Flower Bed De Summer 20

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The class is done through a cooperative arrangement between Utah State University Extension Service and Thanksgiving Point Institute

Thank you for being a part of our educational offerings

<u>Class guidelines</u>

- Be on time
- Turn off cell phones
- Respect others who are taking the class

<u>Class guidelines</u>

- Take and collect pictures
- Make lists of your favorite plants
- Ask questions to understand
- Have fun

Designing a flowerbed does not have to be a daunting task

Designing flowerbeds can be a great part of the gardening experience



Flowerbeds are: Way to express your creativity Indulge your horticulture passions Make your home and garden **Sook better**

This class helps you create living works of art to share with others



It gives ideas for flower beds using your creativity and planning



It will help you learn to make the flower bed work for you, not the other way around



Start with some class definitions
Flower
Bed
Design



flow-er (flou"...r) n. 1.a. The reproductive structure of some seed-bearing plants, characteristically having either specialized male or female organs or both male and female organs

flow-er (flou"...r) n. 1.a. such as stamens and a pistil, enclosed in an outer envelope of petals and sepals.



flow-er (flou"...r) *n.* b. Such a structure having showy or colourful parts; a blossom. 2. A plant that is cultivated or appreciated for its blossoms.



4. Something, such as an ornament or a figure of speech, that resembles a flower in shape, fineness, or attractiveness. 5. The period of highest development; the peak.

bed (bµd) *n.* this word has twelve different definitions 1.a. A small plot of cultivated or planted land: *a flower bed*

gar-den (gär"dn) *n.* 1. A plot of land used for the cultivation of flowers, vegetables, herbs, or fruit.

de-sign (d¹-z^on") v. de-signed, de-sign-ing, de-signs. *--tr.* 1.a. To conceive or fashion in the mind; invent. b. To formulate a plan for; devise:

2. To plan out in systematic, usually graphic form: 3. To create or contrive for a particular purpose or effect

4. To have as a goal or purpose; intend. 5. To create or execute in an artistic or highly skilled manner.

de-sign *n.* 1.a. A drawing or sketch. b. A graphic representation, especially a detailed plan for construction or manufacture.

de-sign *n.* 2. The purposeful or inventive arrangement of parts or details.



de-sign *n.* 3. The art or practice of designing or making designs. 4. Something designed, especially a decorative or an artistic work.
5. An ornamental pattern.

Class definition: To make or execute plans or to create designs for a plant that is cultivated or appreciated for its blossoms on a small plot of cultivated or planted land Class definition: To plant flowers together so they look good and grow well

Before you start planning or planting, ask some questions so you can start with a purpose in mind

The reason for having a flowerbed can be nothing more than for enjoyment and enhancing the landscape



A focus or theme can make the design process much easier



Water garden



Fragrance garden



Woodland garden



Cottage garden



Cutting garden



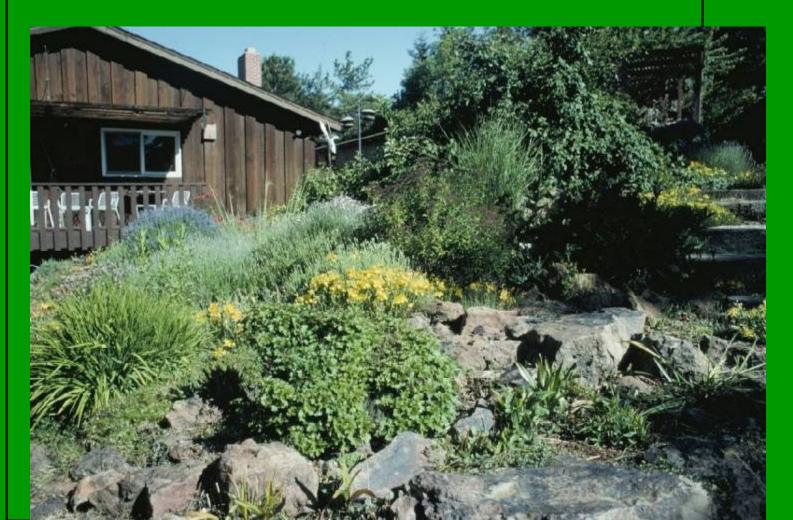
Moonlight garden







Water Conserving garden



Butterfly garden



Other possibilities are plant collections

Hostas











Peonies







Daylilies







Spring Bulbs



Rock Gardens



A garden devoted to a particular season

- Spring





A garden devoted to a particular season

- Summer





A garden devoted to a particular season

- Autumn



A garden devoted to a particular season

- Winter



The more focused the theme, the narrower the choice of plant material



When thumbing through flower books and magazines, we get inspired by beautiful photos of grand flowerbeds overflowing with annuals and perennials

The next thing you know, you are tilling up large sections of lawn for a huge flower border



Fantasy meets reality when it comes time for planting, weeding, deadheading and other maintenance



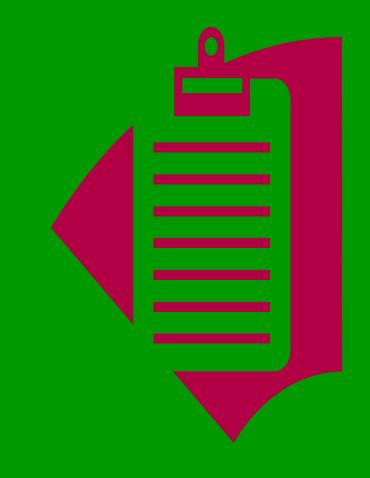
- Who is going to take care of the flowerbed?
- How much time do you want to spend planting and maintaining the flowerbed?

- Make your plans
- Make a labor budget
- Make a plant budget
- Make plans for seasonal color



• Make your plans

 Planning the project identifies the square footage and the needs for the project



- Make a labor budget
- This forces you to quantify the time it is going to take to create and maintain the beds

Make a plant budget
This forces you to buy plants you need, not just what looks good the day you shop

Make plans for seasonal color

Choose a size that is realistic but can be enlarged as needed



If you cannot devote much time to maintenance, focus on low-maintenance plants or a style (prairie, cottage, and meadow) that do not demand as much attention

Designing Flower Beds Waterwise Gardens







How much do I want to spend?



Setting a budget helps dictate the size of the flowerbed and the amount of plant material you purchase

Do not purchase all the plants in one season With a plan, add plants each year and 'build' your flowerbed over time rather than making an instant flowerbed

As flowerbeds evolve, the look and your ideas will change





Leaving open spots means you can add plants to fit your taste and improve the overall look of the flowerbed



A successful flowerbed usually has annual and perennial combinations



Perennials form the backbone of the flowerbed and give it permanence



An advantage of perennials is that they have a one-time cost and live for several years



Annuals are less expensive plants but only live for the season



Fill the border with annuals to give color and mass until the perennials fill in for 1-3 years



What is the site like?



Before you grab the shovel or buy any plants, take an inventory of the location where you want the flowerbed. Consider the following items:

Soil quality -Annuals grow but do not thrive in poorly prepared soil



Soil quality -**Perennials** seldom survive more than one year without properly prepared soil



Plants prefer rich, black loam with abundant organic matter. Add organic matter to improve soil quality



Spread 4 to 6 inches of the material on the flowerbed and till it in. In the spring, before planting, till the soil again



Do not waste money on expensive plants until you correct serious soil problems



DO NOT use peat moss in clay soils because they both hold water like sponges



Organic matter must be fully decomposed or add extra nitrogen to speed decomposition



Drainage - Soil drainage is also crucial. Create well-drained soil for all flowers except a few (Marsh marigold, bee balm etc.) that thrive in wet, boggy conditions Poorly drained soils are a problem for many perennials. Many plants (Scabiosa, peony Chrysanthemum,) winterkill if the soil is too wet in the winter

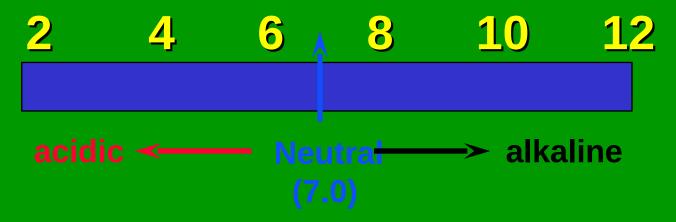
To test a site for drainage, dig a hole two feet deep and fill the hole with water. Allow the water to soak in. Fill the hole with water again

If water remains in the hole after 2 hours, correct the drainage before planting most perennials



Soil pH – The ideal soil pH for most flowers is near neutral Soils in Utah are always alkaline

- Soil pH: the degree of acidity or alkalinity of soil
- The pH scale:



- The degree of acidity or alkalinity (basic nature) of soil
- Guidelines:
 - Ideal: between 5.5 and 7.5
 - Acceptable: between 5.0 and 8.2
 - Unacceptable: below 5.0 or above 8.2

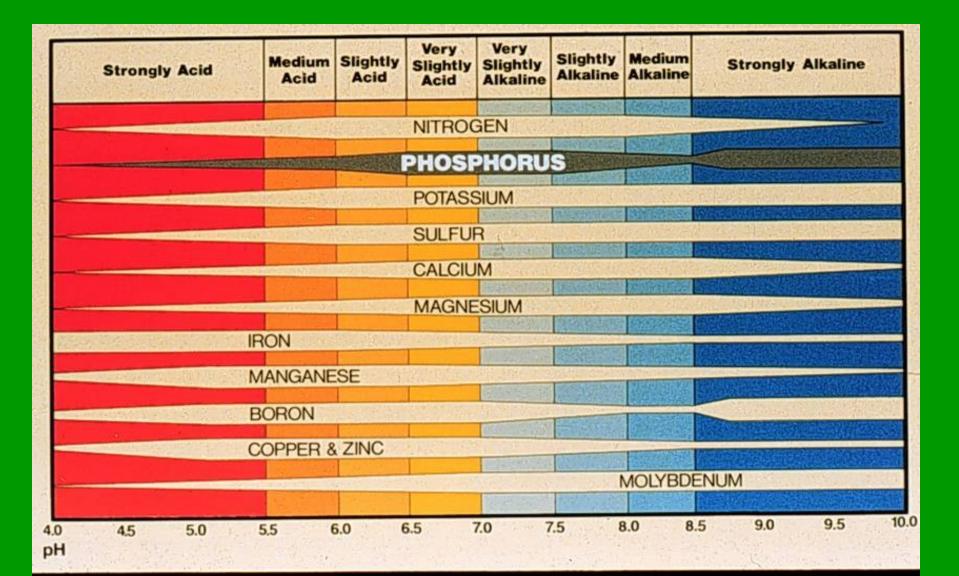
Designing Flower Beds Acidic Loving Azaleas, Rhododendron, Magnolias





Designing Flower Beds Alkaline Loving Alfalfa, Salt Cedar And Halogeton





- Treatment of high pH problem
- Select tolerant species and varieties
- Try amending soil with acidic organic matter or elemental sulfur
- Good luck

In spite of many recipes you can do little to change the pH

Jordan River Temple

Designing Flower Beds Jordan River Temple Changed pH from 8.2 to 7.5 in 25 years in the flower beds





Designing Flower Beds Major pH problem: iron chlorosis



Control tough perennial weeds before planting

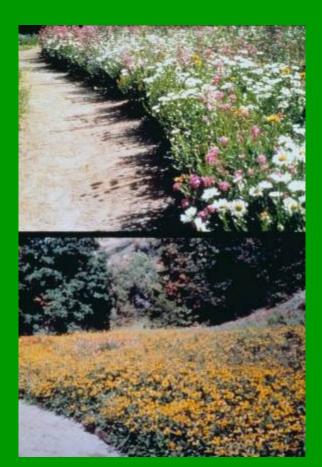




Check the abel to see how long after application you must wait before planting



Existing elements –Take stock of plants and planting areas you have



Existing elements – When you landscaped your home, you created a plan and selected plants that enhanced the architecture and property

Flower beds should fit naturally into the landscape rather than appear as an afterthought



Consider the style of your home. If you have a cottage, a very formal flowerbed will look out of place but a mix of old-fashioned perennials are right at home



A large home benefits from bold plantings with dramatic elements



Make a sample plan

Most flower bed failures are attributed to lack of planning and careful planning almost guarantees success

There are two approaches:





First approach: Select a landscape site where you need color. It can be a small bed near the mailbox, or a long perennial border near a fence or hedge

Select plants that are adapted to the site

What are the characteristics of the site? How much sun or shade does it get? How much water does it get?

There are flowers for every site!

Many references are available to help you select plants Contact your USU County Extension Office, local bookstore or library

Second approach Select plants first For example, it may have been a childhood dream to have a formal rose garden

Second approach Perhaps you like particular flowers at a garden center or a neighbor's yard and decided you need them in your design

Select a site that is appropriate for the chosen plants There are many references available to help determine the needs of specific plants

Do not be afraid to try something different! Remember the maintenance requirements and how much time you are willing to invest

Roses, for example, require frequent care, while verbena thrive on neglect Select drought tolerant plants to cut down on your water bill

Making a plan can sound like a daunting task but it does not have to be

A plan can be something as a rough pencil sketch on a piece of scrap paper or as elaborate as a detailed, to-scale drawing

The idea is to get your thoughts down on paper. It is much easier to shift plants around on paper rather than doing it after they are planted

A plan gives a feel for whether the flowerbed is large enough for the plants you intend to grow, and if they are compatible for the site

This plan also serves as your 'blueprint' When you go to plant, you will have their location right at your fingertips

To make a sample plan, measure the flowerbed area Use a scale of 1/4 inch, 1/2 inch, or 1 inch equal to one foot

If your flower bed is 20 feet by 10 feet (200 square feet), draw a bed 20 inches by 10 inches (200 square inches) on a piece of paper

Graph paper makes this job a little easier since the grids are already marked

The next step is to draw in the plants you intend to grow You need to determine the width the plants at maturity

Generally, the width is equal to the height but there are exceptions Use a catalog or other reference to find this information

You can either draw the plants directly on the plan, or use cutouts to move them around Use the same scale you did for drawing the flowerbed outline

Assuming you used 1-inch equals 1 foot for your flowerbed plan, a plant that spreads 4 feet is represented by circle 4 inches in diameter

This exercise eliminates a problem for gardeners

The problem of not having a plan is you go to the garden center and return home with a carload of plants and start shoehorning them in randomly

Since the plants are not mature, the tendency is to plant them closer than they should be

Within a few years, the plants mature and begin to crowd each other, resulting in poor growth, competition for nutrients and moisture

This creates lopsided growth, more disease problems, and the need for immediate division/replanting



Place beds where you can view them from inside your home and where you spend time outdoors



Locate them in high visibility areas, such as a front yard, near windows, the porch or patio



Keep in mind factors such as soil type, drainage, pH, and light



Decide where the flower bed should be You may find several locations that need flowers



Create a courtyard bed, a patio bed, or a bed near the front door – rather than one large, overwhelming flower bed

Incorporate flower borders in the front yard in place of foundation shrub plantings if the area has the best light and it visiblility

Make a 'wish list of plants

A good place to start in making your plant list is to think about your favorite flowers

They may be family favorites, flowers you remember from childhood or those that give you special memories

You might look through a catalog and pick out plants that you like based on the photos

Do not buy on photos alone. Make a list and view the plants at garden centers, in display beds, or at local gardens

Before you actually purchase the plants, ask questions about its suitability for our climate

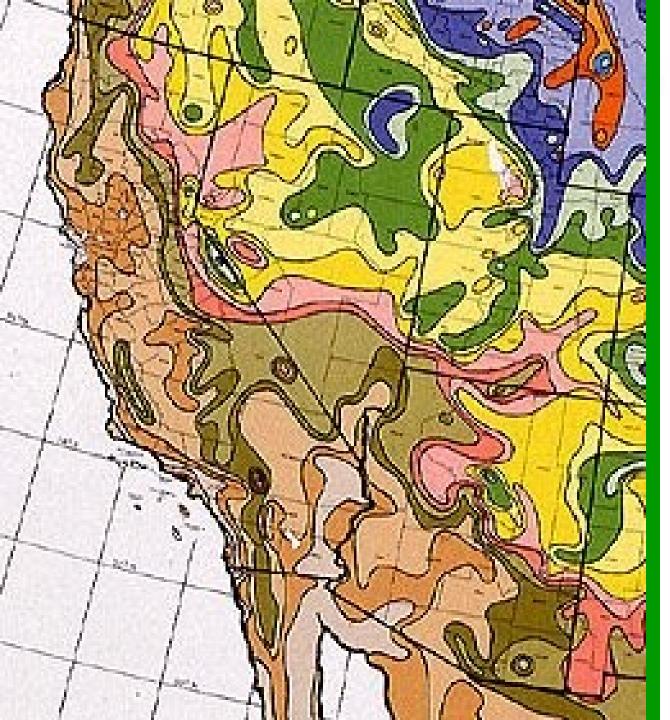
Experienced salespeople can recommend adapted plants and steer you away from plants that will not perform well in your locale

Does it grow in my area?

Find out what plant hardiness zone you live in

http://www.usna.usda.gov/Hardzone/us hzmap.html

The USDA divides Utah into several hardiness zones running from Zone 3 in northern) to 8 in the southern part of the state



Average Annual Minimum Temperature

Temperature (F)	Zone
Below -50	1
-45 to -50 📃	2a
-40 to -45	2b
-35 to -40 📒	3a
-30 to -35 📃	3Ь
-25 to -30	4a
-2010-25	4b
-15 to -20 📃	5a
-10 to -15	5b
-5to-10	6a
010-5	6b
560	7a
10 to 5	7b
15 to 10	8a
20 to 15	85
25 to 20 📃	9a
30 to 25	96
35to 30 🚺	10a
40 to 35	106
40 +	11

Most flower books and some catalogs have a picture of the zone map in them

The average annual frost-free days and minimum winter temperatures determine zones

Most of Utah falls within zones 4B to 5B

Zones are important when selecting plants from catalogs or nurseries

Flowers can usually grow plants in their zone as well as two or three zones higher For example, if you live in zone 4B, you can grow 5A,5B and higher with little problem

Attempts at lower zone plants (below 4B) will require significant winter protection

An exception to this 'rule' involves microclimates that exist and are particular to various sites

Microclimates are areas that are unique for ability to support plants that are technically planted outside of their hardiness zone

For example, if you live in hardiness zone 5, there may be areas unique to a particular property that could support zone 6 or 7 plant material

These areas are usually located where there is some protection during the colder parts of the year

Areas protected by buildings, fences, hedges, or other structures or land features can often be one or two planting zones different than other parts of the yard

Because these areas are so unique and individualized, they are often found only after working and observing your flowerbed for several seasons

Winter temperatures are not the only consideration in choosing perennials Summer temperatures also influence plant growth and survival

A Plant Heat-Zone Map, similar to the Plant Hardiness Zone Map, divides the U.S. into 12 heat zones based on the average number of days per year above 86 degrees F

Utah is divided into four heat zones:

The map is available online at http://www.ahs.org/publications/heat_zo ne_map.htm

Note that the hardiness zones and the heat zones are not the same numbers

Flower Bed Design

Consider several factors of design

How long does it flower?

Annuals provide color constantly from spring to frost



Most perennials bloom 1-3 weeks with some repeat bloomers



With careful selection, gardens flowers during spring, summer, and fall



Add winter interest with ornamental grasses seed heads to have four seasons of interest





Budget and maintenance issues affect which plants to use

Careful plant selection gives the best investment display



Is the foliage attractive?

Most gardeners ignore the importance of choosing plants that have attractive foliage

Too often, a designer selects plants based on the type of flower and usually its color

With perennials, there are times when only the plant and its foliage are showy

Make sure that the foliage is attractive enough to serve as filler or backdrop for other plants in bloom or locate them where they are not in the most prominent beds

Be careful locating plants that are susceptible to foliar diseases or other problems that make plants unattractive

Plants that fit in this category include monarda, phlox, and zinnia

Exposure - Annuals and perennials are grouped according to four sunlight requirements

Full sun - receives sun for six or more hours each day

Partial sunlight - 3 to 5 hours of sun each day

Partial shade - no more than a few hours of dappled sun

Full shade - absence of direct sunlight

Few plants can grow in the full shade of a forest or grove of trees. Full shade plants must still receive some filtered light

It may be possible to thin out trees and shrubs branches to allow more light for growth. Do this carefully to avoid destroying the plant shape

Plants growing near trees and shrubs must compete for nutrients, light and moisture

In addition to choosing plants based on hardiness and personal likes, there are other considerations

Take specific plant characteristics such as height, width, flowering time, and texture need to be taken into account

Height - Annuals and perennials differ in their height and width. Place shorter plants in the front, medium height plants in the middle, and taller plants in the back

This progression is broken up to create interest and appear more natural. Experiment with varying heights until you get a pleasing 'skyline'

Spread – This varies by species. Newly planted bed look sparse when plants are set at recommended spacing, but this allows them to fill in without overcrowding

Plants that are set too close compete for nutrients and moisture and infringe on each other causing lopsided growth

Annuals planted at recommended distances will fill in during the growing season

In a perennial bed, it may take 2 or 3 years for the plants to fill in. During these times, it is helpful to add colorful annuals to the bed

Form - Form takes into account the shape of the entire plant as well as its individual parts

Herbaceous plants grow in five basic shapes Rounded **Vertica** Open Upright Spreading or prostrate









Spreading or prostrate



The use of varying forms is a design consideration Using only one form gives a monotonous display

Individual flowers have various forms

-Some of the more common ones are

Bell-shaped (Campanula)



Daisy-like (i.e. Shasta daisy, aster, zinnia)



Spherical (peony, marigold)



Frilly or lacy (Dianthus)





Trumpet-like (Hemerocallis)



- Texture - Texture refers to the plant's appearance, not the way it feels to the touch. It is fine, medium, or coarse with variation in-between (i.e. medium fine)

 Density of the foliage, form of the flower, flower size, and foliage size determine texture.
 Small, dissected, lacy leaves are considered fine textured (Alyssum or Gypsophila)



Plants with large leaves are generally considered coarse-textured
Some examples of coarse plants are castor bean and Canna





Coarse-textured plants appear closer to the viewer



Fine-textured plants appear to recede



– If your flower bed is a considerable distance from where it will be viewed, use plants with large leaves so that they show up



- -Texture is important in creating interest
- A flowerbed with a variety of textures creates interest
- –A flowerbed composed of similar textures is visually boring



The End Thanks for Coming