








STA-1E Operational Timeline

Calendar Year	2004				2005				2006				2007				2008						
Water Year (May - Apr)	WY2005 (Hurricane Impacts)				WY2006 (Hurricane Impacts)				WY2007 (Regional Drought)				WY2008 (Regional Drought)				WY2009 (Regional Drought)						
Month	Jul - Aug	Sep Hurricanes Frances & Jeanne	Oct - Dec	Jan - Apr	May - Jul	Aug - Sep	Oct Hurricane Wilma	Nov - Dec	Jan - Apr	May - Jul	Jul - Dec	Aug Tropical Storm Ernesto	Sep - Dec	Jan - Apr	May	Jun - Sep	Sep - Dec	Jan - Apr	May - Jun	Jun - Jul	Aug Tropical Storm Fay	Sep - Dec	Jan - Mar
Eastern Flow-way (EFW) Cells 1/2																							
Central Flow-way (CFW) Cells 3/4N/4S		Emergency Operations, cell hydration																					
Western Flow-way (WFW) Cells 5/6/7		Emergency Operations, cell hydration																					
<i>Details:</i>																							
On-line	Prior to operation	EFW, CFW, WFW temporarily on-line in response to hurricane flood conditions					CFW & WFW on-line							CFW & WFW on-line; EFW hydrated and passed WQ start-up in Sep 2007	All FW's on-line (EFW restricted capacity due to USACOE PSTA project)	CFW & WFW on-line	All FW's on-line (EFW w/restrictions)						
Notes													Acme Basin B discharge redirected from WCA1 to C-51 Dec 2006										
Off-line																							EFW off-line (5/1/08 - 6/9/08)

Indicates Off-line
Indicates Restricted Flow
Indicates On-line

-  Indicates Construction Activities
-  Indicates Vegetation Management Activities
-  Indicates Rehabilitation Activities

STA-1E Operational Timeline

Calendar Year	2009			2010			2011			2012
Water Year (May - Apr)	WY2010			WY2011 (Regional Drought)			WY2012 (Regional Drought)			
Month	Apr	May-Oct	Nov-Dec	Jan-Apr	May - Jun	Jul - Dec	Jan - Apr	May-Oct	Nov-Dec	Jan - Apr



Details:

On-line	CFW & WFW On-line	CFW on-line	EFW (with restrictions) & CFW on-line	All FW's on-line (EFW restricted due to PSTA)	EFW (restricted due to PSTA) & CFW on-line	All FW's on-line (EFW & WFW with restrictions)
Notes		Decline in SAV (hydrilla) in Cell 6 in May 2009	Decline in SAV in Cells 4N & 4S in Feb/Mar 2010		Structure repairs @ S-367B, S-375, S-370C, S-373B, S-374A; coffer dams @ S-370C, S-373B, S-374A	
Off-line	EFW off-line for S-365A & B structure repairs (4/25/09 - 1/24/10)	EFW off-line structure repair (S-365 A&B); WFW off-line 10/13/09 - 6/14/10 for rehabilitation activities	WFW off-line for rehabilitation activities (10/13/09 - 6/14/10)		WFW off-line (11/29 - 12/19/11) vegetation enhancements in Cell 7	

S-375 repairs (off-line starting Mar08)

Indicates Off-line

Indicates Restricted Flow





Indicates On-line

Indicates Construction Activities

Indicates Vegetation Management Activities

Indicates Rehabilitation Activities

STA-1W Operational Timeline

Calendar Year	1994 - 1998			1999 - 2002				2003				2004						
Water Year (May - Apr)	WY1994 - WY1999			WY2000 - WY2001 (Regional Drought: 10/99 - 8/01)				WY2002 Regional Drought: 10/99 - 8/01	WY2003			WY2004						
Month		Oct 1999 Hurricane Irene						May -Dec	Jan - Feb	Mar - Apr	May-Aug	Sep-Dec	Jan-Feb	Mar-Apr	Apr - Jun	Jul - Jul	Aug	Sep Hurricanes Frances & Jeanne
	 																	
Northern Flow-way (NFW) Cells 5A/5B	Not Constructed																	
Eastern Flow-way (EFW) Cells 1/3																		
Western Flow-way (WFW) Cells 2/4																		


Details:

On-line	Everglades Nutrient Removal (ENR) Project on-line starting 8/94 (EFW & WFW)	NFW, EFW, & WFW on-line. ENR Project ceased to exist as a separate entity when new NPDES & EFA permits were issued in 5/99. NFW flooded 3/99, passed start-up 2/00, and discharged in 7/00; G-310 did not discharge until 7/00 (see ECR 2000, ECR 2001, ECR 2002).	EFW & WFW on-line	All FW's on-line	NFW & EFW on-line	All FW's on-line (NFW capacity (150 cfs) 11/ because of hurricane
Notes			Large Lake Okeechobee regulatory releases received 7/02 - 2/03			
Off-line				NFW off line for limerock berm construction (3/03 - 8/14/03)		WFW off-line to remove cattail tussocks in Cell 2 and plant rehabilitation in Cell 4

Indicates Off-line

Indicates Restricted Flow

Indicates On-line

-  Indicates Construction Activities
-  Indicates Vegetation Management Activities
-  Indicates Rehabilitation Activities

STA-1W Operational Timeline

Calendar Year	2005										2006			2007		
Water Year (May - Apr)	WY2005 (Hurricane Impacts)					WY2006 (Hurricane Impacts)					WY2007 (Regional Drought)			WY2008		
Month	Oct	Nov	Dec	Jan	Feb - Apr	May - Jun	Jul - Aug	Sep	Oct Hurricane Wilma	Nov - Dec	Jan - Apr	May - Jul	Aug Tropical Storm Ernseto	Sep - Dec	Jan - Apr	May - Aug
Northern Flow-way (NFW) Cells 5A/5B																
Eastern Flow-way (EFW) Cells 1/3																
Western Flow-way (WFW) Cells 2/4																
Details:																
On-line	restricted 04 - 12/04 damage)	EFW & WFW on-line	All FW's on-line (NFW restricted capacity (150 cfs) 11/04 - 12/04 because of hurricane damage)	NFW & EFW on-line	EFW on-line	NFW & EFW on-line (NFW restricted flow in 11/05 - 12/05 because of hurricane damage)	EFW on-line	NFW on-line (7/06 - 8/06 restricted to 200 cfs and 10.7 target, 9/06 restricted to 500 cfs, 10/06 - 2/07 restricted to 750 cfs, 3/04 - 7/07 stage restricted to 10.8 during flow)								
Notes																
Off-line		NFW off-line; Limerock Berm repaired from hurricane damage (washout areas) 11/04		Initiate STA Recovery Plan dated 12/04. WFW off-line (Cell 2 divide levee, water control structures; vegetation conversion Cell 2B)	WFW off-line (Cell 2 divide levee and water control structures, vegetation conversion Cell 2B), NFW off-line to degrade the Limerock Berm (2/05 - 4/05) and allow for hurricane repairs and plant re-establishment	WFW re-hydrated, off-line for plant re-establishment	Initiate Sediment Consolidation Plan. NFW off-line (LTP enhancements construction and sediment and plant rehabilitation) and WFW restricted flow 200 cfs, 10.7 stage in 7/06 - 8/06 then off-line (for plant re-establishment)	EFW off-line for LTP enhancements construction (Cell 1 divide levee) & vegetation conversion (Cell 3), WFW off-line for rehabilitation								

Indicates Off-line
 Indicates Restricted Flow
 Indicates On-line

Indicates Construction Activities
 Indicates Vegetation Management Activities
 Indicates Rehabilitation Activities

STA-1W Operational Timeline

Calendar Year	2008				2009		2010		2011		2012	
Water Year (May - Apr)	(Regional Drought)		WY2009 (Regional Drought)			WY2010		WY2011 (Regional Drought)		WY2012 (Regional Drought)		
Month	Sep - Dec	Jan - Apr	May - Jul	Aug Tropical Storm Fay	Sep - Dec	Jan - Apr	May-Dec	Jan-Apr	May - Dec	Jan - Apr	May - Dec	Jan - Apr



Northern Flow-way (NFW) Cells 5A/5B	[Green bar]											
Eastern Flow-way (EFW) Cells 1/3	[Green bar]											
Western Flow-way (WFW) Cells 2/4	[Green bar]											

Details:

On-line	NFW on-line, WFW restricted to 400 cfs, EFW restricted to 450 cfs	All FW's on-line (EFW restricted to 225 cfs)	All FW's on-line									
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Notes

Notes					SAV decline (hydrilla, chara) observed in Cells 2B, 4, & 5B in 9/09 - 10/09		Earthen plug installed in Cell 3 discharge canal upstream G259 (4/11); Bulrush planting Cell 5A/5B starts 4/11 - WY2012	
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Off-line

Off-line	[Grey bar]											
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Indicates Off-line
 Indicates Restricted Flow
 Indicates On-line

- Indicates Construction Activities
- Indicates Vegetation Management Activities
- Indicates Rehabilitation Activities

STA-2 Operational Timeline

Calendar Year	1999	2000	2001			2002			2003			2004			2005					
Water Year (May - Apr)	WY2000 - WY2002 (Regional Drought: 10/99 - 8/01)					WY2003			WY2004			WY2005 (Hurricane Impacts)			WY2006 (Hurricane Impacts)					
Month	Jun - Dec (Oct '99 Hurricane Irene)	Jan - Dec	Jan - Oct	Nov - Dec	Jan - Apr	May - Sep	Oct - Nov	Dec	Jan - Apr	May - Oct	Nov - Dec	Jan - Apr	May - Aug	Sep Hurricanes Frances and Jeanne	Oct - Dec	Jan - Apr	Apr - Sep	Oct Hurricane Wilma	Nov - Dec	Jan - Apr
Cell 1	Water quality issues																			
Cell 2																				
Cell 3																				
Cell 4	Not constructed																			
<i>Details:</i>																				
On-line	Cells 2 and 3 hydrated Jun 1999; passed startup Sep/Nov 2000 respectively)					All Cells on-line (Cells 1 - 3)														
Notes	Inflow pump station G-328 operational 6/99; outflow pump station G335 completed 10/00, Inflow pump station S-6 connected dry season 2001		20 acre PSTA Field-scale test facility operational 11/01 - 10/03; Cell 1 passed mercury start-up 12/02												SAV inoculation in N section Cell 3 using SAV collected from S part of cell (Apr 2006) following hydrilla die-off in summer 2005 and H. Wilma					
Off-line	Cell 1 off-line due to high mercury levels																			

Indicates Off-line

Indicates Restricted Flow

Indicates On-line



Indicates Construction Activities



Indicates Vegetation Management Activities



Indicates Rehabilitation Activities

STA-2 Operational Timeline

Calendar Year	2006				2007				2008				2009		2010			2011			2012
Water Year (May - Apr)	WY2007 (Regional Drought)				WY2008 (Regional Drought)				WY2009 (Regional Drought)				WY2010		WY2011 (Regional Drought)			WY2012 (Regional Drought)			
Month	May - Jun	Aug Tropical Storm Ernesto	Sep - Dec	Jan - Apr	May - Nov	Dec	Jan - Apr	May - Jul	Aug Tropical Storm Fay	Sep - Dec	Jan - Apr	May-Dec	Jan-Apr	May - Oct	Nov - Dec	Jan - Feb	Mar-Apr	May - Sep	Oct - Dec	Jan - Apr	
Cell 1	[Green bar]																				
Cell 2	[Green bar]																				
Cell 3	[Green bar]																				
Cell 4	[White bar]							[Green bar]						[Yellow bar]		[Red bar]					
<i>Details:</i>																					
On-line	All Cells on-line (Cells 1 - 3)							All Cells on-line (Cells 1-4)						All Cells on-line (Cell 4 w/restrictions)		Cells 1 - 3 on-line					
Notes					Large SAV inoculation effort, July/August 2007 in Cell 3								Compartment B Buildout construction (on-going through WY2012); southern Cell 2 vegetation conversion to SAV started in Apr 2009; SAV (hydrilla) decline observed in parts of Cell 3 & Cell 4 Dec 2009		Aerial SAV inoculation in Cell 2 in Jul 2010		S-6 pump failures (3/11-9/26/11)				
Off-line					Cell 4 Flow-capable Dec 2006, non-operational (for WQ start-up compliance passed on 9/21/07; vegetation establishment until Dec 2007)							Cell 4 off-line starting 11/22/10 through end of WY2012 related to Compartment B buildout & permit issues									

Indicates Off-line
 Indicates Restricted Flow
 Indicates On-line

-  Indicates Construction Activities
-  Indicates Vegetation Management Activities
-  Indicates Rehabilitation Activities

STA-3/4 Operational Timeline

Calendar Year	2003			2004				2005				2006			2007					
Water Year (May - Apr)	WY2004			WY2005 (Hurricane Impacts)				WY2006 (Hurricane Impacts)				WY2007 (Regional Drought)			WY2008 (Regional Drought)					
Month	Oct - Dec	Jan - Apr	May	Jun - Aug	Sep <i>Hurricanes Frances and Jeanne</i>	Oct - Dec	Jan - Apr	May - Jun	Jul - Sep	Oct <i>Hurricane Wilma</i>	Nov - Dec	Jan - Apr	May	Jun - Jul	Aug <i>Tropical Storm Ernesto</i>	Sep - Dec	Jan - April	May - Dec	Jan - Apr	May - Jul



Eastern Flow-way (EFW) Cells 1A/1B																				
Central Flow-way (CFW) Cells 2A/2B																				
Western Flow-way (WFW) Cells 3A/3B																				

Details:

On-line		EFW on-line (passed start-up 1/15/04)	EFW & WFW on-line	All FW's on-line	EFW & CFW on-line		All FW's on-line (WFW restricted)		EFW and CFW on-line	All FW's on-line				
Notes	Phased start-up operations begin Oct 2003	CFW not yet operational (vegetation conversion Cell 2B; aerial SAV inoculation mid-Aug 2004); Cell 3 had elevated surface water mercury concentrations at the outflow compared to inflow; flow-through initiated in Mar 2004 to reduce levels and net improvement observed in Aug 2004			Cell 2B PSTA Implementation Project levee construction completed & area hydrated Mar 2005; outflow pump station completed Jul 2005		WFW re-hydrated, partial operation for plant re-establishment; begin phased approach to vegetation conversion in Cell 1B in Nov. 2005			Phased vegetation conversion in Cell 1B activities: aerial inoculation in Jul 2007 & herbicide application in Dec 2007				
Off-line					WFW off-line for LTP enhancements construction (divide levee; vegetation conversion Cell 3B)				WFW off-line for vegetation conversion					

- Indicates Off-line
- Indicates Restricted Flow
- Indicates On-line

- Indicates Construction Activities
- Indicates Vegetation Management Activities
- Indicates Rehabilitation Activities

STA-3/4 Operational Timeli

Calendar Year	2008			2009			2010			2011			2012
Water Year (May - Apr)	WY2009 (Regional Drought)			WY2010			WY2011 (Regional Drought)			WY2012 (Regional Drought)			
Month	Aug Tropical Storm Fay	Sep	Oct - Dec	Jan - Apr	May-Dec	Jan-Apr	May - Dec	Jan - Apr	May-Jun	Jul - Aug	Sep - Dec	Jan - Apr	
Eastern Flow-way (EFW) Cells 1A/1B	Green						Yellow			Green			
Central Flow-way (CFW) Cells 2A/2B	Green						Yellow			Green			
Western Flow-way (WFW) Cells 3A/3B	Green						Yellow			Green			










Details:

On-line	All FW's on-line						All FW's on-line, EFW (restricted)	All FW's on-line under restricted operations	All FW's on-line	
Notes		Phased vegetation conversion in Cell 1B; herbicide application in Oct/Nov 2008		Phased vegetation conversion in Cell 1B; herbicide application in Sep 2009. SAV (Chara) decline in Cell 3A.	Cell 1A water levels lowered to allow for vegetation establishment & planting		Cell 1A water levels lowered to allow for vegetation establishment & planting	EFW restricted for vegetation management activities 5/1 - 8/23/2011; water levels lowered in Cell 1A through end of WY2012 to encourage cattail reestablishment and planting	All FW's restricted to allow for vegetation re-establishment following dryout where much of the SAV was lost in SAV cells	
Off-line	Grey									

Indicates Off-line
 Indicates Restricted Flow
 Indicates On-line




-  Indicates Construction Activities
-  Indicates Vegetation Management Activities
-  Indicates Rehabilitation Activities

STA-5 Operational Timeline

Calendar Year	1998 - 1999	1999 - 2001	2001-2003	2004				2005				2006			2007					
Water Year (May - Apr)	WY1999	WY2000 - WY2001	WY2002 - WY2004	WY2005 (Hurricane Impacts)				WY2006 (Hurricane Impacts)				WY2007 (Regional Drought)			WY2008 (Regional Drought)					
Month		Oct 1999 <i>Hurricane Irene</i>		Apr - Jun	Jul - Aug	Sep <i>Hurricanes Frances & Jeanne</i>	Oct - Dec	Jan - Apr	Apr - Jun	Jul - Sep	Oct <i>Hurricane Wilma</i>	Nov - Dec	Jan - Apr	May - Jun	Jul	Aug <i>Tropical Storm Ernesto</i>	Sep - Dec	Jan - Apr	May - Dec	Jan - Apr
																				
Flow-way 1 (FW1) Cells 1A/1B																				
Flow-way 2 (FW2) Cells 2A/2B												 								
Flow-way 3 (FW3) Cell 3A/Cell 3B	Not constructed																			




Details

On-line	All FW's on-line				FW2 on-line and Cell 1A restricted		All FW's on-line (Cell 1B restricted for plant establishment)		FW1 on-line	FW1 & FW2 on-line				
Notes					During construction of Cell 1A G343s, a 100' cut was made in the levee between Cell 1A & Cell 2A just west of the boat ramps. This allowed flow from 1A to be treated in FW2. Pumps were used to move water out of Cell 2A during this period.						FW3 flow-capable Dec. 2006			
Off-line					Cell 1B off-line; LTP Enhancements construction in FW1 (Cell 1A and 1B) to improve divide levee structures (G-343 A-D), remove obstructions to flow				FW2 off-line LTP Enhancements construction to improve divide levee structures (G-343 E-H), remove obstructions to flow, & vegetation conversion Cell 2B		FW3 off-line (drought, unable to hydrate)			





- Indicates Off-line
- Indicates Restricted Flow
- Indicates On-line
-  Indicates Construction Activities
-  Indicates Vegetation Management Activities
-  Indicates Rehabilitation Activities

STA-5 Operational Timeline

Calendar Year	2008				2009				2010				2011		2012			
Water Year (May - Apr)	WY2009 (Regional Drought)				WY2010				WY2011 (Regional Drought)				WY2012 (Regional Drought)					
Month	May - Aug (in Aug, Tropical Storm Fay)	Sep - Dec	Jan - Apr	Apr	May	Jun-Sep	Oct	Nov-Dec	Jan - Feb	Feb-Mar	Apr	May - June	Jul-Aug	Sep - Dec	Jan - Apr	May - Dec	Jan - Apr	
Flow-way 1 (FW1) Cells 1A/1B	[Construction]		[Vegetation]		[Construction]		[Vegetation]		[Construction]		[Vegetation]		[Construction]		[Vegetation]		[Construction]	
Flow-way 2 (FW2) Cells 2A/2B	[Vegetation]																	
Flow-way 3 (FW3) Cell 3A/Cell 3B	Not constructed	[Construction]		[Vegetation]		[Construction]				[Vegetation]		[Construction]		[Vegetation]		[Construction]		
Details																		
On-line	FW1 & FW2 on-line	All FW's on-line (Flowways 1,2, & 3)	FW2 & FW 3 on-line	FW2 on-line	All FW's on-line FW1 (w/restrictions)	FW1 (restricted) & FW2 on-line	FW2 on-line	FW1 (restricted) & FW2 on-line	FW1 (restricted) & FW2 on-line	FW1 & FW2 on-line	All FW's on-line (FW3 on-line 7/19/10 and restricted)	All FW's on-line						
Notes								SAV decline (hydrilla) observed in Feb/March	Snail Kite nests in FW1 & FW2, stages regulated to optimize nesting success until Oct 27, 2020 for Cell 1A & Nov 9, 2010 for Cell 2A					Herbicide application in Compartment C				
Off-line	FW3 off-line; hydrated, passed start-up on 8/28/08.		FW1 off-line for Cell 1A rehabilitation (start 12/2/08)	FW1 & FW3 off-line for Cell 1A rehabilitation (end 6/9/09)		FW3 off-line for Compartment C Buildout construction (10/1/09 - 7/10/10)	FW1 off-line 10/28/09 - 2/10/10 (vegetation establishment) & FW3 off-line	FW 3 off-line (until 7/10/10)										

Indicates Off-line
Indicates Restricted Flow
Indicates On-line
 Indicates Construction Activities
 Indicates Vegetation Management Activities
 Indicates Rehabilitation Activities

STA-6 Operational Timeline

Calendar Year	1997-1999	1999-2000	2000	2001	2002-2003	2004		2005			2006						
Water Year (May - Apr)	WY1998 - WY1999	WY2000 (Regional Drought: 10/99 - 8/01)	WY2001 (Regional Drought: 10/99 - 8/01)		WY2002 - WY2004	WY2005 (Hurricane Impacts)		WY2006 (Hurricane Impacts)			WY2007						
Month		Oct 1999 Hurricane Irene	May-Dec	Jan-Apr	May-Dec	Jan-Apr	May-Aug	Sep Hurricanes Frances and Jeanne	Oct-Dec	Jan-Apr	May-Sep	Oct Hurricane Wilma	Nov-Dec	Jan-Apr	May-Jul	Aug Tropical Storm Ernesto	Sep-Dec
																	
Cell 3																	
Cell 5																	
Section 2 (Cell 6-2)	Not constructed																
<i>Details:</i>																	
On-line	All Cells on-line																
Notes	Cell 3 & Cell 5 operational starting Oct 1997			Outflow structure changed from G-606 to Cell 3 and Cell 5 outflows starting Mar 2001													
Off-line																	

Indicates Off-line
 Indicates Restricted Flow
 Indicates On-line

-  Indicates Construction Activities
-  Indicates Vegetation Management Activities
-  Indicates Rehabilitation Activities

STA-6 Operational Timeline

Calendar Year	2007				2008				2009		2010		2011		2012				
Water Year (May - Apr)	Regional Drought				WY2008 (Regional Drought)				WY2009 (Regional Drought)		WY2010		WY2011 (Regional Drought)		WY2012 (Regional Drought)				
Month	Dec	Jan	Feb - Mar	Apr	May - Jul	Aug - Dec	Jan - Apr	May - Jul	Aug Tropical Storm Fay	Sep - Dec	Jan - Apr	May - Dec	Jan - Apr	May - Oct	Nov-Dec	Jan - Apr	May - Dec	Jan - Mar	Apr



Cell 3																		
Cell 5																		
Section 2 (Cell 6-2)																		

Details:

On-line	Cell 3 & Cell 5 on-line	Cell 3 & Cell 5 on-line	All Cells on-line										Cell 3 & Cell 5 on-line	Cell 3 on-line					
Notes			In WY2008 Section 2 on-line but not hydrated due to drought; Inflow changed from G-600 to G-396ABC, G353A,B, C starting 10/2007															Cell 5 off-line to degrade redundant inflow levee (began Apr 11, 2012); fill used for CompC Cell 5B cultural sensitive areas & L-3 boat ramp	
Off-line	Section 2 flow-capable Dec 2006, but off-line for start-up WQ compliance	Cell 3 & Cell 5 off-line for LTP Construction, Section 2 off-line (start-up compliance)	Section 2 off-line (start-up WQ compliance passed Aug 14, 2007)															Section 2 off-line (from 11/5/10 through end of WY12) related to Compartment C Buildout & permit issues	Section 2 & Cell 5 off-line

- Indicates Off-line
- Indicates Restricted Flow
- Indicates On-line

- Indicates Construction Activities
- Indicates Vegetation Management Activities
- Indicates Rehabilitation Activities