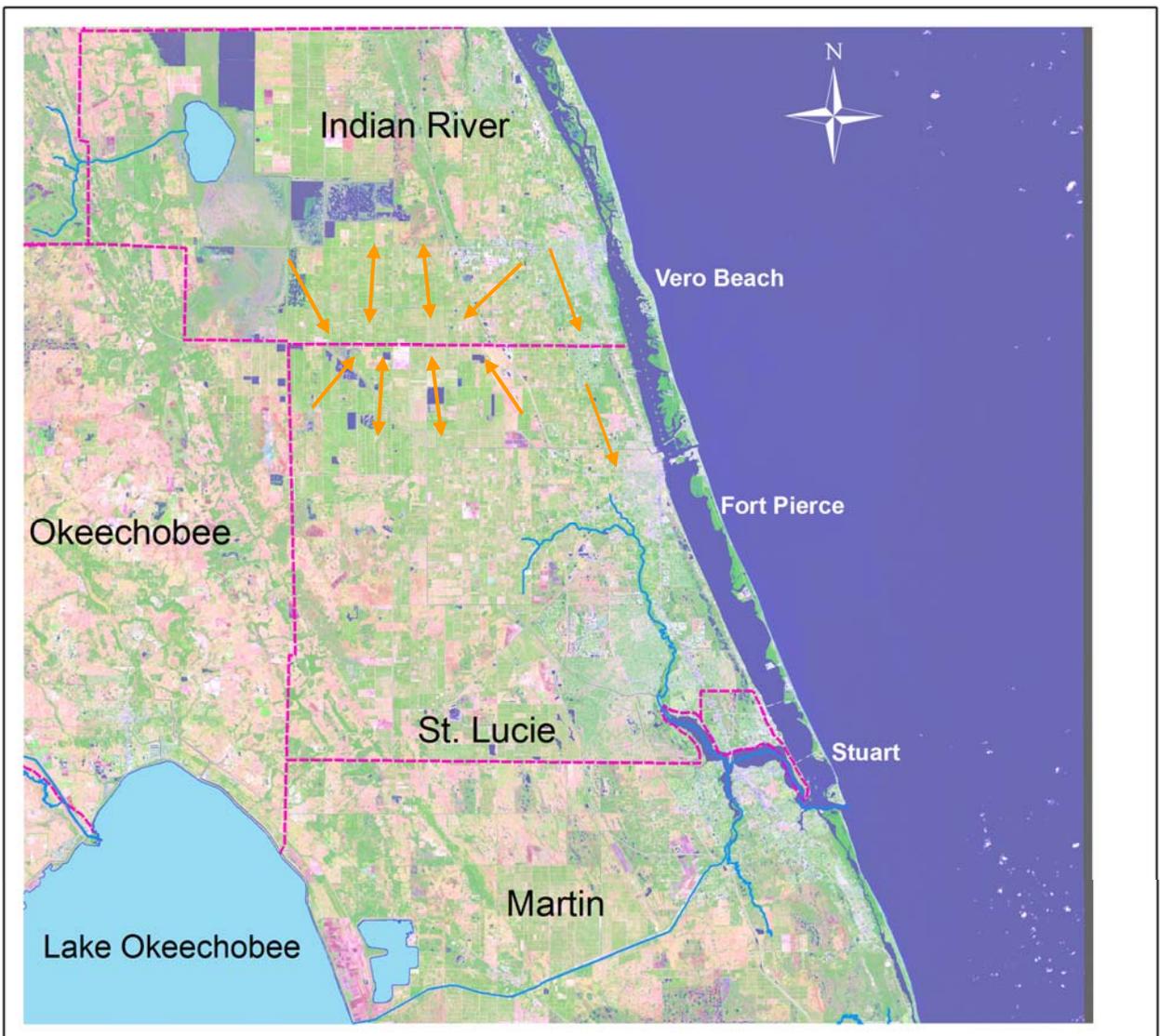


# Overview Of Cooperative Project To Address Excess Surface Water In St. Lucie And Indian River Counties

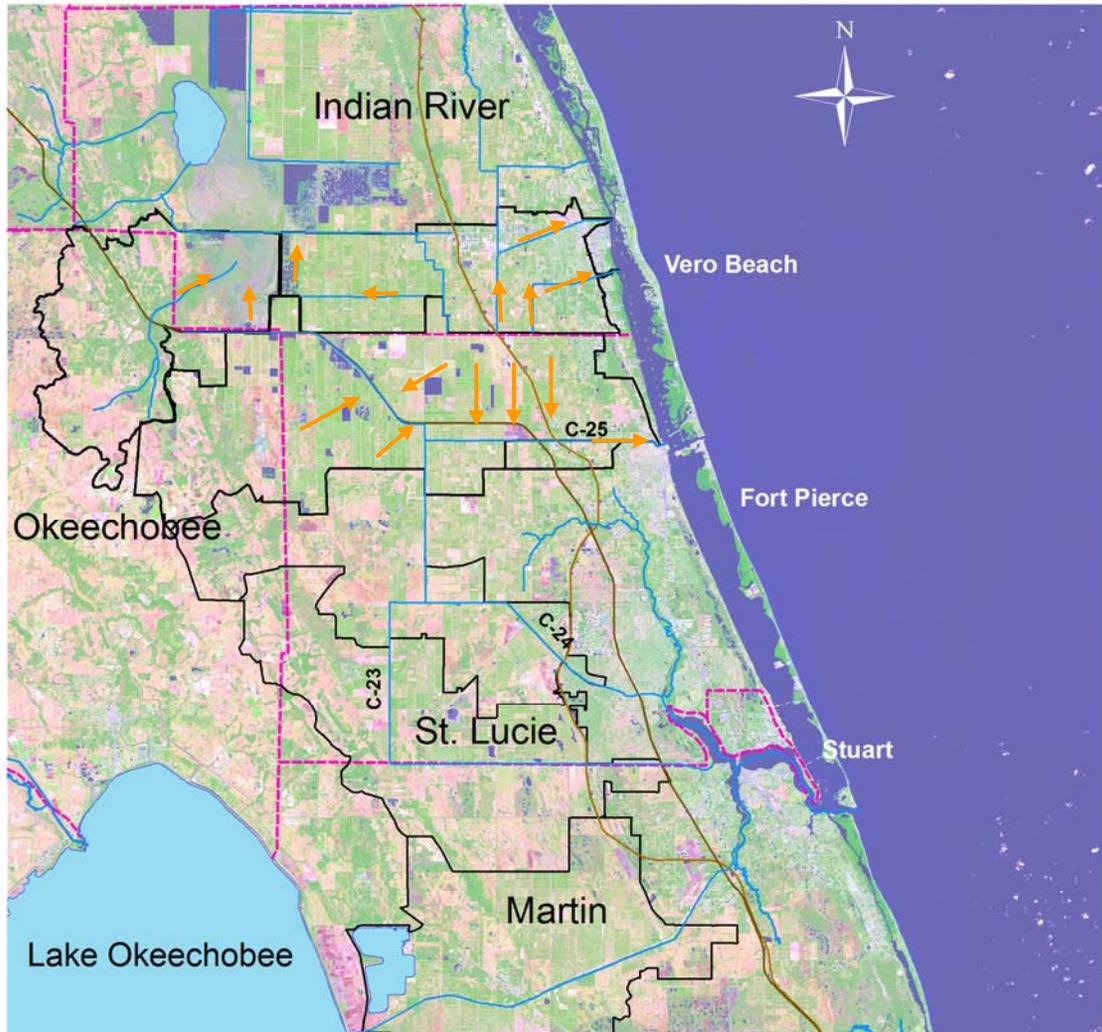
*Mark Elsner, P.E.  
Director, Water Supply Implementation  
October 11, 2007*



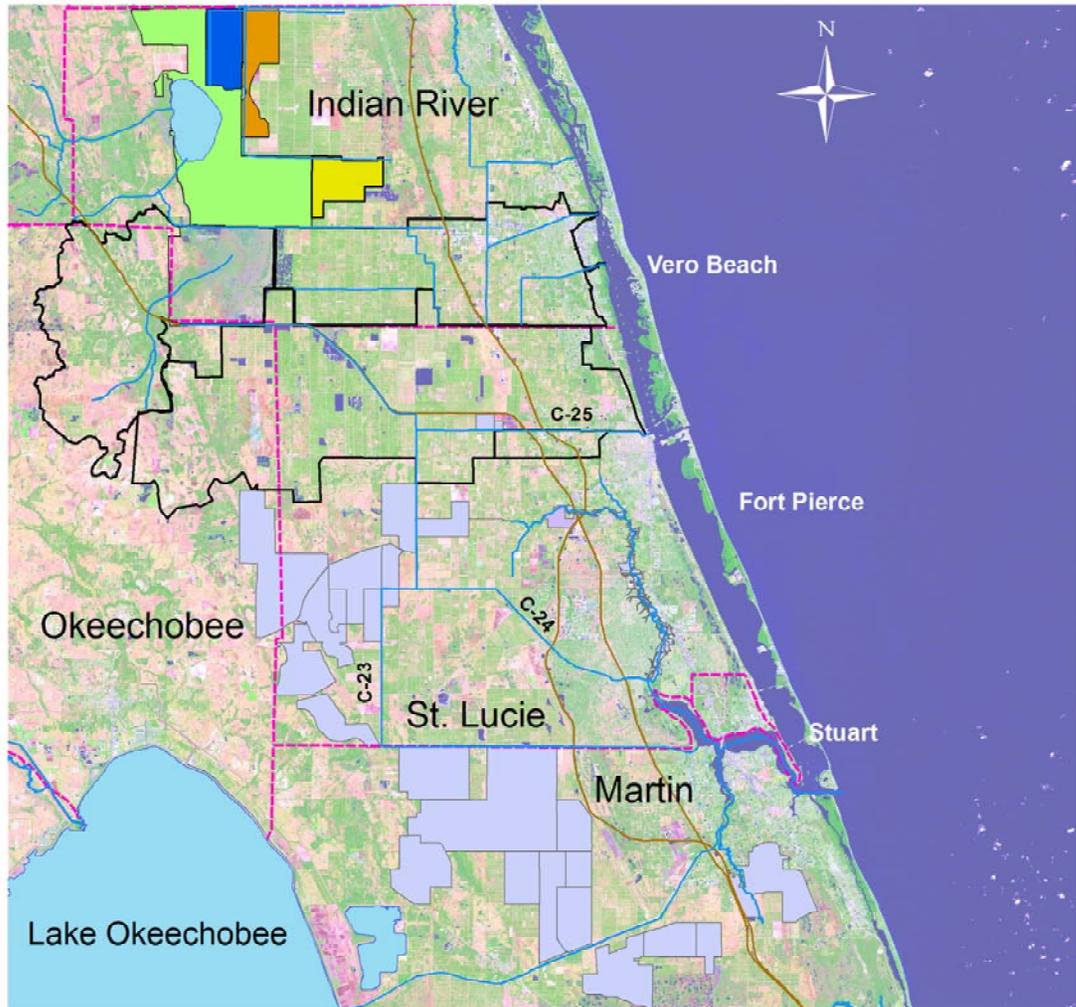
# Pre Central and South Florida Project Drainage



# Post Central and South Florida Project Drainage



# C-25 Project Study Area



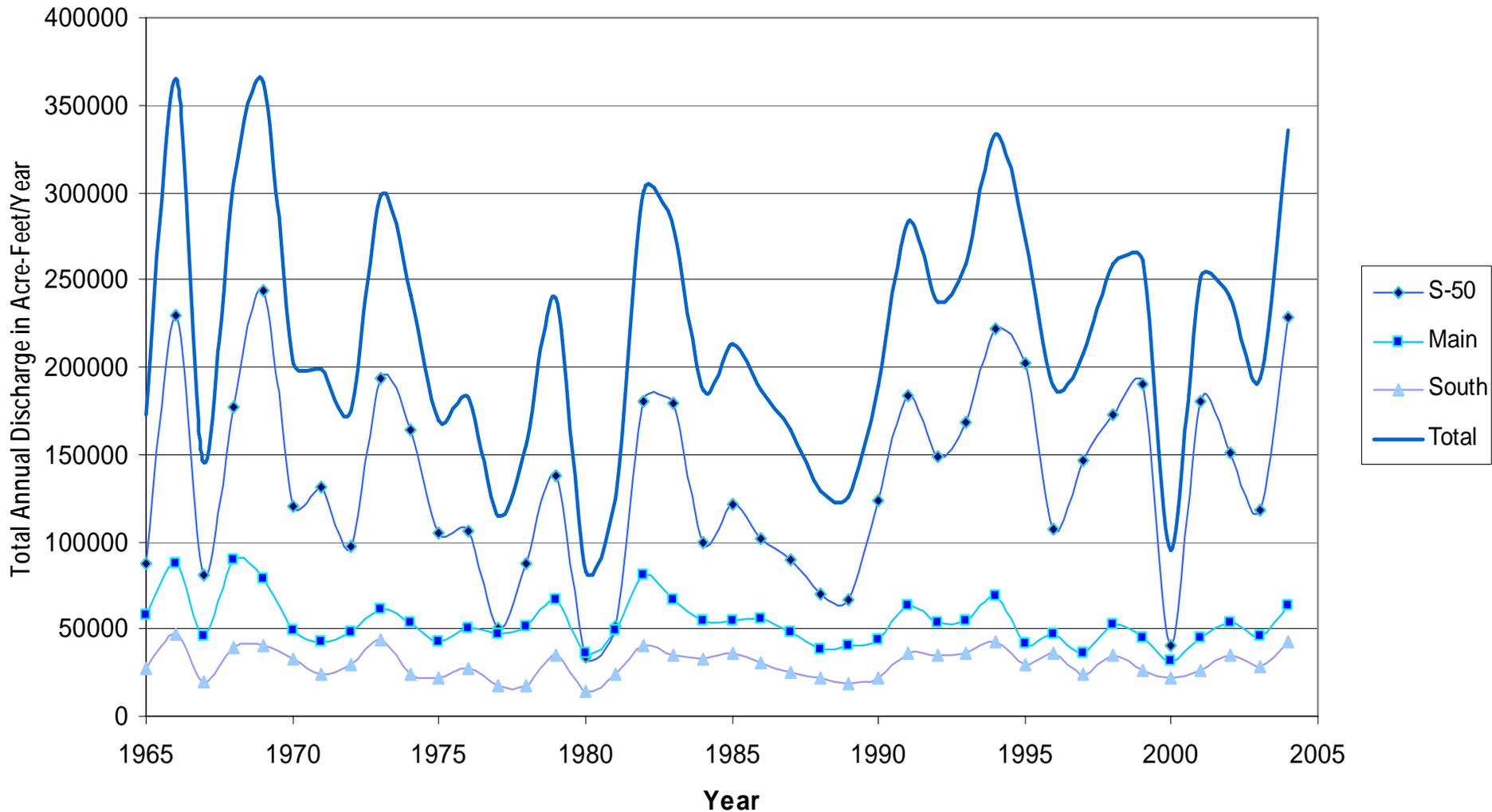
- Blue Cypress Conservation Area
- Blue Cypress Water Management Area
- ST. Johns Water Management Area
- Fellsmere Water Management Area
- Indian River Lagoon Components
- C-25 Basin

# C-25 Basin Discharges to Indian River Lagoon

	C-25 Canal	Indian River Farms	
	S-50	Main	South
<b>Years of Record</b>	<b>1965-2005</b>	<b>1949-2004</b>	<b>1950-2004</b>
<b>Grand Total (acre-ft)</b>	<b>5,540,675</b>	<b>3,008,205</b>	<b>1,573,950</b>
<b>Median (acre-ft per year)</b>	<b>131,513</b>	<b>50,729</b>	<b>29,028</b>
<b>Minimum* (acre-ft per year)</b>	<b>33,524</b>	<b>19,141</b>	<b>10,256</b>
<b>Maximum (acre-ft per year)</b>	<b>243,780</b>	<b>96,637</b>	<b>47,139</b>
<b>Standard Deviation (acre-ft per year)</b>	<b>55,081</b>	<b>14,942</b>	<b>9,070</b>

\* Minimum volumes for S-50 and Main are conservative in that there were days of missing records

# Annual Discharge 40-Year Record (1965-2004)



# District Projects within the Study Area

- Upper East Coast Water Supply Plan Update (2004)
- Indian River Lagoon South PIR and Environmental Impact Statement
- Northern Everglades Initiative – St. Lucie River Estuary

# Potential Issues Effecting C-25 Project Study

- Use a set of models developed for the Indian River Lagoon South Study to “optimize” the proposed storage (~21,000 acres) for environmental and other beneficial uses
- Interbasin surface water transfer if local storage is not sufficient to capture local basin runoff within the District’s boundaries
- Hydraulic system improvements to provide flexibility to surface water management and potential reduction in cost