



Nest Building

- Male, female, or both
- Most socially monogamous males contribute
- Some birds build multiple nests
 - Dummy nests

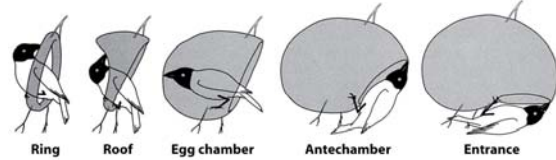


Nest Building



- Genetic Component

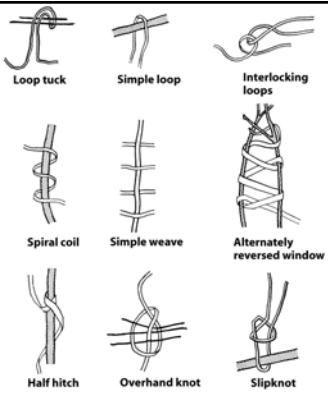
Nest Building



- Village Weaver

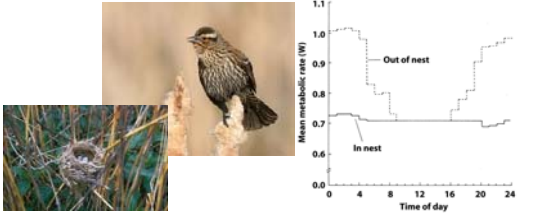
Nest Building

Complex construction
Genetic, but skill develops



Microclimate


- Nests reduce temperature fluctuations
- Decreases metabolic costs



Time of day	In nest (W)	Out of nest (W)
0	0.7	0.7
4	0.7	0.7
8	0.7	0.9
12	0.7	1.0
16	0.7	0.9
20	0.7	0.7
24	0.7	0.7


Microclimate

- Nests reduce temperature fluctuations
- Decreases metabolic costs



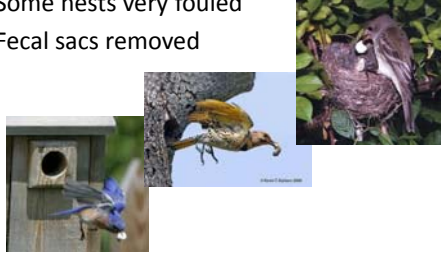
Microclimate

- Dangers
 - Low O₂
 - CO₂, NH₃ buildup
- Eggs dry out if too exposed



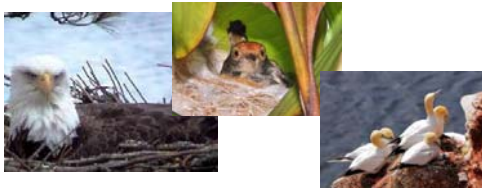
Cleanliness and Upkeep

- Some nests very fouled
- Fecal sacs removed



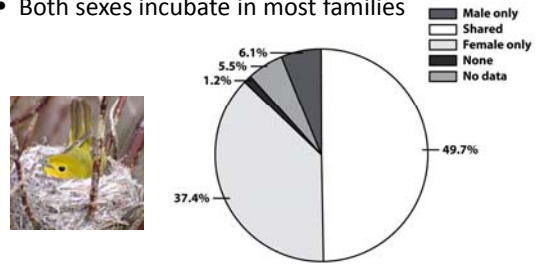
Incubation

- Hormonally controlled
 - **Prolactin**: high in incubating parent(s)
 - **Testosterone**: low in incubating male



Incubation

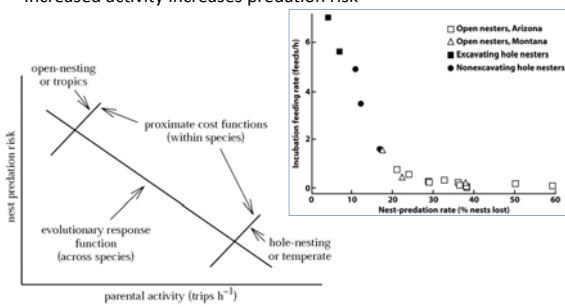
- Both sexes incubate in most families



Incubation Role	Percentage
Shared	49.7%
Female only	37.4%
Male only	6.1%
None	1.2%
No data	5.5%

Incubation


Increased activity increases predation risk



Incubation Period

- Incubation begins when clutch complete
 - Synchronized hatching

10 days



90 days

