

TABLE 1.3 REPORTED VALUES OF SELECTED WASTE INPUT PARAMETERS IN THE UNITED STATES

| Variable | Units ^a | Municipal influent ^b | CSO ^c | Urban runoff ^d | Agriculture (lb/mi ² -day) ^e | Forest (lb/mi ² -day) ^e | Atmosphere (lb/mi ² -day) ^f |
|------------------------|-------------------------|---------------------------------|------------------|---------------------------|--|---|---|
| Average daily flow | gcd | 125 | | | | | |
| Total suspended solids | mg/l | 300 | 410 | 610 | 2500 | 400 | |
| CBOD5 ^g | mg/l | 180 | 170 | 27 | 40 | 8 | |
| CBODU ^g | mg/l | 220 | 240 | | | | |
| NBOD ^g | mg/l | 220 | 290 | | | | |
| Total nitrogen | mg-N/l | 50 | 9 | 2.3 | 15 | 4 | 8.9-18.9 |
| Total phosphorus | mg-P/l | 10 | 3 | 0.5 | 1.0 | 0.3 | 0.13-1.3 |
| Total coliforms | 10 ⁶ /100 ml | 30 | 6 | 0.3 | | | |
| Cadmium | µg/l | 1.2 | 10 | 13 | | | 0.015 |
| Lead | µg/l | 22 | 190 | 280 | | | 1.3 |
| Chromium | µg/l | 42 | 190 | 22 | | | 0.088 |
| Copper | µg/l | 159 | 460 | 110 | | | |
| Zinc | µg/l | 241 | 660 | 500 | | | 1.8 |
| Total PCB | µg/l | 0.9 | 0.3 | — | | | 0.002-0.02 |

^aUnits apply to municipal, CSO (combined sewer overflow), and urban runoff sources; gcd = gallons per capita per day.

^bThomann (1972); heavy metals and PCB, HydroQual (1982).

^cThomann (1972); total coli, Tetra Tech, (1977); heavy metals Di Toro et al. (1978); PCB, Hydroscience (1978).

^dTetra Tech (1977); heavy metals, Di Toro et al. (1978).

^eHydroscience (1976a).

^fNitrogen and phosphorus, Tetra Tech (1982); heavy metals and PCB, HydroQual (1982).

^gCBOD5 = 5 day carbonaceous biochemical oxygen demand (CBOD); CBODU = ultimate CBOD; NBOD = nitrogenous BOD.

SOURCE: R.V. Thomann & V.A. Mueller
Hanger Collins Folsom, 1987