

## Permaculture Climate Strategy Application Guide

Legend

	TEMPERATE	ARID	TROPICAL
<b>Koppen Climate 1st Letter Designation</b> <i>(example: Csa)</i>	C, D	B, E	A
<b>Description</b>	<i>Longer cold winters, distinct seasons, midlatitudes</i>	<i>Excessive evaporation, summer monsoons</i>	<i>Summer rains, dryer winter, higher humidity, less seasonal changes</i>
<b>Soil Building</b>	Typical higher in nutrients, deep top soils and less brittle	Typically nutrient poor and brittle	Typically high in organic matter but nutrient poor, often less brittle
<b>Ecological Gardens</b>	Model after native forests, transitional forests provide high diversity of crops, very seasonal, use season extending straggles in colder areas	Possible, but focus on drought tolerant plant choices and water conserving techniques, use season extending straggles in colder areas	Often year round season, disease can become issues in wet soils
<b>Food Forest</b>	Very doable though focus on regional plants	Possible, but focus on drought tolerant plant choices and water conserving techniques	Can grow very easily in tropical climates
<b>Field Crops</b>	Tilling possible but not often, consider drought tolerant / dry farming	Possible, but focus on drought tolerant plant choices and water conserving techniques, don't till	Don't till, mix with agroforestry
<b>Fungi Farming</b>	Yes, though can be seasonal	Little water means decomposers like fungi are very seasonal	Plenty of moisture
<b>Agroforestry, Alley Cropping</b>	Appropriate	Little water means forests and large species like trees are hard to support	Appropriate
<b>Silvopasture</b>	Appropriate	Little water means forests and large species like trees are hard to support	Appropriate
<b>Dryland Pasture</b>	For temperate climates with long dry summers	Appropriate	Not necessary
<b>Earthworks / Water Harvesting</b>	Very appropriate! Mediterranean climates are more like arid climates in this aspect	Very appropriate, though seasonal.	Often not necessary as soils are waterlogged, dehydrating is usually needed instead
<b>Aquaculture / Aquaponics</b>	Water can be used as climate battery to help heat / cool structures like greenhouses	Needs to be shaded to prevent water temps from getting to high	More regulated temperatures are beneficial for aquaculture
<b>Animal Systems</b>	Large and small animals work well, see holistic management	Brittle environment, requires careful management of large animals.	Leverage mixed systems with forest and animals - ex: silvopasture
<b>Alternative Energy</b>	Subject to local factors: amount of sun, wind, water	Sunken into ground, thick earthen walls and well shaded	Subject to local factors: amount of sun, wind, water
<b>Housing / Natural Building</b>	Thick earthen walls, insulated and heated in winter with wood or solar	Thin walls, oriented for cross breeze and natural ventilation	Thin walls, oriented for cross breeze and natural ventilation

Most Appropriate
Somewhat Appropriate
Not Appropriate
N/A or It Depends....

*Note that many tools & strategies overlap usefulness between climates, sometimes strategies can be adapted and better suited for climates*