

## Supplementary Materials

Table S1. Landowner demographics and their willingness to plant agroforestry with conservation program funding

Design	Independent Factor <sup>1</sup>	P-Value	Model Fit	Variable Type <sup>2</sup>	Relationship <sup>3</sup>
Multi Windbreak	Age	0.0004**	r2 = 0.0663	Categorical	Negative
	Gender	0.6107		Categorical	
	Primary Farmer	0.8951		Categorical	
	Conservation Program Interest	<0.0001**	r2 = 0.1291	Categorical	Positive
	Farm Income	0.1656		Categorical	
	Marginal Land	0.0506*	r2 = 0.0223	Categorical	Positive
	Acres	0.2042		Continuous	
	Beginning Farmer	0.6768		Categorical	
Multi Riparian Buffer	Age	0.0451*	r2 = 0.0267	Categorical	Negative
	Gender	0.5035		Categorical	
	Primary Farmer	0.4023		Categorical	
	Conservation Program Interest	<.0001**	r2 = 0.1141	Categorical	Positive
	Farm Income	0.9153		Categorical	
	Marginal Land	0.0453*	r2 = 0.0232	Categorical	Positive
	Acres	0.6419		Continuous	
	Beginning Farmer	0.3466		Categorical	
Multi Silvopasture	Age	0.0803		Categorical	
	Gender	0.9942		Categorical	
	Primary Farmer	0.3321		Categorical	
	Conservation Program Interest	<.0001**	r2 = 0.0911	Categorical	Positive
	Farm Income	0.7426		Categorical	
	Marginal Land	0.5085		Categorical	
	Acres	0.4103		Continuous	
	Beginning Farmer	0.8574		Categorical	
Forest Farm	Age	0.0009**	r2 = 0.0595	Categorical	Negative
	Gender	0.6002		Categorical	
	Primary Farmer	0.1491		Categorical	
	Conservation Program Interest	<.0001**	r2 = 0.2070	Categorical	Positive
	Farm Income	0.5286		Categorical	
	Marginal Land	0.1714		Categorical	
	Acres	0.1041		Continuous	
	Beginning Farmer	0.2084		Categorical	

Results in table are from one-way ANOVA in SAS proc General Linear Model (GLM). Source: Landowner Survey, 2021

<sup>1</sup>Independent factors are demographic information of the farmer and his/her farm. Dependent factors include “would plant the agroforestry design,” “would plant the agroforestry design with conservation program funding,” and “would plant the design with technical assistance.” Age (<35, 35-66, 67+). Gender (Male, Female, Other). Primary Farmer (Yes/No). Conservation Program Interest (Yes/No). Farm Income (<\$1,000, \$1,000 - \$19,999, \$20,000 - \$39,999, \$40,000 - \$69,999, \$70,000 - \$99,000, \$100,000+). Marginal Land (Yes/Unsure/No). Acres owned. Beginning Farmer (Yes/No)

<sup>2</sup>Classification of independent factor used to predict willingness to plant agroforestry designs, either categorical or continuous

<sup>3</sup>Relationship between independent variable and its influence on dependent variable willingness to plant agroforestry design for significant variables

\* Indicates significant p-value. \*\* Indicates highly significant p-value. Model fit ( $r^2$ ) is shown for only significant variables

Table S2. Landowner demographics and their willingness to plant agroforestry with technical assistance

Design	Independent Factor <sup>1</sup>	P-Value	Model Fit	Variable Type <sup>2</sup>	Relationship <sup>3</sup>
Multi Windbreak	Age	0.0091**	r <sup>2</sup> = 0.0402	Categorical	Negative
	Gender	0.4206		Categorical	
	Primary Farmer	0.6925	r <sup>2</sup> = 0.1322	Categorical	
	Conservation Program Interest	<.0001**		Categorical	Positive
	Farm Income	0.1298	r <sup>2</sup> = 0.0249	Categorical	
	Marginal Land	0.0354*		Categorical	Positive
	Acres	0.2271		Continuous	
	Beginning Farmer	0.6666		Categorical	
Multi Riparian Buffer	Age	0.0402*	r <sup>2</sup> = 0.0278	Categorical	Negative
	Gender	0.5332		Categorical	
	Primary Farmer	0.5273	r <sup>2</sup> = 0.1010	Categorical	
	Conservation Program Interest	<0.0001**		Categorical	Positive
	Farm Income	0.8145	r <sup>2</sup> = 0.0284	Categorical	
	Marginal Land	0.0225*		Categorical	Positive
	Acres	0.776		Continuous	
	Beginning Farmer	0.4083		Categorical	
Multi Silvopasture	Age	0.0304*	r <sup>2</sup> = 0.0305	Categorical	Negative
	Gender	0.9973		Categorical	
	Primary Farmer	0.1497	r <sup>2</sup> = 0.0857	Categorical	
	Conservation Program Interest	<0.0001**		Categorical	Positive
	Farm Income	0.8292		Categorical	
	Marginal Land	0.2832		Categorical	
	Acres	0.2945		Continuous	
	Beginning Farmer	0.946		Categorical	
Forest Farm	Age	0.0006**	r <sup>2</sup> = 0.0628	Categorical	Negative
	Gender	0.1861		Categorical	
	Primary Farmer	0.1099	r <sup>2</sup> = 0.1807	Categorical	
	Conservation Program Interest	<0.0001**		Categorical	Positive
	Farm Income	0.6321		Categorical	
	Marginal Land	0.1577		Categorical	
	Acres	0.1054		Continuous	
	Beginning Farmer	0.3185		Categorical	

Results in table are from one-way ANOVA in SAS proc General Linear Model (GLM). Source: Landowner Survey, 2021

<sup>1</sup>Independent factors are demographic information of the farmer and his/her farm. Dependent factors include “would plant the agroforestry design,” “would plant the agroforestry design with conservation program funding,” and “would plant the design with technical assistance.” Age (<35, 35-66, 67+). Gender (Male, Female, Other). Primary Farmer (Yes/No). Conservation Program Interest (Yes/No). Farm Income (<\$1,000, \$1,000 - \$19,999, \$20,000 - \$39,999, \$40,000 - \$69,999, \$70,000 - \$99,000, \$100,000+). Marginal Land (Yes/Unsure/No). Acres owned. Beginning Farmer (Yes/No)

<sup>2</sup>Classification of independent factor used to predict willingness to plant agroforestry designs, either categorical or continuous

<sup>3</sup>Relationship between independent variable and its influence on dependent variable willingness to plant agroforestry design for significant variables

\* Indicates significant p-value

\*\* Indicates highly significant p-value. Model fit (r<sup>2</sup>) is shown for only significant variables

Table S3. Landowner farm goals and their willingness to plant agroforestry with conservation program funding

Design	Independent Factor <sup>1</sup>	P-value	Model Fit	Variable Type <sup>2</sup>	Relationship <sup>3</sup>
Multi Windbreak	Goal of Income	0.0248*	r2 = 0.0278	Categorical	Neuatal
	Goal of Conservation	0.0026**	r2 = 0.0441	Categorical	Positive
	Goal of Recreation	0.0177*	r2 = 0.0303	Categorical	Positive
	Goal of Education	<.0001**	r2 = 0.0907	Categorical	Positive
	Goal of Agritourism	<.0001**	r2 = 0.0978	Categorical	Positive
	Goal of Lifestyle	0.0833		Categorical	
Multi Riparian Buffer	Goal of Income	0.3651		Categorical	
	Goal of Conservation	0.0637		Categorical	
	Goal of Recreation	0.0198*	r2 = 0.0296	Categorical	Positive
	Goal of Education	0.0018**	r2 = 0.0471	Categorical	Positive
	Goal of Agritourism	0.0014**	r2 = 0.0491	Categorical	Positive
	Goal of Lifestyle	0.1657		Categorical	
Multi Silvopasture	Goal of Income	0.7567		Categorical	
	Goal of Conservation	0.0027**	r2 = 0.0440	Categorical	Positive
	Goal of Recreation	0.0279*	r2 = 0.0272	Categorical	Positive
	Goal of Education	<.0001**	r2 = 0.0924	Categorical	Positive
	Goal of Agritourism	0.0001**	r2 = 0.0672	Categorical	Positive
	Goal of Lifestyle	0.1179		Categorical	
Forest Farm	Goal of Income	0.3346		Categorical	
	Goal of Conservation	0.0024**	r2 = 0.0450	Categorical	Positive
	Goal of Recreation	0.0009**	r2 = 0.0531	Categorical	Positive
	Goal of Education	0.003**	r2 = 0.0438	Categorical	Positive
	Goal of Agritourism	<.0001**	r2 = 0.0939	Categorical	Positive
	Goal of Lifestyle	0.0046**	r2 = 0.0402	Categorical	Positive

Results in table are from one-way ANOVA in SAS proc General Linear Model (GLM). Source: Landowner Survey, 2021

<sup>1</sup>Independent variable is each of the goals analyzed separately for their influence on the dependent variable, “Would Plant Design,” “Would Plant with Funding,” and “Would Plant with Technical Assistance.”

<sup>2</sup>Classification of independent factor used to predict willingness to plant agroforestry designs, either categorical or continuous

<sup>3</sup>Relationship between independent variable and its influence on dependent variable - willingness to plant agroforestry design for significant variables

\* Indicates significant p-value

\*\* Indicates highly significant p-value

Model fit (r<sup>2</sup>) is shown for only significant variables

Table S4. Landowner farm goals and their willingness to plant agroforestry with technical assistance

Design	Independent Factor <sup>1</sup>	P-value	Model Fit	Variable Type <sup>2</sup>	Relationship <sup>3</sup>
Multi Windbreak	Goal of Income	0.0555		Categorical	
	Goal of Conservation	0.0086**	r <sup>2</sup> = 0.0352	Categorical	Positive
	Goal of Recreation	0.0206*	r <sup>2</sup> = 0.0292	Categorical	Positive
	Goal of Education	<.0001**	r <sup>2</sup> = 0.0898	Categorical	Positive
	Goal of Agritourism	<.0001**	r <sup>2</sup> = 0.0966	Categorical	Positive
	Goal of Lifestyle	0.2434		Categorical	
Multi Riparian Buffer	Goal of Income	0.6617		Categorical	
	Goal of Conservation	0.0718		Categorical	
	Goal of Recreation	0.0388*	r <sup>2</sup> = 0.0247	Categorical	Positive
	Goal of Education	0.0028**	r <sup>2</sup> = 0.0443	Categorical	Positive
	Goal of Agritourism	0.0002**	r <sup>2</sup> = 0.0644	Categorical	Positive
	Goal of Lifestyle	0.072		Categorical	
Multi Silvopasture	Goal of Income	0.5104		Categorical	
	Goal of Conservation	0.0105*	r <sup>2</sup> = 0.0342	Categorical	Positive
	Goal of Recreation	0.0491*	r <sup>2</sup> = 0.0230	Categorical	Positive
	Goal of Education	0.0002**	r <sup>2</sup> = 0.0635	Categorical	Positive
	Goal of Agritourism	<.0001**	r <sup>2</sup> = 0.0733	Categorical	Positive
	Goal of Lifestyle	0.0533		Categorical	
Forest Farm	Goal of Income	0.4385		Categorical	
	Goal of Conservation	0.001**	r <sup>2</sup> = 0.0499	Categorical	Positive
	Goal of Recreation	0.0022**	r <sup>2</sup> = 0.0464	Categorical	Positive
	Goal of Education	0.0067**	r <sup>2</sup> = 0.0380	Categorical	Positive
	Goal of Agritourism	<.0001**	r <sup>2</sup> = 0.0966	Categorical	Positive
	Goal of Lifestyle	0.0004**	r <sup>2</sup> = 0.0574	Categorical	Positive

Results in table are from one-way ANOVA in SAS proc General Linear Model (GLM). Source: Landowner Survey, 2021

<sup>1</sup>Independent variable is each of the goals analyzed separately for their influence on the dependent variable, “Would Plant Design,” “Would Plant with Funding,” and “Would Plant with Technical Assistance.” Goal of income means landowner focuses on using land to generate a source of income.

<sup>2</sup>Classification of independent factor used to predict willingness to plant agroforestry designs, either categorical or continuous

<sup>3</sup>Relationship between independent variable and its influence on dependent variable - willingness to plant agroforestry design for significant variables

\* Indicates significant p-value

\*\* Indicates highly significant p-value

Model fit (r<sup>2</sup>) is shown for only significant variables

# Preferences for Agricultural Land Use, Conservation Practices, and Tree Planting

You are invited to participate in a survey conducted by the University of Missouri, Center for Agroforestry. The questions focus on your perspectives of agricultural land use, tree planting, and conservation practices and should be completed by the person who has the main responsibility for making farm management decisions. Your responses will help researchers, policymakers, and other landowners understand the opportunities and challenges of developing conservation tree plantings on agricultural land for your region. Your participation is completely voluntary, and your responses will remain anonymous. The survey takes around 20 - 30 minutes to complete. For additional information, please contact Raelin Kronenberg, Graduate Student Researcher (rlk5hp@mail.missouri.edu) or Sarah Lovell, Professor and Director of the Center for Agroforestry (slovell@missouri.edu). Questions about your rights as a research participant can be directed to the University of Missouri Institutional Review Board (IRB) by calling 573.882.3181 or email [irb@missouri.edu](mailto:irb@missouri.edu). To take the survey online go to: <https://tinyurl.com/qualtricsagsurvey>

We appreciate your participation!

## LUCKY DRAW FOR \$25 GIFT CARD

Be one of the first 100 surveys completed and returned by August 31st, 2021 for a chance to win one of twenty \$25 gift cards. Please provide your contact information at the end of the survey. Your responses will remain anonymous unless you chose to leave your contact information for the gift card drawing.

All personal information collected by this survey will be kept confidential.

Please confirm you are at least 18 years old: ☐ Yes – continue with survey ☐ No – thank you for your consideration!

Are you the primary person who makes the land use decisions for your property?

☐ Yes – continue survey ☐ No – survey complete, please return packet

By continuing with the survey, you indicate your consent to participate in this research



**Part 1: Farm Information** Please answer the following questions based on your current farm.

1.1 Which Missouri county is your primary farm located in? \_\_\_\_\_

1.2 Do you live on the farm? ☐ Yes ☐ No

➔ If no, which county is your primary home residence in? \_\_\_\_\_

1.3 What year did you begin **THIS** farm operation? \_\_\_\_\_

1.4 What year did you begin farming? \_\_\_\_\_

1.5 During 2020, how many total acres on this operation

Mark "x"  
if none

Number of Acres

1.5a Were owned .....

1.5b Where rented or leased from others .....

1.5c Were rented or leased to others .....

1.6 Do you have land you consider marginal, less productive than the typical agricultural land in your area?

☐ Yes

☐ No

☐ I'm not sure

➔ If yes, how many acres? \_\_\_\_\_

➔ Are these areas less productive because they are (*check all that apply*)

☐ Along a tree line

☐ Poorly drained or wet areas

☐ Shaded areas

☐ Along a river or creek

☐ Steeply sloped areas

☐ Have unproductive soil

☐ Other: \_\_\_\_\_

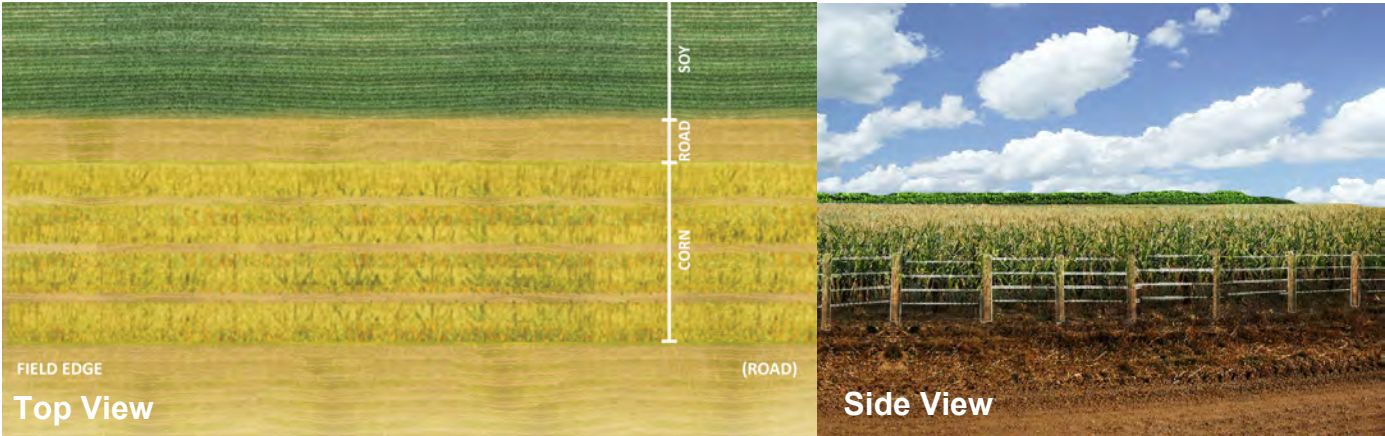
1.7 Indicate the importance of the following statements for your farm.

	Not Important	Moderately Important	Very Important
To provide income from the production of crops, livestock, and/or timber.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
To conserve natural resources by providing wildlife habitat, protecting soil, and improving water quality	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
To offer recreational opportunities such as hunting, hiking, and photography.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
To provide educational experiences by trying different planting systems and management plans.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
To engage people in the rural lifestyle experience through agritourism opportunities.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
To provide a rural lifestyle for myself and/or my family.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>



**Part 2: Agricultural Landscape Preferences** Below are several planting plans and images of rural landscapes. These images serve as examples of different land management practices. Indicate the desirability of the scenes in these images considering that plant varieties and spacing can be changed to fit land management goals.

2.1 Field Edge



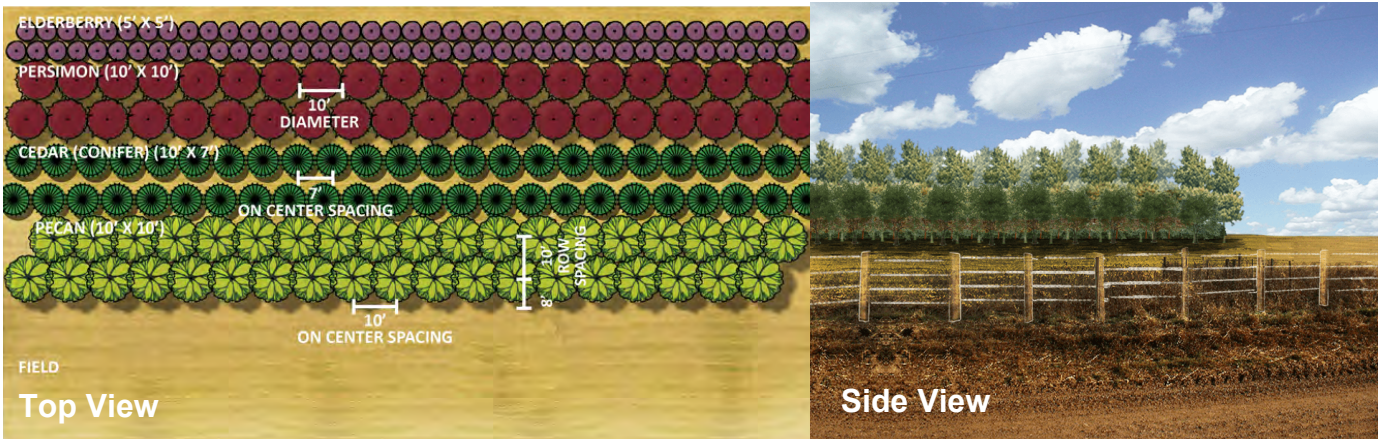
How desirable is the above image of an open field edge?

Very Undesirable	Undesirable	Neutral	Desirable	Very Desirable
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>



How desirable is the above image of a windbreak with conifer trees for a field edge?

Very Undesirable	Undesirable	Neutral	Desirable	Very Desirable
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

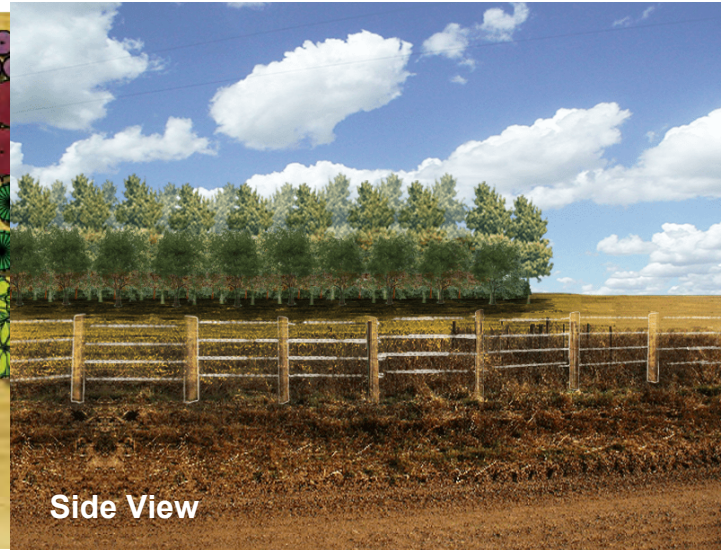
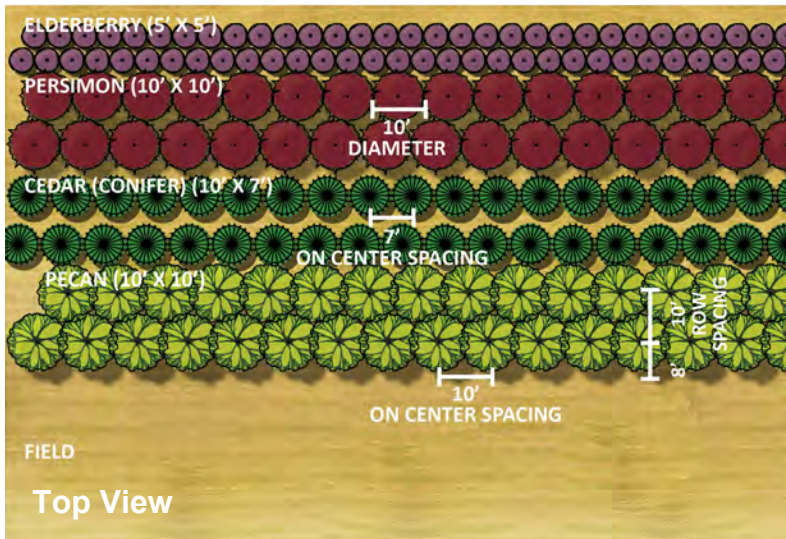


How desirable is the above image of a windbreak with edible fruit and nut species for a field edge?

Very Undesirable	Undesirable	Neutral	Desirable	Very Desirable
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>



**2.2 Windbreak with Edible Species** Below are more detailed questions about the same design you rated on the previous page.



Indicate to what level you agree or disagree with the following statements regarding the above planting plan for a windbreak with edible fruit and nut species. *Since different spacing and plant varieties may be better suited for your land management goals, rate the images based on the design as a whole knowing it could be adjusted to your preferences.*

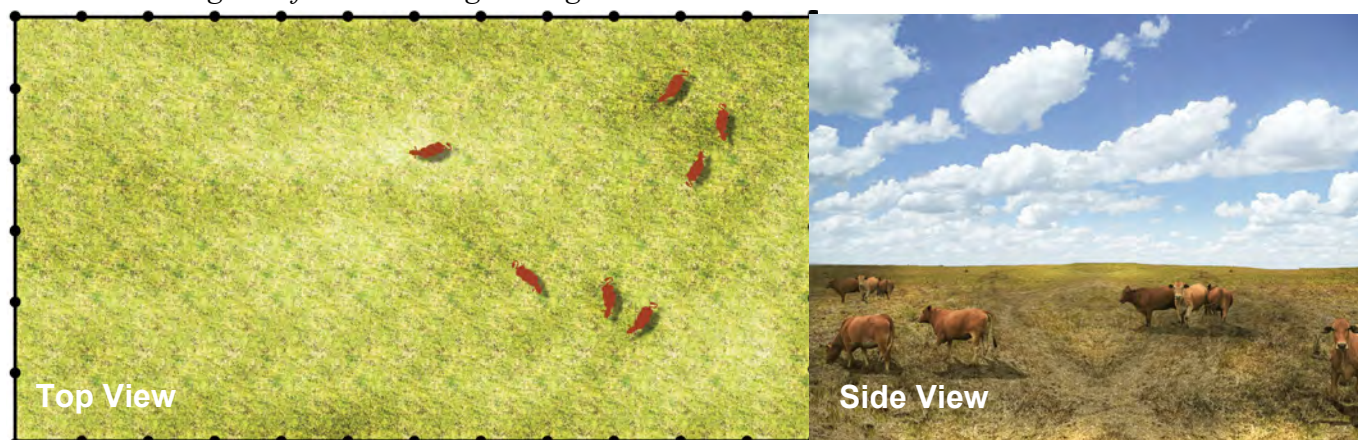
	Strongly Disagree	Disagree	Unsure	Agree	Strongly Agree
It would be a productive use of land.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
It would be difficult to manage.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
It would provide conservation of natural resources (soil, water, etc.)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
It would provide recreational opportunities (hunting, hiking, photography etc.)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
It would provide products for my own use (nuts, berries, wood etc.)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
It would increase wildlife habitat and biodiversity.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
It would attract unwanted wildlife.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
It would improve soil health and provide erosion control.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
It would mitigate chemical drift (pesticides, herbicides, fertilizer).	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
It would be financially profitable.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
It would be expensive to plant and care for.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other benefits or concerns	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Please specify:</b>					

*In regards to the windbreak planted with edible fruit and nut species...*

	Yes	No	Unsure
I am interested in planting this design on my farm.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
I would plant this design if I received conservation funding	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
I would plant this design if I received technical assistance.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

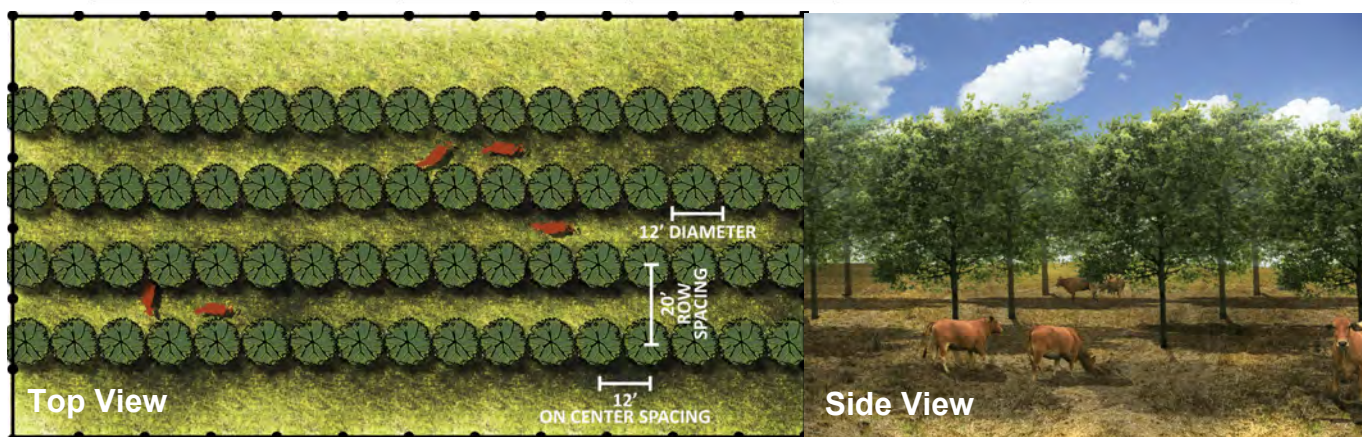


**2.3 Pasture** Below are several planting plans and images of livestock pastures. Indicate the desirability of the scenes in these images considering that plant varieties and spacing can be changed to fit land management goals.



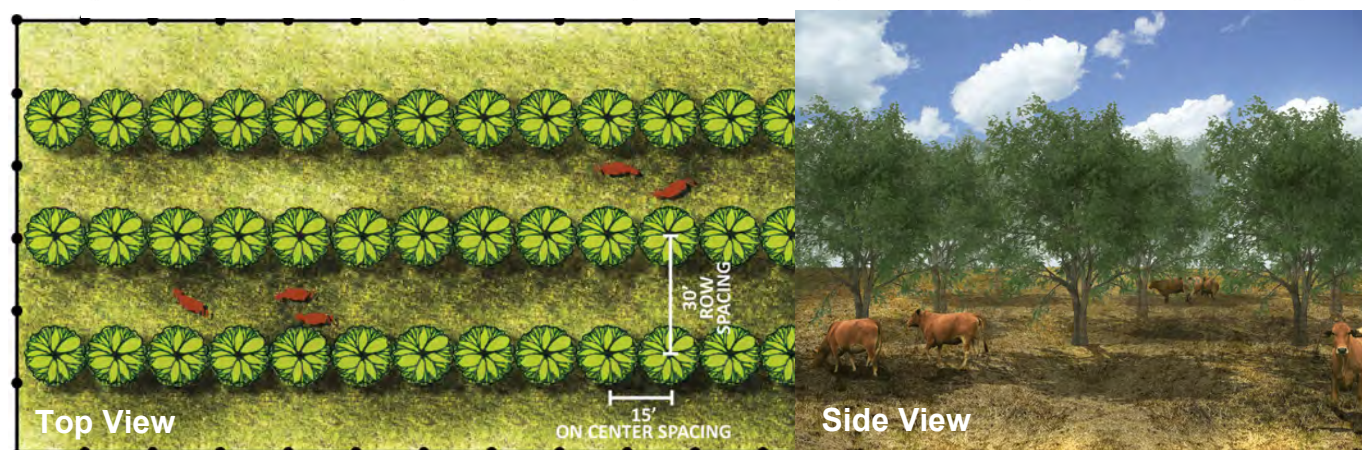
How desirable is the above image of an open pasture?

Very Undesirable	Undesirable	Neutral	Desirable	Very Desirable
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>



How desirable is the above image of a hardwood silvopasture?

Very Undesirable	Undesirable	Neutral	Desirable	Very Desirable
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

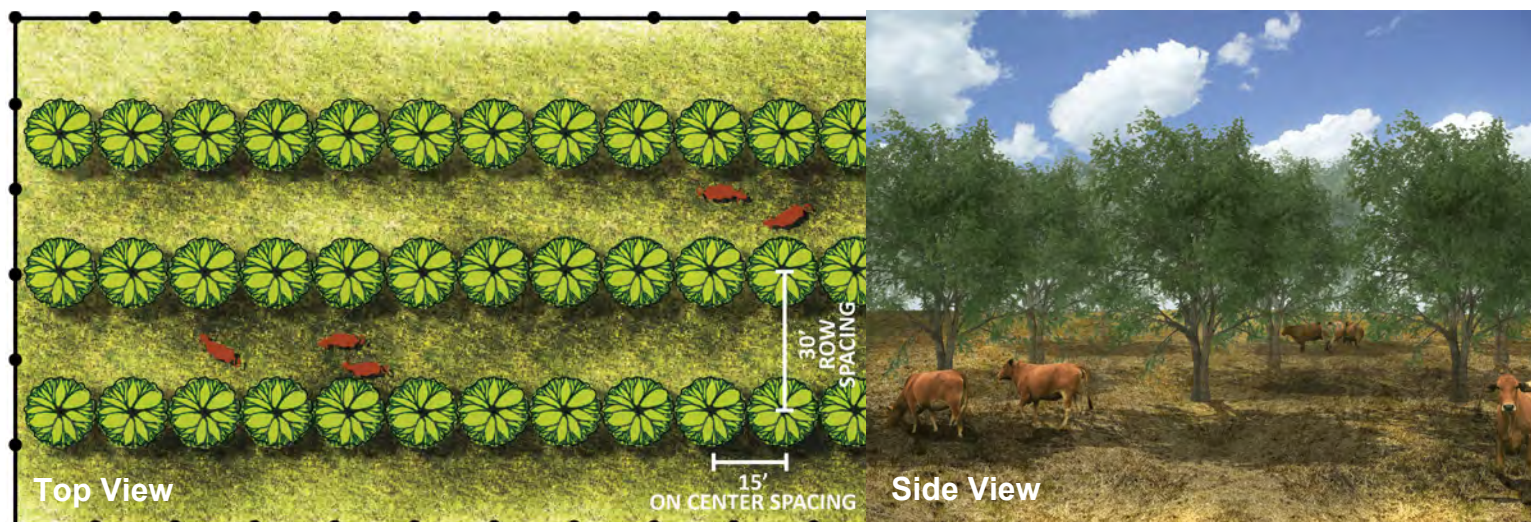


How desirable is the above image of a nut tree silvopasture?

Very Undesirable	Undesirable	Neutral	Desirable	Very Desirable
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>



**2.4 Pasture with Edible Tree Species** Below are more detailed questions about the same design you rated on the previous page.



Indicate to what level you agree or disagree with the following statements regarding the above planting plan of a pecan silvopasture. *Reminder - this design could be adjusted to your preferences.*

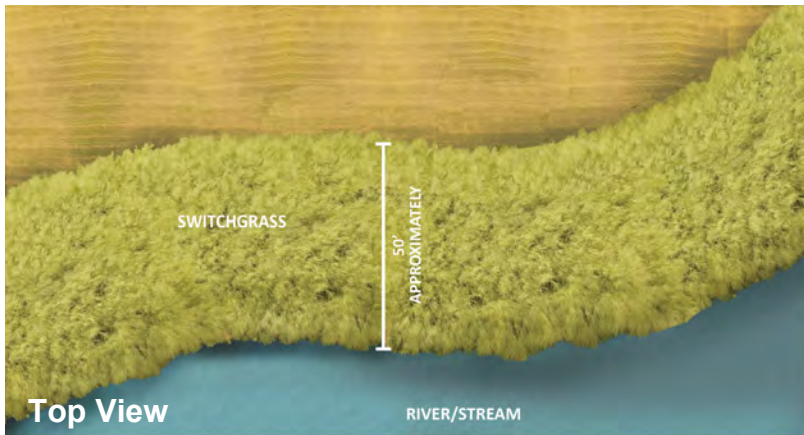
	Strongly Disagree	Disagree	Unsure	Agree	Strongly Agree
It would be a productive use of land.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
It would be difficult to manage.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
It would provide conservation of natural resources (soil, water, etc.)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
It would provide recreational opportunities (hunting, hiking, photography etc.)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
It would provide products for my own use (nuts, berries, wood etc.)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
It would increase wildlife habitat and biodiversity.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
It would attract unwanted wildlife.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
It would improve soil health and provide erosion control.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
It would mitigate chemical drift (pesticides, herbicides, fertilizer).	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
It would be financially profitable.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
It would be expensive to plant and care for.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other benefits or concerns <b>Please specify:</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

*In regards to the pasture planted with nut producing trees...*

	Yes	No	Unsure
I am interested in planting this design on my farm.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
I would plant this design if I received conservation funding	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
I would plant this design if I received technical assistance.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

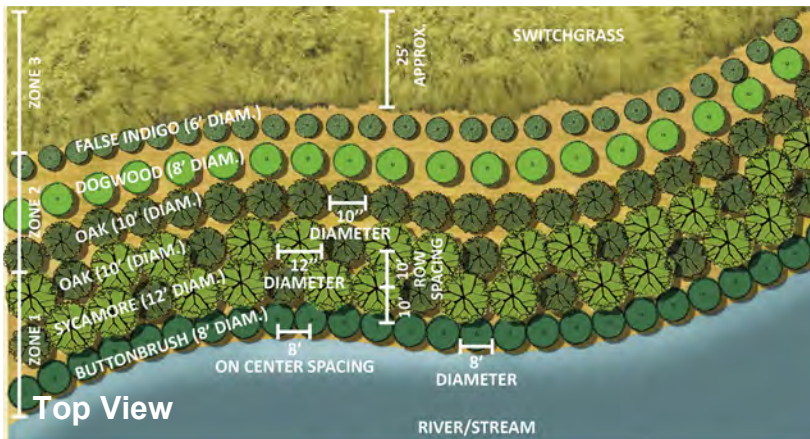


**2.5 Riparian Areas** Below are several planting plans and images of stream areas. Indicate the desirability of the scenes in these images considering that plant varieties and spacing can be changed to fit land management goals.



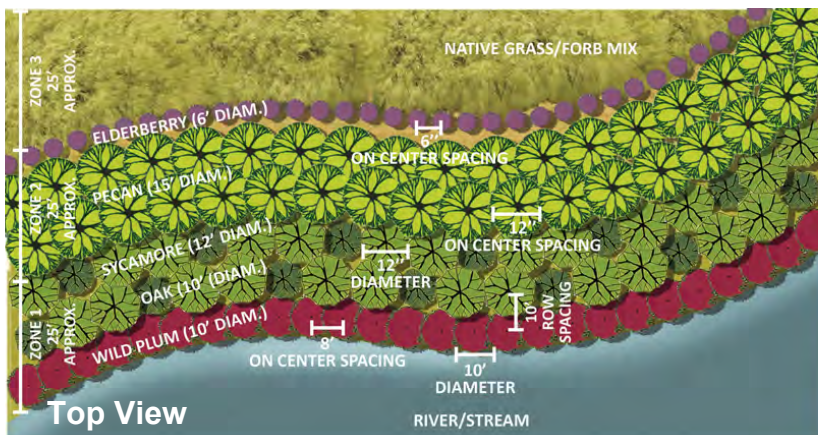
How desirable is the above image of a grass filter strip?

Very Undesirable	Undesirable	Neutral	Desirable	Very Desirable
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>



How desirable is the above image of a riparian forest buffer?

Very Undesirable	Undesirable	Neutral	Desirable	Very Desirable
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

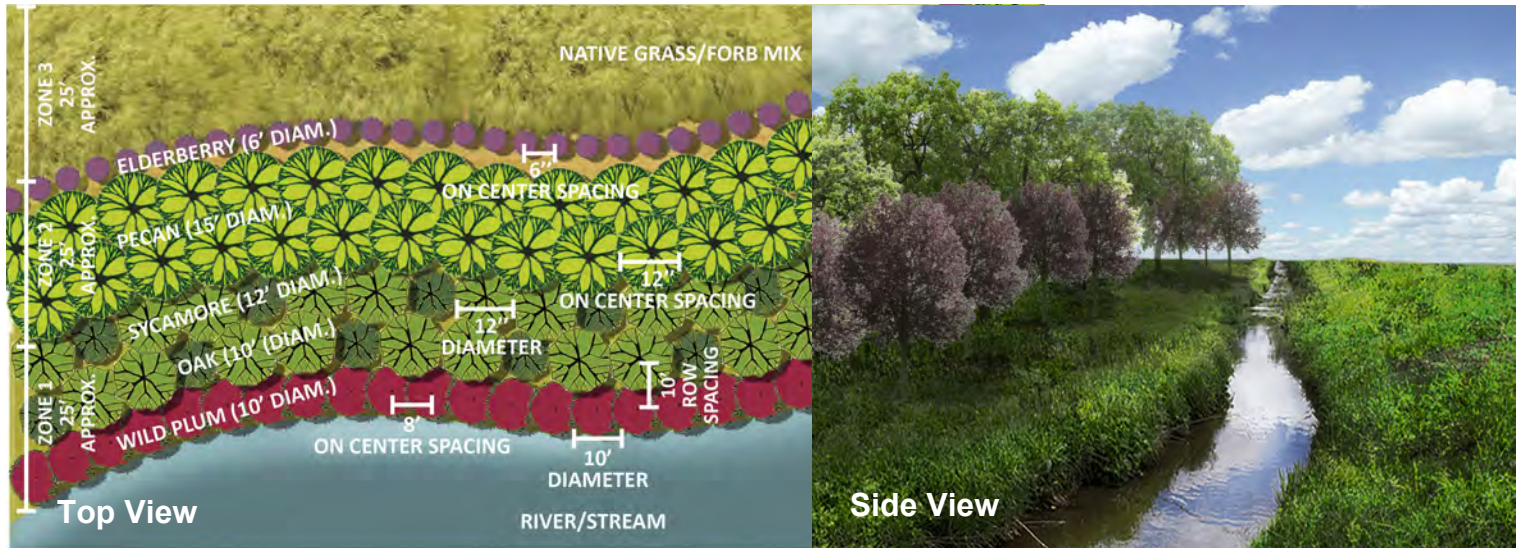


How desirable is the above image of a riparian forest buffer with edible fruit and nut species?

Very Undesirable	Undesirable	Neutral	Desirable	Very Desirable
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>



**2.6 Riparian Buffer with Edible Species** Below are more detailed questions about the same design you rated on the previous page.



Indicate to what level you agree or disagree with the following statements regarding the above planting plan of a riparian forest buffer with edible fruit and nut species. *Reminder - this design could be adjusted to your preferences.*

	Strongly Disagree	Disagree	Unsure	Agree	Strongly Agree
It would be a productive use of land.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
It would be difficult to manage.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
It would provide conservation of natural resources (soil, water, etc.)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
It would provide recreational opportunities (hunting, hiking, photography etc.)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
It would provide products for my own use (nuts, berries, wood etc.)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
It would increase wildlife habitat and biodiversity.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
It would attract unwanted wildlife.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
It would improve soil health and provide erosion control.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
It would mitigate chemical drift (pesticides, herbicides, fertilizer).	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
It would be financially profitable.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
It would be expensive to plant and care for.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other benefits or concerns <b>Please specify:</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

*In regards to the riparian forest buffer planted with edible fruit and nut species...*

	Yes	No	Unsure
I am interested in planting this design on my farm.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
I would plant this design if I received conservation funding	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
I would plant this design if I received technical assistance.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

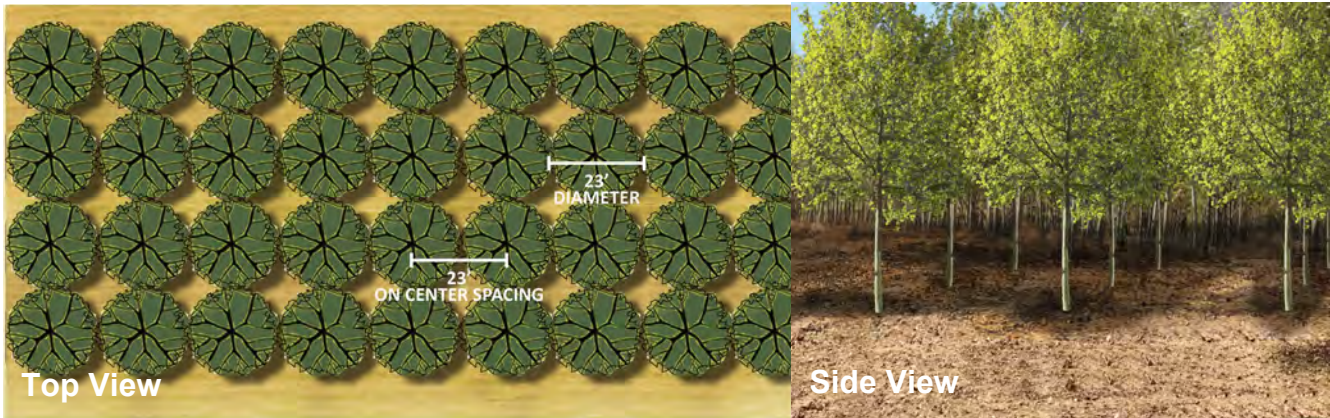


**2.7 Forest** Below are several planting plans and images of forests. Indicate the desirability of the scenes in these images considering that plant varieties and spacing can be changed to fit land management goals.



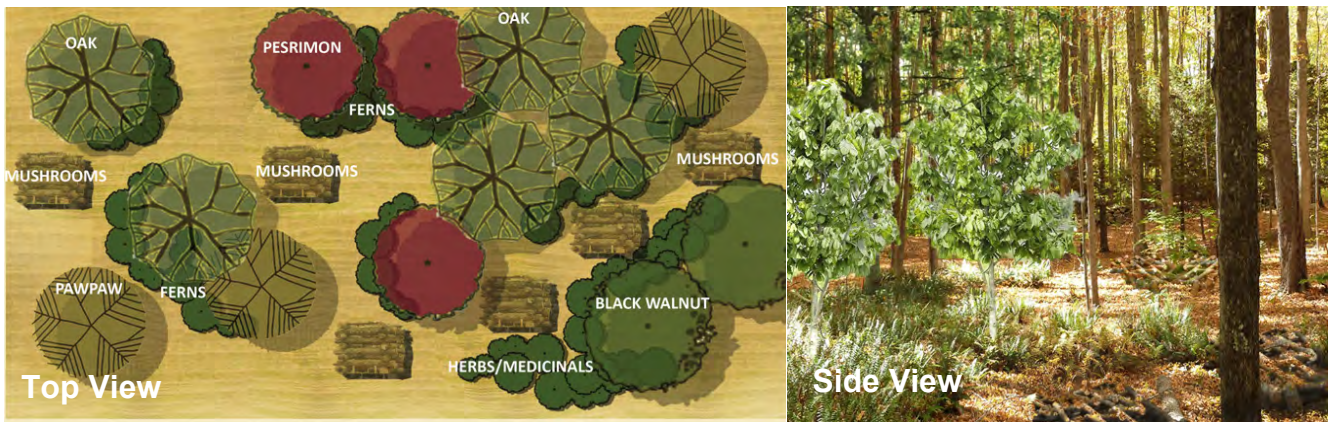
How desirable is the above image of an unmanaged forest?

Very Undesirable	Undesirable	Neutral	Desirable	Very Desirable
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>



How desirable is the above image of a hardwood timber stand?

Very Undesirable	Undesirable	Neutral	Desirable	Very Desirable
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

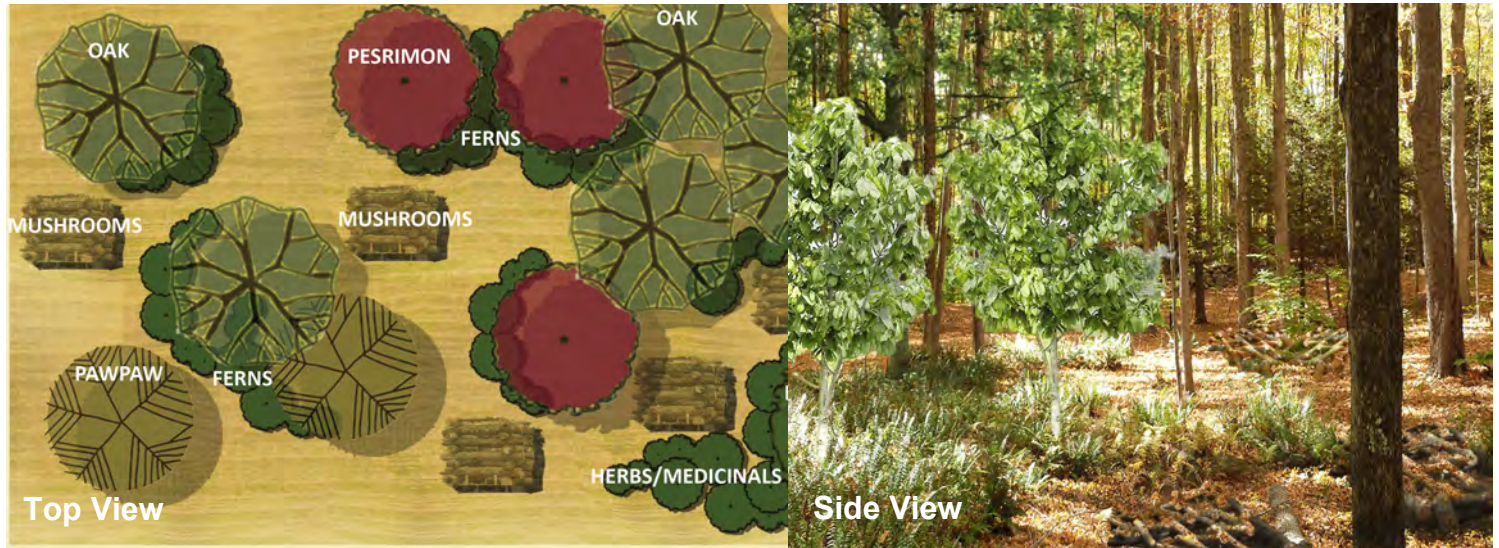


How desirable is the above image of a forest farm?

Very Undesirable	Undesirable	Neutral	Desirable	Very Desirable
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>



## 2.8 Forest Farming *Below are more detailed questions about the same design you rated on the previous page.*



Indicate to what level you agree or disagree with the following statements regarding the above planting plan of a forest farm. *Reminder - this design could be adjusted to your preferences.*

	Strongly Disagree	Disagree	Unsure	Agree	Strongly Agree
It would be a productive use of land.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
It would be difficult to manage.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
It would provide conservation of natural resources (soil, water, etc.)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
It would provide recreational opportunities (hunting, hiking, photography etc.)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
It would provide products for my own use (nuts, berries, wood etc.)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
It would increase wildlife habitat and biodiversity.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
It would attract unwanted wildlife.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
It would improve soil health and provide erosion control.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
It would mitigate chemical drift (pesticides, herbicides, fertilizer).	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
It would be financially profitable.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
It would be expensive to plant and care for.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other benefits or concerns <b>Please specify:</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

*In regards to a forest farm planted with edible fruit and nut species....*

	Yes	No	Unsure
I am interested in planting this design on my farm.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
I would plant this design if I received conservation funding	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
I would plant this design if I received technical assistance.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>



### Part 3: Land Characteristics and Management Practices on Your Farm

3.1 During 2020, what was the total number of acres under each land use  
(uses may overlap, acres do not have to add up to total owned)

- 3.1a Harvested cropland (Include annual row crops).....
- 3.1b Abandoned/failed cropland (Crops planted but not harvested)
- 3.1c Fallow cropland (Fields left unplanted).....
- 3.1d Idle cropland (Field planted with cover crops).....
- 3.1e Permanent pasture or rangeland .....
- 3.1f Wooded pasture (Land used as pasture with tree cover).....
- 3.1g Non-pastured woodland (Woodlots, maple trees/sugarbush)..
- 3.1h Orchard crop (Fruit, nut) .....
- 3.1i Enrolled in a conservation program (Such as CRP or EQIP) ...

Mark "x"  
if none

Mark "x" if none	Number of Acres

3.2 Did you use any of the following land management practices during the year 2020? (Check all that apply)

- ☐ Conventional tillage (Any tillage or seeding system that maintains less than 15% residue cover on the soil surface after planting).
- ☐ Conservation tillage (Any tillage or seeding system that maintains a minimum of 30% residue cover on the soil surface after planting to reduce soil erosion).
- ☐ Cover cropping (Grasses, legumes, and forbs planted for seasonal vegetative cover to reduce erosion, manage pests, and maintain soil fertility).
- ☐ Organic practices (A set of cultural, biological, and mechanical practices that support the cycling of on-farm resources, promote ecological balance, and conserve biodiversity).
- ☐ Timber/forest management (Planting trees, thinning, or harvesting to improve forest stands for timber, forest health, and/or wildlife habitat).
- ☐ Under land-use restricted easement [Including the Conservation Reserve Program (CRP), Wetlands Reserve Program (WRP), Farmable Wetlands Program (FWP), or Conservation Reserve Enhancement Program (CREP)].
- ☐ Agroforestry (The intentional integration and management of trees in an agricultural system with crops and/or livestock).

➔ You checked agroforestry. Which of the following practices did you use in 2020? (*Select all used*)

- ☐ Silvopasture – grazing livestock among trees in a highly managed system to maximize production of forage, tree products such as timber or nuts, and livestock
- ☐ Alley Cropping – growing a crop between rows of managed trees
- ☐ Forest Farming – managing a forest stand for products such as mushrooms, herbs, and honey
- ☐ Riparian Forest Buffers – plantings of trees and/or shrubs within the riparian zone of a stream that are managed to reduce bank erosion and improve water quality
- ☐ Windbreaks – rows of tree plantings managed to reduce soil erosion from wind, protect livestock, and improve building energy efficiency
- ☐ Other Woody Crop Establishment - planting of other food producing tree or shrub crops

3.3 What conservation programs, if any, were you enrolled in during the year 2020?

3.3a Conservation reserve program (CRP)

3.3b Environmental Quality Incentives Program (EQIP)

3.3c Conservation Stewardship Program (CSP)

3.3d Other (*Please list*) \_\_\_\_\_

Mark "x"  
if none

	Number of Acres
<input type="checkbox"/>	
<input type="checkbox"/>	
<input type="checkbox"/>	
<input type="checkbox"/>	

3.4 Why did/didn't you choose to enroll in a conservation program?

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3.5 Are you interested in participating in a conservation program in the future?

☐ No

➔ If no, explain the reasons why you would not want to participate.

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☐ Yes

➔ If yes, explain the reasons why you want to participate.

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## Part 5: Demographic Information

5.1 What is your gender identity?

- ☐ Male
- ☐ Female
- ☐ Non-binary
- ☐ Prefer not to say

5.2 What is your age? \_\_\_\_\_ years

5.3 Racial identity: *Please select all that apply*

- ☐ White
- ☐ Black or African American
- ☐ Hispanic, Latino, or Spanish
- ☐ American Indian or Alaska Native
- ☐ Asian
- ☐ Native Hawaiian or Pacific Islander

5.4 What is the highest level of education you have received?

- ☐ No schooling
- ☐ Some high school
- ☐ High school graduate (or equivalent)
- ☐ Trade or vocational degree
- ☐ Some college ( 1-4 years, associate degree)
- ☐ Bachelor (BA, BS, AB)
- ☐ Masters & higher (MS, MA, MD, JD, PhD, EdD)

5.5 Did farming make up the majority (50% or more) of your worktime in 2020?

- ☐ Yes
- ☐ No

➡ If no, please specify primary occupation \_\_\_\_\_

5.6 What is your approximate net income from your farming operation?

- ☐ Net loss/no income
- ☐ <\$1,000
- ☐ \$1,000 to \$19,999
- ☐ \$20,000 to \$39,999
- ☐ \$40,000 to \$69,999
- ☐ \$70,000 to \$99,000
- ☐ \$100,000 or more



Thank you for your response!

The information you shared will help guide future education and outreach programs with the goal to design planting systems and conservation practices that promote the sustainability and profitability of Missouri farms.



Center for Agroforestry  
University of Missouri



If you would like to participate in the drawing for the gift cards and/or receive more information about this research and related projects, please indicate so below. Your contact information will not be distributed to third parties or included in additional research without your consent.

**Contact Information (optional, include to join drawing for gift card and/or receive more info)**

Name: \_\_\_\_\_

Address: \_\_\_\_\_

Email: \_\_\_\_\_

Phone: \_\_\_\_\_

☐ Check box if you are interested in working further with us on multifunctional perennial cropping systems in Missouri.

4.3 Please share any additional comments you have concerning this survey or its contents.

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