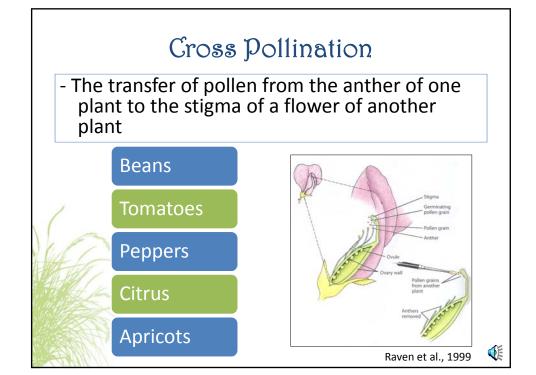
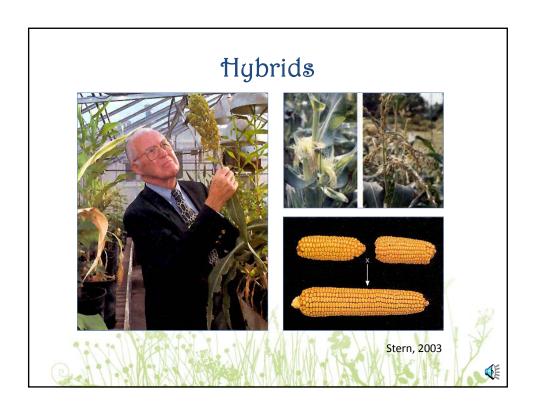
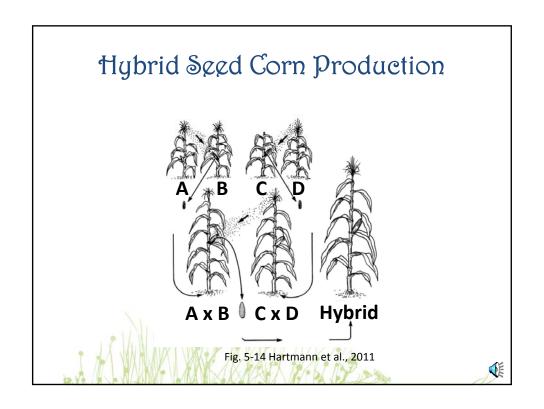


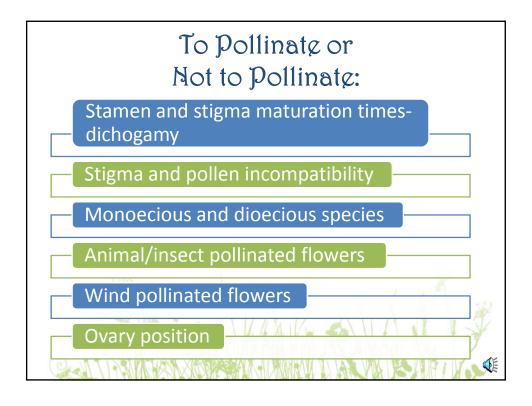
~·.	~	~• ·
Pivind	Darantal	Genotypes
	Parvillar	Ukizotubka
	J 7	

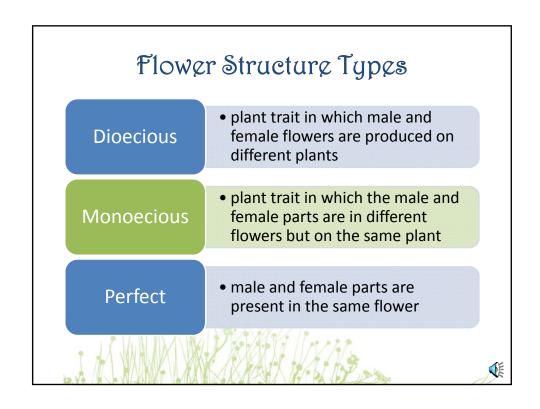
P1 1 1 F1 1 1 F2 1 2 1 F3 3 2 3 F4 7 2 7		DD	Dd	dd
F2 1 2 1 F3 3 2 3 F4 7 2 7	P1	1		1
F3 3 2 3 F4 7 2 7	F1		1	
F4 7 2 7	F2	1	2	1
	F3	3	2	3
FF 4F 2 4F	F4	7	2	7
15 2 15	F5	15	2	15
F6 31 2 31	F6	31	2	31
F7 126 2 126	F7	126	2	126

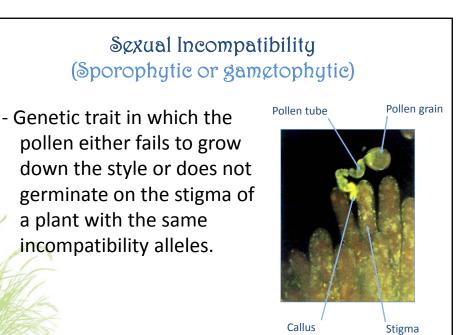






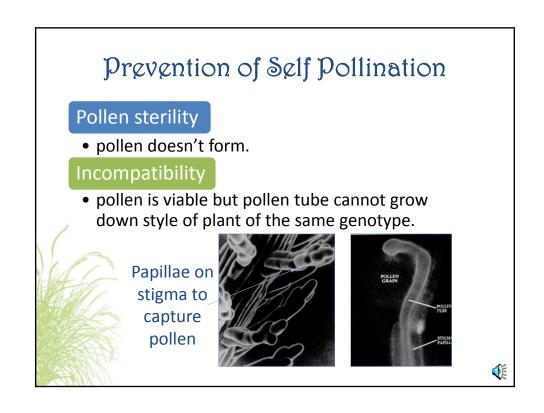






Mauseth, 1998

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Hybrids

- The F1 progeny of two or more parental lines

Hybrid Vigor

 when two lines are crossed and the resulting population has more size and vigor than either parent. The individual plants may be heterozygous but the population is likely to be homogeneous and uniform.



Genetically Pure Seed Trueness-to-name Trueness-to-type Photo credit: http://growwildflowers.com Free from contaminants

Pedigreed Stock System

 A controlled seed-production system of consecutive generations with standards to maintain genetic purity leading to commercial distribution







Control of Genetic Variability Puring Seed Production

Isolation

 achieved by isolating plants or flowers to prevent mechanical mixing of seed during harvest or prevent unwanted pollination.

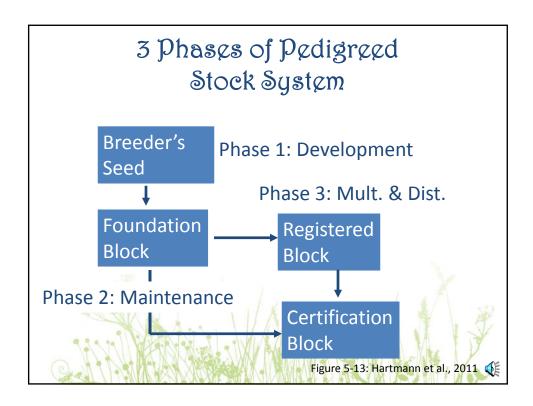
Roguing

 removing off-type plants to eliminate the small population that is not true to type.

Seedling progeny tests

 used in developing cultivars to test its adaptability to various environments.





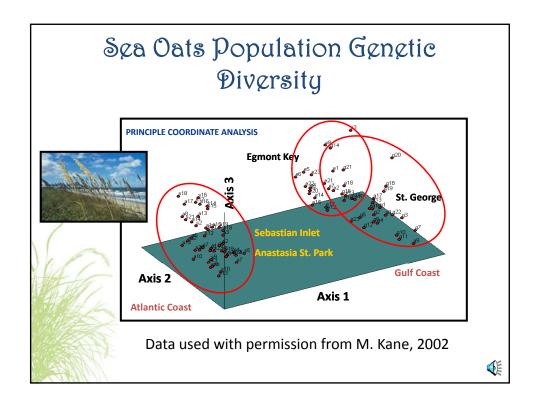
Provenance

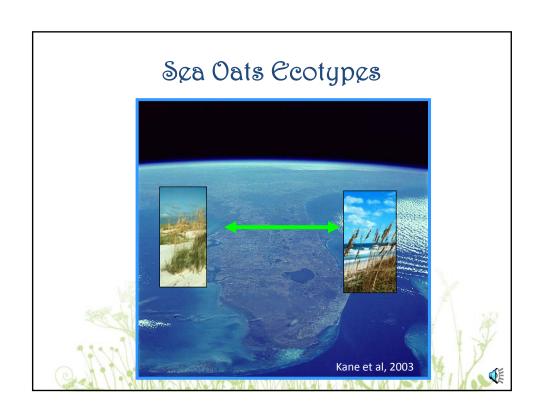
 A forestry term used to indicate the climatic and geographical locality where the seed originated

Ecotype

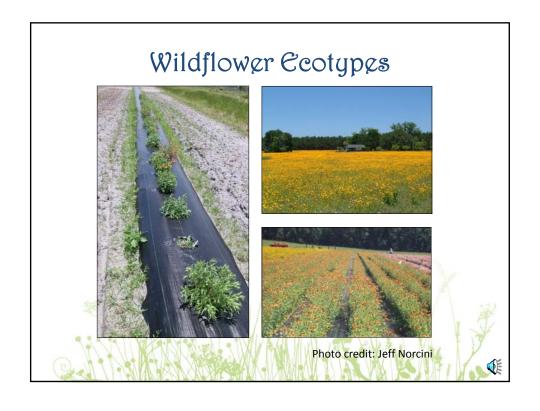
 A genetically distinct group of plants within a species that is adapted to a specific ecological location











Seed Collection Zones

-Naturally occurring zones (forest plants)
designated by elevation, latitude, and
longitude that identifies a specific seed source



California has 85 seed collection zones

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Variation in Progeny Performance Among
Pifferent Seed Sources

Washington
& BC

Hartmann et al., 2002