

# Wilson Reservoir Design

Elevations in Feet Above Mean Sea Level

Top of Dam 1592 ft msl

**Top of Surcharge Pool 1587.5 ft msl**

Surcharge space is designed to retain the inflows from the maximum possible flood event only long enough to keep the top of the dam from being overtopped. Releases may result in extensive flooding downstream.

**Top of Flood Control Pool 1554 ft msl**

Flood control space can retain most of the inflows from a design event (about a 100-year flood) and reduce flooding downstream. Flooding may increase downstream as the distance from the dam increases.

**Top of Multipurpose Pool 1516 ft msl**

**Multipurpose Pool**

Total designed sediment reserve storage for Wilson is 40,000 AF.

Sediment reserve in the flood control pool was designed for 20,000 AF.

Sediment reserve in the multipurpose pool was designed for 20,000 AF to be filled in by the end of the lake's design life, typically 100 years. At the end of that period other intended purposes for the multipurpose pool should **still be fully available**. If the sediment space fills in sooner than expected, the Corps can reallocate space from the flood control pool or from other purposes in the multipurpose pool according to the needs of regional and national users.

Pre Reservoir Bottom 1440 ft msl

Not to scale, for illustration purposes only.