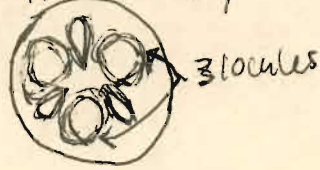


Rosaceae  
 Crataegus sp.  
 Hawthorn  
 medial, 2<sup>nd</sup> growth

cross section  
 trilocular ovary.

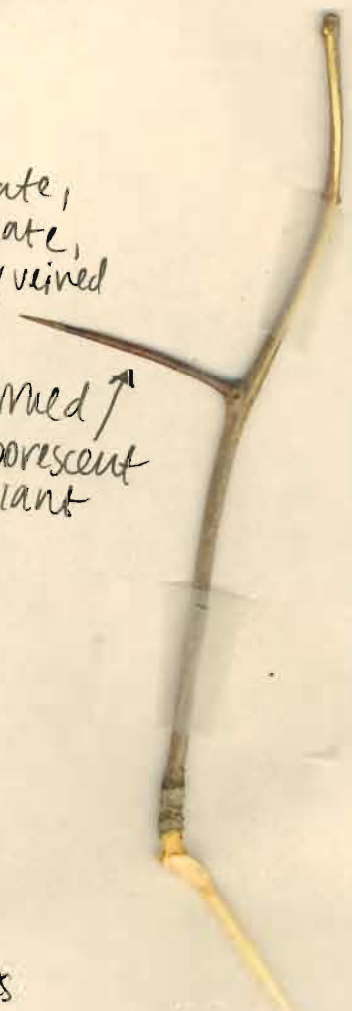


inferior ovary  
 ↓



leaves alternate,  
 simple, serrate,  
 pinnately veined

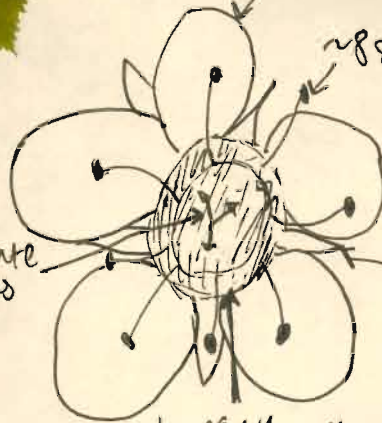
armed  
 arborescent  
 plant



5 separate  
 petals

~8 stamens

3 separate  
 styles



hypanthium  
 (red colored)

3 styles, separate

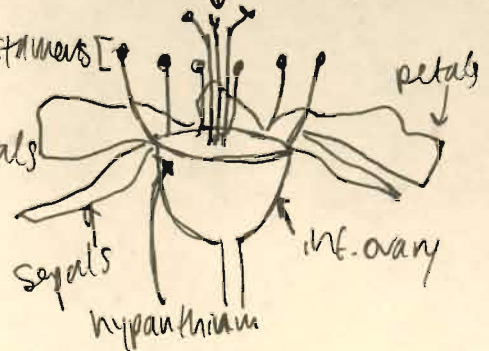
stamens

petals

5 sepals

sepals

inf. ovary



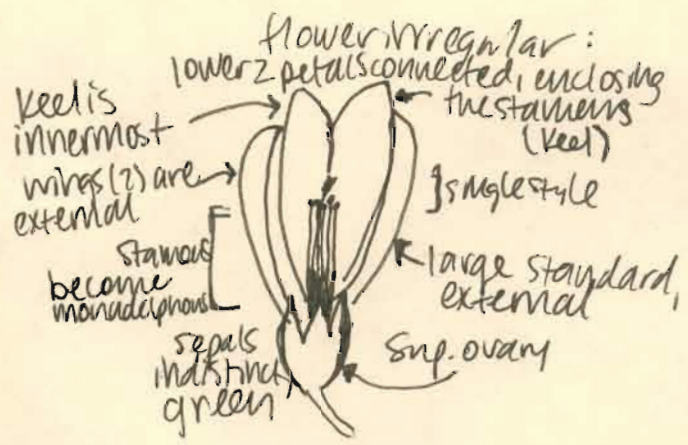
hypanthium

Fabaceae  
Melilotus officinalis

sweet clover  
rural habitat



fls in  
catkin-like  
structure



leaves tri-  
compound,  
semicompound,  
petiolar,  
alternate

strong root  
system

4-30

# Caesalpinigiaceae

*Cercis canadensis*

Redbud

woody tree (perennial)  
flower: pink, irregular, 5 petals (connate),  
stamens, pistil, irregular, 5 petals (connate),  
stamens, pistil

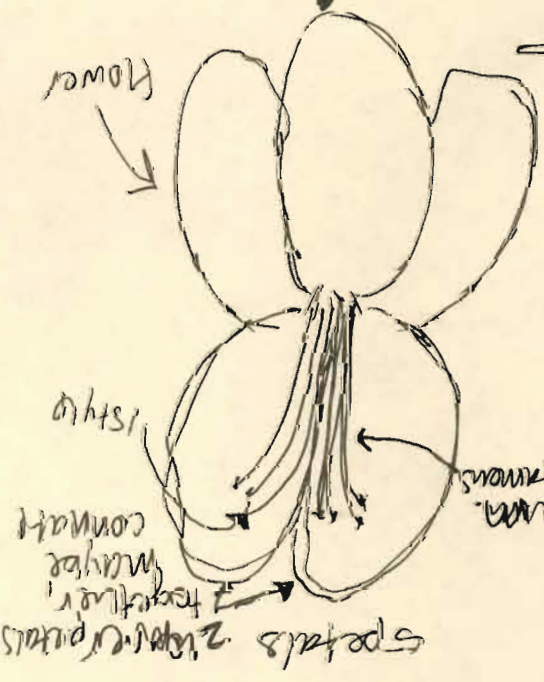


calyx is a  
5 lobed cup

flower  
(upside  
down)

bottom

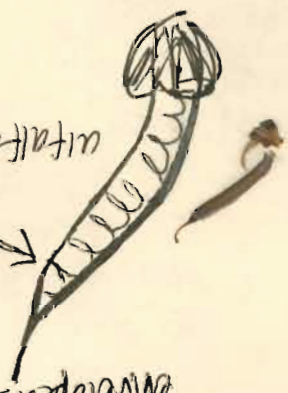
top



uppermost petal (banner)  
enveloped by surrounding 2  
wings

fruit

legume-like  
alfalfa also a legume



leaves absent at  
anthesis, entire

leaves  
alternate,  
net-veined



flower



corolla

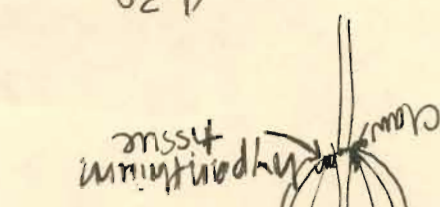
pedicel

calyx (shallowly 5 lobed,  
gamosepalous in-partium  
live)

petal

sepal

hypanthium  
claw  
tissue



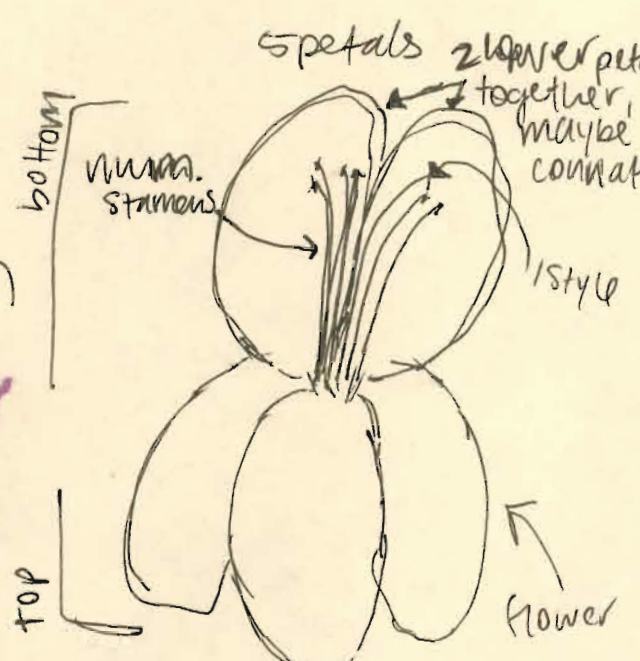
flower: pink, irregular, 5 petals (connate),  
~~10~~ sepals, 10 (num.) stamens, 1 style  
 ● ovary superior

Caesalpiniaaceae  
Cercis canadensis  
 Redbud



calyx is a  
 5 lobed cup

flower  
 (upside  
 down)



5 petals 2 lower petals  
 together, maybe  
 connate

num.  
 stamens

1 style

flower

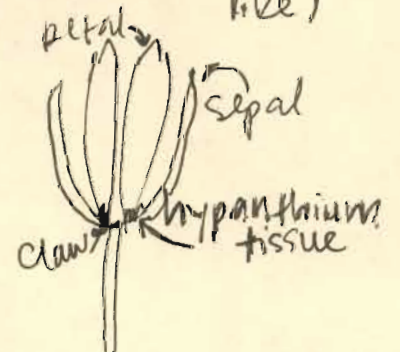
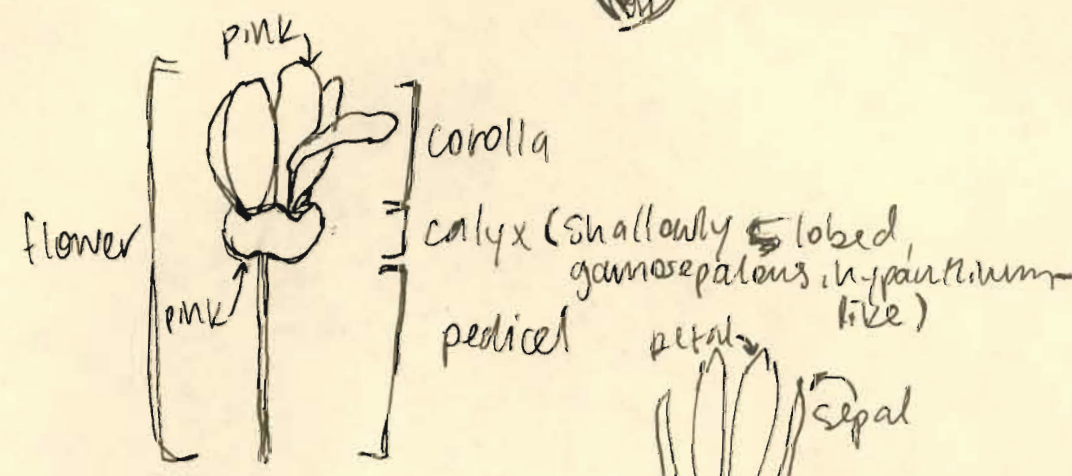
uppermost petal (banner)  
 enveloped by surrounding 2  
 (wings)

fruit  
 legume-like  
 alfalfa also a legume



leaves  
 alternate,  
 net-veined

leaves absent at  
 anthesis, entire



leaves are opposite and usually fully developed at anthesis, simple

# Bignoniaceae

Pantoumia tomentosa

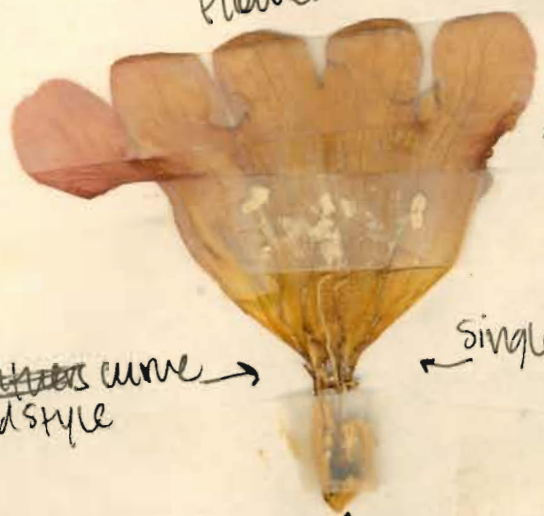
Empress-Tree  
disturbed habitat

wood is very valuable in Asia due to over-use (its wood is used to make ceremonial boxes)



Dilabiate, irregular flower

sympetalous 5-lobed corolla



4 stamens - didynamous & basally epipetalous, alternate w/ lobes of corolla

stamens ~~curve~~ curve around style

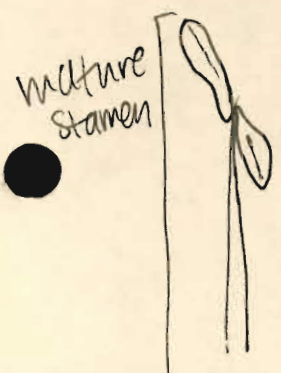
single style

superior ovary

anthers dehis longitudinally

filament

cross section of ovary, bilocular



fruit is ~~locutoid~~ capsule loculicidal