

Table 5a. Bioaccumulation of Copper by Freshwater Organisms

| Species | Chemical | Hardness (mg/L as CaCO ₃) | Concentration in Water ^a (µg/L) | Duration Days | Tissue | BCF or BAF | Reference |
|--|----------------|---------------------------------------|--|---------------|-------------|---------------------|------------------------|
| Asiatic clam, <i>Corbicula fluminea</i> | Copper sulfate | - | 16 | 28 days | Soft tissue | 45,300 ^b | Graney et al. 1983 |
| Macroinvertebrates | Field study | - | 3 | - | Whole body | 1,533 | Farag et al. 1998 |
| Macroinvertebrates | Field study | - | 3 | - | Whole body | 4,800 | Farag et al. 1998 |
| Macroinvertebrates | Field study | - | 3 | - | Whole body | 2,267 | Farag et al. 1998 |
| Macroinvertebrates | Field study | - | 1 | - | Whole body | 5,600 | Farag et al. 1998 |
| Macroinvertebrates | Field study | - | 5 | - | Whole body | 2,000 | Farag et al. 1998 |
| Fathead minnow (larva), <i>Pimephales promelas</i> | - | 45 | 5 | 30 | Whole body | 464 | Lind et al. manuscript |
| Yellow perch, <i>Perca flavescens</i> | Field study | - | 1 | - | Whole body | 9,600 | Farag et al. 1998 |
| Yellow perch, <i>Perca flavescens</i> | Field study | - | 5 | - | Whole body | 1,860 | Farag et al. 1998 |

^a Results are based on copper, not the chemical.

^b Recalculated; authors subtracted control residues.