



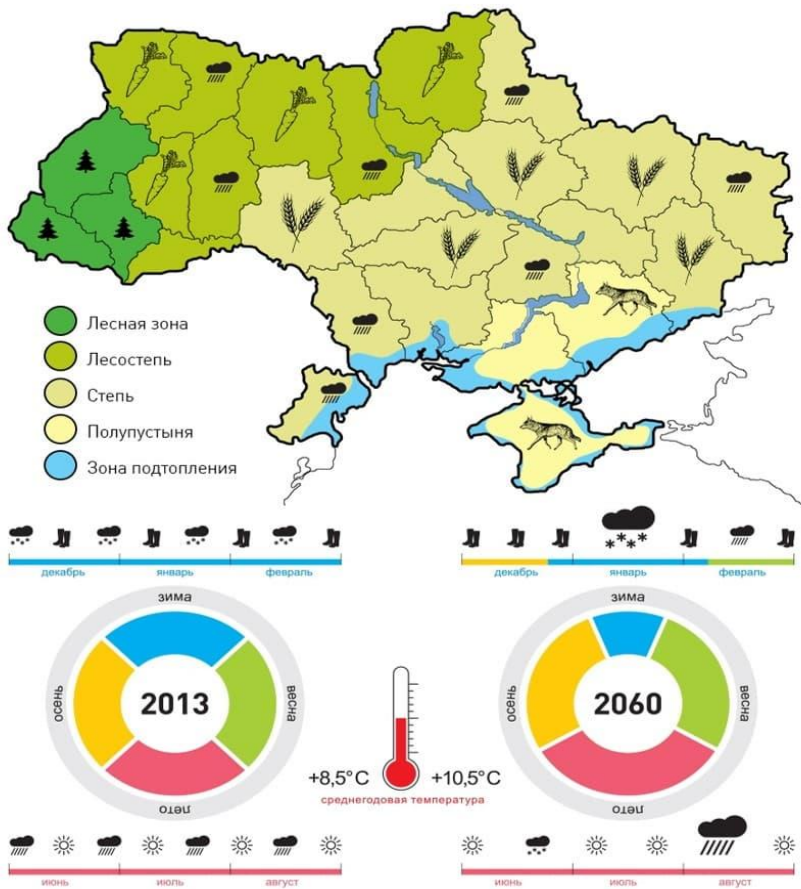
UKRAINE

AGROFORESTRY AND NWFPS



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FOREST MELIORATION NAMED AFTER G. M. VYSOTSKY,
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GCP/UKR/004/GFF: INTEGRATED NATURAL RESOURCES MANAGEMENT IN DEGRADED LANDSCAPES IN THE FOREST-STEPPE AND STEPPE ZONES OF UKRAINE

- ✓ Recommendations for the national users about the parameters of selection and adaptation of international agroforestry practices in terms of sustainability of local environmental systems
- ✓ The Guideline on plant species selection for shelterbelts reconstruction in Ukraine
- ✓ The recommendations for the developing the incentive mechanisms (such as a PES) to stimulate the agroforestry practices dissemination

- ✓ The consultations with key stakeholders on effective shelterbelt management
- ✓ 5 theoretical and 4 practical trainings
- ✓ 1152 beneficiaries participated in the webinars and over 100 beneficiaries were engaged in practical work

- ✓ Rules for maintenance and preservation of shelterbelts located on agricultural lands (approved by the Cabinet of Ministers of Ukraine)
- ✓ Procedure for the use of funds provided in the state budget to support agricultural producers who maintain and preserve shelterbelts located on agricultural lands (At present, this draft legislation is subject to a process of approval with all interested ministries and voluntary associations).

EXPERIENCE OF UKRAINE



SHELTERBELT DESIGN



Shelterbelt design	Additional crop production (%)
Dense (Without gaps throughout the body of the shelterbelt)	20 – 23
Open (Moderate number of gaps throughout the body of shelterbelt)	23 – 36
Thinly planted (A lot of gaps between trunks and no gaps in the canopy)	22 – 33

+ \$130

+ \$200

+ \$180

TREES AND SHRUBS RECOMMENDED FOR PLANTING IN FIELD SHELTERBELTS IN DIFFERENT AGROCLIMATIC ZONES IN UKRAINE



Quercus robur,
Betula pendula,
Gleditsia
triacarthus, Juglans
nigra, Juglans regia,
Larix decidua, Pinus
pallasiana, Pinus
pallasiana, Pinus
sylvestris, Populus
balsamifera,
Populus deltoides,
Populus simonii,
Ulmus parvifolia



Acer campestre,
Acer platanoides,
Acer
pseudoplatanus,
Armeniaca
vulgaris, Sorbus
torminalis,
Carpinus betulus,
Cerasus avium,
Malus domestica,
Morus alba, Pirus
communis, Sorbus
aucuparia, Tilia
cordata



Acer tataricum,
Amelanchier
ovalis,
Chaenomeles
speciose, Corylus
avellana,
Cotoneaster
integerrimus,
Cotoneaster
lucida, Cottinus
cogygria,
Crataegus
laevigata,
Evonymus
verrucosa,

TREES AND SHRUBS FOR ADDITIONAL PRODUCTS

Products	Species
Wood	Oak, beech
Valuable wood	sycamore maple, black walnut, pecan tree, european bird cherry
Biomass	hybrid willow or poplar
Fruits	apple-tree, pear, cherry, apricot, quince, mulberry, serviceberry, dogwood, currant, chokeberry, sea buckthorn, elder, cornel
Nuts	Walnut, hazel
Honey plants	linden, amur corktree, maple, willow, raspberry, currant, peach, pear, apple-tree, cherry, bird cherry, quince, sea buckthorn, cinnamon rose, whitebeam, cotoneaster
Tree sap	Birch, maple

growing fruit trees and shrubs



Apricot,
sweet cherry



Apple, pear



Sea buckthorn,
elderberry, cornel



Currants,
viburnum,
chokeberry

cultivation of nut crops



Walnut



Cobnut

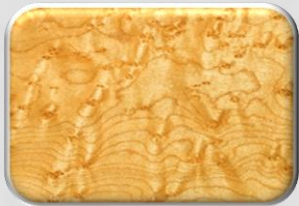


Pecan



Almond

walnutgrowing valuable wood species



Sycamore



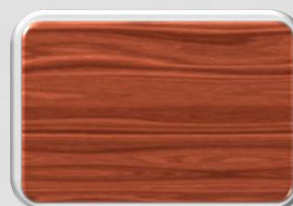
Black walnut

5000 \$



Pecan

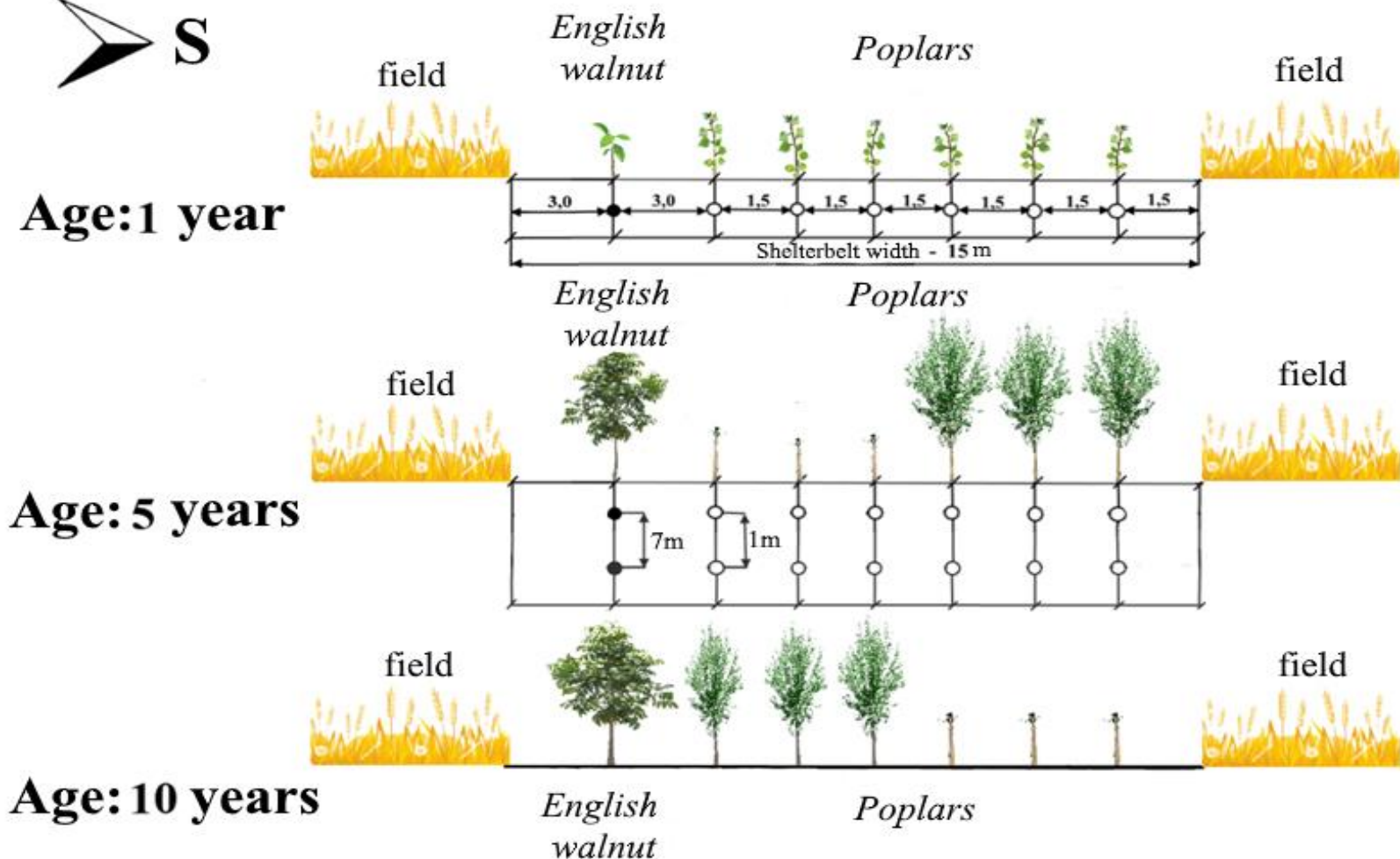
3000 \$

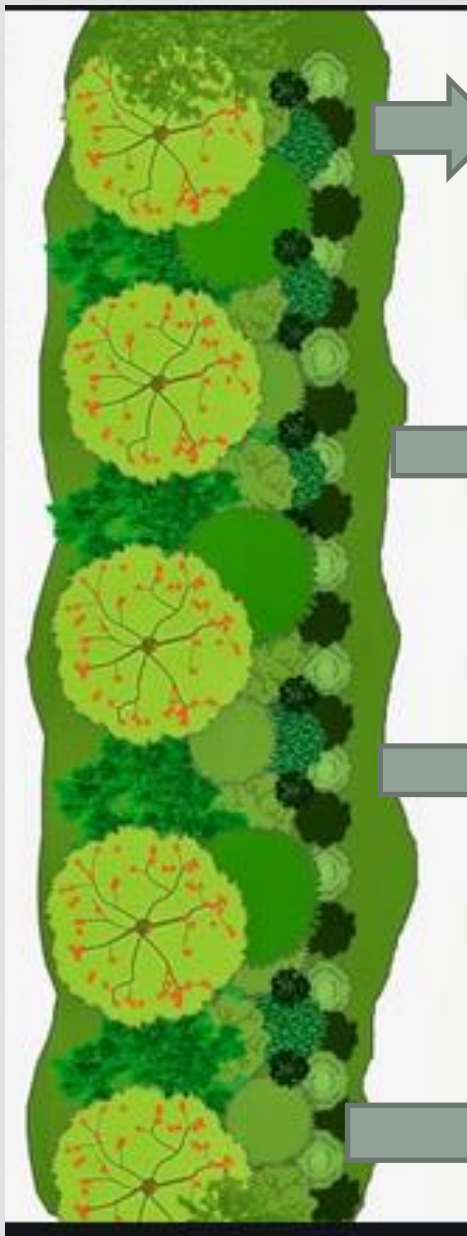


Sweet cherry

400 \$

MODEL OF ESTABLISHMENT AND EXPLOITING A POPLAR AND WALNUT FIELD SHELTERBELT





GROWING HONEY PLANTS



TREE SPECIES THAT CAN FORM MYCORRHIZA WITH FUNGI

Fungus	Forms mycorrhiza with plants
King bolete (<i>Boletus edulis</i>)	Pine, birch, oak, cobnut
Annulated boletus (<i>Suillus luteus</i>)	Pine, larch
Brown birch bolete (<i>Leccinum scabrum</i>)	Poplar, birch
Truffle (<i>Tuber magnatum</i>)	Oak, walnut, birch, poplar, linden, cobnut \wedge
Wild Shiitake Mushroom (<i>Lentinula edodes</i>)	Oak, beech, maple, linden
Hiratake (<i>Pleurotus ostreatus</i>)	Poplar, aspen, walnut, apple-tree, bird cherry, oak



CULTIVATION OF MEDICINAL PLANTS IN SPACE BETWEEN ROWS



CULTIVATION OF SPICE PLANTS IN SPACE BETWEEN ROWS



INVASIVE SPECIES



Robinia
pseudoacacia,
Quercus rubra



Acer negundo



Ailanthus altissima,
Elaeagnus
angustifolia

- How is agroforestry used in your country as an integration tool for the forestry and agriculture sectors?
- Non-wood forest products are an integral part of the society in your country. How are these products valued in the overall agri-food system?

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