Update on CAST-2019

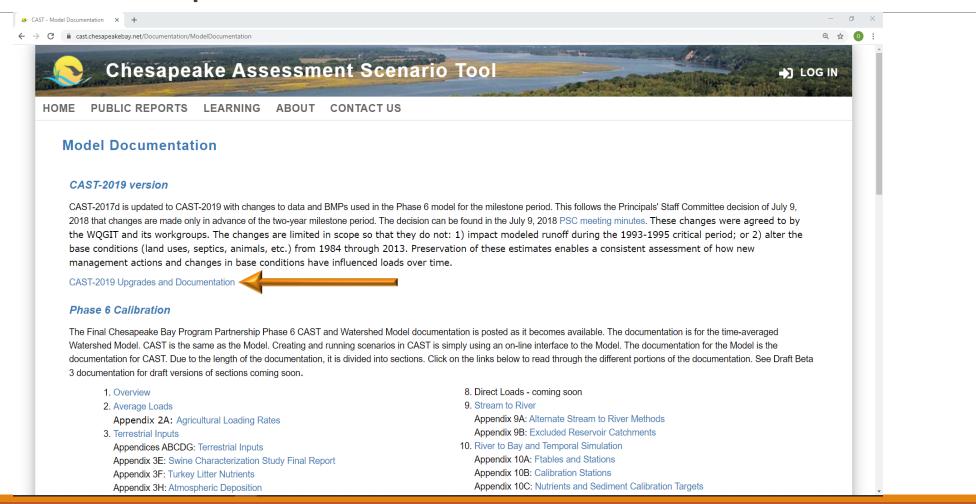
OLIVIA DEVEREUX, DEVEREUX CONSULTING, INC.

MARCH 5, 2020

Release Schedule

- February 21, 2020
 - Email sent to Water Quality Goal Implementation Team, the Watershed Technical Workgroup, and Interested Parties asking for comments over a one-month period and stating the release date is the week of March 23, 2020.
 - Access to the CAST-2019 Beta version was granted to all CAST users who are members of the WQGIT, WTWG and Interested Parties. Others have been granted access upon request.
 - Access includes shared scenarios: all progress years, E3, NA, and the Final WIP3
 - The list of changes between versions was made available on CAST
- March 23, 2020
 - CAST-2019 is presented to the WQGIT and the comment period closes
 - CAST-2019 goes live following final updates
 - CAST-2017d web-access is removed
 - Migrate Scenarios option is available to all users who have CAST-2017d scenarios

CAST-2019 Changes Approved by the Partnership

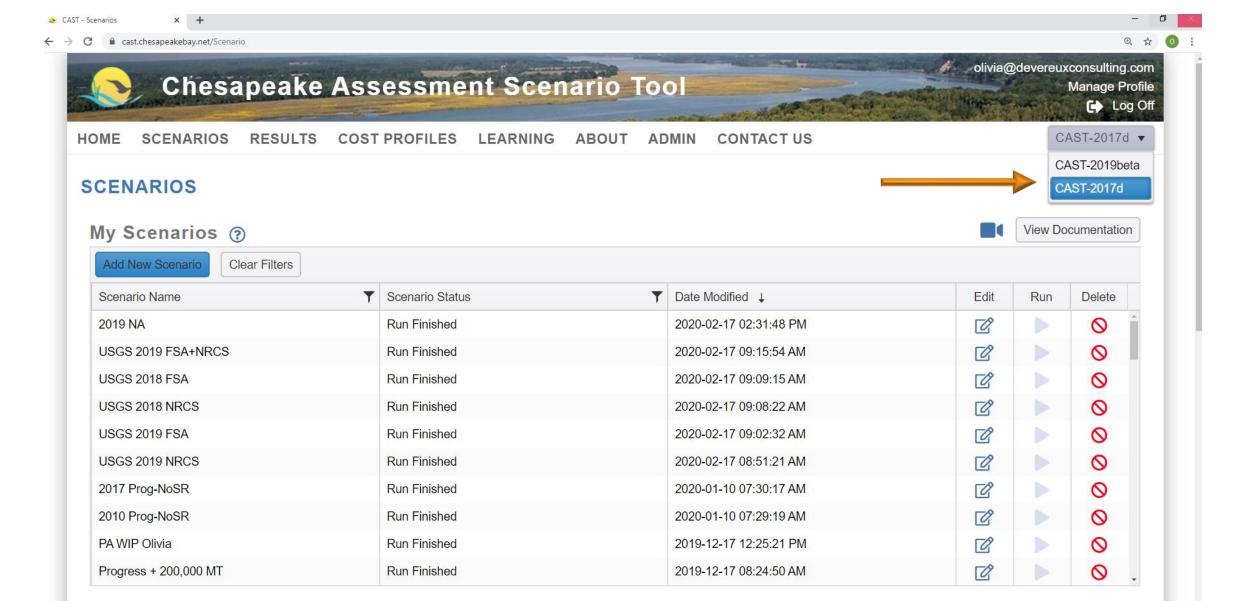


Changes between Versions

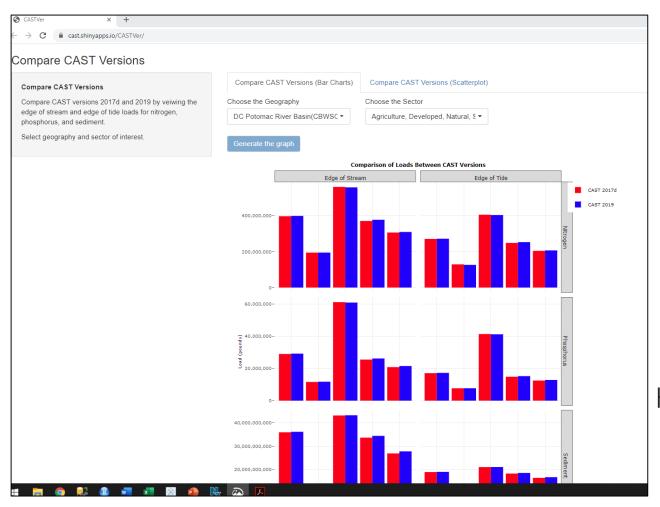
- 2013 2015 land use acres, septic systems, sewer service areas, MS4 areas (VA only)
- 2017 Agricultural Census data incorporated into the land use, crop yields, and animal numbers.
- Agricultural and urban fertilizer sales data
- Wastewater year for all states except VA
- Stream bed and bank loads are now credited by agency
- Nitrogen fixation rate for "other haylage; grass silage and green chop"
- Nitrogen fixation inputs for over-winter crops in CAST-2017.
- Projections are for 2018 and beyond. Previously the projected years were 2013 and beyond.

BMP Changes between Versions

- Planning BMPs that are now Official
 - Agricultural Stormwater Management
 - Conservation Landscaping Practices
 - Septic Effluent Advanced
 - Septic Secondary Treatment Advanced
 - Septic Denitrification Advanced
- BMPs submitted, including in the hydrologic critical period
- BMP costs
- Biofilter credit



Shared Scenarios ?



Effects of Updates

HTTPS://CAST.SHINYAPPS.IO/CASTVER



Questions?

OLIVIA DEVEREUX
OLIVIA@DEVEREUXCONSULTING.COM