

HISTORY

1990s — Research Origins

The methods and algorithms behind BMPFast grew out of stormwater hydrology and BMP effectiveness research by Martin Wanielista, Harvey Harper, Eric Livingston, Mike Hardin, and collaborators.

Early Versions (spreadsheet-era, ~2000s-2014)

The software was circulated in spreadsheet/Excel form and repeatedly updated by the UCF Stormwater Management Academy team. Example: Version 7.4 (spreadsheet form) is documented as updated Sept 5, 2014 (Wanielista presentation / materials). Contributors named in these materials include M. Wanielista, Mike Hardin, Ikiensinma Gogo-Abite, Christopher Kuzlo, Harvey Harper and others; the State agencies provided review and input. The latest release of this software was called BMPTrains.

v8.x user manual (circa 2018)

A BMPTRAINS User Manual v8.6 (~~Rich Magee~~, UCF Stormwater Management Academy) exists in the UCF repository (document flagged “withdrawn” in that repository entry, but it documents an 8.6 release/edition of the manual). Eric Livingston, Harvey Harper, and Marty Wanielista are also the authors of training/help videos.

2020 — Rebuild(BMP Trains 2020)

The model was rewritten (C# + Visual Basic) and repackaged as “BMP Trains 2020”. The final ~~Notable~~ public releases-was known as version 4.3.5.

Release / update 4.2.3 and 4.3.5 — documented Dec 1, 2020 (Wanielista notes).

Release 4.3.5 (BMP Trains 2020) — posted Dec 1, 2021 (user manual dated Dec 1, 2021). That release notes the program was written by Dr. Ron Eaglin and Dr. Marty Wanielista (programming in C# with Visual Basic), and lists a broad set of contributors and reviewers (Mike Hardin, Rich Magee, Eric Livingston, Harvey Harper, Kelly Kibler, Ni-Bin Chang, etc.) and supporting agencies (FDOT, Florida DEP, the Florida water management districts, UCF Stormwater Management Academy).

FDOT / research references and later notes (2017–2024 citations)

FDOT and related reports reference BMPTRAINS and note ongoing updates and use in practice; FDOT funded or supported development work through at least 2017 and the UCF Academy continued maintenance and enhancements after that. Example: FDOT research reports cite Wanielista and collaborators and reference newer updates.

Distribution / availability status (post-2021)

UCF hosted downloads, help videos and manuals (UCF STARS and Stormwater Management Academy). Several pages and presenters (Wanielista, Rich Magee, Mike Hardin, Eric Livingston, Harvey Harper, Ikiensinma Gogo-Abite, Ron Eaglin) provided training materials and example problems (workshops in Jan 2020). Some repository pages note downloadable software was removed at times while ownership/updates were transferred or to address new regulations — check the UCF STARS and roneaglin.online pages for current availability.

People and Organizations Involved

Martin (Marty) P. Wanielista (Dr.)

Principal investigator/author of many stormwater management software packages, including BMPTrains and BMPFast releases and presentations, co-author of the BMPFast software. ~~documentation.~~ Central figure throughout the project.

Ron Eaglin (Dr.)

Credited with programming in the C#/VB and site/packaging of distributions; also listed as an author/contributor on documentation and web pages.

Mike Hardin Eric Livingston, Harvey H. Harper III, Ikiensinma Gogo-Abite, ~~Kelty Kibler,~~ Ni-Bin Chang

Agencies / Funders

Florida Department of Transportation (FDOT), Florida Department of Environmental Protection (FDEP), the Florida Water Management Districts (SJRWMD, SFWMD, SWFWMD, NFWWMD, Suwannee R.), UCF Stormwater Management Academy — provided review, funding, and domain expertise.