

Water Storage and Treatment is the Solution

NORTH VS. SOUTH STORAGE

NORTH*

Acre-Feet of Storage



5,500 Completed or Underway
20,000 Planned
25,500 Total

Water flowing into Lake Okeechobee north of the lake contributes 92% of total flow into the lake.

Most of the harmful nutrients flowing directly into the lake enter from the north.

Lake Okeechobee

Water flowing into Lake Okeechobee from south of the lake contributes 3% of total flow into the lake.

Caloosahatchee River contributes approximately 2% of water flow into the lake.

1,000,000 acre-feet of water storage north and south of Lake Okeechobee is recommended to significantly reduce discharges to the coastal estuaries – with 3/4 of that storage or up to 750,000 acre-feet needed north of the lake. — University of Florida Water Institute Study, 2015

* Kissimmee River Restoration excluded from the University of Florida Study.

St. Lucie Canal contributes approximately 3% of water flow into the lake.

EAST

Acre-Feet of Storage



63,000 Completed or Underway
98,000 Planned
161,000 Total

WEST

Acre-Feet of Storage



170,000 Completed or Underway
1,000 Planned
171,000 Total

SOUTH

Acre-Feet of Storage



228,000 Completed or Underway
82,000 Planned
310,000 Total

Benefits of Northern Storage:

- Reduces damaging releases to the Caloosahatchee and St. Lucie estuaries by capturing water and storing it.
- Provides treatment to reduce the amount of harmful nutrients (phosphorus and nitrogen) entering the lake.
 - Water quality monitoring shows 92% of phosphorus loadings and 87% of nitrogen loadings enter the lake from the north.
- Provides the greatest flexibility for delivering water when and where it is needed for water supply.
- Allows for releases into the Caloosahatchee River and Estuary during the dry season to protect the health of the river and estuary.

How much is an acre-foot of water?

The volume needed to cover 1 acre of land with 1 foot of water

Two acre-feet of water is enough water to fill an Olympic size swimming pool.

“Water stored north of the lake provides the greatest flexibility for operating the water management system to balance and improve missions of flood control, water supply, water quality and natural systems.”

— John P. Mitnik, P.E., Chief Engineer
 South Florida Water Management District

Water Storage and Treatment is the Solution

NORTH VS. SOUTH INVESTMENTS

To date, investments south for water storage are approximately 20 times greater than investments north.

NORTH*

Investments



\$120M Completed or Underway

\$TBD Planned

\$120M Total

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EAST

Investments



\$810M Completed or Underway

\$1.1B Planned

\$1.9B Total

WEST

Investments



\$611M Completed or Underway

\$222M Planned

\$833M Total

SOUTH

Investments

\$2.1B Completed or Underway

\$2B Planned

\$4.1B Total



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SFWMD Capital Projects

North

Projects Planned	Acre Feet	Planned Cost (Millions)
Lake Okeechobee Aquifer Storage and Recovery Pilot Project	6,700	TBD
Taylor Creek/L-63N Canal Aquifer Storage and Recovery	13,400	TBD
Number of Projects - 2	20,100	TBD

Projects Completed or Underway	Acre Feet	Planned Cost (Millions)
Lakeside Ranch Storwater Treatment Area	4,050	92
Nubbin Slough Storwater Treatment Area	1,214	14
Taylor Creek Storwater Treatment Area	213	14
Number of Projects - 3	5,477	120

Note: Capital Project information excludes Dispersed Water Management and is generally consistent with the U.S. Army Corps of Engineers Integrated Delivery Schedule and Governor's 20-Year Plan.

SFWMD Capital Projects

South

Projects Planned	Acre Feet	Planned Cost (Millions)
A-2 Flow Equalization Basin	56,000	1,064
Broward County Water Preserve Area	19,154	898
Hillsboro Aquifer Storage and Recovery Project	6,700	TBD
Number of Projects - 3	81,854	1,963

Projects Completed or Underway	Acre Feet	Planned Cost (Millions)
Restoration Strategies	142,333	949
Stormwater Treatment Areas	85,500	1,200
Number of Projects - 2	227,833	2,149

Note: Capital Project information excludes Dispersed Water Management and is generally consistent with the U.S. Army Corps of Engineers Integrated Delivery Schedule and Governor's 20-Year Plan.

SFWMD Capital Projects

East

Projects Planned	Acre Feet	Planned Cost (Millions)
Indian River Lagoon South - C-23/24 and C-25 Reservoirs and Stormwater Treatment Area	97,900	1,077
Number of Projects - 1	97,900	1,077

Projects Completed or Underway	Acre Feet	Planned Cost (Millions)
Indian River Lagoon South - C-44 Reservoir/Stormwater Treatment Area	60,200	751
Ten Mile Creek	3,185	59
Number of Projects - 2	63,385	810

Note: Capital Project information excludes Dispersed Water Management and is generally consistent with the U.S. Army Corps of Engineers Integrated Delivery Schedule and Governor's 20-Year Plan.

SFWMD Capital Projects

West

Projects Planned	Acre Feet	Planned Cost (Millions)
C-43 Water Quality Treatment and Testing Facility	TBD	119
Lake Hicpochee Restoration	1,280	103
Number of Projects - 2	1,280	222

Projects Completed or Underway	Acre Feet	Planned Cost (Millions)
C-43 West Basin Storage Reservoir	170,000	611
Number of Projects - 1	170,000	611

Note: Capital Project information excludes Dispersed Water Management and is generally consistent with the U.S. Army Corps of Engineers Integrated Delivery Schedule and Governor's 20-Year Plan.