NATIONAL AGROFORESTRY SURVEY 2022

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United States
Department of
Agriculture



NATIONAL AGRICULTURAL STATISTICS SERVICE

USDA/NASS

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Please make corrections to name, address and ZIP Code, if necessary.

Screener

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1. In the past 12 months, did this operation: a. Raise or sell any livestock (possible examples include cattle, hogs, sheep, goats, equine, poultry, bees, etc.)? 1 Yes 3 No b. Own and/or operate cropland, pastureland, woodland, rangeland, or other land with agricultural or forestry activities? 1 Yes 3 No c. Receive any Federal or state agricultural payments and/or participated in a Federal or state agricultural program? 1 Yes 3 No d. Did you answer Yes to any of the questions above? 1 Yes - Continue 3 No - Go to Section 6, page 22

Section 1 - Windbreaks, Shelterbelts and Hedgerows

Windbreaks, Shelterbelts and Hedgerows are rows of trees and shrubs that are used to create a more favorable environment for soils, crops, livestock, wildlife, and people. In some cases, they are designed to slow wind, while other times they are designed for visual screening, snow management, odor control, shade for livestock/buildings/people, enhancing pollination, field/property borders, etc.

Do	es this operation have any land in windbreaks, shelterbel	ts or hedgerows?							
	1000 1 Yes - Continue 3 No - Go to Se	ection 2, page 6							
1.	Does this operation utilize any of the following types of wir	ndbreak, shelterbelt and/or he	edgerow?	Check all	that apply				
	¹⁰⁰¹ Farmstead - for use around buildings (sha	de, energy savings, etc.)							
	1002 Field - for use in protecting crops (field, or	chards, etc.)							
	1003 Livestock - for use in protecting livestock and/or odor control								
	1004 Boundary - primarily used for enclosing or	separating fields							
	1005 Living snow fence - specifically designed	for snow management							
	1006 Hedgerow - primarily used for natural reso	ource conservation purposes							
	1007 Other - Specify: 1008								
2.	Were any of the following activities used to establish wind	breaks, shelterbelts, and/or h	edgerows	on this ope	eration?				
	Establishment Activities		YES	NO	DON'T KNOW				
	Hand planted tree seedlings	1009	1	3	2				
	Mechanically planted tree seedlings	1010	1	3	2				
	Used herbicides for weed control/site preparation prior to	planting 1011	1	3	2				
	Used cultivation for weed control/site preparation prior to	planting ¹⁰¹²	1	3	2				
	Used barrier weed control (mulch, plastic, etc.) to establis	h trees 1013	1	3	2				
	Irrigated trees during the 1-3 year establishment period	1014	1	3	2				
	Controlled weeds after planting trees during the 1-3 year	establishment period 1015	1	3	2				
	Installed fencing and/or tree tubes to protect trees from w	ildlife/livestock 1016	1	3	2				
	Replanted seedlings to fill gaps	1017	1	3	2				
	Established windbreak without planting by allowing trees	to grow naturally ¹⁰¹⁸	1	3	2				
	Other establishment activities - Specify: 1019								
3.	3. When were windbreaks, shelterbelts, and/or hedgerows established on this operation? Check all that apply								
	1029 Less than 5 years ago	1132 15 years or more							
	1130 5 years - less than 10 years ago	1133 Don't Know							
	1131 10 years - less than 15 years ago								

4.	Have any of the following activities occurred, or will occur, to manage/maintain the windbreaks, shelterbelts, and/or
	hedgerows on this operation?

Management/Maintenance Activities				YES		DON'T KNOW	
Cultivation for weed control (disking, plowing, mowing, etc.)	1021	1			3	2	
Herbicide for weed control	1022	1			3	2	
Barrier weed control (mulching/fabric)	1023	1			3	2	
Flash or short duration grazing within windbreaks	1024	1			3	2	
Pruning of tree branches and stems	1025	1			3	2	
Replanting trees/windbreak vegetation	1026	1			3	2	
Removal of living or dead trees (thinning)	1027	1			3	2	
Irrigation of trees	1028	1			3	2	
Fertilization and/or soil amendments for the trees	1029	1			3	2	
Root pruning	1030	1			3	2	
Fencing or tree tubes to protect trees from wildlife/livestock	1031	1			3	2	
Other management activities - Specify: 1032							

	►s	sold this before	▶plan to sell this in the future	►us	se this for	person	al or on	-farm use	
						Che	ck all tha	at apply	
			Sold this before		sell this future	Use this for persona or on-farm use			
	a.	Firewood			1033	1034		1035	
	b.	Trees for timber produ	cts (lumber, boards, veneer, utility poles, et	c.)	1036	1037		1038	
	c.	Trees for non-timber p	roducts (pulp, fence posts, woodchips, etc.)	1039	1040		1041	
	d.	Forages/hay/fodder for	r livestock		1042	1043		1044	
	e.	Edibles (raspberries, w	valnuts, maple syrup, etc.)						
		Specify products: 1045_			1046	1047		1048	
	f.	Medicinal plants and h	erbs (American ginseng, goldenseal, etc.)						
		Specify products: 1049_			1050	1051		1052	
	g.	Decorative plants and/	or materials for landscaping						
		Specify products: 1053_			1054	1055		1056	
	h.	Other crops/products -	Specify: ¹⁰⁵⁷		1058	1059		1060	
6.			the acreage of trees and shrubs in windbre on increase, decrease or stay the same?(and/or			
	1	061 ₁ Increase - S	Specify reason(s): 1062						
		Decrease -	Specify reason(s): 1063						

Stay the same Don't Know 7. Do windbreaks, shelterbelts, and/or hedgerows provide any of the following benefits to this operation?

Number	7				NO	DON'T KNOW	
1	Improved erosion control	1064	1		3	2	
2		1065	1		3	2	
3	Habitat for pollinators and other beneficial insects		1		3	2	
4	Wildlife habitat	1067	1		3	2	
5	Improved water quality	1068	1		3	2	
6		1069	1		3	2	
7	Chemical drift mitigation (pesticide, herbicide, fertilizer)	1070	1		3	2	
8	Dust mitigation	1071	1		3	2	
9	Increased carbon storage in soils, trees, and vegetation	1072	1		3	2	
	Economic Benefits						
10	Increased crop production/yield	1073	1		3	2	
11		1074	1		3	2	
12	Income from windbreak trees/shrubs (firewood, timber, nuts, etc.)	1075	1		3	2	
13	Crops/products for on-farm or personal use from windbreak trees/shrubs (firewood, timber, nuts, etc.)	1076	1		3	2	
14		1077	1		3	2	
15		1078	1		3	2	
16		1079	1		3	2	
17	Protection of farm buildings, home, and other structures	1080	1		3	2	
18	Income diversification from multiple crops/products	1081	1		3	2	
19	Farmstead energy conservation	1082	1		3	2	
20	Increased crop water use efficiency and/or irrigation efficiency	1083	1		3	2	
21	Revenue from hunting leases	1084	1		3	2	
22	Reduced spread of tree diseases (canker, citrus greening, etc.)	1085	1		3	2	
23	Improvement of marginal or unfarmable land	1086	1		3	2	
24	Increased land value	1087	1	1	3	2	
25		1088	1		3	2	
26	Improved resilience to weather extremes (drought, flood, etc.)	1089	1		3	2	
	Other Benefits						
27	Improved working or living environment from less intense wind	1090	1		3	2	
28	Aesthetics/scenic beauty	1091	1		3	2	
29		1092	1		3	2	
30		1093	1		3	2	
31		1094	1		3	2	
32		1095	1]	3	2	
33	Noise reduction	1096	1	1	3	2	
34	Other benefit(s) - Specify: 1097			•		, —	

8. Of the windbreak, shelterbelt, and/or hedgerow benefits listed above (1 - 34), which 3 are most important to this operation? Enter the corresponding number from the first column in the table above.

Enter Number							
1098	1099	1100					

9.	Have any of the following been challenges on this operation when establishing or managing windbreaks,	shelterbelts,
	and/or hedgerows?	

ack of information about establishment			
	1	3	2
Difficulty establishing trees/shrubs	1	3	2
High startup costs	1	3	2
ack of information on management and maintenance 1104	1	3	2
Difficulty regrowing trees within an established windbreak	1	3	2
Expense of maintenance 1106	1	3	2
ack of information on recommended tree/shrub species 1107	1	3	2
ack of knowledge among technical assistance providers 1108	1	3	2
_ack of examples or demonstration sites 1109	1	3	2
ack of financial assistance	1	3	2
ack of markets for products from windbreak 1111	1	3	2
oss of cropland	1	3	2
Harbors harmful crop pests (wildlife, insects, weeds, etc.)	1	3	2
Conflict with farm equipment, practices, or layout	1	3	2
Trees and crops compete for space, light, water, and nutrients 1115	1	3	2
ivestock damage to trees	1	3	2
Wildlife damage to trees	1	3	2
Free/shrub pests and diseases	1	3	2
Herbicide damaging trees/shrubs	1	3	2
Snow drift issues	1	3	2
Adds labor and complexity to management 1121	1	3	2
Other challenge(s) - Specify: 1122			
llenges listed above (1 - 22), which 3 are most significant to this		Enter Number	
Enter the corresponding number from the first column in the table		1124	1125
	Difficulty regrowing trees within an established windbreak	Difficulty regrowing trees within an established windbreak 1105 1	Difficulty regrowing trees within an established windbreak

Section 2 - Silvopasture

Grazing livestock on a site with trees is considered **silvopasture** if all three components of the system (livestock, trees, and forage) are deliberately integrated and managed. Some examples of silvopasture include:

No - Go to Section 3, page 11

- ▶ woodland, forest, or forest edge that is managed to produce forage, livestock and trees simultaneously
- ▶ grazing land where trees were added to pasture

Does this operation have any land in silvopasture?

▶orchards where livestock are integrated

Yes - Continue

▶ grazing natural savannas

1.

2.

How many acres of land does this operation have in silvopasture? INCLUDE: land owned, rented, and leased from others	200	opasture Acres		
Were any of the following activities used to establish silvopasture(s) on this operations.				
Establishment Activities		YES	NO	DON'T KNOW
Converted a pasture or field to silvopasture by planting trees	2002	1	3	2
Converted an existing tree plantation to silvopasture by removing some trees and incorporating livestock and forage	2003	1	3	2
Converted an existing forest, woodlot, or forested edge to silvopasture by removing some trees and incorporating livestock and forage	2004	1	3	2
Converted from a natural savanna to silvopasture by adding livestock	2005	1	3	2
Converted a former field or pasture to silvopasture over time by allowing trees to grow naturally	2006	1	3	2
Converted an orchard to silvopasture by incorporating livestock	2007	1	3	2
Other conversion strategy - Specify: 2008				
Site Preparation and Infrastructure Activities				
Removed stumps (grinding, grubbing, shearing, etc.)	2009	1	3	2
Cleared debris (slash, downed trees, rocks, etc.)	2010	1	3	2
Used cultivation for site preparation (disking, scarification, etc.)	2011	1	3	2
Used herbicides prior to or during establishment	2012	1	3	2
Used livestock to assist with establishment	2013	1	3	2
Used prescribed fire prior to establishment	2014	1	3	2
Used fertilizer and/or soil amendments to assist with establishment	2015	1	3	2
Seeded forages - Specify species: 2016 2	2017	1	3	2
Allowed natural regeneration of forages	2018	1	3	2
Used fencing and/or tree tubes to protect trees from wildlife/livestock	2019	1	3	2
Installed or improved livestock watering system	2020	1	3	2
Installed fence infrastructure (boundary fencing, cross fencing, etc.)	2021	1	3	2
Other establishment activities - Specify: 2022				

Please check the box for the type of livestock utilizing the silvopasture(s) on this operation.	Also, p	lease specify the
average stocking rate of those livestock as animals/acre OR animal units/acre.		

Type of Livestock (Mark all that apply)	Animals/Acre		AnimalUnits/Acre
²⁰²³ Cattle	2024	OR	2025
²⁰²⁶ Chickens	2027	OR	2028
²⁰²⁹ Sheep	2030	OR	2031
²⁰³² Goats	2033	OR	2034
²⁰³⁵ Hogs and Pigs	2036	OR	2037
2038 Horses	2039	OR	2040
2041 Other - Specify: 2042	2043	OR	2044

	²⁰³⁵ Hogs and Pigs	2036		OR	2037		
	²⁰³⁸ Horses		2039		OR	2040	
	²⁰⁴¹ Other - Specify: 2042		2043		OR	2044	
4.	Of the crops/products originating from silvopa			-	·		
	► sold this before ► plan to sell	this in the future	•	use this for	personal o	r on-larm t I that apply	use
Cro	ops, Products and Resources from Silvopa	sture		Sold this before	Plan to sell t	this Use thi	s for persona n-farm use
	a. Firewood			2045	2046	2047	
	b. Trees for timber products (lumber, boards	, veneer, utility pol	es, etc.)	2048	2049	2050	
	c. Trees for non-timber products (pulp, fence	e posts, woodchips	s, etc.)	2051	2052	2053	
	d. Forages/hay/fodder for livestock			2054	2055	2056	
	e. Livestock products (milk, meat, stockers,	wool, etc.)					
	Specify products: ²⁰⁵⁷			2058	2059	2060	
	f. Edibles (walnuts, maple syrup, apples, etc	c.)					
	Specify products: ²⁰⁶¹			2062	2063	2064	
	g. Medicinal plants and herbs (American gin	seng, goldenseal,	etc.)				
	Specify products: 2065			2066	2067	2068	
	h. Materials for landscaping and/or decorative						
	Specify products: ²⁰⁶⁹			2070	2071	2072	
	i. Other crops/products - Specify: ²⁰⁷³			2074	2075	2076	
5.	When were silvopasture(s) established on this	s operation? Chec	ck all that ap	ply			
	2157 Less than 5 years ago	2159 10 ye	ars - less tha	an 15 years	s ago 210	₆₁ Dor	n't Know
	₂₁₅₈ 5 years - less than 10 years ago	₂₁₆₀ 15 ye	ars or more				

2157 Less than 5 years ago	2159 10 years - less than 15 years ago	2161 Don't Know
₂₁₅₈ 5 years - less than 10 years ago	2160 15 years or more	

6. Do the silvopasture(s) provide any of the following benefits to this operation?

Number	Conservation Benefits	YES	NO	DON'T KNOW
1	Invasive/noxious plant control	1	3	2
2	Habitat for pollinators and other beneficial insects	1	3	2
3	Wildlife habitat 2080	1	3	2
4	Improved soil health	1	3	2
5	Improved soil erosion control	1	3	2
6	Improved nutrient management. 2083	1	3	2
7	Increased carbon storage in soils, trees and vegetation	1	3	2
8	Improved water quality	1	3	2
	Economic Benefits			
9	Expansion of pasture acreage	1	3	2
10	Income from sale of products (meat, eggs, stockers, timber, etc.) 2087	1	3	2
11	Crops/products for on-farm or personal use	1	3	2
12	Improved animal welfare and health	1	3	2
13	Increased livestock production. 2090	1	3	2
14	Improved forage quality	1	3	2
15	Increased forage availability throughout the year 2092	1	3	2
16	Increased forage production on a per acre basis	1	3	2
17	Reduction in feed purchases	1	3	2
18	Improvement of marginal, unproductive or unfarmable land 2095	1	3	2
19	Income diversification from multiple crops/products	1	3	2
20	Increased land value	1	3	2
21	Revenue from conservation payments	1	3	2
22	Revenue from hunting leases. 2099	1	3	2
23	Timber stand improvement. 2100	1	3	2
24	Increased water use efficiency	1	3	2
	Other Benefits			
25	Wildfire fuel reduction	1	3	2
26	Aesthetics/scenic beauty	1	3	2
27	Hunting	1	3	2
28	Recreation (other than hunting)	1	3	2
29	Odor reduction	1	3	2
30	Improved resilience to weather extremes (drought, flood, etc.)	1	3	2
31	Other benefit(s) - Specify: 2108			

7.	Of the silvopasture benefits listed above (1 - 31), which 3 are most important		Enter Number	
	to this operation? Enter the corresponding number from the first column in the table above.	2109	2110	2111

0	Have any of the f	following activities	accurred or w	ill coour to	managa/maintain t	tha ailyanaatura	on this approfice?
ο.	nave any or the r	Ollowing activities	occurred, or w	illi occur. to	manaue/mamani	ille silvopasiule	on this operation?

Management/Maintenance Activities		YES	NO	DON'T KNOW
Cultivation for weed control (mowing, hand pulling, etc.)	112	1	3	2
Herbicide for weed control 21	113	1	3	2
Prescribed fire 21	114	1	3	2
Irrigation21	115	1	3	2
Fertilization and/or soil amendments	116	1	3	2
Replanting trees 21	117	1	3	2
Replanting forages 21	118	1	3	2
Pruning of tree branches and stems	119	1	3	2
Removal of trees (thinning)21	120	1	3	2
	121	1	3	2
Fencing or tree tubes to protect trees from wildlife/livestock	122	1	3	2
Rotational grazing	123	1	3	2
Utilize pastures without trees as part of grazing management	124	1	3	2
Provide supplements to livestock (minerals, hay, grain, etc.) when in silvopasture 21	125	1	3	2
Other management activities - Specify: ²¹²⁶				

9.	Please list up to 3 tree species growing in your silvopastures that are the most useful for your desired
	goals. List trees by species name (example: loblolly pine, red oak, etc.). If unsure of species name, list
	trees by common name (example: pine, oak, etc.).

2127	Specify species:	
2128	Specify species:	
2129	Specify species:	
	-	

10. Have an	v of the following	been challenges or	n this operation	when establishing	or managing th	he silvopasture(s)?

Number	Potential Challenges	YES	NO	DON'T KNOV
1	Lack of information about establishment	130 1	3	2
2	Difficulty establishing trees, crops, or forage	131 1	3	2
3	High startup costs	132 1	3	2
4	Lack of information on management and maintenance	133 1	3	2
5	Difficulty regrowing trees within an established silvopasture	134 1	3	2
6	Expense of maintenance	135	3	2
7	Lack of information on recommended tree, crop, or livestock species ²	136	3	2
8	Lack of knowledge among technical assistance providers	137 1	3	2
9	Lack of examples or demonstration sites	138 1	3	2
10	Lack of financial assistance	139 1	3	2
11	Lack of markets for products from silvopasture	140 1	3	2
12	Adds labor and complexity to management ²	141 1	3	2
13	Conflict with farm equipment, practices, or layout	142 1	3	2
14	Trees, forage and livestock competing for space, light, etc	143 1	3	2
15	Livestock damage to trees	144 1	3	2
16	Wildlife damage to trees	145 1	3	2
17	Tree/shrub pests and diseases	146	3	2
18	Windthrow (trees falling over after thinning)	147 1	3	2
19	Livestock poisoning from foraging on toxic plants	148 1	3	2
20	Soil compaction from livestock	149 1	3	2
21	Other challenge - Specify:			
	nallenges listed above (1 - 21), which 3 are most significant to this		Enter Number	
pperatior above	n? Enter the corresponding number from the first column in the table	151	2152	2153
	xt five years, will the acreage in silvopasture for this operation increase, Check one	decrease of	r stay the sam	e?
2154	Increase - Specify reason(s): 2155			
2	Decrease - Specify reason(s): 2156			
3	Stay the same			
1	Don't Know			

Section 3 - Riparian Forest Buffers	
A riparian forest buffer is an area adjacent to a stream, river, lake, or wetland that contains a combination of trees and shrubs and is often used for erosion control, bank stabilization, and nutrient runoff control. They are also called: stream management zones, vegetated buffer strips, woody riparian buffers, and riparian forest corridors.	
Does this operation have any land in riparian forest buffers?	
³⁰⁰⁰ ₁ Yes - Continue ₃ No - Go to Section 4, page 15	
1. Please estimate the total land area in riparian forest buffer(s) for this operation.	
MALUE FOR A SECOND SECO	

	Yes - Continue 3 No - Go to Section 4, page 15			
1.	Please estimate the total land area in riparian forest buffer(s) for this operation.			
	INCLUDE: Estimate as acres OR length and width ▶ land owned ▶ rented			
		CRES		
	a. Riparian forest buffer			
	OR FEET			MILES
	b. Average width of buffers			3
	5. Average water of barrers	174 TIME		<u> </u>
2.	Were any of the following activities used to establish riparian forest buffers on this op	eration?		
	Establishment Activities	YES	NO	DON'T KNOW
	Allowed trees and vegetation to grow naturally	1	3	2
	Planted buffer trees and vegetation	1	3	2
	Used herbicides for weed control/site preparation prior to planting trees 3006	1	3	2
	Used cultivation for weed control/site preparation prior to planting trees 3007	1	3	2
	Used barrier weed control (mulch, plastic, etc.) to establish trees	1	3	2
	Irrigated buffer vegetation during the 1-3 year establishment period	1	3	2
	Controlled weeds after planting trees during the 1-3 year establishment period . 3010	1	3	2
	Installed fencing and/or tree tubes to protect trees/shrubs from wildlife/livestock	1	3	2
	Replanted buffer trees or vegetation to fill gaps	1	3	2
	Other establishment activities - Specify: 3013			
3.	When were riparian forest buffers established on this operation? Check all that apply			
	3114 Less than 5 years ago 3116 10 years - less than 15 year	ırs ago	3118 Do	n't Know
	3115 5 years - less than 10 years ago 3117 15 years or more			
4.	In the next five years, will the acreage in riparian forest buffer(s) for this operation indecrease or stay the same? Check one	crease,		
	3015 ₁ Increase - Specify reason(s): 3016			
	Decrease - Specify reason(s): 3017			
	3 Stay the same			
	4 Don't Know			

5.	Have any of the following activities occurred, or will occur, to manage/maintain the riparian forest buffers on this
	operation?

Management/Maintenance Activities		YES	NO	DON'T KNOW
Cultivation for weed control (disking, plowing, mowing, etc.)	3018	1	3	2
Herbicide for weed control	3019	1	3	2
Barrier weed control (mulching/fabric)	3020	1	3	2
Flash or short duration grazing within buffer	3021	1	3	2
Pruning of tree branches and stems	3022	1	3	2
Root pruning	3023	1	3	2
Removal of trees/buffer vegetation (thinning)	3024	1	3	2
Removal of trees/debris that have fallen into waterways	3025	1	3	2
Replanting trees/vegetation	3026	1	3	2
Irrigation of trees/shrubs	3027	1	3	2
Fertilization and/or soil amendments for the trees/shrubs	3028	1	3	2
Fencing or tree tubes to protect trees/shrubs from wildlife/livestock	3029	1	3	2
Other management activities - Specify: 3030				

6.	Of the crops/products originating from riparian forest buffer trees and shrubs listed below,
	please specify whether this operation has:

•	ടവ	n	this	bet	ore

▶plan to sell this in the future

▶use this for personal or on-farm use

Check all that apply

			CiteC	k all tilat	арріу	
Crops,	Products and Resources from Buffer Trees and Shrubs	Sold befo	 Plan to in the			or personal arm use
a.	Firewood	3031	3032		3033	
b.	Trees for timber products (lumber, boards, veneer, utility poles, etc.)	3034	3035		3036	
C.	Trees for non-timber products (pulp, fence posts, woodchips, etc.)	3037	3038		3039	
d.	Forages/hay/fodder for livestock	3040	3041		3042	
e.	Edibles (raspberries, walnuts, maple syrup, etc.)					
	Specify products: 3043	3044	3045		3046	
f.	Medicinal plants and herbs (American ginseng, goldenseal, etc.)					
	Specify products: 3047	3048	3049		3050	
g.	Decorative plants and/or materials for landscaping					
	Specify products: 3051	3052	3053		3054	
h.	Other crops/products: Specify: ³⁰⁵⁵	3056	3057		3058	

7. Do riparian forest buffers provide any of the following benefits to this operation?

Number	Conservation Benefits	YES	NO	DON'T KNOW
1	Improved erosion control	1	3	2
2	Bank stabilization	1	3	2
3	Improved soil health	1	3	2
4	Improved water quality	1	3	2
5	Improved nutrient management	1	3	2
6	Chemical drift mitigation (pesticide, herbicide, fertilizer)	1	3	2
7	Shade for aquatic environment	1	3	2
8	Increased carbon storage in soils, trees, and vegetation	1	3	2
9	Habitat for pollinators and other beneficial insects	1	3	2
10	Wildlife habitat (both land and water)	1	3	2
	Economic Benefits			
11	Income from buffer trees/shrubs (firewood, timber, edibles, etc.) 3069	1	3	2
12	Crops/products for on-farm or personal use from buffer trees/shrubs 3070 (firewood, timber, nuts, etc.)	1	3	2
13	Income diversification from multiple crops/products	1	3	2
14	Improvement of marginal, unproductive or unfarmable land	1	3	2
15	Crop protection	1	3	2
16	Increased land value	1	3	2
17	Revenue from conservation payments	1	3	2
18	Revenue from hunting leases	1	3	2
19	Traps debris from being deposited on crop fields during flooding 3077	1	3	2
	Other Benefits			
20	Hunting	1	3	2
21	Recreation (other than hunting)	1	3	2
22	Improved resilience to weather extremes (drought, flood, etc.)	1	3	2
23	Scenic beauty and aesthetics	1	3	2
24	Other benefit(s) - Specify: 3082		-	

	·						
i	Of the riparian forest buffer benefits listed above (1 - 24), which 3 are most important to this operation? Enter the corresponding number from the first column in the table above.	Enter Number					
		3083	3084	3085			

9. Have any of the following been challenges on this operation when establishing or managing the riparian forest buffers?

Number	Potential Challenges	YES	NO	DON'T KNOW					
1	Lack of information about establishment	1	3	2					
2	Difficulty establishing trees/shrubs	1	3	2					
3	High startup costs	1	3	2					
4	Lack of information on management and maintenance	1	3	2					
5	Difficulty regrowing trees within an established buffer	1	3	2					
6	Expense of maintenance	1	3	2					
7	Lack of information on recommended tree/shrub species	1	3	2					
8	Lack of buffer knowledge among technical assistance providers 3093	1	3	2					
9	Lack of examples or demonstration sites	1	3	2					
10	Lack of financial assistance	1	3	2					
11	Lack of markets for products from buffers	1	3	2					
12	Loss of cropland	1	3	2					
13	Adds labor and complexity to management	1	3	2					
14	Conflict with farm equipment, practices, or layout	1	3	2					
15	Trees and crops compete for space, light, water, and nutrients 3100	1	3	2					
16	Trees falling into waterways	1	3	2					
17	Harbors harmful crop pests (wildlife, insects, weeds, etc.)	1	3	2					
18	Damage to buffer trees/vegetation from flooding	1	3	2					
19	Tree/shrub pests and diseases	1	3	2					
20	Herbicide drift damaging trees/shrubs	1	3	2					
21	Issues with subsurface drainage tiles	1	3	2					
22	Snow drift issues 3107	1	3	2					
23	Damage to buffer trees/vegetation from livestock	1	3	2					
24	Damage to buffer trees/vegetation from wildlife	1	3	2					
25 Other challenge(s) - Specify: 3110									

25	Other challenge(s) - Specify:			
	allenges listed above (1 - 25), which 3 are most significant to this		Enter Number	
peration able abo	? Enter the corresponding number from the first column in the ve	3111	3112	3113

Section 4 - Alley Cropping and Intercropping with Trees and Crops

most important to this operation? Enter the corresponding number from the

first column in the table above.

Alley cropping is the cultivation of crops or forages between rows of trees/shrubs. Orchards and tree plantations are considered as alley cropping if crops or forages are grown/harvested from between the rows of trees/shrubs. Intercropping is the deliberate cultivation of trees with crops or forages on the same field but does not need to be in defined rows and alleys.

ow ma	any acres of land does this operation have in alley cropping/intercropping?			(Alley and Inter- cropping Acres
trees.	DE: land owned, rented, and leased from others. Report acreage as the concern, crops, idle or fallow.	ombin	ed total d	of land 400	01
,	,				
oes all	ley cropping/intercropping provide any of the following benefits to this oper	ation?)		
lumber	Conservation Benefits		YES	NO	DON'T KNO
1	Habitat for pollinators and other beneficial insects	4002	1	3	2
2	Wildlife habitat	4003	1	3	2
3	Improved soil health	4004	1	3	2
4	Improved soil erosion control	4005	1	3	2
5	Improved nutrient management	4006	1	3	2
6	Increased carbon storage in soils, trees, and vegetation	4007	1	3	2
7	Chemical drift mitigation (pesticide, herbicide, fertilizer)	4008	1	3	2
8		4009	1	3	2
	Economic Benefits		· <u> </u>	, L	
9	Income from sale of products (crops, timber, etc.)	4010	1	3	2
10	Crops/products for on-farm or personal use	4011	1	3	2
11	Increased production/yield of crops, forage, and/or tree products	4012	1	3	2
12	Improved quality of crops, forage, and/or tree products	4013	1	3	2
13	Increased crop water use efficiency and/or irrigation efficiency	4014	1	3	2
14	Increased land value	4015	1	3	2
15	Revenue from conservation payments	4016	1	3	2
16		4017	1	3	2
17	Improved crop protection from insects and pests	4018	1	3	2
18	Improvement of marginal, unproductive or unfarmable land	4019	1	3	2
19	Income diversification from multiple crops/products	4020	1	3	2
	Other Benefits		· <u></u>	, L	
20	Aesthetics/scenic beauty	4021	1	3	2
21	Hunting	4022	1	3	2
22		4023	1	3	2
23	Improved resilience to weather extremes (drought, flood, etc.)	4024	1	3	2
24	4025 Other benefit(s) - Specify:				<u></u>

4026

4027

4028

1	4.		the next five years, will the acreage in a rease, decrease or stay the same? Ch		intercropping for	this	operation				
Sold this before P plan to sell this in the future P use this for personal or on-farm use Check all that apply Crops, Products and Resources from Alley Cropping/Intercropping a. Firewood	4	029	1 Increase - Specify reason(s):	4030							
5. Of the crops/products originating from alley cropping/intercropping listed below, please specify whether this operation has: Sold this before Image: Plan to sell this in the future Image: Check all that apply			Decrease - Specify reason(s):	4031							
5. Of the crops/products originating from alley cropping/intercropping listed below, please specify whether this operation has: Sold this before Image: Plan to sell this in the future Image: Check all that apply			3 Stay the same	-							
5. Of the crops/products originating from alley cropping/intercropping listed below, please specify whether this operation has: ▶ sold this before ▶ plan to sell this in the future ▶ use this for personal or on-farm use Check all that apply Crops, Products and Resources from Alley Cropping/intercropping a. Firewood b. Trees for timber products (lumber, boards, veneer, utility poles, etc.) c. Trees for non-timber products (pulp, fence posts, woodchips, etc.) d. Forages/hay/fodder for livestock e. Edibles/crops (walnuts, apples, pecans, grapes, etc.) Specify products: ⁴044 f. Medicinal plants and herbs (American ginseng, goldenseal, etc.) Specify products: ⁴048 g. Decorative plants and/or materials for landscaping Specify products: ⁴082 h. Other crops/products - Specify: ⁴095 h. Other crops/products - Specify: ⁴095 f. Please list the 3 most abundant tree and crop species combinations in alley cropping/intercropping system(s) by common name (example: black walnut, pecan, corn, soybean, etc.). If multiple combinations exist, please describe in the rows below. TREES and/or SHRUBS and CROPS and/or FORAGES Specify species: ⁴060 Specify sp											
Please specify whether this operation has: P sold this before P plan to sell this in the future Crops, Products and Resources from Alley Cropping/intercropping a. Firewood b. Trees for timber products (lumber, boards, veneer, utility poles, etc.) c. Trees for non-timber products (pulp, fence posts, woodchips, etc.) d. Forages/hay/fodder for livestock e. Edibles/crops (walnuts, apples, pecans, grapes, etc.) Specify products: ⁴014 f. Medicinal plants and herbs (American ginseng, goldenseal, etc.) Specify products: ⁴044 g. Decorative plants and/or materials for landscaping Specify products: ⁴052 h. Other crops/products - Specify:⁴056 6. Please list the 3 most abundant tree and crop species combinations in alley cropping/intercropping systems established on this operation? Check all that apply 4019 Less this for personal or on-farm use Check all that apply Value this for personal or on-farm use Check all that apply Use this for personal or on-farm use Check all that apply Use this for personal or on-farm use Check all that apply Use this for personal or on-farm use Check all that apply Use this for personal or on-farm use Check all that apply Use this for personal or on-farm use Check all that apply Use this for personal or on-farm use Check all that apply Use this for personal or on-farm use Check all that apply Use this for personal or on-farm use Check all that apply Use this for personal or on-farm use Check all that apply Use this for personal or on-farm use Check all that apply Use this for personal or on-farm use Check all that apply Use this for personal or on-farm use Check all that apply Use this for personal or on-farm use Check all that apply Use this for personal or on-farm use Check all that apply Use this for personal or on-farm use Use this for personal or on-farm			4 Dentition								
Crops, Products and Resources from Alley Cropping/Intercropping a. Firewood	5.				ercropping listed	bel	OW,				
Crops, Products and Resources from Alley Cropping/intercropping a. Firewood		▶\$	sold this before ▶plan to	sell this in the	e future	►ı	use this for	persona	l or on	-farm us	е
A. Firewood								Check	all that	apply	
a. Firewood	Cr	ops	. Products and Resources from Alley	Cropping/in	tercropping						•
b. Trees for timber products (lumber, boards, veneer, utility poles, etc.)			•								
d. Forages/hay/fodder for livestock							4035	4036		4037	
e. Edibles/crops (walnuts, apples, pecans, grapes, etc.) Specify products: 4044 f. Medicinal plants and herbs (American ginseng, goldenseal, etc.) Specify products: 4048 g. Decorative plants and/or materials for landscaping Specify products: 4052 h. Other crops/products - Specify: 4056 6. Please list the 3 most abundant tree and crop species combinations in alley cropping/intercropping system(s) by common name (example: black walnut, pecan, corn, soybean, etc.). If multiple combinations exist, please describe in the rows below. TREES and/or SHRUBS and CROPS and/or FORAGES Specify species: 4060 Specify species: 4062 Specify species: 4064 When were alley cropping/intercropping systems established on this operation? Check all that apply 4118 Less than 5 years ago 4120 10 years - less than 15 years ago 4122 Don't Know		C.	Trees for non-timber products (pulp, fe	ence posts, we	oodchips, etc.)		4038	4039		4040	
e. Edibles/crops (walnuts, apples, pecans, grapes, etc.) Specify products: 4044 f. Medicinal plants and herbs (American ginseng, goldenseal, etc.) Specify products: 4048 g. Decorative plants and/or materials for landscaping Specify products: 4052 h. Other crops/products - Specify: 4056 6. Please list the 3 most abundant tree and crop species combinations in alley cropping/intercropping system(s) by common name (example: black walnut, pecan, corn, soybean, etc.). If multiple combinations exist, please describe in the rows below. TREES and/or SHRUBS and CROPS and/or FORAGES Specify species: 4060 Specify species: 4062 Specify species: 4064 When were alley cropping/intercropping systems established on this operation? Check all that apply 4118 Less than 5 years ago 4120 10 years - less than 15 years ago 4122 Don't Know		d.	Forages/hay/fodder for livestock				4041	4042		4043	
f. Medicinal plants and herbs (American ginseng, goldenseal, etc.) Specify products: 4048 g. Decorative plants and/or materials for landscaping Specify products: 4052 h. Other crops/products - Specify:4056 6. Please list the 3 most abundant tree and crop species combinations in alley cropping/intercropping system(s) by common name (example: black walnut, pecan, corn, soybean, etc.). If multiple combinations exist, please describe in the rows below. TREES and/or SHRUBS and CROPS and/or FORAGES Specify species: 4060 Specify species: 4062 Specify species: 4064 When were alley cropping/intercropping systems established on this operation? Check all that apply 4118 Less than 5 years ago 4120 10 years - less than 15 years ago 4122 Don't Know		e.									
f. Medicinal plants and herbs (American ginseng, goldenseal, etc.) Specify products: 4048 g. Decorative plants and/or materials for landscaping Specify products: 4052 h. Other crops/products - Specify: 4056 6. Please list the 3 most abundant tree and crop species combinations in alley cropping/intercropping system(s) by common name (example: black walnut, pecan, corn, soybean, etc.). If multiple combinations exist, please describe in the rows below. TREES and/or SHRUBS and CROPS and/or FORAGES Specify species: 4060 Specify species: 4062 Specify species: 4064 Specify species: 4064 The wall of the species of the speci			Specify products: 4044		•		4045	4046		4047	
g. Decorative plants and/or materials for landscaping Specify products: 4052 h. Other crops/products - Specify: 4056 h. Other crops/products - Specify: 4056 6. Please list the 3 most abundant tree and crop species combinations in alley cropping/intercropping system(s) by common name (example: black walnut, pecan, corn, soybean, etc.). If multiple combinations exist, please describe in the rows below. TREES and/or SHRUBS and CROPS and/or FORAGES Specify species: 4060 Specify species: 4062 Specify species: 4062 Specify species: 4064 7. When were alley cropping/intercropping systems established on this operation? Check all that apply 4118 Less than 5 years ago 4120 10 years - less than 15 years ago 4122 Don't Know		f.									
Specify products: 4052 4053 4054 4055 4055			Specify products: 4048				4049	4050		4051	
h. Other crops/products - Specify: 4056		g.	Decorative plants and/or materials for	landscaping							
h. Other crops/products - Specify: 4056			Specify products: 4052		· · · · · · · · · · · · · · · · · · ·		4053	4054		4055	
common name (example: black walnut, pecan, corn, soybean, etc.). If multiple combinations exist, please describe in the rows below. TREES and/or SHRUBS and CROPS and/or FORAGES Specify species: 4060		h.	Other crops/products - Specify: ⁴⁰⁵⁶				4057	4058		4059	
Specify species: 4062 4063	6.	in t	mmon name (example: black walnut, pe he rows below. TREES an	can, corn, so	ybean, etc.). If n	nulti	ple combin	ations ex	kist, ple	ease des	
Specify species: 4064			· · · —								
7. When were alley cropping/intercropping systems established on this operation? Check all that apply 4118 Less than 5 years ago 4120 10 years - less than 15 years ago 4122 Don't Know		1 .									
4 ₁₁₈ Less than 5 years ago 4 ₁₂₀ 10 years - less than 15 years ago 4 ₁₂₂ Don't Know		Sp	Decity species: 4064			1065					
	7.	Wł	nen were alley cropping/intercropping sy	/stems establ	ished on this ope	eratio	on? Check	all that a	apply		
4 ₁₁₉ 5 years - less than 10 years ago 4 ₁₂₁ 15 years or more		4	Less than 5 years ago	4120	10 years - less	tha	n 15 years	ago 4	122	Don't k	Cnow
		4	5 years - less than 10 years ag	0 4121	15 years or mo	ore					

8. Were any of the following activities used to establish alley cropping/intercropping on this c	operation?
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Establishment Activities		YES	NO	DON'T KNOW
Converted a pasture or field to alley cropping by planting trees	4067	1	3	2
Converted an existing tree plantation to alley cropping by removing some trees and adding crops or forage	4068	1	3	2
Converted an existing forest or woodlot to alley cropping by removing some trees and adding crops or forage	4069	1	3	2
Converted an orchard to alley cropping by adding crops or forage	4070	1	3	2
Other conversion strategy - Specify: 4071				
Site Preparation and Infrastructure Activities				
Used herbicides for weed control/site preparation	4072	1	3	2
Used cultivation for weed control/site preparation	4073	1	3	2
Used barrier weed control (mulch, plastic, etc.) to establish trees	4074	1	3	2
Irrigated trees during the 1- 3 year establishment period	4075	1	3	2
Controlled weeds after planting trees during the 1 - 3 year establishment period '	4076	1	3	2
Replanted tree seedlings to fill gaps	4077	1	3	2
Used fertilizer and/or soil amendments prior to or during establishment	4078	1	3	2
Installed fencing and/or tree tubes to protect trees from wildlife/livestock	4079	1	3	2
Installed or improved irrigation infrastructure	4080	1	3	2
Other establishment activities - Specify: 4081				

9. Have any of the following activities occurred, or will occur, to manage/maintain the alley cropping/intercropping on this operation?

Management/Maintenance Activities	YES	NO	DON'T KNOW
Cultivation for weed control (disking, plowing, mowing, etc.)	1	3	2
Herbicide for weed control 408	1	3	2
Barrier weed control (mulching/fabric) 408	1	3	2
Grazing livestock 408	1	3	2
Pesticide 408	1	3	2
Irrigation 408	1	3	2
Fertilization and/or soil amendments 408	1	3	2
Replanting trees 408	1	3	2
Replanting crops 409	1	3	2
Pruning of tree branches and stems 409	1	3	2
Pruning of tree roots to reduce competition with crops	1	3	2
Removal of living or dead trees (thinning) 409	1	3	2
Fencing or tree tubes to protect trees or crops from wildlife/livestock	1	3	2
Other management activities - Specify: 4095			

10. Have any of the following been challenges on this operation when establishing or managing the alley cropping/intercropping systems?

Number	Potential Challenges	YES	NO	DON'T KNOW
1	Lack of information about establishment	1	3	2
2	Difficulty establishing trees, crops, or forage	1	3	2
3	High startup costs 4098	1	3	2
4	Lack of information on management and maintenance	1	3	2
5	Difficulty regrowing trees in an established alley cropping system 4100	1	3	2
6	Expense of maintenance	1	3	2
7	Lack of information on recommended tree/crop species combinations 4102	1	3	2
8	Lack of knowledge among technical assistance providers 4103	1	3	2
9	Lack of examples or demonstration sites	1	3	2
10	Lack of financial assistance	1	3	2
11	Lack of markets for products	1	3	2
12	Adds labor and complexity to management	1	3	2
13	Conflict with farm equipment, practices, or layout	1	3	2
14	Trees and crops compete for space, light, water, and nutrients 4109	1	3	2
15	Wildlife damage to trees and crops	1	3	2
16	Tree/shrub pests and diseases	1	3	2
17	Herbicide drift damaging trees/shrubs	1	3	2
18	Issues with snow drifts 4113	1	3	2
19	Other challenge(s) - Specify: 4114			

11. Of the challenges listed above (1 - 19), which 3 are most significant to this		Enter Number	
operation? Enter the corresponding number from the first column in the table	4115	4116	4117

Section 5 - Forest Farming / Multi-Story Cropping

Multi-Story Cropping/Forest Farming is the deliberate cultivation of crops under a canopy of trees. The canopy is often modified to provide levels of light that favor growth and enhanced production of the understory crops. Crops may include edibles (fruits, vegetables, nuts, mushrooms, etc.) tapping trees for syrup, nursery or landscaping plants, woodland herbal/medicinal plants, and decorative/floral products. A tree farm or plantation is not considered forest farming unless understory crops are intentionally cultivated underneath the canopy of trees.

Dc	oes this operation have any land in fores	st farming/multi-story cropping?			
	⁵⁰⁰⁰ ₁ Yes - Continue	3 No - Go to Section 6, bottom of page 22			
1.	Is the forest farming system on this ope	eration managed in any of the following ways?			
		wild plant populations in a wooded environmen volves minimal site preparation or inputs		5001	Yes 3 No
	minimal management to expose the	ting crops in a natural growing environment. Investing crops in a natural growing environment. Investigation of the control of	ne	5002 1	Yes 3 No
	canopy. May involve tilling, fertilizi	and/or clusters of a single crop under the forest ng, weeding and controlling disease and pests. understory and thinning the forest overstory		5003 1	Yes ₃ No
					Forest Farming Acres
2.		ration have in forest farming/multi-story cropping			5004
	INCLUDE: land owned, rented, and lea	ased from others			
3.	Were any of the following activities use	ed to establish the forest farming system on this	operatio	on?	
	Establishment Activities		YES		DON'T KNOW
	Cultivation for weed control/site prepa	ration 5005	1	3	2
	Used barrier weed control (mulch, plas	stic, etc.) to establish crops 5006	1	3	2
	Used herbicides for weed control/site	preparation 5007	1	3	2
	Used fertilizer and/or soil amendments	s prior to or during establishment 5008	1	3	2
	Cleared debris (leaf layer, fallen trees,	branches, rocks, etc.) 5009	1	3	2
	Removed trees (thinning)	5010	1	3	2
	Pruned tree branches	5011	1	3	2
	Removed competing understory veget	ation 5012	1	3	2
		5013	1	3	2
	Installed fencing and/or tree tubes to p	protect trees/shrubs from livestock/wildlife 5014	1	3	2
	Other establishment activities - Specif	y: ⁵⁰¹⁵		<u> </u>	<u>'</u>
4.	5109 Less than 5 years ago	stablished on this operation? Check all that app	-	5113 D	on't Know
	5 ₁₁₀ 5 years - less than 10 years a	ago ₅₁₁₂ 15 years or more			

5. Have any of the following activities occurred, or will occur, to manage/maintain the forest farming system on this operation?

Management Activities	YES	NO	DON'T KNOW
Cultivation for weed control (pulling, disking, plowing, etc.)	7 1	3	2
Herbicides for weed control 501	8 1	3	2
Barrier weed control (mulching/fabric)	9 1	3	2
Livestock grazing	0 1	3	2
Prescribed fire 502	1 1	3	2
Irrigation 502	2 1	3	2
Fertilization and/or soil amendments	3 1	3	2
Replanting trees 502	4 1	3	2
Replanting understory crops 502	5 1	3	2
Pruning of tree branches and stems 502	6 1	3	2
Pruning of understory branches and stems 502	7 1	3	2
Removal of living or dead trees (thinning)	8 1	3	2
Removal/clearing of understory vegetation, rocks, and forest debris 502	9 1	3	2
Fencing or tree tubes to protect trees/crops from wildlife/livestock	0 1	3	2
Other management activities- Specify: 5031			

b. Of the crops/	products originating	i from forest	. tarmina s	3vstems iisted	pelow.	please specify	v wnether this	operation nas:
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	1.1	41	I	
\triangleright sc	ทด	tnis	before	

▶ plan to sell this in the future

▶use this for personal or on-farm use

Check all that apply

Plan to sell Use this for Sold this this in the personal or on-Crops, Products and Resources from Forest Farming before future farm use 5032 5033 5034 a. Firewood 5035 5036 5037 b. Trees for timber products (lumber, boards, veneer, utility poles, etc.) 5038 5039 5040 c. Trees for non-timber products (pulp, fence posts, woodchips, etc.) d. Edibles (shiitake mushrooms, maple syrup, ramps, etc.) 5042 5043 5044 Specify products: 5041 e. Medicinal plants and herbs (American ginseng, goldenseal, etc.) 5046 5047 5048 Specify products: 5045 f. Decorative plants and/or materials for landscaping 5051 5052 Specify products: 5049 5054 5055 5056 g. Other crops/products - Specify: 5053

7. Does forest farming provide any of the following benefits to this operation?

8.

9.

Number	Conservation Benefits	YES	NO	DON'T KNOW
1	Habitat for pollinators and other beneficial insects 5057	1	3	2
2	Wildlife habitat 5058	1	3	2
3	Improved soil health	1	3	2
4	Improved soil erosion control	1	3	2
5	Improved water quality	1	3	2
6	Improved nutrient management	1	3	2
7	Increased carbon storage in soils, trees, and vegetation	1	3	2
8	Invasive weed control	1	3	2
	Economic Benefits			
9	Income from sale of products (edibles, timber, etc.)	1	3	2
10	Crops/products for on-farm or personal use	1	3	2
11	Increased crop production/yield	1	3	2
12	Improved crop quality	1	3	2
13	Income diversification from multiple crops/products 5069	1	3	2
14	Improvement of marginal unproductive or unfarmable land	1	3	2
15	Increased water-use efficiency	1	3	2
16	Increased land value5072	1	3	2
17	Revenue from conservation payments 5073	1	3	2
18	Revenue from hunting leases	1	3	2
19	Timber stand improvement 5075	1	3	2
	Other Benefits			
20	Cultural/family tradition5076	1	3	2
21	Hunting 5077	1	3	2
22	Recreation (other than hunting) 5078	1	3	2
23	Improved resilience to weather extremes (drought, flood, etc.) 5079	1	3	2
24	Aesthetics/scenic beauty	1	3	2
25	Other benefit(s) - Specify: 5081			
	forest farming benefits listed above (1 - 25), which 3 are most		Enter Number	
	ant to this operation? Enter the corresponding number from the first in the table above.		5083	5084
				-
	ext five years, will the acreage in forest farming or multi-story cropping for this e, decrease or stay the same? Check one	operatio	on	
5 1	Increase - Specify reason(s): 5086			
2	Decrease - Specify reason(s): 5087			
3	Stay the same			
	Don't Know			

10. Have any of the following been challenges on this operation when establishing or managing the forest farming system?

I	Number	Potential Challenges	Yes	No	Don't Know
	1	Lack of information about establishment ⁵⁰	088 1	3	2
	2	Difficulty establishing crops ⁵⁰	089 1	3	2
	3	High startup costs5	090 1	3	2
	4	Lack of information on management and maintenance ⁵⁰	091 1	3	2
	5	Difficulty regrowing trees within an established forest farming system . ⁵⁰	092 1	3	2
	6	Expense of maintenance	093 1	3	2
	7	Lack of information on recommended crop species 56	094 1	3	2
	8	Lack of knowledge among technical assistance providers 50	095 1	3	2
	9	Lack of examples or demonstration sites 50	096 1	3	2
	10	Lack of financial assistance ⁵⁰	097 1	3	2
	11	Lack of markets for products ⁵⁰	098 1	3	2
	12	Adds labor and complexity to management ⁵⁰	099 1	3	2
	13	Conflict with farm equipment, practices, or layout ⁵	100 1	3	2
	14	Trees and crops compete for space, light, water, and nutrients ⁵	101 1	3	2
	15	Wildlife damage to trees and/or understory crops ⁵	102 1	3	2
	16	Tree/shrub pests and diseases	103 1	3	2
	17	Theft of forest farming crops ⁵	104 1	3	2
	18	Other challenge(s) - Specify:	<u> </u>		
11. Of	f the ch	allenges listed above (1 - 18), which 3 are most significant to this		Enter Number	
•		n? Enter the corresponding number from the first column in the bye.	06	5107	5108
		- General Knowledge	<u> </u>		
		ut at least one of the previous agroforestry sections in this survey (i.e. for s, alley cropping and/or forest farming)? Yes - I filled out at least one section - Go to item 1, page 23	r windbreak	ິຣ, silvopastur	e, riparian
	6001	No - this operation never practiced agroforestry - Go to Section 7,	back page	:	
	6002	No - this operation stopped using agroforestry since filling out the Specify which agroforestry practice was stopped and why:	2017 Cens	sus of Agricult	ture.
		6003			
		Go to Section 7, back page			
	6004	No - this operation uses other forms of agroforestry not specified in Briefly describe the system:	n this surve	; y.	

Go to Section 7, back page

6005

1. Do you use any of the following resources when gathering information about agroforestry?

2.

3.

Number	Information Source	,	/ES		N	Ю	
1	Neighboring farmers, non-neighbor farmers or farmer groups 6006	1			3		
2	Conservation district staff 6007	1			3		
3	Private forester 6008	1			3		
4	Agricultural or conservation consultant from a for-profit business 6009	1			3		
5	Non-profit organization 6010	1			3		
6	University Cooperative Extension 6011	1			3		
7	State agricultural, environment or forestry staff 6012	1			3		
8	Federal agricultural, environment or forestry staff 6013	1			3		
9	Internet 6014	1			3		
10	Social media 6015	1			3	i	
11	Email/E-newsletter 6016	1			3		
12	Farming/conservation magazines 6017	1			3		
13	Books, print newsletters, brochures				3		
14	Peer reviewed scientific journals 6019	1			3	1	
15	Have someone visit this operation	-			3		
16	Visit a different operation (field tour, demonstration site, etc.) 6021	1			3		
17	Attendance at a conference or workshop	1			3		
18	·	<u>'</u>			<u> </u>		
10	Other information source - Specify: 6023						
Of the in	nformation sources listed above (1 - 18), which 3 are most useful to			Enter	Num	ber	
Of the in this ope table ab	1	d/or s	_ 6	025			6026 ——etry praction
Of the ii this ope table ab Has this	Information sources listed above (1 - 18), which 3 are most useful to eration? Enter the corresponding number from the first column in the love. So operation used any of the following funding sources to establish, manage and founded with own money?	d/or s	_ 6	025			
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Of the ii this ope table ab Has this a. Self b. Loa c. Loa d. Fed 6030 e. Stat 6032 f. Fun	information sources listed above (1 - 18), which 3 are most useful to stration? Enter the corresponding number from the first column in the sove. soperation used any of the following funding sources to establish, manage and funded with own money?	d/or s	_ 6	025			

4. If this operation **sells products** originating from any of its agroforestry systems, please indicate where they have been sold. Only check boxes in column(s) corresponding to the agroforestry practice(s) this operation utilizes.

Places where agroforestry crops/products have been or will be sold	Produc from Windbre		Produ fror Silvopa	n	Products from Riparian Forest Buffer	Products from Alley/ Intercropping	Products from Forest Farming
a. Food distributor, broker, or processor	6037		6038		6039	6040	6041
b. Grain elevator	6042		6043		6044	6045	6046
c. Ethanol or biodiesel facility	6047		6048		6049	6050	6051
d. Restaurants, grocery stores, or institutions like schools and hospitals	6052		6053		6054	6055	6056
e. Food cooperative	6057		6058		6059	6060	6061
f. Animal stockyards	6062		6063		6064	6065	6066
g. Other farmers	6067		6068		6069	6070	6071
h. Farmers' market	6072		6073		6074	6075	6076
i. U-pick	6077		6078		6079	6080	6081
j. Farm stand or store	6082		6083		6084	6085	6086
k. Community Supported Agriculture	6087		6088		6089	6090	6091
Loggers purchasing standing trees (stumpage)	6092		6093		6094	6095	6096
m. Wood products direct-to-mill, wood manufacturer, timber supplier, etc	6097		6098		6099	6100	6101
n. Other: Please Specify: 6102	6103		6104		6105	6106	6107
Section 7 - Conclusion							
Contact Information: Operation Email:				Operat	ion Phone:		
9937				9936			check if cell phone
Respondent Name: Re	spondent Ph	hone:	(if differen	t from a	above)		
9912	11		_		check if	9910 MM Date:	DD YY

This completes the survey. Thank you for your help.

				OI	FFICE U	SE ONLY	•					
Response)	Respond	ent	Mode		Enum.	Eval.	Change		Office U	lse for POI	D
1-Comp 2-R 3-Inac 4-Office Hold 5-R – Est 6-Inac – Est	9901	1-Op/Mgr 2-Spouse 3-Acct/Bkpr 4-Partner 9-Other	9902	1-PASI (Mail) 2-PATI (Tel) 3-PAPI (Face-to- Face) 6-Email 7-Fax	9903	9998	9900	9985	9989	<u> </u>	onal Use	
7-Off Hold – Est				19-Other					9907	9908	9906	9916
S/E Name												