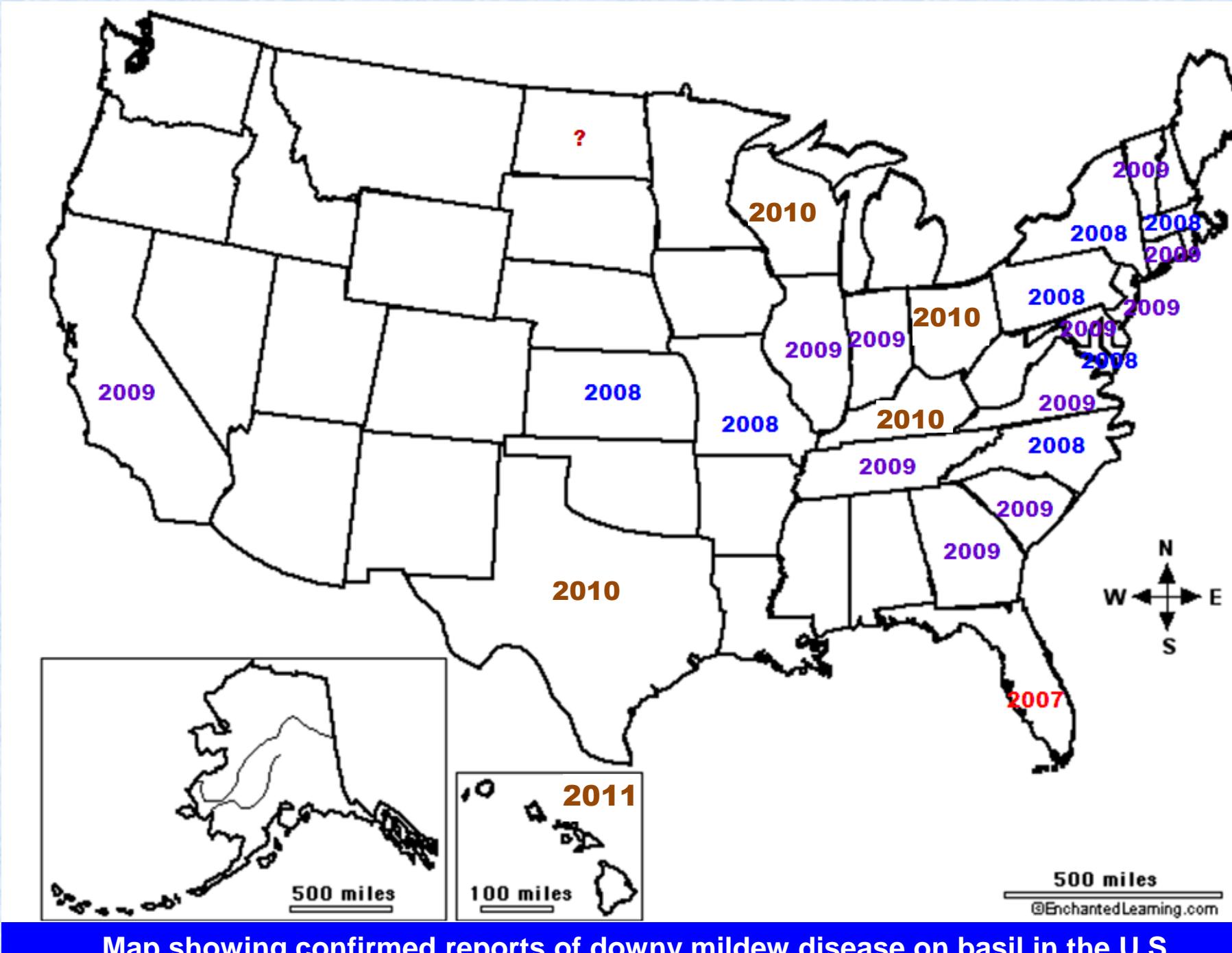


BASIL FIELD DAY – Basil Downy Mildew Management

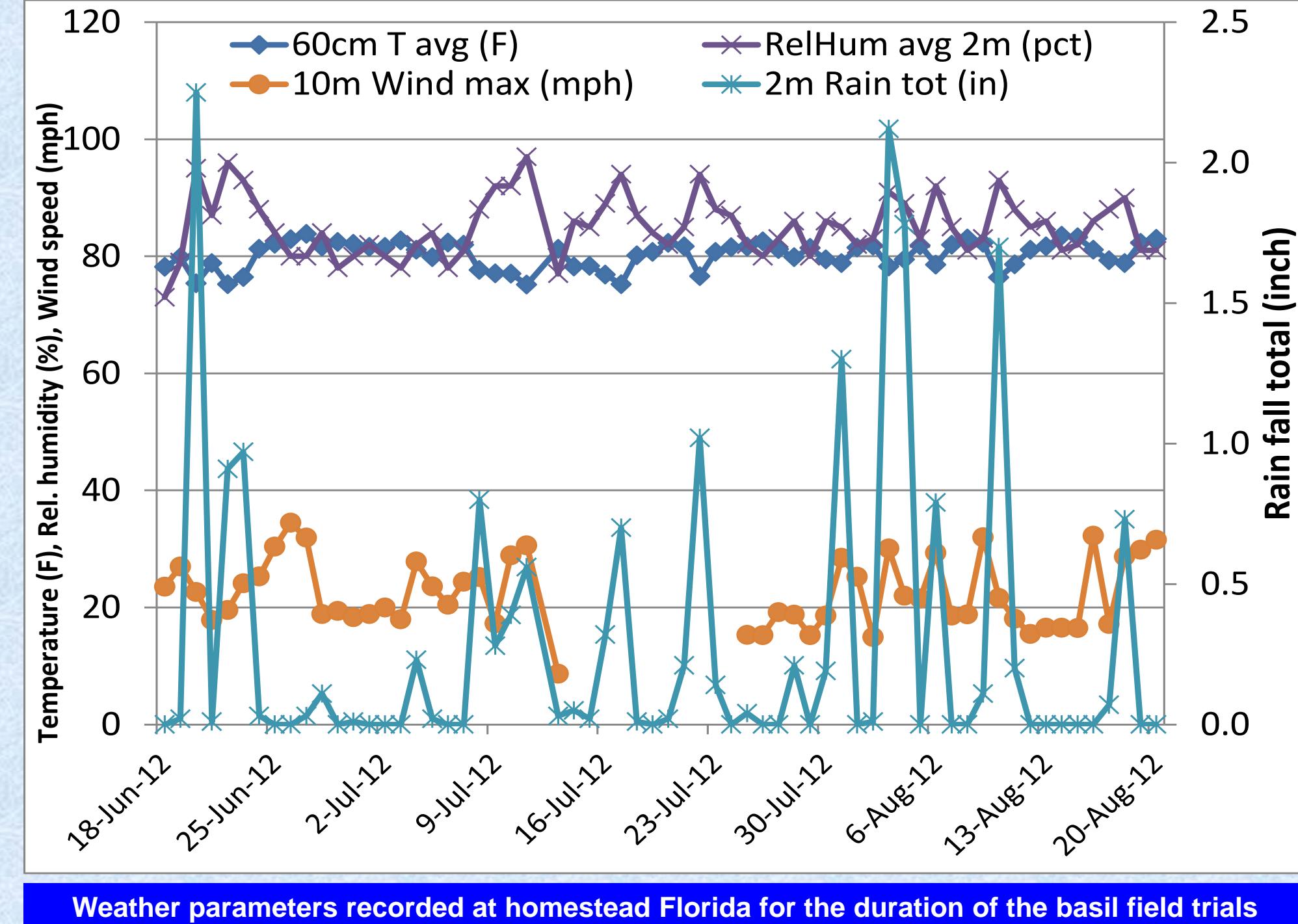
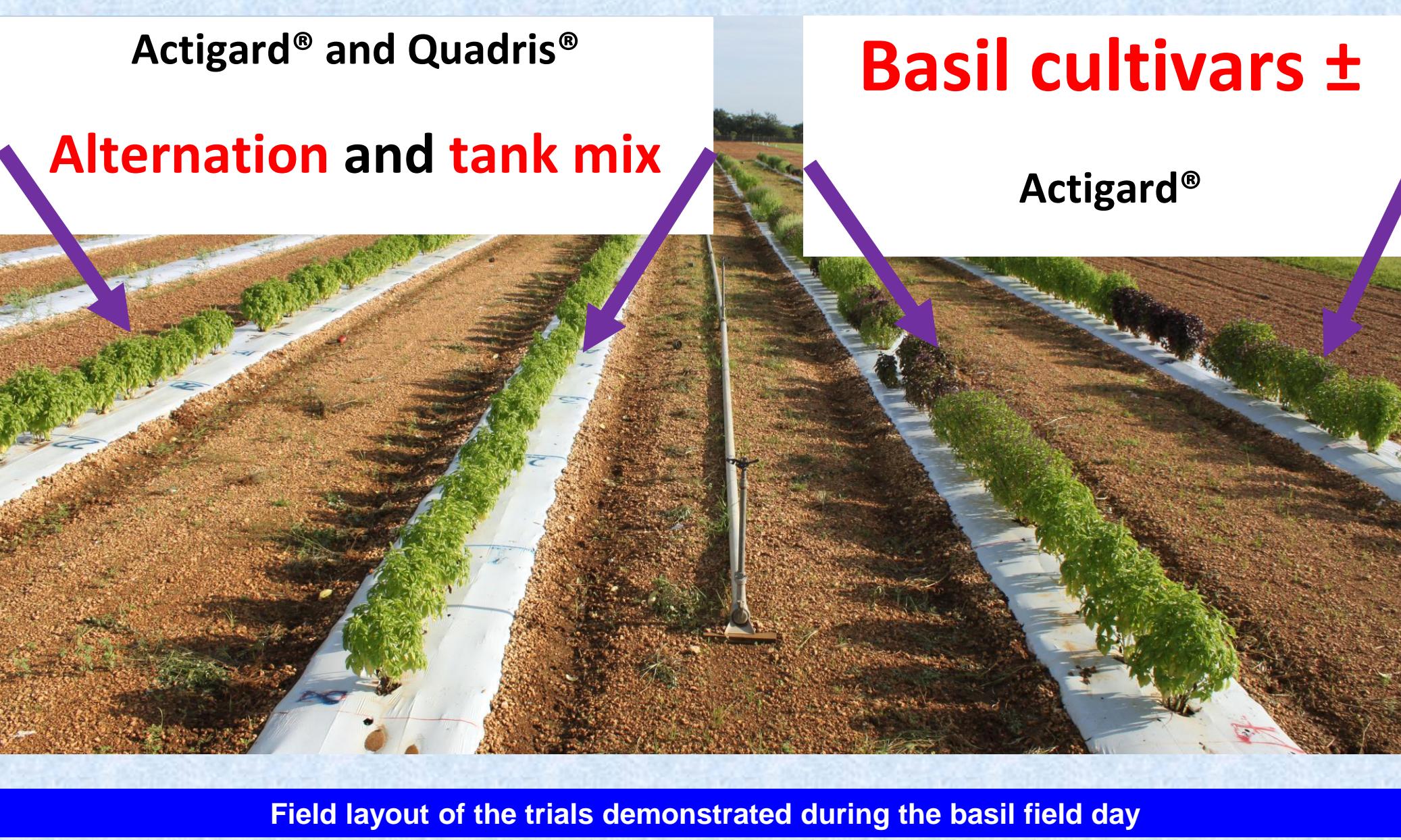
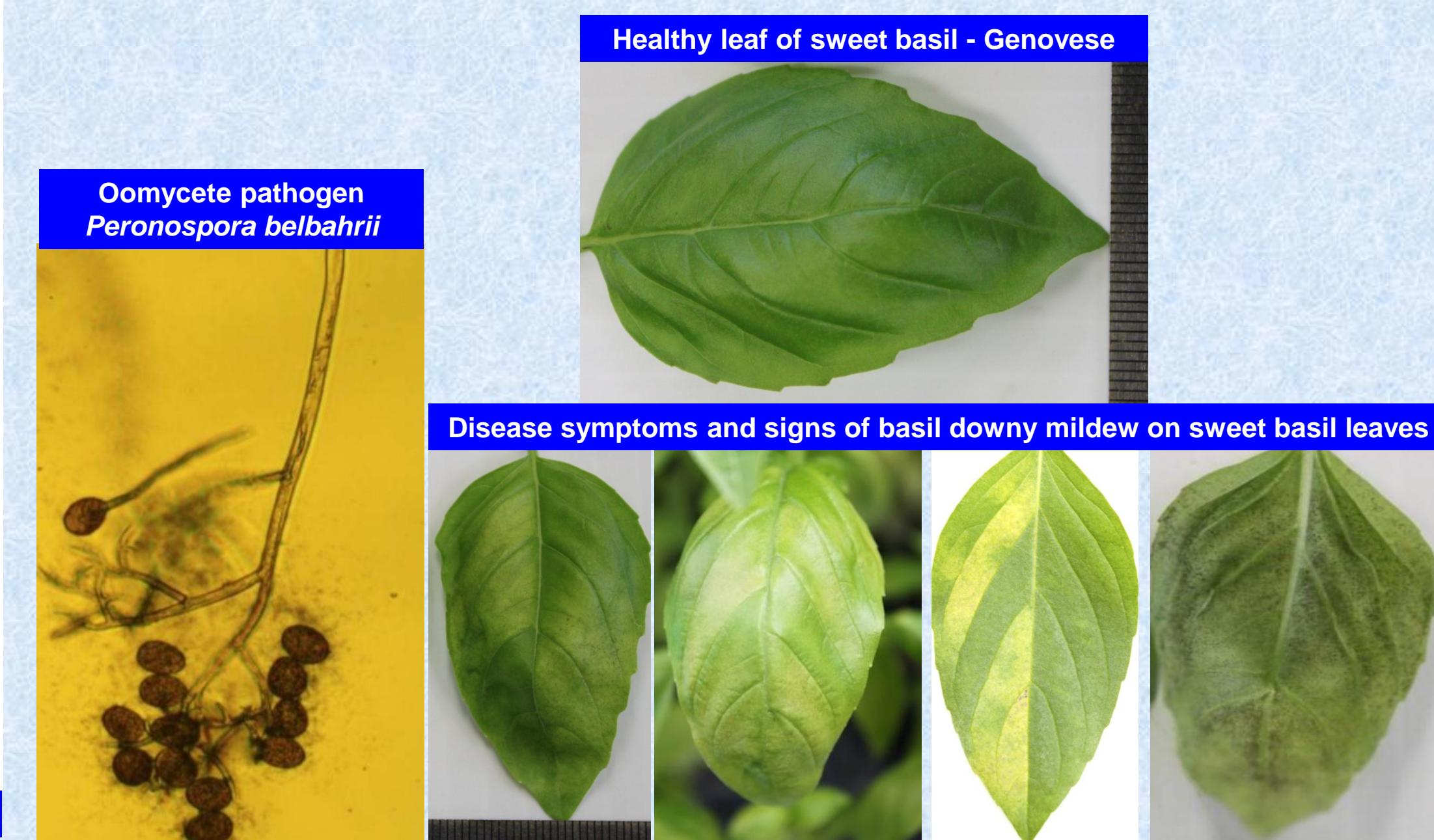
Zelalem Mersha, Shouan Zhang, Yuqing Fu, Jiebin Guo, Jake Herndon, Xiaodan Mo, Xiaohui Fan, Zhiguang Liu
UF/IFAS Tropical Research and Education Center

Mary Lamberts

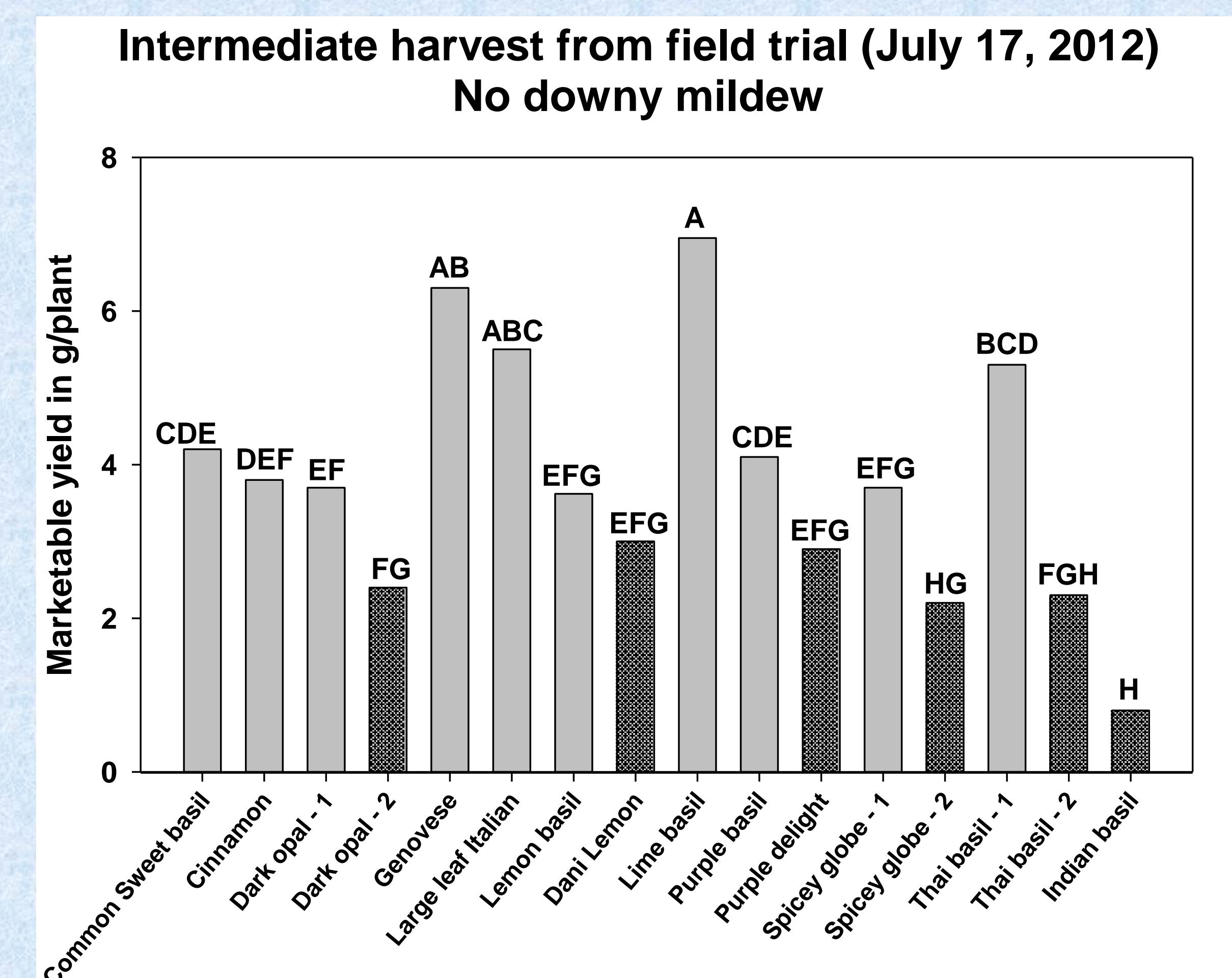
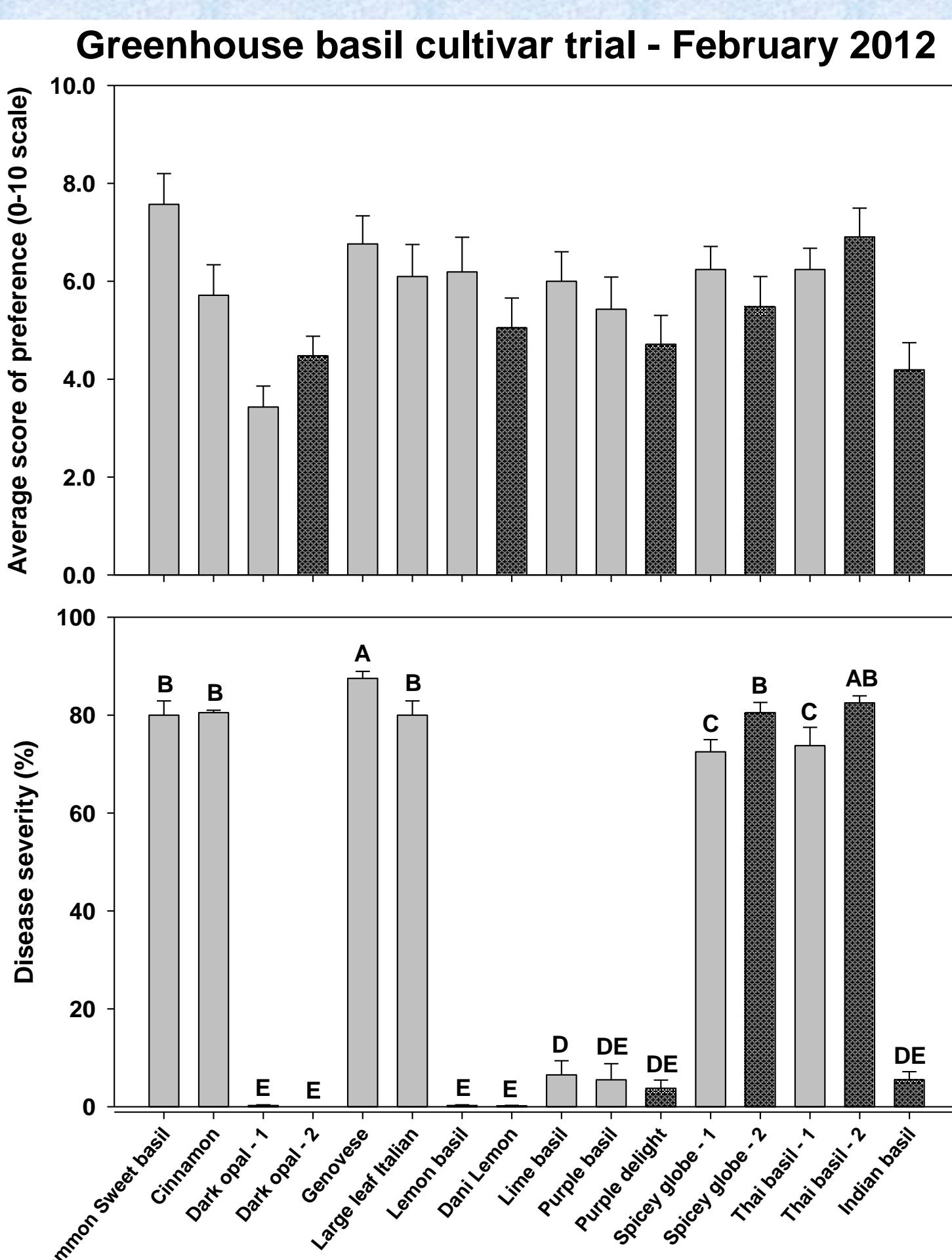
UF/IFAS Miami-Dade County Extension Services



BACKGROUND INFORMATION and FIELD LAYOUT



BASIL CULTIVARS and DOWNTY MILDEW MANAGEMENT



Cultivar	Marketable yield (g/plant) AUGUST 15, 2012	Disease severity (%) AUGUST 15, 2012
I. Common sweet basil	12.1	86.7
2. Cinnamon	24.5	15.0
3. Dark opal	11.1	27.1
4. Genovese	15.6	30.0
5. Large leaf Italian	10.8	86.2
6. Lemon basil	36.3	0.2
7. Lime basil	24.8	28.3
8. Purple basil	25.0	29.3
9. Spicy globe	10.1	60.8
10. Thai basil	8.1	40.5
11. Dani lemon	53.3	3.7
12. Dark opal	20.0	27.7
13. Indian basil	30.7	0.7
14. Purple delight	9.7	20.5
15. Spicy globe	15.5	73.4
16. Thai basil	3.9	82.0

Alternation and Tank mix of Actigard® with conventional fungicides

Harvesting (August 15, 2012)

Treatment	Alternation		% yield increase	Tank mix		% yield increase
	Disease severity (%)	Yield (g/plant)		Disease severity (%)	Yield (g/plant)	
ASM₀ Q₀	46.3	26.3		69.8	14.7	
ASM₀ Q_{1/4}	62.5	19.9	-24.3	43.4	16.2	10.2
ASM₀ Q_{1/2}	44.5	30.6	16.3	20.5	17.9	21.8
ASM₀ Q_{4/4}	16.5	60.4	129.7	8.3	28.0	90.5
ASM₇₅ Q₀	57.0	32.6	24.0	9.5	18.8	27.9
ASM₇₅ Q_{1/4}	9.8	62.8	138.8	12.9	31.0	110.9
ASM₇₅ Q_{1/2}	9.5	17.5	-33.5	7.8	37.1	152.4
ASM₇₅ Q_{4/4}	5.7	38.0	44.5	6.7	17.9	21.8
ASM₁₅₀ Q₀	73.4	11.3	-57.0	25.5	15.7	6.8
ASM₁₅₀ Q_{1/4}	37.0	21.6	-17.9	5.1	16.7	13.6
ASM₁₅₀ Q_{1/2}	40.5	20.9	-20.5	23.9	16.4	11.6
ASM₁₅₀ Q_{4/4}	21.5	36.0	36.9	3.3	61.0	315.0

Weekly assessment (on-going)

Treatment	Alternation			% Protection	Tank mix			% Protection
	Aug. 17, 2012	AUDPC	% Protection		Aug. 17, 2012	AUDPC	% Protection	
ASM₀ Q₀	79.0	623.9			84.5	816.4		
ASM₀ Q_{1/4}	30.0	327.3	47.5		21.9	231.4	62.9	
ASM₀ Q_{1/2}	31.2	255.1	59.1		16.3	170.2	72.7	
ASM₀ Q_{4/4}	25.4	231.4	62.9		12.3	67.4	89.2	
ASM₇₅ Q₀	38.1	293.7	52.9		54.4	445.4	28.6	
ASM₇₅ Q_{1/4}	11.9	80.9	87.0		8.9	48.6	92.2	
ASM₇₅ Q_{1/2}	9.3	68.3	89.1		4.9	32.8	94.7	
ASM₇₅ Q_{4/4}	6.0	53.4	91.4		8.2	25.5	95.9	
ASM₁₅₀ Q₀	54.4	105.6	83.1		13.3	352.2	43.5	
ASM₁₅₀ Q_{1/4}	21.9	184.2	70.5		4.4	34.6	94.5	
ASM₁₅₀ Q_{1/2}	19.0	122.5	80.4		3.1	21.4	96.6	
ASM₁₅₀ Q_{4/4}	12.3	97.1	84.4		2.3	15.6	97.5	

PS: None of the products tested in these field trials are currently registered for control of downy mildew on basil.