



San Diego Master Gardener

Class of 2023



Session 4

Soils and Fertilizer Management

02/07/2023

Objectives

1. After this lesson, the trainee will know:
 - 1.1. The four components of soil and the basic principles of soil formation, soil function, and soil profiles.
 - 1.2. The physical properties of soil, their effect on plant growth.
 - 1.3. The basic concepts of soil water and its availability to plants in different types of soils.
 - 1.4. The basic concepts of soil fertility and pH.
 - 1.5. Fertilizer analysis, sources, formulations, application methods, and the differences and similarities between organic and inorganic fertilizers and amendments.
 - 1.6. Nutrients most often needed in fertilizers in California.
 - 1.7. The basics of composting and soil amendment.
2. After this lesson, the trainee will be able to:
 - 2.1. Evaluate soil texture using the soil “triangle”.
 - 2.2. Evaluate nutritional needs of plants and fertilizer selection.
 - 2.3. Understand commercial fertilizer ingredients.
3. How to access more information:
 - 3.1. California Master Gardener Handbook, Second Edition, 2015, pp. 38-81
 - 3.2. Supplementary Materials: [OSU Soils Video](#)

See Agenda next page



San Diego Master Gardener

Class of 2023



Agenda

Soils and Fertilizer Management

8:00	<ul style="list-style-type: none">• Room setup• Room available for refreshment team 2• Good, Bad, Bugly put on screens	
8:30 -9:00	<ul style="list-style-type: none">• Class starts• <u>Brief</u> Announcements<ul style="list-style-type: none">o Lab Rats Group 6 remindero "The Good, Bad and the Bugly" identifiedo Quiz questions - procedures	
9:00 - 10:00	<i>Soils and Amendments</i>	Mary Matava
10:00 - 10:15	Break	
10:15 - 11:00	<i>Soils and Amendments - continued</i>	Mary Matava
11:00 - 11:15	<ul style="list-style-type: none">• Ask a Master Gardener (AAMG)	Nate Northrup
11:15 – 11:30	<ul style="list-style-type: none">• Committee Focus: Exhibits Committee• Exhibit Checkout Procedure• Exhibit Resource Guide	Carol Stevens, Exhibits Committee Chair
11:30 – 12:00	Lunch	
12:00 – 2:00	<i>Lab - "The Plot Thickens" Soil Analysis</i>	Mary Matava
2:00 - 2:30	Authentication Talk	Judy MacKenzie
2:30	Staff Debrief	