

## Scenario Definitions

We have chosen to model 9 scenarios based on three starting water elevations and three speeds at which the dam fails.

### Starting Water Surface:

- H or 'high': The starting water elevation is 90% of the height of the dam. Reservoir 'volume' is maximum storage.
- M or 'Middle': The starting water surface is at the "normal water elevation". Reservoir volume is 70% of maximum storage, or the 'Hydraulic Height' (if present) from the NID catalog.
- L or 'Low': The starting water elevation is 50% of the dam height. Reservoir "volume" is 50% of maximum storage.

### Failure Speeds:

The failure speeds used in the model are those defined by the Office of Hydrology (OHD) [see failure parameters]. They are the defaults for the 'Fast' Failures.

- F or Fast: Default for failure rate from OHD.
- N or 'Normal': Slower rate of failure than 'fast'. [Defined as 'F' + 50% of 'F']
- S or 'Slow': Slower failure rate assumed when the dam fails without overtopping. [Defined as 2 times 'F']