**Figure 7 Riparian Forest Buffer.**

**ROWS OF TREES**
Can be added to existing native trees for timber, nut, fuelwood, or fiber production

**NATIVE WOODLANDS**
Should be retained or restored

**GRASS**
Filters surface water and can be a forage crop

**CROPLAND**

**SHRUBS**
Provide variety in vegetation and may be grown for nurseries

**TRAP NUTRIENTS**
Riparian forests retain significant amounts of nutrients in runoff from agricultural fields.

**Annual Crop**

Surface flow

Sub-surface flow

Denitrification: $\text{NO}_3^- \rightarrow \text{N}_2 \text{Gas}$

$\text{O}_2$ released

Carbon stored in stems

Nitrogen & phosphorous uptake by tree roots