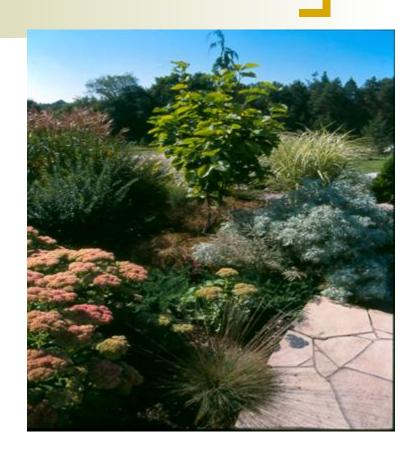
Complete Plant Health (CPH)

"We have killed off nature-that world entirely independent of us which was here before we arrived"

Bill McKibben, The End of Nature

CPH

"An alternative to Integrated Pest Management (IPM)"



Complete Plant Health

- Sensible approach to how we garden
- Involves a series of steps or considerations in how we consider our involvement in our gardens development
- Change in attitude
- Economic benefits

Is this lawn getting what it needs?



Is this lawn getting what it needs?



The Sensible Approach-CPH

"Consider the needs of the plant, not the needs of the gardener"

Michael Pascoe



A thirsty tree!

One large tree on an average summer day (70 F) expels how much water through transpiration?



A thirsty tree!

Over 150 gallons



Consider the needs of the plant first.

- Will the plant do what it needs to do in that particular location
- Are the conditions suited for its proper growth
- Will the plant suffer from pest infestations
- Is it compatible with it's environment

Who prunes a plant?

Why?



Who prunes a plant?

- Storm damage or other injury
- Disease control
- Rejuvenation
- Hedging



-Will the plant do what it needs to do in its selected location?

"Take a lesson from nature, plants grow where they like because simply; they like it there" Michael Pascoe

Will the plant accomplish its task or are you forcing it to conform?



Are the conditions suited for its proper growth?

- Soil
- Water
- Drainage
- Sun/shade ratios (full sun, part sun, part shade, full shade)
- Exposure
- Hardiness (the Maladus zoneitest)



-Will the plants suffer from pest infestations?

- Have you selected a potential problem
- Will improper culture of the plant promote other problems



Is it part of a pest life cycle (junipers and hawthorn)

Is it compatible with it's environment?

- Are you introducing an invasive species
- The Norway Maple is encroaching our natural areas
- It suppresses our native Sugar Maple



Is the Dandelion a native plant?

- No
- Is Garlic Mustard native?
- No
- Is Buckthorn native
- No



The Mechanics of good gardening

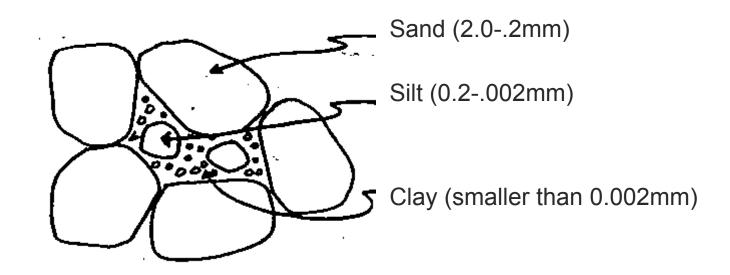
Soil
Water
Mulch
Education



The important ingredients

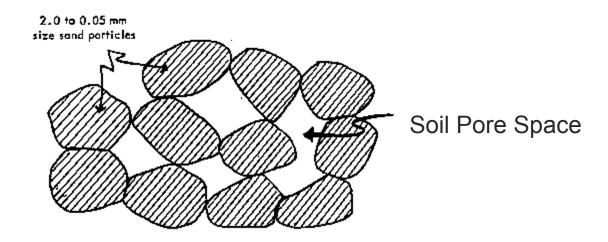
Soil

Understanding soil



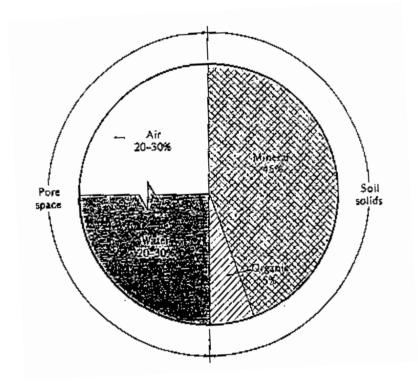
The most important ingredient

Soil



Soil Composition

- Sand/silt/clay
- Water
- Air
- Organic mater



Soil compaction

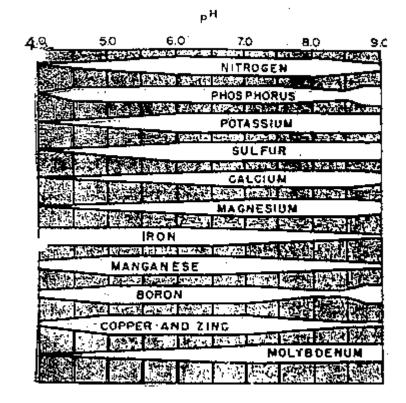
- Loss of pore space
- Poor drainage

Lack of oxygen

Dying plants

Soil pH

- The importance of a soil test
- Collecting a representative sample



Soil micro and macro fauna

Remember the worms?

Remember the microbes?

Watering

Remember the thirsty tree?

Deep watering=deep roots

Deep roots=strong plants

Mulch

- Use all garden waste
- To compost or not to compost?
- Carbon/nitrogen ratio



Mulching and adding organic mater: the benefits

- Builds soil texture, binds small soil particles together into larger particles, thereby developing larger pore spaces in the soil.
- Humus can supply most of the micronutrients as well as relatively small quantities of macro nutrients.
- Water percolation is slowed, important in well-drained sandy soils.
- Improves the nutrient hold ability of soils, especially those of a sandy nature.

Turf care

- Fertilizing, why and how.
- Mowing, the procedure.
- Irrigating the lawn.
- Aerating.
- Vertical Mowing or Dethatching.
- Rolling, why not?
- Pest control.

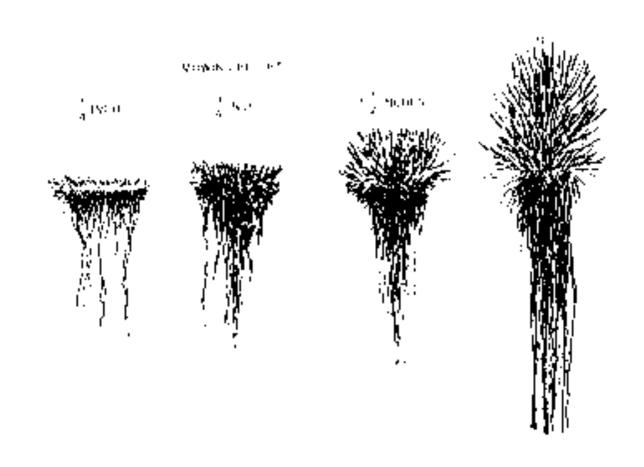


Fertilizing

Remember the worms?

Done in conjunction with other lawn care practices

Mowing: The Procedure





How often do you sharpen your mower blade?

Aerating

- Not often considered necessary
- Should be done at least once a year
- Core aeration is best
- Decreases thatch build-up
- Improves water percolation
- Encourages deep rooting

De-thatching

If you have done everything right you should not have thatch.



How many people roll their lawn?

Rolling

No, No, No.

The dandelion is talking to you, listen!

Opportunistic species



"Educate yourself to listen"

Michael Pascoe

Beware the ill treated plant!



Remember, the hazards of gardening are small



And large.....





"When I come to build my own garden it can scarcely take another form than the one which is a reflection of its maker"

The Education of a Gardener, Russell Page

