

READING GARDEN SOIL-TEST REPORTS n.

HowtogetthebestresultsfromsoiltestingyourGarde

HealthySoil&cleanwater= HealthyCrops&Pasture= HealthyLivestock&People

SoilHeath:

- Structure
- Nutrients
- Biology

Manypeoplefindreadinga soiltestreportisconfusing. **AtSWEPweworkhardto** makethemaseasytouseas possibleandthesenotes shouldalsohelpclarifysome commonguestions.

SWEPusestheMikhailSvstem ofbalancedsoilmanagement, whichisbasedon45yearsof dedicatedresearchonAustralian soilsandprovidesareliable4-step methodformaintenanceofbothsoil andplanthealth.

1.Cationsfirst:

Pronounced"Cat-Irons"theseare positivelychargedelementsthat affectthestructureandfriabilityof thesoil.makingthemamajorfactor indeterminingthephysical environmentwithinwhichplantsand allothersoilorganismssurvive.

ThemajorcationsareCalcium, Magnesium.Sodium.Potassium

andHydrogen.Adjustingtheirrelativeproportionsi sthe keytooptimisingthephysicalconditionofthesoil.Th е recommendationsforLime,DolomiteandGypsumonthe testreportarecalculatedtocorrectthis"CationBala nce".

Ofcourse, this process takes a little time and so it is besttokeepitseparatefromfertiliserapplications

2.Nutrientslater:

Thenutrientrecommendationsaregiveningramsper squaremetreoftheactualnutrientandsomustfir stbe convertedintofertiliser(refertoFactSheet#6fo rmore informationonthis)andappliedsome3tosixmont hs afterthecationbalancecorrections.

Theyalsorepresenttherequirementsforoneentire growingseasonandsodonotnecessarilyneedtobe appliedallatonce.NutrientslikeNitrogenandPota ssium inparticularcanbesplitbetweentwoorthree applicationsiftherequirementsarelarge.

3.Biologyafterdisturbances:

Soilorganismsarehighlysensitivetoanydisturbance s intheirenvironment.MostactivitiesintheGarden will createsomesortofdisturbance.sowhethervouare cultivating, planting, weeding or fertilising, yoush ould alsobedoingthingstohelpminimisethesedisturb ances.

Theimportantpointhereisthat, like a forestafte ra bushfire,leftalone,soilorganismscancopewithmo st thingsbythemselves.Soifvouhavenotdonea CompleteSoilTest toshowwhattheappropriate actionsare, then doing nothing is better than doing the wrongthingandcreatingevenmoredisturbance.

However, if your Complete Soil Testre commended KelpandFishemulsion(forexample),thenthiscan be appliedassoonasyouhavefinishedanyfertilising or othergardening, as a means of re-establishing the biologicalbalanceinthesoil.

Applicationratesmatter

SWEPrecommendationsareverypreciseand thisisforareason-thebestresultsareachieved bydoingwhatisrequired.butnomoreorless thanthis

Moreisnotalwaysbetterandthisisespecially trueforsoilbiology.Here,themajorityof materialsrecommendedareliquidsandsothe recommendationsaregiveninmillilitresper squaremetre(ml/sq.m).Ourresearchhasshown thatthebiologicalbenefitsofthesematerials occuratveryparticularapplicationratesandonly attheserates. The amount of water in which the requiredmaterialisdissolvedisnotsoimportant -onlythattherequiredamountisappliedtothe appropriatearea.

Forinstance, afterplanting at reevoum av wateraboutonesquaremetrearoundit.Ifthe recommendationisforkelpat2ml/sg.mthenyou shouldapplyonly2mlofkelptothisarea.lfyou thenfertilisedaroundanestablishedtree coveringabout10sg.mthenyouwouldapply 20mltothisarea.Bothcouldbeappliedinoneor twowateringcansfullofwater-it'stheamount fortheareathatisimportantnottheamountof water.

4. Monitoring changes

Byre-testingevery12months(atthesame timeofyear)youcantrackanychangesthat occurovertime.Oncethecationbalancehas beencorrected, soilbiology will be very useful in earlydetectionofunwantedchangesinthesoil.

If you have any other questions, please email usat: services@swep.com.au