

DROUGHT QUASSIA / SEAWEED

DURATION / INTENSITY / SEASON

HEAT / WIND / RELATIVE HUMIDITY

SITE – Water supply / Shelter-exposure / Slope N-S

SOIL / SUBSOIL – sand porous vacuums moisture / clays bake and split

ALLEVIATION

Early planting maximises chance of rainwater

Deep-drilling – wide scoop (water direct to seed/ling / microclimate decreases wind stress and evaporation / helps earthing up later)

Mulching – Light-reflective / Thick-retentive / Heavy-feeder

Materials – compost / soil / dust / card / weed / sawdust etc.

Interplanting / Companion Planting / Root symbiosis

Cover-crops / weed- cover / living mulches

Cultivations (timing) – Hoeing after cover before weeds set seed

Raised beds = Deep beds – increased depth/volume of improved soil
- increased land-tide / water table effects

Sufficient water for existing root volume - and dripline / feeder roots

More to encourage root extension / water microbial zone

(e.g. mycorrhizal association)

FLOOD

HORSETAIL (SILICA)/ QUARTZ

PROLONGED / INCESSANT / HEAVY / CONTINUOUS RAIN / MONSOON /
STORM / DOWNPOUR / the heavens open

Slug and Snail heaven – 30 Ft + in a night

Waterlogging / Anaerobic / Drowning - necrosis

Rank / Weak growth - large, dilute cells & pores / low mineral / oil content

Vulnerable to Fungal Rots / Moulds / Blight / Smut / Damping off

Leaching of soluble nutrients e.g. Magnesium (Yellowing / Chlorosis)

Splitting of fruits / Excess weight breaks boughs

Absence of Pollinators

Lazy, insufficient root-system

Growth rate spurt and dip

Mud – hazard (colloidal flow dynamics)

Workability – what cultivations possible how long after rain

Accessibility – Beds / Paths / Layout - shedding excess

Collect / intercept / divert / store / delay / retain

Learner Sig.

Date

Assessor Sig.