Table S3. PES survey with landowners

Section 1:

Preamble 1

We are conducting a study on tree planting efforts in Lebanon. In this phase of our study, we are conducting land-use surveys to know more about tree planting taking place on private lands.

1)	Have you done any tree planting (of any kind) on your property? $[Y]/[N] - (If no, jump to Q7) - if yes, then:$				
	a) When did you last plant trees (EA to write year & season):/				
	b) Where have you planted these trees (EA to tick below and note the exact plot referred if there are many):				
	i) $\Box \Box$ In cultivated farmlands, e.g. terraced orchards (fruit, olive, stone pine)				
	(1) □ □ Intermixed with crops				
	(2) □ □ Along borders/margins				
	(3) □ □ As woodlots (small batches)				
	ii) □□In previously abandoned farmlands				
	iii) $\Box \Box$ In range/scrublands, e.g. <i>jurd</i> or rocky slopes/outcrops				
	iv) □□In forests or woodlands, e.g. recently burned				
	v) □□Along roadsides				
	vi) Near residence				
	vii) Other:				

c) What kinds of trees did you plant, their approximate numbers, and approximate coverage (such as % of area) – see plot map in appendix:

Table of tree species – trees planted				
Q1c		Species	Numbers	Coverage (%)
	1	Apple		
	2	Citrus		
Fruit	3	Stone fruits		
Tuit	4	Avocado		
	5	Pomegranate		
	6	Other:		
	7	Stone pine		
	8	Walnut		
Nut	9	Almond		
	10	Chestnut		
	11	Other:		
Oil/fruit	12	Olive		
Forest	13	Cedar		

		16	Oak			
		17	Fir			
		18	Melia			
		19	Eucalyptus			
		20	Other:			
						•
2)	Did y	ou f	ace any problems with the planting of	or management	of the trees? [Y]/[N] –	if yes, please
	expla	in (E	EA to tick any that apply):			
	a) [$\Box D$	ifficulty in planting, e.g. rocky soils			
	b) [$\Box D$	ifficulty in getting seedlings			
	c) [$\Box D$	ifficulty in watering			
	d) [□Po	oor survival due to pests, drought, po	oor seedlings, et	te	
	e) (ther	:			
2.	***			0 10 FX72/FX72 =		4
3)		-	u say that your efforts were success:	ul? [Y]/[N] - P	lease explain (EA to ti	ck any that apply
			etails)			
	a) L	□H	igh survival (%):			
	b) [□Н	igh yield (e.g. fruit/nuts):			
	c) [□H	igh growth rate:			
	d) (ther	:			
4)	-	-	you plant these trees?			
			Tarket the products, i.e. income			
			elf-consumption, including wood pro	oducts		
			rosion control			
	/		indbreak			
	-		andscape beauty			
			ealthy environment, e.g. clean air			
	•		ikes to plant trees			
	h) C	ther	:			
5)	Did x	O11 0	get support or services from somewh	ere to help you	nlant these trees either	r organizations or
3)	-	_	ls? [Y]/[N] – if so, please provide de		plant mese trees, erme	organizations or
			gricultural coop:			
	b) [$\Box \mathbf{N}$	IOA:			
	c) [ΙΠΝ	IOA: GOs:			
	,		gricultural expert:			
	e) [$\Box M$	Iunicipality			
	-		amily members			
			ommunity			
	•		:			
	/					

Cypress Poplar

6)	Do you have plans to do any more of this or any other kind of tree planting? [Y]/[N]/[Not sure] – (if
	no, jump to Q7) – if yes, then:
	a) Where would you plant more trees?
	i) □□In cultivated farmlands, e.g. terraced orchards (fruit, olive, stone pine)
	(1) □ □ Intermixed with crops
	(2) □ □ Along borders/margins
	(3) □ □ As woodlots (small batches)
	ii) □□In previously abandoned farmlands
	iii) $\Box \Box$ In range/scrublands, e.g. <i>jurd</i> or rocky slopes/outcrops
	iv) □□In forests or woodlands, e.g. recently burned
	v) 🗆 🗆 Along roadsides
	vi) □ □ Near residence
	vii) Other:

b) What kinds of trees would you like to plant, how many of each and how much coverage [refer to map of original planting to determine which plot(s)]:

	Table of tree species – trees to be planted				
Q6b		Species	Numbers	Coverage (%)	
	1	Apple			
	2	Citrus			
Fruit	3	Stone fruits			
Fluit	4	Avocado			
	5	Pomegranate			
	6	Other:			
	7	Stone pine			
	8	Walnut			
Nut	9	Almond			
	10	Chestnut			
	11	Other:			
Oil/fruit	12	Olive			
	13	Cedar			
	14	Cypress			
	15	Poplar			
Forest	16	Oak			
Potest	17	Fir			
	18	Melia			
	19	Eucalyptus			
	20	Other:			

	20	Other:		
c) H	low a	are you planning on doing this:		
. –				
i)		Myself / on my own cost (time/labour)		
ii)		Hiring someone		
Supp	leme	ntary table to the article "Asset-building po	ayments for eco	osystem

	ii	i) \Box Help from 3 rd party (e.g. NGO, MOA, etc)
		(1) Details:
	i	v) Other:
7)	If y	ou don't plan on planting trees either now or in the future, what is the reason for this:
	a)	☐ ☐ Lack of know-how
	b)	□ □ Lack of interest
	c)	□ □ Cost/effort – inputs, labour, etc (i.e. direct costs)
	d)	☐ ☐ Age (too old to take care of land; no interest from children/family members)
	e)	☐ Availability of suitable land
	f)	☐ Prefer to use the land for other uses (i.e. opportunity costs)
	g)	☐ Availability of seedlings
	h)	☐ ☐ Concerns about success/risk of failure
	i)	Other:

Section 2

Preamble 2:

We would like to present a set of hypothetical scenarios in which external organisations interested in conserving biodiversity would help landowners willing to plant native trees on their land. Here is a list of species we've identified along with some photos of the trees and shrubs.

Scenario 1:

Let's imagine that you are given seedlings and technical advice free of charge. In addition, you were offered money to cover the costs of planting and managing seedlings in the form of an **interest-free loan**. The loan repayments would be annual over a period of 5 years. However, the repayments would be cancelled if the survival rate is over 80% each year from the initial planting. Hence, survival rates below 80% would reduce the cancellation proportionally and you would pay only for those seedlings which don't survive. Or in other words, if you had 65% survival, your repayment would be 35%.

If the project collapses for some reason, debts would be cancelled. Your role would be to plant and manage the seedlings given to you to ensure survival.

8)	Would you	be interested	in such a s	cheme? [`	Y]/[N]-(1	if no, jump	to Q9) – 1	f yes, then:

a)	Where would you plant the seedlings:
i)	☐ ☐ In cultivated farmlands, e.g. terraced orchards (fruit, olive, stone pine)
	(1) □ □ Intermixed with crops
	(2) □ □ Along borders/margins
	(3) □ □ As woodlots (small batches)
ii) □□In previously abandoned farmlands
iii	i) $\Box \Box$ In range/scrublands, e.g. <i>jurd</i> or rocky slopes/outcrops
iv	$(r) \square \square$ In forests or woodlands, e.g. recently burned
\mathbf{v}) □□Along roadsides

	vii) Other:
	b) How much land would you plant? (approx area): units:
	c) What % of this area would you plant (or # of seedlings per 100 m²):
	 d) Would this scheme change the existing planting plans you have (if applicable – refer to Sect. 1) [Y]/[N]/[maybe] i) Explain:
	e) What would you see as the main benefits of this scheme? i) Explain:
9)	If you wouldn't be interested in such as scheme, please explain why (open-ended and coded): a) □□Don't trust these kinds of schemes b) □□Don't like taking on debt
	c) $\Box \Box Age$ (don't like taking on debt which might be passed onto next generation)
	d) □ Other land uses still more attractive (thus indicating would need payments)
	e) \square Worried about losing tenure / not being allowed to clear land
	 f) □ Get better assistance (i.e. free seedlings etc) from other NGOs or gov't (probe to specify organisation and scheme, what species): i) Details:
	g) □ □ Don't like these species – would prefer others h) Other:
Sce	nario 2
giv wo	w, let's imagine that you are given seedlings and technical advice free of charge. In addition, you are in money to pay for labour in planting and managing the trees in the form of a grant or gift . In othe ds, you would receive the same assistance as the previous scenario, but it would be free with no syments from you.
10)	Would you be interested in such a scheme? [Y]/[N] – (if no, jump to Q11) – If yes, then:
	a) Where would you plant the seedlings:
	i) \Box In cultivated farmlands, e.g. terraced orchards (fruit, olive, stone pine)
	(1) □ □ Intermixed with crops
	(2) Along borders/margins
	(3) □ □ As woodlots (small batches)
	ii) □□In previously abandoned farmlands
	iii) $\Box \Box$ In range/scrublands, e.g. <i>jurd</i> or rocky slopes/outcrops
	iv) □ □ In forests or woodlands, e.g. recently burned
	v) □□Along roadsides
	vi) □□Near residence

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V	/ii) Other:
b)	How much land would you plant? (approx area): units:
c)	What % of this area would you plant (or # of seedlings per 100 m²):
d)	Would this scheme change the existing planting plans you have (if applicable – refer to Sect. 1) [Y]/[N]/[maybe] Explain:
	What would you see as the main benefits of this scheme? Explain:
a) b) c) d) e) f)	wou wouldn't be interested in such as scheme, please explain why (open-ended and coded): Don't trust these kinds of schemes Don't believe that receiving money for free (w/o conditions) would motivate me Age (don't have the physical capacity to take on such responsibilities) Other land uses still more attractive (thus indicating would need payments) Worried about losing tenure / not being allowed to clear land Get better assistance (i.e. free seedlings etc) from other NGOs or govt (probe to specify organisation and scheme, what species):
g)	Details: Don't like these species – would prefer others Other:
Scenar	io 3
direct c would i more pa year ov paymer	scenario, you would be given seedlings and technical assistance for free, money to pay for the full costs of planting (but not income foregone), <i>and</i> annual payments based on survival rates. You receive 10,000 LL (or about \$7) per seedling planted in the first year, so the more you plant, the ayments you receive. Additional payments (around 5,000 LL per seedling) would be made each ter a period of 5 years that are based on % survival (for example, 65% survival = 65% of the nt), but if it's less than 25%, there is no payment. Annual payment rates are also based on difficulty in being and the number of different native species being planted.
12) Wo	ould you be interested in such a scheme? [Y]/[N] – (if no, jump to Q13) – If yes, then:
i	Where would you plant the seedlings: □ □ In cultivated farmlands, e.g. terraced orchards (fruit, olive, stone pine) (1) □ □ Intermixed with crops (2) □ □ Along borders/margins (3) □ □ As woodlots (small batches) (a) □ □ In previously abandoned farmlands

iii) $\Box\Box$ In range/scrublands, e.g. *jurd* or rocky slopes/outcrops

iv) □□In forests or woodlands, e.g. recently burned

	7) $\Box \Box Along roadsides$
•	vi) □□Near residence
,	vii) Other:
h)	How much land would you plant? (approx area): units:
U)	Trow much fand would you plant: (approx area) units
c)	What % of this area would you plant (or # of seedlings per 100 m²):
d)	Would this scheme change the existing planting plans you have (if applicable – refer to Sect. 1) [Y]/[N]/[maybe] Explain:
	What would you see as the main benefits of this scheme? Explain:
a)	you wouldn't be interested in such as scheme, please explain why (open-ended and coded): □□Don't trust these kinds of schemes / not interested
	□ □ Don't like taking on debt / these kinds of responsibilities
	□□Age (don't like taking on debt which might be passed onto next generation)
d)	☐ Other land uses still more attractive (thus indicating would need payments)
e)	□ Worried about losing tenure / not being allowed to clear land
f)	☐ Get better assistance (i.e. free seedlings, etc) from other NGOs or gov't (probe to specify
	organisation and scheme, what species):
	Details:
	□ Don't like these species – would prefer others
n)	Other:
Sectio	on 3 – future plans and challenges
Pream	ble 3:
We un	derstand that circumstances change and that you might want to do other things with the plot of land
that yo	u planted (assuming they expressed interest in a least one scenario?). Regarding this:
	nat are some of the possible land-use changes you would foresee in the future on these specific
plo	ts of land that you might consider planting native trees on:
a)	
b)	□ □ Changing crops
c)	☐ Stopping cultivation
d)	□ □ Raising livestock
e)	☐ Passing land onto children / family members
f)	
g)	□ Selling the land

h) Other:____

15) In the long run (following the project), what factors would determine whether you would maintain the
trees on the land once they were planted (open ended question, coded by interviewer)?
a) \Box Land prices for development, e.g. value of land increasing
b) ☐ Agricultural product prices – i.e. competing land uses
c) \square Biodiversity – intrinsic value motivations
d) □ Environmental benefits – e.g. erosion control, windbreaks, etc
e) Amenity/aesthetic benefits – increase landscape beauty
f) □ Passing on land to descendents
g) □ Other decision makers (family members, etc)
h) \square Whether the NGO (other any other 3 rd party) maintained its interest
i) □ Opinion of neighbours, community, etc
j) Other:
If yes to one or more of the options above:
16) What other incentives would encourage you to plant more of your land with forest trees?
a) □ Financial support, e.g. longer term payments
b) Technical support, e.g. consulting
c) \square Market support, e.g. access to market
d) □ Help with infrastructure, e.g. roads, irrigation, etc
e) Other:
conditional on survival [Y]/[N] a) Explain: -
18) In your opinion, how do you think planting of forest trees on private land should be encouraged by organisations interested in native biodiversity?a) Explain:
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Section 4 – Basic info on landowner
19) Participant ID # (internal):
20) Year of birth:
21) Sex: [M] / [F]
22) Married: [Y] / [N] – Other (optional, only if mentioned):
23) Number of household members:
24) Amount of time spent in village (near plot of land being surveyed/studied):
a) Permanent/year round []
b) Weekends and holidays only []
c) Summer only []
d) Rarely – non-resident []
25) Residency details (near plot of land being surveyed/studied):

		9/10
a)	Family house, i.e. reside with parents, siblings, in-laws, etc []	
b)	Own residence []	
c)	Rental []	
26) Hov	w much non-residential land do you own? (approximate m²):	
a)	Is this property contiguous? [Y]/[N]	
27) Occ	cupation:	
a)	Full-time farmer []	
b)	Part-time farmer, e.g. hobby []	
c)	Subsistence []	
d)	Employee (private sector) []	
e)	Employee (public sector) []	
	Self-employed/entrepreneur; freelancer []	
i)	Details:	
28) Edu	acation (highest level):	
a)	Primary/école primaire []	
b)	Secondary/lycée []	
c)	Baccalaureate []	
d)	Technical school []	
e)	University []	
f)	Other:	
Sectio	n 5 – General topographical info:	
A.	Date of survey:	
	IPA #:	
	1. Corridor (between IPAs): [Y] / [N]	
C.	District:	
D.	Village:	
E.	Elevation (range):	
F.	Cadastral maps available: [Y]/[N]	
G.	Main water source (name), e.g. spring, river, well:	
Н.	GPS coordinates (plot):	

1. GIS maps of plot available: [Y]/[N]

Plot 1 – Name:		Plot 2 – Name:	
Plot 3 – Name:		Plot 4 – Name:	
Plot 5 – Name:		Plot 6 – Name:	
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