





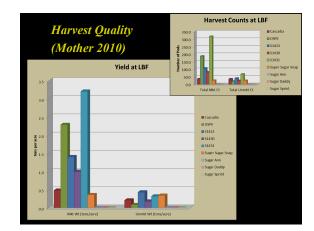






N	Methods: Snap Peas
	Pedigree selection: Manoa C x OSP II or S706
	Selection in conventional systems
	 Heat tolerance
	 Powdery mildew
	- Virus resistance
٠	2009 – trialed advanced pea lines in organic production
	 S1423, S1430 & S1431 seemed well adapted
٠	2010-2011 – Mother daughter trials w/ 6 commercial varieties

Mother Farm (LBF 2010)						
Variety	% Germi- nation	Days to Harvest	Pod Length (inches)	String Length (inches)		
Cascadia	12.2	63.0	2.8	2.7		
OSPII	67.2	54.0	3.3	3.3		
S1423	42.2	56.3	3.1	2.7		
S1430	30.6	63.3	3.1	2.6		
S1431	70.0	56.3	3.9	3.1		
Sugar Ann	1.7	-	-	-		
Sugar Daddy	6.1	-	-	-		
Sugar Spring	6.1	-	-	-		
Super Sugar Snap	33.9	60.7	3.2	2.9		







Cornell Program

- Backcross-inbred program to widen the genetic base of the edible podded peas
- Identify germplasm w/ abiotic and biotic stress tolerance & adapted to NE
- July planting: high temperatures, powdery mildew, fusarium root rot, ascochyta blight
- Three breeding populations in snap & snow backgrounds created w/ input from market growers and chefs

Cornell Breeding materials

- Stringless selections tobe derived from 900 backcross F₁ plants in 2012
- A second set of populations being created incorporating top performing peas from 2011 stress tolerance screen