INTEGRATED DELIVERY SCHEDULE – A SOUTH FLORIDA ECOSYSTEM RESTORATION PROGRAM SNAPSHOT THROUGH 2030

The Integrated Delivery Schedule (IDS) is a forward-looking snapshot of upcoming design and construction schedules and programmatic costs at a "top" line level for the South Florida Ecosystem Restoration (SFER) Program. It includes Modified Water Deliveries to Everglades National Park, Critical Projects, Kissimmee River Restoration, non-Comprehensive Everglades Restoration Plan (CERP) Central and Southern Flood (C&SF), and CERP projects. The Comprehensive Everglades Restoration Plan (CERP) focuses on the "getting the water right." CERP—the largest aquatic ecosystem restoration effort in the nation, spanning over 18,000 square miles—is designed to improve the health of more than 2.4 million acres.

The IDS reflects the sequencing strategy for planning, design, and construction and does not include costs for completed work or land acquisition. The IDS does not require an agency action and is not a decision document. It is a tool that provides information to decision-makers—a living document that is updated as needed to reflect progress and/or program changes. The IDS synchronizes program and project priorities with the State of Florida and achieves the CERP restoration objectives at the earliest practicable time, consistent with funding constraints and the interdependencies between project components. All Everglades restoration-related projects upon which the CERP is dependent—such as the Herbert Hoover Dike, the Modified Water Deliveries to Everglades National Park, Tamiami Trail Next Steps bridging, and the Restoration Strategies projects—are reflected in the IDS schedule, but are not included in the funding scenario. These projects are funded through other program authorities or by other entities. Restoration projects by others are also not included but are considered during planning.

	Yellow Book	FISCAL YEAR (dollars in millions) ³													
Project	Components	n & on Costs ions	2018 W	2019	2020 W	2021	2022 W	2023	2024 W	2025	2026 W	2027	2028 W	2029	2030 W
Planning Estimates Federal Construction Cost (SFER)++		esig ucti	\$ 109	\$ 110	\$ 200										
Planning Estimates Non-Federal Construction Cost (SFER)++		in I De	\$ 154	\$ 293	\$ 256	\$ 558	\$ 850	\$ 957	\$ 895	\$ 829	\$ 686	\$ 545	\$ 99	\$ 129	\$ 129
Planning Estimates Total Construction Cost (SFER)++		Cor	\$ 263	\$ 403	\$ 456										
Modified Water Deliveries to Everglades National Park ^{1,2}		5	•	•0000	00000										
Herbert Hoover Dike ¹		atic					 •								
Restoration Strategies ¹		- pur									•				
Tamiami Trail Next Steps Phase 2 ¹		- Ē		•		•——	 •								
(issimmee River Restoration Construction (Contracts 2B2, 10, 12a)		- &				 •									
(issimmee River Restoration Monitoring						•	۵۵۵۵۵			۰۵۵۵۵	••	,			
C-111 South Dade Construction ²		u		•	•0000•										
C-111 South Dade PACR		z		•xxxxx	xxxxxx•	•••••			•		•				
Picayune Strand Restoration	OPE														
Faka Union Pump Station		DA	000000												
Miller Pump Station		×	• ◊ ◊	000000	000000										
Flood Protection Features - Conveyance		01		••••••		•——		•							
Flood Protection Features - Levee		20		•	•••••				•						
Road removal		d ii		•——		 •									
Canal plugging		ize				••	•——	•							
ndian River Lagoon-South		hor													
C-44 Reservoir	В	aut				•	•00000	000000							
C-44 STA & Pump Station	В	1 (•	•00000	000000	000000							
C-23/24 Reservoir North	UU Phase 1	ion	•	•••••	•••••	•••••	····•—						 •		
C-23/24 Reservoir South	UU Phase 1	erat			•	•••••	•••••	•••••	•				 •		
C-23/24 STA	UU Phase 1	ene			•	•••••	····•—			 •					
C-25 Reservoir	UU Phase 2	6					••••••	••••••	•			•			
C-25 STA	UU Phase 2	ER							•	•••••	•——			 •	
C-23/C-44 Interconnect					•••••	•		•	•0000•						
Caloosahatchee River (C-43) West Basin Storage		. <u> </u>													
Pump Station and Reservoir	D	zed						•	•00000	00000					
sroward County Water Preserve Areas		Jori													
Mitigation Area A Berm	Q	A)		•											
C-11 Impoundment	Q	2 (A	•••••	•••••	•••••	•••••					•				
WCA 3A & 3B Seepage Management	0	0 4 V 0							•••••	•••••	•——	•			
C-9 Impoundment	R	rati 201-										•	•••••	•——	
Biscayne Bay Coastal Wetlands Phase 1	FFF, OPE, Phase 1	sue													
L-31 East Flow-way - Federal		Ŭ	•	•••••	•——		•								
Cutler Wetlands		ERF		•••••	•——	•									
-111 Spreader Canal Western Project (Requires PPA)	WW, Phase 1	0				•••••	•	•							
Central Everglades Planning Project (2016 WRDA) See back for details.	AA, FF, H, QQ. P1, G														
oxahatchee River Watershed Restoration Project	K, OPE	0	XXXXXX	XXXXXX XXXXXX Anticipate Authorization in WRDA 2020. Construction and funding TBD.											
ake Okeechobee Watershed Restoration Project	A, GG	lase	XXXXXX	XXXXXX	XXXXXX	Anticipate	Authorization in	n WRDA 2020. C	Construction and	funding TBD.					
Vestern Everglades Restoration Project	RR, CCC	- H	XXXXXX	XXXXXX	*****				-						
BBCW Phase 2	FFF, OPE, Phase 2	Jing			●xx	XXXXXX	XXXXXX	xxxxxx•	Anticip	ate Authorizatio	n in WRDA 202	4. Construction	& funding TBD.		
2-111 Spreader Canal Eastern	WW, Phase 2	anr				•xxxxx	XXXXXX	xxxxxx•	Anticipa	te Authorizatio	n in WRDA 202	4. Construction	& funding TBD.		
ake Okeechobee System Operating Manual ¹				•0000	00000	00000	00000	00000							
ASR/Decomp Phase 2	GG, QQ, Phase 2	L						•xxxxx	XXXXXX	xxxxx	Anticipate A	Authorization in	WRDA 2026. Cons	truction and fu	nding TBD.

NOTE: The funding shown for FY20 and beyond is only notional, representing approximate funding levels that would be needed to sustain the work displayed in the IDS for any particular FY. The funding does not represent a commitment by the Administration to budget the amounts shown.

Modifications to the IDS include changes based on weather-related conditions,

executions of contracts, and funding levels.

++ Does not reflect budget or capability

Black = Federa

 ¹ Funded through other program authorities or by other entities
² Biological Opinion: Completion satisfies BO mandate.
³ Once authorized, the design and construction of current planning p will increase annual estimates and extend beyond FY2030 xxxx = Project Implementation Report with Approve xxx = Project Implementation Report ···· Design, PPA Execution, Real Estate Acquisition _···· Design, PPA Execution, Real Estate Acquisition Ool00 = Operational Testing and Monitoring Period ΔΔΔΔ = Monitoring cocco = Operational Plan W = Expected WRDA year

Non-CERP & Foundation Projects EERP Generation 1 Projects - Authorized, Project Partnership Agreement (PPA) Executed EERP Generation 2 Projects - Authorized, PPA Executed Except Where Noted EERP - Authorized in 2016, Features added in WRDA 2018, PPA in 2020 Theoles Phore. Militation and Record



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BUILDING STRONG®

BUILDING ON HISTORIC MOMENTUM — EVERGLADES SCIENCE HOLDS THE KEY TO DELIVERING CERP GOALS

CENTRAL EVERGLADES PLANNING PROJECT BENEFITS

- Fewer Lake Okeechobee releases helps restore resilient Northern Estuaries.
- More operational flexibility means a healthier Lake Okeechobee.
- More flow at the right time to the Everglades Water Conservation Areas makes a healthier ridge and slough habitat in the Everglades.
- More flow at the right place to Shark River and Taylor Sloughs protects and restores Everglades National Park and Florida Bay.



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	Yellow Book	FISCAL YEAR (dollars in millions)									1			
Project	Components	2018 W \$7	2019 \$24	2020 W \$165	2021 \$290	2022 W \$517	2023 \$605	2024 W \$604	2025 \$571	2026 W \$402	2027 \$275	2028 W \$0	2029 \$0	2030 W \$0
Central Everglades Planning Project	AA, FF, H, QQ, P1, G													
Decomp Physical Model	QQ		•••••											
CEPP South: Additional outlet structures needed to move more														
water south	AA, FF, H, QQ													
Validation Report			•••••											
Remove Old Tamiami Trail (ENP Preparing NEPA)			•••••	•	•									
Structure S-631 & gap in L-67C Levee and Structure S-633 with														
gap in L-67C			•••••	····•—		•	•00000	000000						
Increase S-356 Pump Station				•••••	•••••	····•—			•	•	•00000	000000		
Spillway S-355W					•••••	•••••	•——		•00000	000000				
Structure S-333N		•••••	•	•	•0000									
Structure S-632				•••••	•——	•——•	•00000	000000						
Removal L-67C & L-67 Ext, Constr L-67D Levee						•••••	•••••	•——		 •				
Removal L-29 Levee & Backfill L-67 Ext							•••••	•••••	•		—— ●			
CEPP North: Inflow facilities needed to restore northern WCA-														
3A and move additional water south to Everglades	QQ, II													
Validation Report					•••••	•••••								
L-4 Degrade & Pump Station S-630					•••••	•••••	•		•	•00000	00000			
S-8 Pump Station Modifications					•••••	•••••	•		•	•00000				
Miami Canal Backfill/Tree Islands						•••••	•••••	•——		•	•00000			
L-5 Canal Improvements						•••••	•••••	•		•		00000		
L-6 Diversion					•••••	•••••	•		•	•00000	00000			
CEPP New Water: Moves New Water South, Stores It, and Treats It Before Going to the Everglades	G, V, C, E													
Validation Report			•											
Seepage Barrier L-31N				•••••		•——		•	•00000	00000				
Canal Conveyance Improvements - Miami and North New														
River			••••••		•		•	•00000	00000					
EAA Reservoir - A-2 STA, Inflow-Outflow Canal, and Bridge			•••••	••••••	•	•	•00000	00000						
EAA Reservoir - A-2 STA			•••••	•——			•	•00000	00000•					
EAA Reservoir - Inflow-Outflow Canal, Bridges, Spillway				•····•				•00000	00000•					
EAA Reservoir - Inflow Pump Station •				•	•••••						•	•00000	000000	
EAA Reservoir: Cutoff Wall, Culverts & Embankment •				•	•••••	····•—					 •	•00000	000000	

INCREMENTAL RESTORATION IS A FUNDAMENTAL TENET OF SFER

Advancing construction and receiving ecosystem benefits from the Central Everglades Planning Project is possible and achievable because several key projects have reached important milestones through 2019. These Non-CERP and Foundation Projects (in the blue section of the IDS) are CEPP predecessors and interdependencies. Improvements to the system since 2012 are estimated to provide significant benefits in 2020, including these:

- Improve water deliveries into Everglades National Park and take steps to restore natural hydrologic conditions in ENP, resulting in restored ecological diversity.
- Increased ENP average annual inflow by ~63%
- Increased distribution at Tamiami Trail to North East Shark River Slough from 19% to 77%
- Increased annual flow to Taylor Slough by ~37%
- Minimize the damaging freshwater flows to Manatee Bay/Barnes Sound and increase overland flow to Eastern Panhandle.
- Increase flows through Taylor Slough and coastal creeks to help restore native habitats and species.

EVERGLADES SCIENCE

The defining characteristics of the original Everglades include sheetflow, low levels of nutrients in freshwater wetlands, healthy and productive estuaries, resilient plant communities, and an abundance of native wildlife. The scientific community has been monitoring the overall health of the Everglades for many years. They have collected data that shows the ecosystems of the Everglades are struggling to support the plants and animals that live there and the natural resources they provide to all. Without healthy ecosystems, the economy, tourism, and recreational activities of south Florida suffer. However, many restoration projects scheduled for operation and construction in the next ten years are designed to help improve and protect this unique ecosystem.

As an example, the most important process affecting wading bird nesting in the Everglades is the availability of prey (fishes and aquatic invertebrates), which is controlled by the duration and frequency of wetland flooding and drying. The historic 2018 wading bird nesting season (+466% above 2017) let Everglades scientists see in real time how small prey fishes can rapidly respond to the longer hydroperiods. These hydrologic conditions are anticipated to occur more often during the incremental implementation of the SFER.

Learn more at evergladesecohealth.org.

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