



Food and Forest

Showcasing Agroforestry Farming



foodandforest.co.uk

Alley Cropping



Benefits



3-Point Alley Cropping Incentive Package

1. A specific, one-off, alley cropping grant
2. A forward contract for nut purchase
3. An equity release system to liquify the timber value before harvest.



Dimensions	Create new woodland	Create new woodland to improve water quality or reduce flood risk	Restock after a tree health issue
Minimum agreement size	3ha	1ha	0.25ha
Minimum block size	0.5ha	0.1ha	0.1ha
Minimum width	20m	10m	20m
Minimum stocking density	400 stems per ha (sph)	1,600sph	400sph
Maximum internal open space	20%	20%	20%
Maximum individual glade area (after canopy closure)	0.5ha	0.5ha	0.5ha
Maximum linear open space width (after canopy closure)	20m	20m	



Forward Contract



Equity Release System



Alley Cropping Grant Proposal

Ecosystem Services Approach - “public money for public good”

35 tonnes of carbon sequestered per hectare per year (Palma et al, 2007)

Social Cost of Carbon 2019 - central scenario = £13.15 per tonne

$35 \times 13.15 = £460.25$

Social Cost of Carbon 2020 - central scenario = £13.84 per tonne

$35 \times 13.84 = £484.40$

Social Cost of Carbon 2021 - central scenario = £20.54

$35 \times 20.54 = £718.90$

Total = £1663.55 total

References:

Palma et al, 2007 - Modelling environmental benefits of silvoarable agroforestry in Europe. Agriculture, Ecosystems and Environment 119: 320-334

Updated Short-Term Traded Carbon Values Used for UK public policy appraisal - accessed 09.07.19

https://assets.publishing.service.gov.uk/government/uploads/system/uploads/attachment_data/file/794186/2018-short-term-traded-carbon-values-for-appraisal-purposes.pdf

Results from Phase 1 - Jan 19

- All 30 proposals approach the topic at a landscape scale, intending to link land owners in a approach.
- Use of a reverse auction method trialled by Wessex Water for reductions in Nitrogen run off.

<http://green.brightblue.org.uk/blog/2017/12/8/paying-for-itself-using-reverse-auctions-for-environmental-improvement>