

To-Do list for future modifications to the modeling tools, CAST and BayFAST

The top 3 are in priority order.; others don't have priorities from CBP partners but are our running list for future work.

1. Add a module to optimize sets of BMPs to meet load reduction goals that considers the relative cost-effectiveness of practices. Planned for Phase 6 version of tools sometime after the initial release date (currently April, 2017).
 2. BMP file upload with validation = ability to upload a file of BMP data to the tools as opposed to changing planned BMPs within the tool. Will be in the Phase 6 CAST.
 3. Changes to summary data and output files, including graphing the inputs and outputs. Planned for Phase 6 after initial release date (currently April, 2017).
- Allow users to define alternate BMP efficiencies.
 - Add an upload and download function for a facility shape in a GIS format. Requested by Federal Facilities Workgroup. Need to resolve GIS server security issues.
 - Allow equations for BMP cost to be editable.
 - As a short term solution to optimization, prepare a decision framework using costs and load reductions, and a table of typical load reduction and cost per BMP

To-Do list continued

- Reformat tables on the “compare” screen to show costs per pound per sector.
- Change the way default land use acres are shown in BayFAST. This is planned for Phase 6 release.
- Additional training, especially to local governments and scheduled more proactively.
- Add the ability for users to define a geographical area so that BayFAST can be used to calculate urban loads for the purposes of nutrient trading.
- Add in bacteria as a pollutant. No data currently available.
- Incorporate BMP co-benefit scores (under development by TetraTech, completion anticipated March 2017). Calculate co-benefit scores for scenarios, based on user selected co-benefits of interest or all co-benefits. Allow comparison of co-benefit scores when comparing scenarios based on user selected co-benefits of interest or all co-benefits (individually and collectively).
- Provide users guidance on BMP cost effectiveness and co-benefits. Incorporate cost-effectiveness (preferably based on selected geography) and co-benefit information (based on user selected co-benefits of interest or all co-benefits collectively) with BMP information. Maybe use the \$ to \$\$\$\$ scale for cost effectiveness and stars for co-benefits to give users a quick reference when building a scenario.