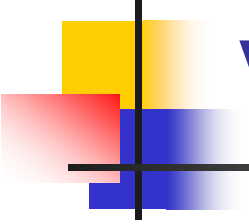


Vegetable Garden

Augusta Forestry Center

South River Science Team
Meeting

June 24, 2003



Vegetable Garden Study

Objective - Determine if soil-Hg is taken-up by vegetables at concentrations sufficient to be a health risk

Augusta Forestry Center – Crimora, VA



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Sampling circle of about 1-m diameter centered over the grid location



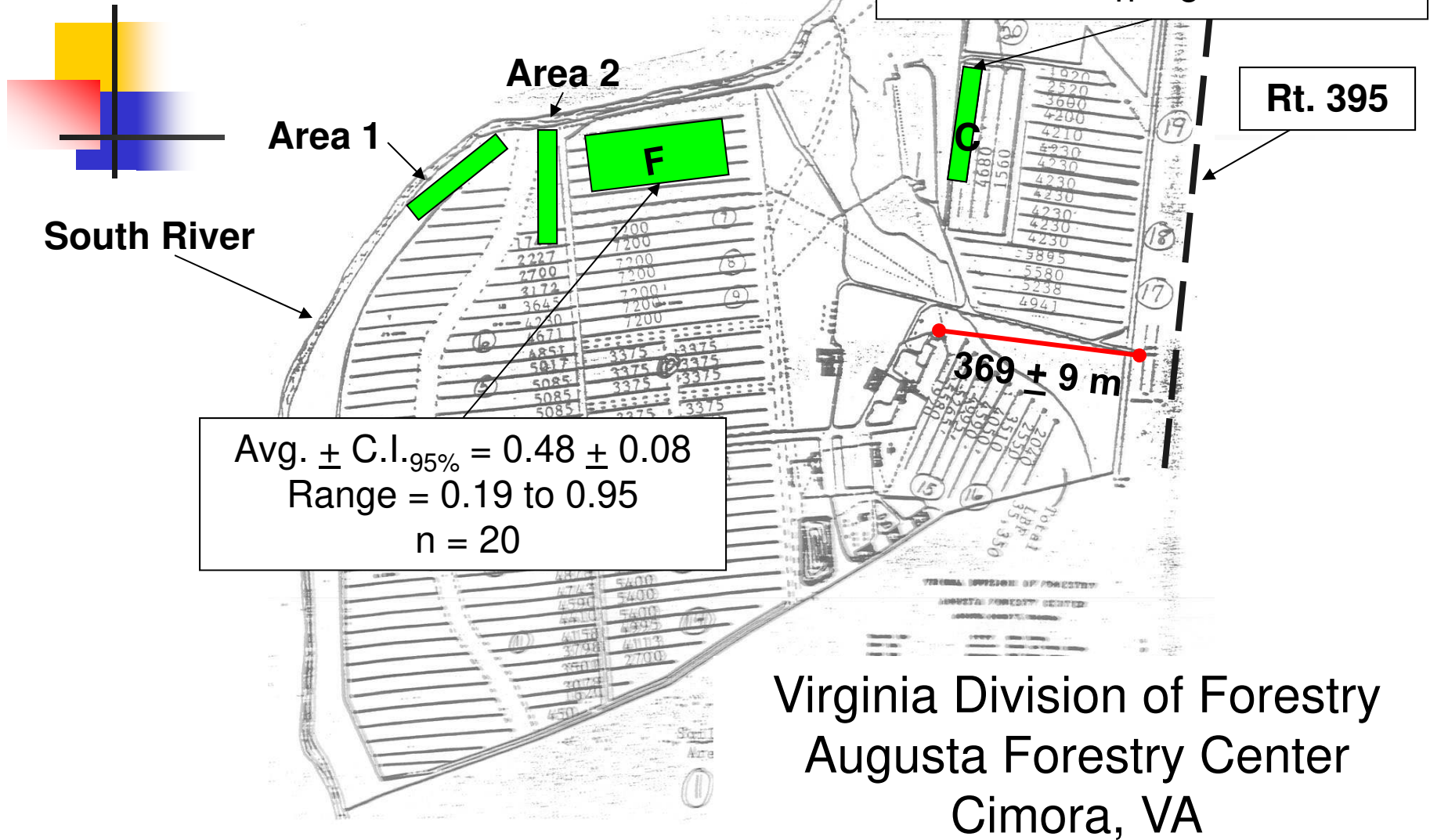
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Coring device used to collect samples



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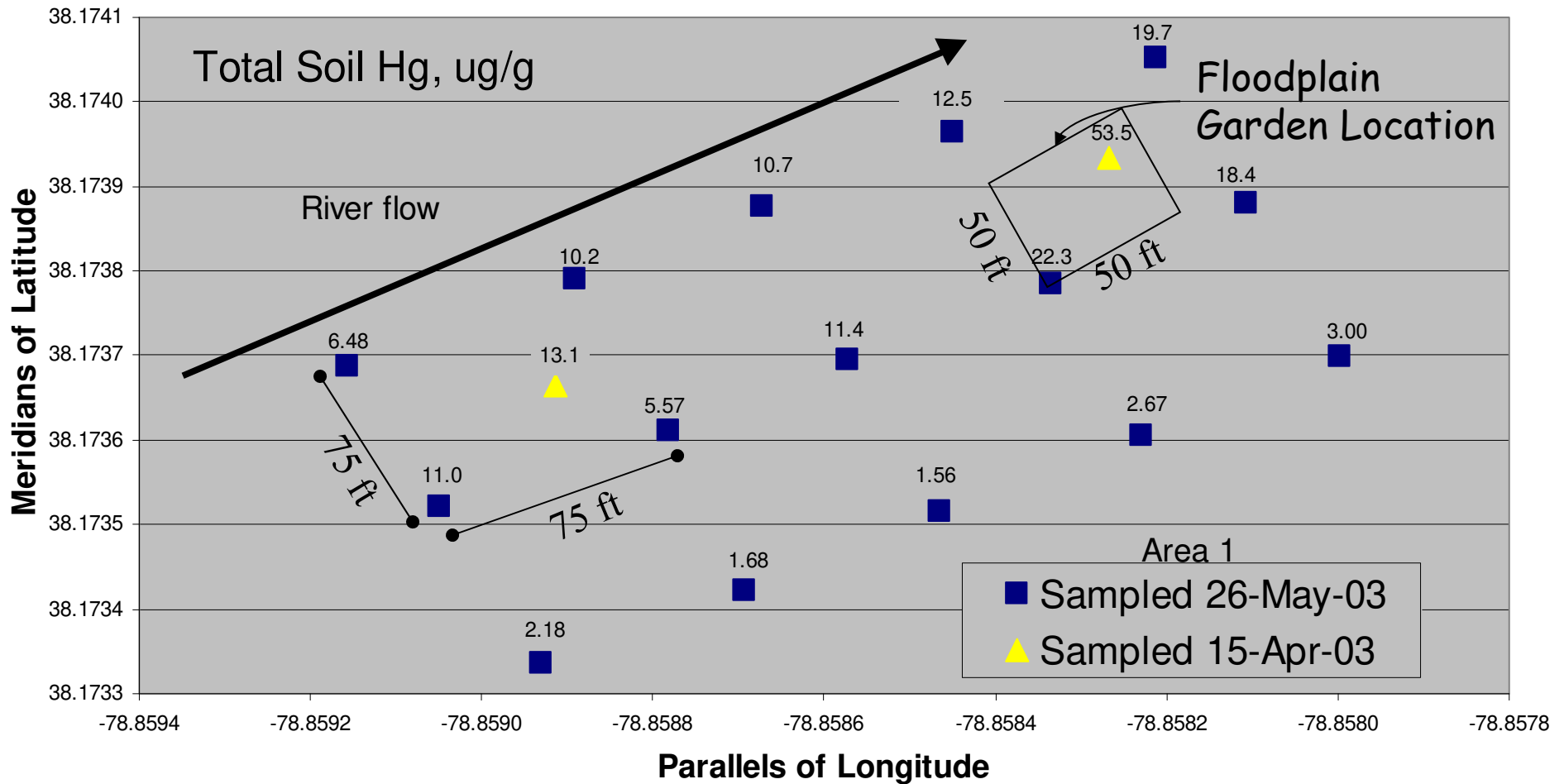
Locations of Areas Sampled April 14-15 & May 26-27, 2003





7

Floodplain Area 1



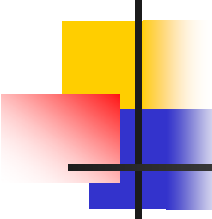
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Not to scale



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Completely Randomized Design



Radish	Tomato	Tomato	Radish	Onion	Radish	Crop 10	Tomato	Potato	Onion	10
										3
Cabbage	Crop 9	Crop 9	Crop 10	Cabbage	Crop 8	Radish	Squash	Cabbage	Crop 8	10
										3
Crop 9	Carrot	Potato	Squash	Crop 10	Tomato	Squash	Crop 10	Cabbage	Carrot	10
										3
Potato	Carrot	Crop 8	Onion	Carrot	Onion	Squash	Potato	Crop 9	Crop 8	10
5	5	5	5	5	5	5	5	5	5	ft

Control Area

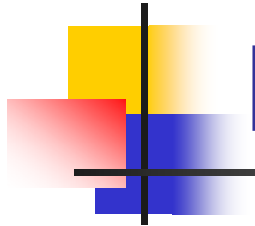


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Soil Sampling Results for Hg - Control Area

- All values are estimated.
 - The result falls between the Method of Detection Limit (MDL = 0.012) and Limit of Quantification (LOQ = 0.12?)
- Average 0.027 ug Hg/g soil with a 95% confidence interval of 0.003, n = 8
- Total Soil Hg concentrations ranged from 0.020 to 0.032 ug Hg/g soil dry weight



Path Forward

- Plant garden
 - Lime and fertilize according to soil test recommendations
 - Plant in both floodplain and control areas