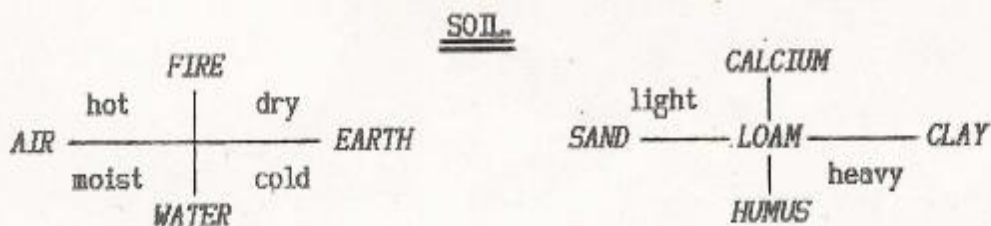


# COSMIC SOIL CHART



HEALTHY TOPSOIL CONTAINS (by volume):- 25% WATER + 25% AIR + 50% SOLIDS  
 SOLIDS (by weight) = 95% MINERALS + 5% ORGANIC MATTER  
 ORGANIC MATTER (by weight) = 85% HUMUS + 10% PLANT ROOTS + 5% ORGANISMS  
 ORGANISMS (by weight) = 40% ALGAE & FUNGI + 40% BACTERIA & ACTINOMYCETES  
 (slime moulds) + 2% EARTHWORMS + 8% OTHER INSECTS

The conservation and care of our soils is the most crucial issue facing human survival on earth. Soils are interfaces between the inorganic mineral world and organic lifeforms. They act as a vast way of collecting and storing solar energy. They are composed mostly of silicon, like microcircuitry, but soil as biocomputer has infinitely more information processing capacity than manmade computers. John Seymour, author of 'Blueprint for a Green Planet', passionately believes that humankind should try to help and emulate the humble earthworm in order to save our soils.

## SUN-FIRE.

PHOTOSYNTHESIS  
 HEAT LIGHT  
 SEASONAL CYCLES  
 SUNSPIN & SUNSPOTS  
 EARTHSPIN & ORBIT  
 SOLAR DUST

## AIR-BIOSPHERE.

RESPIRATION  
 OXYGEN-CARBON DIOXIDE  
 OZONE & NITROGEN  
 WIND & WEATHERING  
 EROSION  
 GRAVITY AERATION

## WATER-LIQUID.

OSMOSIS SOLUTIONS  
 GROUNDWATER GREYWATER  
 RAIN CLOUD RIVERS  
 OCEANS SEAS LAKES GLACIERS  
 FROST DEW PERSPIRATION  
 GROUNDWATER GREYWATER

## MINERALS.

CRYSTALS & SALTS  
 TRACE ELEMENTS  
 SILICON  
 CARBON  
 POTASSIUM  
 PHOSPHOROUS  
 CALCIUM  
 MAGNESIUM

## EARTH RESOURCES.

MANURE URINE FAECES  
 FOOD PROCESSING WASTES  
 HAIR BLOOD FISH BONE  
 PAPER SAWDUST WOODCHIP  
 COMFREY NETTLES HOPS  
 ASHES BRACKEN  
 EGGHELL LIMESTONE  
 DOLOMITE BASICSLAG  
 SEAWEED ALLUVIA

## HUMUS AND MICROBES.

FATS LIGNINS CARBOHYDRATES AUXINS  
 per gram of soil:-  
 BACTERIA = 1,000,000,000  
 ACTINOMYCETES = 10-20,000,000  
 FUNGI = 1,000,000  
 PROTOZOA = 1,000,000  
 ALGAE = 100,000  
 YEASTS = 1,000

## PEOPLE (=ANIMALS).

BIODYNAMIC RECYCLING  
 ORGANICS ECO-LOGIC  
 SUSTAINABLE OUTPUT  
 PERMACULTURE  
 COMMUNAL BONDING  
 PERSONAL ACHIEVMENT  
 METAMORPHIC ALCHEMY  
 HOLISM SYNERGY NEGENTROPY

## PLANTS.

LEAVES FLOWERS SEED  
 ROOTS & RHIZOSPHERE  
 COMPANION PLANTING  
 MULTICULTURE  
 DIVERSITY & ROTATION  
 HEAVY, LIGHT & ROOT FEEDERS

## MOON

LAND-TIDE  
 FERTILITY CYCLES  
 RAISED BEDS