

# 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° / 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

**Learner Sig.**

**Date**

**Assessor Sig.**