

Cellan WwTW

discharge

river

pollutant

mean upstream river flow

the 95-percentile low flow

mean discharge flow

standard deviation

mean u/s river quality (241 - 759)

standard deviation (319 - 669)

number of samples

mean discharge quality (637 - 1363)

standard deviation (455 - 945)

number of samples

the 95-percentile (1602 - 4609)

the 99-percentile (2273 - 8724)

the 99.5-percentile (2575 - 11055)

correlation: river and discharge flow

downstream target

mean

calculate required discharge quality

calculate impact of input discharge quality

mean d/s river quality	<input type="text" value="1000"/>	(506 - 1494)
standard deviation	<input type="text" value="953"/>	(618 - 1287)
number of samples	<input type="text" value="12"/>	

required discharge mean	<input type="text" value="2687825"/>	(1722542 - 365310)
standard deviation	<input type="text" value="1861946"/>	(1208993 - 251489)
number of samples	<input type="text" value="12"/>	
the 95-percentile	<input type="text" value="6233446"/>	(4342660 - 122933)
the 99-percentile	<input type="text" value="9670603"/>	(6266233 - 232471)
the 99.5-percentile	<input type="text" value="11032260"/>	(6825305 - 291051)

correlation: river flow and quality

correlation: discharge flow and quality

MASS BALANCE: Monte Carlo

Calculations: 13 June 2025 at 05:52