

ECOSYSTEM



WHAT IS IT?

A farmland is an ecosystem because it is made of living and non-living things that interact and exchange energy.

IN ADDITION TO SUPPLYING US WITH FOOD, FODDER, AND FIBRE, FARMLAND ECOSYSTEMS

serve as important habitats for many wild plant and animal species, from bats and birds to beetles and worms.

THE FARMLAND ECOSYSTEM IS **DIFFERENT FROM A FOREST ECOSYSTEM**

because humans control many of the interactions among the things on the farm. This includes cropland, pasture, orchards, groves, vineyards, nurseries, ornamental horticultural areas, and confined feeding areas.



WHY IS IT IMPORTANT?

AGRICULTURAL BIODIVERSITY IS INDISPENSABLE

for plant stability, and therefore for sustaining crop production, food security and livelihoods for everyone





soil & water conservation



maintain soil fertility



maintain biota



pollination

PERFORMS ECOSYSTEM SERVICES TO SURVIVAL

HOW IS IT DEGRADED?



NITROGEN

POLLUTION Excessive use of fertilizer is polluting waterways and lowering soil quality while pesticides are harming wildlife and humans



INTENSIVE **PLOUGHING**

Leads to nutrient loss and soil erosion



MONOCULTURE (CULTIVATION OF A SINGLE CROP ON LARGE TRACTS OF LAND)

It destroys biodiversity and soil nutrients, uses excessive harmful chemicals to ensure its growth and contributes to soil degradation and erosion



OVERGRAZING

The acts of compaction and erosion as a result of overgrazing impair the land's future natural and agricultural productivity



REMOVAL OF HEDGES/TREES

Exposes land to rain and wind erosion

HOW BAD IS THE SITUATION?



By 2040, land degradation could result in





WHAT CAN BE DONE TO RESTORE IT?









ESTABLISH OR MAINTAIN WILDLIFE HABITATS

AND DIVERSE LAND COVER ON FARMS Year-round vegetative cover to protect soils and rainfall infiltration | Networks of connected wildlife corridors | Non-crop habitats such as hedges and beetle banks |

SUSTAINABLE FARMING **PRACTICES**

Reducing tillage and adopting natural fertilizers and pest control

Cover and refuge for pollinators

ROTATION OF CROPS

Growing more diverse crops, including trees, and integrating them with livestock-rearing can restore biodiversity and provide more nutritious diets

SUSTAINABLE USE OF CROP LAND

Alliances between farmers and animal herders allow use of cropland for livestock grazing in the interim period between two crop cycles

WHAT CAN MY ORGANIZATION DO?

DEVELOP RESPONSIBLE SOURCING GUIDELINES TO PROMOTE SUSTAINABLE AGRICULTURE PRACTICES





PROVIDE TRAINING AND OTHER **RESOURCES TO SMALLHOLDER FARMERS TO DEVELOP RESILIENT FOOD PRODUCTION SYSTEMS**

WHAT CAN I DO TO HELP?





produce

Buy local and reduce your carbon footprint



Learn about & advocate sustainable

framing practices



Pledge not to waste food & encourage your friends, family & neighbours to do the same