

## Rangeland Plants

4 major growth forms:

- Grasses
- Grass-likes
- Forbs
- Shrubs

Grasses:

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Grass-like:

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Forbs:

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Shrub:

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**Life Span** - Length of time from the beginning of development to death of the plant

- Annuals – live for one growing season
  - Winter annuals
  - Summer annuals
- Biennials – live for two growing seasons
- Perennials – live from one year to the next

What is plant morphology?

**Leaves – Important characteristics:**

- 1.
- 2.
- 3.
- 4.

**Leaf Types - Draw**

Simple:

Compound Palmate:

Compound Pinnate:

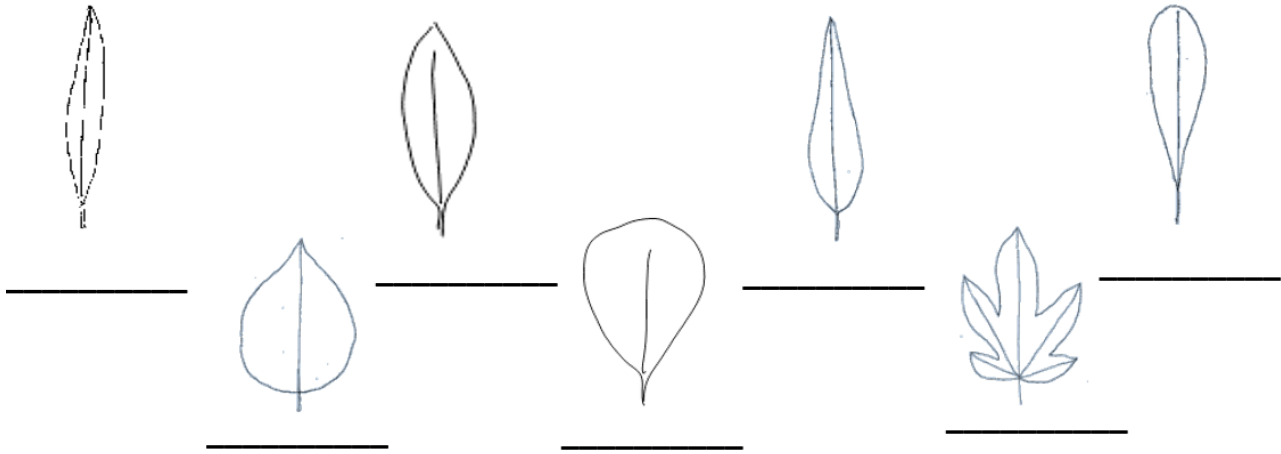
# Leaf Arrangements - *Draw*

Alternate:

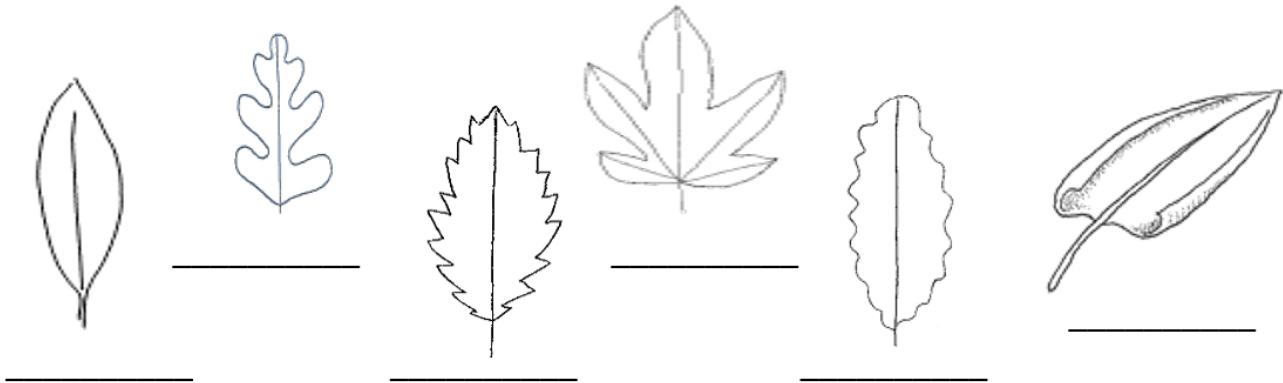
Opposite:

Whorled:

## Leaf Shapes



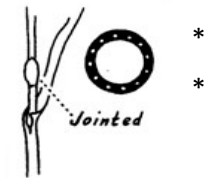
## Leaf Margin



## Leaf Venations



**Stems:**



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\*  
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**Roots: Draw**

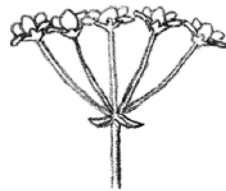
Fibrous:

Tap:

Bulb:

**Flowers**

Inflorescence Types:



**Composite heads:**

