# WATERING – FACTORS

- Time of day / Day-night length.
- Temperature of water, relative to ambient soil ( not air ) temperature.
- Time of the year / Season / Sunlight – intensity / angle
- Shade – neighbouring crops / hedges / walls / trees (dripline)
- Weather – pattern / trend / prevalent type
- Frost – penetration / intensity / duration
- Wind – speed / direction North – Polar / Arctic / Cold
  West - Oceanic / Wet + East – Continental / Dry
  South - Mediterranean / Hot
- Humidity – Barometric pressure / trend – Highs / Lows / Fronts
- Rainfall – measure / estimate. Forms of precipitation.
- Duration / intensity of rain - Flash drains away / gradual soaks in
- Drought resistance / tolerance – e.g. perennials / established crops
- Clouds – patterns / cover – direction(s)
- Rainbows ($42^{o}$ / double / multiple)/ isothermic clouds
- Dew formation / frost-melt – dew-pools / soil sculpture – sufficient for germination / watering?
- Stage of crop development – requirements / rooting area – pattern of water use, peaks after flowering to fruiting
- Transpiration – Leaf area / permeability
- Water requirement of crop (Thirst) continuous - salads / watery / leafy
- Pampered Vs. Hard-grown – excessive / too often, plant expects and needs more – lazy root-system
- Stress – Fruiting / Aromatics response to stressing – techniques
- Mulching – depth / colour / water-retentive
- Soil - Humus content (sponge) / Bulky Organic Matter -
  - Structure / Worm activity – Nature / Mothersoil / Subsoil
  - (Loam – Clay / Sand / Silt) Depth of topsoil –
  Storage reservoir - Saturation / capacity – rate of shedding / run-off
- Drainage and aeration – Slope / Paths / Beds / Ridge & Furrow /
  - Ditches / Winterbournes
- Site – topography – valley / high ground / north- or south-facing
- Application method – Can / Rose / Bucket / Irrigation / Hose / Spray
- Planting patterns – Row / Bed / Individuals – Conservation / minimise
- Collection and Storage = more than maximum daily requirement
- Availability – Rainwater Vs. Tapwater