

# March 2022 Approved Phase 7 Development Schedule

Year	2022	2023	2024	2025	2026	2027	2028
Phase 6 CAST	CAST6-2021		CAST6-2023		CAST6-2025		
Phase III WIP evaluation	Implement				Evaluate and track with Phase 6		
Current Climate Plans	Build Models		Review CAST	Develop 2035 targets with P7 models, Review estuary model	P7 CAST25 Available for Use		
WQGIT Recommends	Build Models				Review Models	New 2035 climate targets with P7 models	P7 CAST27 Available for Use

## Important Notes:

- CAST23 will be the model of record for the evaluation of 2025 Progress
- CAST23 will not include the FY22 Ag Census or the High-Resolution Land Use Data from 21/22
- CAST25 will introduce FY22 Ag Census or the High-Resolution Land Use Data from 21/22
- Schedule provides a full year of review for Phase 7 suite of tools
- Schedule results in Climate Targets at the end of 2027

# Option 1: CAST 2021 is last update for Phase 6

Year	2022	2023	2024	2025	2026	2027	2028
Phase 6 CAST	CAST6-2019		CAST6-2021				
Phase III WIP evaluation	Implement				Evaluate and track with Phase 6		
Current Climate Plans	Build Models		Review CAST	-	Develop 2035 targets	Track with Phase 7	
Phase 7 PSC Approved	Build Models that will also Address 2035 Climate Change Conditions				Review Models	New 2035 climate targets with P7 models	Track with Phase 7

## Important Notes:

- **CAST21 proposed release in Fall 2023**
- **CAST21 would be the model of record for the evaluation of 2025 Progress and all Progress scenarios post 2025 until Phase 7 is released**
- **The 2025 progress evaluation would have interim targets based on the definition of unaccounted additional loads that include 2025 climate change**
- **This is the last update to CAST in the Phase 6 model period**

# Option 2: CAST 2021 Plus CAST 2025 – 2021 is used for 2025 Progress

Year	2022	2023	2024	2025	2026	2027	2028
Phase 6 CAST	CAST6-2019		CAST6-2021		CAST6-2025		
Phase III WIP evaluation	Implement				Evaluate and track with Phase 6		
Current Climate Plans	Build Models		Review CAST	Develop 2035 targets	Track with Phase 7		
Phase 7 PSC Approved	Build Models that will also Address 2035 Climate Change Conditions				Review Models	New 2035 climate targets with P7 models	Track with Phase 7

## Important Notes:

- **CAST-21 proposed release in Fall 2023**
- **CAST-21 would be the model of record for the evaluation of 2025 Progress**
- **The 2025 progress evaluation would have interim targets based on the definition of unaccounted additional loads that include 2025 climate change**
- **CAST-25 would introduce FY22 Ag Census and the High-Resolution Land Use Data from 21/22**
- **CAST-25 would be the last update to the Phase 6 series of CAST – Release in Fall 2025**

# Consolidated Timeline

PSC Decision	Draft to WQGIT	Final By WQGIT	Draft to MB	Final By MB	Presentation to PSC for approval
1 - Unaccounted Additional Loads			7/13/2023	9/5/2023	9/26/2023
2 - Fertilizer	6/26/2023	7/24/2023	8/10/2023	9/5/2023	9/26/2023
3 - Illogical Results	6/26/2023	7/24/2023	8/10/2023	9/5/2023	9/26/2023

# Pros/Cons for Each Option

	Option 1:  CAST-21 is final update for Phase 6;  2021 is used for 2025 Progress	Option 2:  CAST-21 plus CAST-25;  2021 is used for 2025 Progress
Pros:	<ul style="list-style-type: none"> <li>• Keeps focus on Phase 7</li> <li>• Ensures all priority items are reviewed and accurate because of time not spent on CAST25 update</li> <li>• In-Progress BMPs would be ready for incorporation in CAST-21 (i.e., Animal Mortality and Oysters)</li> <li>• There will be more dedicated personnel to Phase 7 model development</li> <li>• <i>Capacity for data comparisons (i.e., BMPS, Land Use, Fertilizer, Ag Census) for review, which will inform Phase 7</i></li> </ul>	<ul style="list-style-type: none"> <li>• Introduces new High-Res land use, Ag Census, and BMPs data into the CAST-25, if available</li> </ul>
Cons:	<ul style="list-style-type: none"> <li>• No introduction of newly proposed BMPS.</li> <li>• Does not conform with jurisdictional agreed-to schedule of CAST releases in line with 2-year Milestone period.</li> </ul>	<ul style="list-style-type: none"> <li>• Difficult to provide a new version of CAST (i.e., CAST-25) and give proper attention to Phase 7 model</li> <li>• Phase 7 is pushed back due to focus on Phase 6</li> <li>• More resources might be expended addressing Phase 7 and CAST-25 simultaneously; unknown if those resources would be available</li> </ul>