test and we'll analyze the results.)

Site Map



Directions to the 78th Street Heritage Farm - 1919 NE 78th St.

From I-5 North or South:

Exit #4 - 78th Street

Go East for .5 miles, through 3 traffic lights and the farm will be on your right.

From I-205 North or South:

Exit #32 - Padden Parkway West

Go West for 2.5 miles and the farm will be on your left.



Thanks to our Donors:



COLUMBIA RIVER
CARBONATES



Special Thanks To our Speakers From:

Buzy Bee Farm
Clark Conservation District
Clark County Public Health
Concentrates NW
Clark County Vegetation Management
Grant Johnson Drainage
LIC Feed
Master Composter/Recyclers
McMigas Family Farm
Portland State University
WSU Cowlitz County Extension



WSU CLARK COUNTY EXTENSION
Small Acreage Program

Extension programs are available to all without discrimination. If you require special accommodation, call WSU Extension Clark County at (360) 397-6060 ext 0 prior to the event.

Expo Sample Press Release

March 14, 2017

Contact: Amber Lefstead
WSU Extension Clark County
Tel: 360-397-6060 ext. 5729
Fax: 360-759-6524
E-mail: amber.lefstead@wsu.edu

WSU Extension Celebrates 12th Annual Small Acreage Expo

Saturday, April 8, 2017 - 8:30 AM to 3:30 PM
Heritage Farm, 1919 NE 78th Street, Vancouver, WA

Vancouver, WA – WSU Clark County Extension and the Clark County Public Works Clean Water Program invite the community to the twelfth annual Small Acreage Expo on Saturday, April 8 at the 78th Street Heritage Farm.

This year's Small Acreage Expo offers a variety of topics including workshops on cultivating mushrooms, beekeeping, sustainable grazing, soil testing and organic fertilizers, rain barrels, and much more. Participants interested in becoming certified to inspect their own gravity-fed septic system should attend the septic inspection certification workshop. A program providing descriptions of classes as well as online registration is available at <http://expo2017.brownpapertickets.com>.

Throughout the day, participants can peruse education booths to meet and learn more about local organizations and agencies serving the small acreage community.

According to Amber Lefstead, Small Acreage Program Coordinator, "The small acreage community comes together at the Expo to meet one another and learn valuable tips about effectively managing their property." Doug Stienbarger, County Extension Director adds, "It's a great opportunity to discover local resources and learn new practices to improve their property, which can save people money and help protect the environment."

Pre-registration is \$15 in advance, \$25 for walk-ins the day of the event. Register by Wednesday, April 5 to include a free lunch! Please call 360-397-6060 ext. 0 to get directions, or for more information about the WSU Clark County Extension's Small Acreage Program.

WSU Extension programs and employment are available to all without discrimination. Persons requiring special accommodations should call WSU Extension Clark County at (360) 397-6060 ext. 0 at least two weeks prior to the event

Paid Advertisement Sample

The Reflector

**12th Annual Clark County
Small Acreage Expo**

Saturday April 8, 2017 8:30 am - 3:30 pm
78th Street Heritage Farm

**Prizes, Workshops
and More!**

**\$15 - Register by April 5
to include free lunch!**

Register at: <http://expo2017.brownpapertickets.com>

Session A	A1 Sustainable Grazing	Session C	C1 Improving Drainage
	A2 Low Down on Lime		C2 Composting with Worms
	A3 Weed'em and Reap		C3 Manure Management
	A4 Mushroom Cultivation		C4 Gearing up for Goats
Open House Lunch! Network and meet local agencies that serve Clark County			
Session B	B1 Beekeeping	Session D	D1 Sustainable Living for Small Farms
	B2 Septic Inspection Certification		D2 Managing Wet Weather with LID
	B3 Composting		D3 Soil Testing & Organic Fertilizers

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WSU Extension at (360) 397-6060 ext. 0 at least two weeks prior to the event.

Publicity

Facebook

WSU Extension Small Acreage Program
Published by Eric Smallacreage [?] · March 18 at 11:02am ·

The 2017 Small Acreage Expo is coming up next month! Mark your calendar for April 8. Come out and learn about soil testing, organic fertilizers, improving drainage, and MORE! And remember to register soon. If you register by April 5, you get a free boxed lunch with your ticket.



Small Acreage Expo
Getting the most out of your land! Sustainable grazing, composting, weed control, soils, drainage, and more!

12th Annual Small Acreage Expo
Workshops on topics small acreage landowners want to know about.

- Septic System Inspection
- Soil Testing & Organic Fertilizers
- Improving Drainage
- Grazing Management

April 8!
Workshops, Demos, Door Prizes, Lunch & More!

Date: Saturday, April 8, 8:30am-3:30pm
Location: WSU Clark County Extension
78th Street Heritage Farm (1919 NE 78th St.)
Cost: \$15 pre-register (by April 5, with lunch)
\$25 walk-in (no lunch)

Other Topics:
• Mushroom Cultivation
• Weed Control
• Liming Pastures
• And MORE!

Registration & list of classes at: Expo2017.brownpapertickets.com
Questions? Contact Amber at 360-397-6060 x5729 amber.lafstead@wsu.edu

WASHINGTON STATE UNIVERSITY EXTENSION
WSU CLARK COUNTY EXTENSION Small Acreage Program
Public Works Clean Water Program

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1,000 people reached

Boost Post

Like Comment Share

Farm 64, Dan Davies and 2 others

4 shares

WSU Extension Small Acreage Program
Published by Eric Smallacreage [?] · March 22 at 11:00am ·

The Small Acreage Expo coming up in 2 weeks! Come out to the Heritage Farm on Saturday April 8 and learn about composting, manure management, beekeeping, soil testing, rain barrels and more!
<http://extension.wsu.edu/.../naturalreso.../smallacreageprogram/>



661 people reached

Boost Post

Like Comment Share

Karlawsda Salp, Korrin Fotheringham and 6 others

2 shares

Appendix G: Harvest Celebration

HARVEST CELEBRATION FLYER

PRESS RELEASE

PAID ADVERTISEMENT

OTHER PUBLICITY

HARVEST CELEBRATION FLYER

19th HARVEST CELEBRATION DAY



FREE!

19th Annual Tour of
Clark County Farms
Saturday, September 16, 2017
10 am to 3 pm

Photo credit: Botany Bay Farm



WASHINGTON STATE
UNIVERSITY
EXTENSION

Showcasing the Bounty of
Clark County Farms

Farm Guide
and Maps at:

<http://clark.wsu.edu>

HARVEST CELEBRATION PRESS RELEASE

August 28, 2017

Meet Your Neighborhood Farmers at the 19th Annual Harvest Celebration

Saturday, September 16, 2017

10:00am – 3:00pm

FREE Event

Clark County, WA — Ten farms will open their doors to the public on Saturday, September 16 to show the bounty of local agriculture in Clark County and give neighbors an opportunity to tour and meet their area farmers. With nearly two thousand farms throughout Clark County providing fresh produce and meats, this is a great opportunity to introduce the family to the farmers who make our local agriculture strong.

Two new farms will join the tour this year, including Serendipity Alpaca Ranch, and Peculiar Ambitions Educational Farm. Joining them will be Botany Bay Farms, Half Moon Farm, Bi-Zi Farms, Yacolt Mountain Farm, Coyote Ridge Ranch, Compass Rose Alpacas, White Oak Alpacas and Greene Jungle Farm.

Farms will offer a variety of fun-filled events such as animal petting, hay rides, self-guided tours, and photo ops with alpacas. Educational activities will also be offered including edible plant walks, and classes on growing dahlias, alpaca fiber processing, youth finger knitting, and raising backyard chickens, pork and beef. Participants will be able to meet their local farmers; purchase fresh produce, U-pick, cut flowers, and other farm products; see alpacas, draft horses, chickens, lambs, and other livestock; and tour vegetable fields and flower gardens.

This year's Harvest Celebration will also feature three local farms that have been recognized by WSU Clark County Extension for showing a commitment to stewardship. Compass Rose Alpacas, Serendipity Alpaca Ranch, and Yacolt Mountain Farm have been awarded a 'Doing Our Part for Clean Water' sign, for implementing practices that protect clean water and natural resources.

Lefstead says, "These farms are important as we work to build a culture of stewardship in Clark County and they're an excellent place to learn about sustainable farming practices." Doug Stienbarger, WSU Clark County Extension Director says, "This celebration offers residents a great opportunity to meet local farmers in their backyard and connect with local sources for farm products, while also showing their support for Clark County agriculture."

More information is available online at <http://extension.wsu.edu/clark/calendar/> or from the Extension office in Vancouver located at 1919 NE 78th Street. Participating farms will be open to visitors from 10 am to 3 pm.



Photos ops with alpacas at White Oak Alpacas, Compass Rose Alpacas, and Serendipity Alpaca Ranch

WSU Extension programs and employment are available to all without discrimination. Persons requiring special accommodations should call WSU Clark County Extension at (360) 397-6060 ext. 0 at least two weeks prior to the event.

PAID ADVERTISEMENT

The Reflector – September 6 & 13, 2017

WASHINGTON STATE UNIVERSITY CLARK COUNTY EXTENSION

19th Annual Farm Tour &
**Harvest
Celebration**

Showcasing the bounty of Clark County Farms

Free family fun on this self-guided tour of local farms!
Saturday, September 16th
10 am – 3 pm

- Visit with alpacas, chickens and other farm animals
- Learn how to spin yarn from alpaca hair or raise backyard chickens
- Meet draft horses, take a hay ride or tour an edible plant walk
- Buy u-cut flowers, vegetables, dahlia tubers, honey & fiber products
(See online descriptions for farms offering products for sale.)

Visit these farms!

- White Oak Alpacas
- Yacolt Mt. Farm
- Coyote Ridge Ranch
- Botany Bay Farm
- Half Moon Farm
- Compass Rose Alpacas
- Greene Jungle Farm
- Serendipity Alpaca Ranch
- Peculiar Ambitions Homestead
- Bi-Zi Farms

**Farm descriptions & map
at <http://clark.wsu.edu>**

No pets please



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WSU Extension programs are available to all without discrimination

Facebook Paid Advertisement – September 8, 2017

**WSU Extension Small Acreage Program**
Published by Eric Smallacreage 17 · September 8 at 1:25pm · 🌐

Want to tour your local farms? Ten Clark County farms will open their doors next Saturday, September 16 from 10am - 3pm for the 19th Annual Harvest Celebration. There will be farm tours, hay rides, workshops, animal petting, local produce for sale, and more! Check out the farms and activities and plan your farm tour today! [http://extension.wsu.edu/naturalres.../smallacreageprogram/...](http://extension.wsu.edu/naturalres.../smallacreageprogram/)



19th Annual Harvest Celebration

- Tour local farms
- Buy local produce
- Pet farm animals
- Take a hay ride
- Workshops on:
 - Raising chickens
 - Rotational farming
 - Food forest basics
 - & More!



Farm Maps: <http://clark.wsu.edu/>

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Great work! Your ad has an average relevance score of 8, which means it's getting more positive feedback and is costing less to deliver than most ads on Facebook.

 **8,503 people reached** [View Results](#)

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 Tia Moelellan, Larree Melvin and 117 others Chronological

OTHER PUBLICITY

Facebook



The Reflector
September 13, 2017
p. C5

SEPTEMBER 13, 2017

The Reflector C5

Lifestyles Outdoor Living

19th Annual harvest celebration: a closer look

Landscape designer and dahlia farmer talks about the importance of local farming and what her family has planned for this weekend's tour

BY EVE HANLIN
FOR THE REFLECTOR

Ten farms will open their doors to the public on Saturday, Sept. 16 from 10 a.m. to 3 p.m. to share the bounty of local agriculture in Clark County.

Farms will offer a variety of fun-filled events such as animal petting, hayrides, self-guided tours and pictures with alpacas.

Purchase fresh produce, U-pick, cut flowers, and other farm products; see alpacas, draft horses, chickens, lambs and other livestock and tour farmland, vegetable fields and flower gardens.

Educational activities will be offered including a guided hike on foraging for local wild edible plants, and classes on growing dahlias, processing alpaca fiber, finger knitting, raising backyard chickens, pork, beef and more. What makes this event even better? It's free.

One of the main purposes of this event is to provide an opportunity to shake hands with local farmers and learn where to shop for locally produced farm products.

Agricultural land in this area is shrinking at an alarming rate. While urban growth is a good thing, no one wants to live in a community without the benefits of local farmland. Food bought at most big-box grocery stores is shipped hundreds if not thousands of miles and is almost always less nutritious than farm-tended produce grown nearby.

Simply put, money spent at local farms keeps local farms in business.

"In order to support local farmers, you need to know where they are, what they are selling, and how and when to buy from them. This is where the WSU Extension Small Acreage Program's Harvest Celebration Farm Tour comes in," said Amber Lefstead, Extension Small Acreage

Program coordinator. "In addition to supporting farmers, this tour provides farm and homesteading education for all ages and all skill levels."

Peculiar Ambitions Educational Homestead

Peculiar Ambitions Educational Homestead is one of the farms on the tour. It is owned by the Hanlin family, which consists of Rennie and Paul, and their two adult daughters, Eve and Ann.

For their first year on the tour, the Hanlins will host multiple workshops on introductory homesteading and farm-life subjects. Their goal is to connect others to the skills they need to raise their own food, grow cut flowers, and practice artistic farm-style skills such as pottery and fiber arts.

"It is not as hard as you may think to incorporate small-scale farming into your own backyard, even if you live a conventionally busy life," says Rennie of Peculiar Ambitions. "Everyone is busy. We all have work to do, housework, kids to take care of, adult responsibilities, but it is still possible to grow and raise food on a small scale and stay connected to homesteading skills."

Ann is an illustrator and a potter and will be selling her hand-crafted and on-site fired pottery on the day of the tour. Paul is also a potter and will demonstrate the firing of a homemade gas kiln.

In addition to pottery and kiln pyromania, Paul is the farm animal lover and will talk about raising happy and healthy pork, beef and chicken on a small scale for both meat and eggs.

The Hanlin's pottery friends will also be there, demonstrating the art of throwing pottery on wheels and selling pottery.

Eve is a Clark County Master Gardener, landscape designer, and dahlia farmer. She will be teaching a workshop on growing a dahlia cut flower garden, and leading an educational guided walk on foraging for wild edible plants. There will also be a self-guided educational tour of her greenhouse and vegetable garden. She will be selling cut flowers and plants.

Rennie is a knitter and fiber artist and will be teaching a youth-focused (but all ages welcome) finger knitting workshop, and will be selling her knitwear creations and yarn.

"We are so excited to be a part of the Harvest Celebration tour," says Rennie. "This event is incredibly important to the preservation of agricultural practices

THE FARMS

There will be a total of 10 farms on the tour, with dozens of farm activities to enjoy, similar to what the Hanlins Peculiar Ambitions Educational Homestead at Lucia Falls will be offering, as detailed in the main story.

- Botany Bay Farms
- Serendipity Alpaca Ranch
- Half Moon Farm
- Bi-Zi Farms
- Vacott Mountain Farm
- Coyote Ridge Ranch
- Compass Rose Apocas
- White Oak Apocas
- Peculiar Ambitions
- Greene Jungle Farm

in Clark County."

After the Harvest Celebration Farm Tour, the family will continue to offer workshops on various upcoming dates. Workshop topics will include gardening, art and homesteading practices. You can learn more and follow the Hanlins by visiting their website PeculiarAmbitions.com.

About the Hanlin family
Since moving to Clark County from the East Coast in 2007, the Hanlins settled on a 20-acre homestead near Lucia Falls in Battle Ground. Every member of the family has their own "peculiar ambition," inspiring the name of their business. Learn more about Eve's landscape design business at GardensByEve.com.



Photo courtesy of Eve Hanlin

Learn to grow dahlia cut flowers at Peculiar Ambitions Educational Homestead during this year's Harvest Celebration Farm Tour.



Photo courtesy of Eve Hanlin

Backyard farm animals are entertaining and surprisingly easy to raise. Visit farm animals, purchase farm products, and learn how to raise your own backyard livestock at this year's farm tour.

HARVEST CELEBRATION FARM TOUR DETAILS

To learn more about the Harvest Celebration Farm Tour, contact WSU Extension Small Acreage Program Coordinator Amber Lefstead at amber.lefstead@wsu.edu or 360-397-6060 ext. 5733. Find more info on the extension website at clark.wsu.edu.

Visit clark.wsu.edu for the timing of events, details on each farm's offerings, an interactive farm map, directions and participation rules.

Can't make it on Sept. 16? There is another way to connect with Clark County farmers. Check out WSU Extension's Online Farm Finder. Type in the product you are looking for, or your location, and the database will provide contact information for local farmers. You can find the farm finder at smallfarms.wsu.edu.

September Seed Sale Sept. 15 thru 23, 2017

For a complete list of seed sale prices, visit a shop today!

Item	Bin Size	Rkt. Price	Sale Price
Black Oil Seed Rape	20 lb.	\$17.99	\$13.99
	40 lb.	\$24.99	\$19.99
Yellow Sunflower	20 lb.	\$16.99	\$12.99
Chips	40 lb.	\$29.99	\$19.99
Potatoes Sunflower	20 lb.	\$19.99	\$14.99
Chips	50 lb.	\$29.99	\$24.99
Flax Sunflower	20 lb.	\$15.99	\$12.49
Chips	40 lb.	\$24.99	\$19.99
Hot Musts	20 lb.	\$19.99	\$14.99
Pacific	20 lb.	\$19.99	\$13.99
No Waste	40 lb.	\$19.99	\$14.99

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360-687-2069

All items cash & carry. Limited to stock on hand. (Season-Part 8 - 5 - SAT 9 - 5)

Appendix H: Model Property Tour

TOUR FLYERS

PRESS RELEASE

Other Publicity

Tour Flyers

Small Acreage Tour: Yacolt Mountain Farm

Tour an organic and ecologically-focused farm in Yacolt and learn tips to sustainably manage your farm

Yacolt Mountain Farm is a 25 acre organic and horse-powered farm that grows vegetables and raises draft horses, goats, and chickens. Tour participants will learn about:



- ◊ Maintaining healthy pastures
- ◊ Sustainable manure management
- ◊ Riparian buffers
- ◊ and MORE!

Yacolt Mountain Farm Tour

Where: 20217 NE Yacolt Mountain Rd,
Yacolt, WA 98675

Date: Saturday, July 15

Time: 10 AM to 12 PM

Cost: \$10 per person



Registration and details at:

www.YacoltFarmTour.brownpapertickets.com/

Jointly Sponsored by: WSU Clark County Extension and Clark County Clean Water Program.



WSU CLARK COUNTY EXTENSION
Small Acreage Program



Clean Water
Program

WSU Extension programs and employment are available to all without discrimination. Reasonable accommodations will be made for persons with disabilities and special needs who contact 202-397-6340 and if at least two weeks prior to an event.

Small Acreage Tour: Horse Homestead

Gain valuable ideas, share tips with other landowners, and see stewardship practices in action on this 3-acre homestead in Battle Ground.

Join us in touring a sustainable horse homestead. This small acreage property was recognized by WSU Clark County Extension for stewardship in 2016. Participants on this tour will learn about:

- ◊ Managing runoff to keep water clean
- ◊ Sustainable manure management
- ◊ Rotational grazing
- ◊ Riparian buffers



Horse Homestead Tour

Where: 20417 NE Bridlewood Rd
Battle Ground, WA 98604

Date: Saturday, July 22

Time: 10 AM to 12 PM

Cost: \$10 per person



Registration and details at:

www.horsemhomestead.brownpapertickets.com/

Jointly Sponsored by: WSU Clark County Extension and Clark County Clean Water Program.



WSU CLARK COUNTY EXTENSION
Small Acreage Program



Clean Water
Program

WSU Extension programs and employment are available to all without discrimination. Reasonable accommodations will be made for persons with disabilities and special needs who contact 202-397-6340 and if at least two weeks prior to an event.

White Oak Alpacas Farm Flyer

Small Acreage Tour: White Oak Alpacas

**Gain valuable ideas, share tips with other landowners,
and see stewardship practices in action.**

Join us in touring White Oak Alpacas ranch, a 30 acre, sustainable farm raising over 60 alpacas. Get stewardship ideas for your property by seeing practices in action. Participants on this tour will learn about:

- ◇ Rotational grazing
- ◇ Managing mud and erosion
- ◇ Riparian buffers
- ◇ Managing runoff to keep water clean



Model Property Tour

Where: 39908 NE 12th Ave
Woodland, WA 98674

Date: Saturday, December 2

Time: 11 AM to 1 PM

Cost: \$10 per person



Registration and details at:

<http://alpacas.brownpapertickets.com/>

Jointly Sponsored by: WSU Clark County Extension and Clark County Clean Water Program.



WSU CLARK COUNTY EXTENSION
Small Acreage Program



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Press Release

For Immediate Release

July 12, 2017

Contact: Amber Lefstead
WSU Clark County Extension
Tel: 360-397-6060 ext. 5729
E-mail: amber.lefstead@wsu.edu

Horse Property Highlights Stewardship

Vancouver, WA – WSU Clark County Extension's Small Acreage Program invites participants to tour a 3-acre property to see stewardship practices in action. In 2016, the Brumigan's small acreage was recognized by WSU Clark County Extension as a Model Property for demonstrating a commitment to stewardship by implementing practices to control runoff, reduce mud, manage manure, and maintain healthy pastures. Tour participants will have the opportunity to get tips on keeping horses, and gain ideas for improving management practices.



Amber Lefstead, Small Acreage Program Coordinator, says "Small acreage owners interested managing pastures for horses will benefit from seeing the best practices this property has implemented." Farm tours are guided peer to peer educational events open to everyone!

The Small Acreage Program, co-sponsored by WSU Clark County Extension and Clark County Public Works Clean Water Program, will lead the tour with the landowners.

Horse Property Tour

Saturday, July 22 – 10 AM to 12 PM
Battle Ground, WA

Registration is \$10 and tour size is limited, so pre-registration is required. Register and find more details at <http://horsehomestead.brownpapertickets.com> or call 360-397-6060 ext 5729.

WSU Extension programs are available to all without discrimination. Persons requiring special accommodations should call WSU Clark County Extension at (360) 397-6060 ext. 0 prior to the event.

###

Other Publicity

WSU Extension Small Acreage Program
Published by Eric Smallacre on July 5

Come tour Yacolt Mountain Farm and Nursery on Saturday, July 15 to learn about organic farming, sustainable manure management, maintaining healthy pastures and other practices that improve farms while keeping our streams clean. For more information and to register: <http://yacoltfarmtour.brownpapertickets.com/>

Small Acreage Tour: Yacolt Mountain Farm

Tour an organic and ecologically-focused farm in Yacolt and learn tips to sustainably manage your farm

Yacolt Mountain Farm is a 25 acre organic and horse-powered farm that grows vegetables and raises draft horses, goats, and chickens. Tour participants will learn about:

- Maintaining healthy pastures
- Sustainable manure management
- Riparian buffers
- and MORE!

Yacolt Mountain Farm Tour

Where: 20217 NE Yacolt Mountain Rd.
Yacolt, WA 98675

Date: Saturday, July 15

Time: 10 AM to 12 PM

Cost: \$10 per person

Registration and details at:
www.YacoltFarmTour.brownpapertickets.com/

Jointly Sponsored by: WSU Clark County Extension and Clark County Clean Water Program

Washington State University | WSU CLARK COUNTY EXTENSION | Small Acreage Program | Clark County Extension


WSU Extension programs and employees are available to all without discrimination. We provide accommodations for the needs of people with disabilities. For more information, call 509-335-8888 or visit wsu.edu/access.

551 people reached [Boost Post](#)

Like Comment Share

WSU Extension Small Acreage Program
Published by Eric Smallacre on July 14

Are you a small acreage owner? Do you want to add horses to your property? If so, come tour a horse homestead next Saturday, July 22 to learn tips and tools to manage your property well. Local homesteaders will tour their 3 acre property and show how they improve pasture health, practice rotational grazing, compost manure, maintain soil health and more!



Horse Homestead Tour

Get ideas for your property and see stewardship practices in action on a small family farm in Battle Ground. This homestead was recognized by WSU Clark County Extension as a model property for land stewardship in 2016.

HORSEHOMESTEAD.BROWNPAPERTICKETS.COM

444 people reached [Boost Post](#)

Like Comment Share

Gen Hanson, Kara Kadow and 4 others

3 Shares

Appendix I: Agricultural Entrepreneurship and Business Planning

FLYER

PRESS RELEASE

Other Publicity

PRESS RELEASE

FLYER

Ag Entrepreneurship & Business Planning

Learn small farm business planning skills from industry experts and local farmers. Finish a business plan to guide your farm enterprise!



Date: Thursdays, February 23 - April 27

Time: 6:00 to 9:00 PM

Cost: \$100 per farm or family
([pre-registration](#) required)

Where: Hazel Dell, WA

Learn:
Business Planning
Marketing Options
Market Analysis
Record Keeping
Budget Management
Business Structures
Legal Issues
Risk Management
Financing
& more



Questions?

Contact Amber Lefstead at amber.lefstead@wsu.edu
or 360-397-6060 x5729.

Partial scholarships available on a limited basis.



WSU CLARK COUNTY EXTENSION
Small Acreage Program

WSU Extension programs and employment are available to all without discrimination. Reasonable accommodations will be made for persons with disabilities and special needs who contact 360-397-6060 ext 0 at least two weeks prior to an event.

PRESS RELEASE

For Immediate Release

January 25, 2017

Contact: Amber Lefstead
WSU Clark County Extension
Tel: 360-397-6060 ext. 5729
Fax: 360-759-6524
E-mail: amber.lefstead@wsu.edu

Ag Entrepreneurship Course Offers Business Planning Support to Small Farms

Thursdays, February 23 through April 27, 2016

6:00 PM to 9:00 PM

Hazel Dell, WA

Vancouver, WA – Enrollment is now open for WSU’s 10-week course, Agricultural Entrepreneurship and Business Planning, designed to help entrepreneurs develop a workable business plan to guide the success and sustainability of their agricultural enterprise.

The course will teach beginning and existing farmers and value-added producers new skills in business planning and important aspects of operating a sustainable business. Special emphasis is placed on direct marketing, record keeping, and financial and legal issues unique to agricultural businesses. Instructors include farm marketing specialists, accountants, attorneys, agricultural professionals, and local farmers sharing their farming and marketing experience.

“This class provides a great opportunity for entrepreneurs to build a business plan that can help them become effective agricultural business owners”, says Amber Lefstead, Small Acreage Program Coordinator. “A business plan is like a roadmap that can guide farmers to be successful and resilient” says Doug Stienbarger, WSU Clark County Extension Director.

Registration is \$100 per farm or family and class size is limited to the first 30 participants (partial scholarships are available on a limited basis). This class series fills up quickly so contact Amber Lefstead at amber.lefstead@wsu.edu or visit the WSU Clark County Extension events calendar (ext100.wsu.edu/clark/calendar/) for registration details on this terrific learning opportunity. Deadline for registration is February 21.



CC Photo by Michael Rihani

WSU Extension programs and employment are available to all without discrimination. Persons requiring special accommodations should call WSU Extension Clark County at (360) 397-6060 ext. 0 two weeks prior to the event. ###

PAID AD

The Reflector, Feb 1, 2017

Business Planning for Small Farms

Feb 23 - April 27 (10 Weeks)
Thursdays 6:00 - 9:00 pm
Hazel Dell, WA



REGISTRATION IS \$100 PER FARM OR FAMILY
CLASS SIZE IS LIMITED AND FILLS QUICKLY
Partial scholarships available on a limited basis.

To register or for more information contact
Amber Lefstead at WSU Clark County Extension
amber.lefstead@wsu.edu

WSU Extension programs are available to all without discrimination.
Persons requiring special accommodations should call WSU Clark County Extension at
(360) 397-6060 ext. 0 prior at least two weeks prior to the event.

Topics Include:

- Business planning and development
- Marketing
- Record keeping and budgeting
- Diversifying small farm businesses
- Legal issues, regulations and insurance
- Market analysis and consumer trends

Small Acreage Program



**WASHINGTON STATE
UNIVERSITY
EXTENSION**

Other Publicity

Next Door, February 7, 2017



Ag Business Class - Registration Closing Soon!

Clean Water Outreach Specialist Eric Lambert from Clark County Public Health - 7m ago

Are you a small-scale farmer looking to grow your business skills? If so, check out WSU Clark County Extension's Ag Business class series! Classes run Thursdays, February 23 through April 27, 2016 from 6:00 PM to 9:00 PM at the 78th Street Heritage Farm in Vancouver, WA.



There's just one week left to enroll in WSU's 10-week course, Agricultural Entrepreneurship and Business Planning. This class series is designed to help entrepreneurs develop a workable business plan to guide the success and sustainability of their agricultural enterprise.

The course will teach beginning and existing farmers and value-added producers new skills in business planning and important aspects of operating a sustainable business. Special emphasis is placed on direct marketing, record keeping, and financial and legal issues unique to agricultural businesses. Instructors include farm marketing specialists, accountants, attorneys, agricultural professionals, and local farmers sharing their farming and marketing experience.

Registration is \$100 per farm or family and class size is limited to the first 30 participants (partial scholarships are available on a limited basis). This class series fills up quickly so register soon! Deadline for registration is February 21.

For more information, contact Amber Lefstead at amber.lefstead@wsu.edu or 360-397-6060 ext. 5729. Visit WSU Clark County Extension Small Acreage Program for registration details on this terrific learning opportunity:
<http://extension.wsu.edu/clark/naturalre...>

Shared with Clark County Public Health in General

Appendix J: Starting a Beehive

Flyer

Press Release

Flyer

Starting a Beehive Workshop

This workshop will teach what you need to know to create and care for your own honey bee hive

Whether you are a small farmer wanting to increase your crop yields or just want to help support local honey bee populations, this workshop will teach you what you need to know to create and care for a hive of honey bees.

- ◇ Getting a hive started
- ◇ Hive maintenance tips
- ◇ Why support local honey bees?



Starting a Beehive Workshop

Where: CASEE Center (11104 NE 149th St, Brush Prairie)

Date: Tuesday, November 14

Time: 6 to 8 PM

Cost: \$10 per person



Registration and details at:

<http://WSUbeekeeping.bpt.me>

WASHINGTON STATE
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WSU CLARK COUNTY EXTENSION
Small Acreage Program

WSU Extension programs and employment are available to all without discrimination. Reasonable accommodations will be made for persons with disabilities and special needs who contact 360-397-6060 ext 5733 at least two weeks prior to an event.

Press Release

For Immediate Release

October 17, 2017

Contact: Amber Lefstead
WSU Extension Clark County
Tel: 360-397-6060 ext. 5729
Fax: 360-759-6524
E-mail: amber.lefstead@wsu.edu

Learn How to Start Your Own Hive at Beekeeping Class

Vancouver, WA – Join WSU Extension’s Small Acreage Program for a workshop that teaches participants how to set up their own honey bee hive. Honey bees are amazing pollinators. As they gather nectar and pollen for their survival, they also pollinate important crops such as apples, sweet cherries, blueberries, melons, almonds and broccoli. Some crops, such as blueberries, cherries and almonds, rely nearly exclusively on the honey bee for pollination. Whether you are a small farmer looking to increase your crop yields or an urban gardener hoping to support honey bee populations in your community, this workshop will teach you all you need to know to create and care for your hive. Learn valuable advice from Charles Bennett, past president of the Northwest Queen Bee Rearing Club. Bennett will discuss how to support local honey bees, how to get started as a beekeeper, and seasonal maintenance tips.

The Small Acreage Program, co-sponsored by Washington State University Clark County Extension and Clark County Public Works Clean Water Program, will provide information, handouts, and answer landowners’ questions at the workshop.

“Beekeeping”

Tuesday, November 14, 2017

6:00 to 8:00 PM

Brush Prairie

Registration is \$10 per person and class size is limited. To register and find more details visit www.beekeeping.brownpapertickets.com/ or call 360-397-6060 ext. 5729 or email amber.lefstead@wsu.edu

WSU Extension programs and employment are available to all without discrimination. Persons requiring special accommodations should call WSU Clark County Extension at (360) 397-6060 ext. 0 at least two weeks prior to the event. ###

Appendix K: Women in Agriculture Conference

Flyer

**MAKE YOUR
MARK ON
YOUR FARM
AND IN YOUR
COMMUNITY!**

**BE THE NEXT
LEADER!**



This conference is for women farmers and anyone who works with women farmers. If you have been farming for years, are a new & aspiring farmer, a banker, lender or in the agricultural industry, this conference is for you!

Enjoy a day of inspiration, learning and networking with other women farmers. Our one-day gathering takes place simultaneously throughout Washington, Idaho, Oregon, Montana and Alaska!



Our 2017 speakers: **ALEXIS TAYLOR** (left), Oregon Department of Agriculture Director, and **ANNE SCHWARTZ** (right), Blue Heron Farm owner.

Alexis and Anne will challenge participants to strengthen their leadership skills, become leaders in their communities, become more involved with long-term farmers and guide and mentor new farmers.

Each event location will also have a **panel of local women farmers** who will talk about their leadership roles, challenges they have faced and how they have used a mentor to develop their skills.



40 Locations to Choose From!

Alaska:

- Delta Junction
- Fairbanks
- Palmer

Idaho:

- Bonners Ferry
- Caldwell
- Coeur d'Alene
- McCall
- Salmon
- Sandpoint
- Twin Falls

Montana:

- Broadus
- Great Falls
- Missoula

Oregon:

- La Grande
- Redmond
- Roseburg
- Salem
- The Dalles

Washington:

- Bremerton
- Chehalis
- Colville
- Coupeville
- Des Moines
- Elma
- Everett
- Goldendale

Washington:

- Mount Vernon
- Nespelam
- Olympia
- Pasco
- Port Angeles
- Pullman
- Raymond
- Republic
- Ritzville
- Spokane
- Vancouver
- Walla Walla
- Wenatchee
- Yakima

Conference start times: 7:00 a.m. - Alaska (AST); 8:00 a.m. - Washington, Oregon, Idaho (PST); and 9:00 a.m. - Idaho and Montana (MST).

Registration fees: \$25 if you register between October 5 and November 5; \$30 if you register after November 5. Your registration fee includes a light breakfast, lunch and all the conference materials!

Limited scholarships are available. Visit our website for an application.

For more information or to register, go to our website:

WomenInAg.wsu.edu

Empowering women in agriculture to achieve goals and manage risk.

WSU Extension programs and employment are available to all without discrimination.