

Hedgerows (CPS 422)

Part of Fibershed's Carbon Farm Resource Guide, available on-line at: fibershed.org/resource-guide





Benefits of Hedgerows

- Increase carbon sequestration in soils and vegetation
- ► Increase surface water infiltration and groundwater recharge
- ▶ Improve and filter air and water quality
- ▶ Reduce erosion and chemical drift
- ► Increase plant diversity and forage opportunities
- ► Increase local and regional biodiversity
- ► Enhance pollen, nectar, and nesting habitat for pollinators
- ► Enhance integrated pest management by providing habitat for wildlife and beneficial insects
- ▶ Screen and provide barriers to wind and noise
- ▶ Establish living fences



Planning and Designing a Hedgerow

- ➤ Determine the primary function(s) of your hedgerow to guide design. For example, to support a windbreak, choose site to block prevailing winds; for a visual screen, select shrubs and trees with evergreen or dense growth habits.
- ► Hedgerows should be designed with regionally adapted plant palettes; choose plants compatible with the soil, water, wind and light conditions of your site.
 - Include multilayered perennial species and quick growing annual plants to fill gaps while hedgerow is young and becoming established.
 - Consider a mix of trees, shrubs, forbs, grasses and other herbaceous plants.
- ▶ Plant properties to select for can include natural dyes, medicinal (for both human and livestock), flowering time, propagation for seeds & cuttings, pollinators such as milkweed, and scent.
- ► Choose plants for the selected site and function, with desired height and width.
 - Select appropriate plants for sun exposure: Note plantings south and west facing will receive more sunlight overtime than plants facing north and east.
 - Hedgerows are a linear feature typically 10-20' wide, depending upon single or multi row installation.
 - Space plants with enough room to grow into their mature shape: 7-10 feet off center.
- ➤ Sourcing plants: Start plants from seed or purchase from a local nursery to plant directly into the ground. Contact your local RCD or Fibershed (<u>hello@fibershed.com</u>) for a list of local nurseries in your area.

"Agricultural land management practices can measurably increase rates of carbon sequestration, resulting in enhanced soil quality, soil water holding capacity, increased soil carbon and forage production." – Ryals and Silver 2013

