

7041.1100 POLLUTANT LIMITS.

Subpart 1. **Ceiling concentrations.** Bulk sewage sludge or sewage sludge sold or given away in a bag or other container must not be applied to the land if the concentration of any pollutant in the sewage sludge exceeds the ceiling concentration for the pollutant in subpart 4, item A.

Subp. 2. **Cumulative loading rates.** If bulk sewage sludge is applied to agricultural land, forest, a public contact site, or a reclamation site, either the cumulative loading rate for each pollutant must not exceed the cumulative pollutant loading rate for each pollutant in subpart 4, item B, or the bulk sewage sludge must be exceptional quality sewage sludge.

Subp. 3. **Pollutant concentrations.** The conditions in items A and B apply to pollutant concentrations in bulk sewage sludge and sewage sludge sold or given away in a bag or other container.

A. If bulk sewage sludge is applied to a lawn or a home garden, the concentration of each pollutant in the sewage sludge must not exceed the concentration for the pollutant in subpart 4, item C.

B. If sewage sludge is sold or given away in a bag or other container for application to the land, either:

(1) the concentration of each pollutant in the sewage sludge must not exceed the concentration for the pollutant in subpart 4, item C; or

(2) the product of the concentration of each pollutant in the sewage sludge and the annual whole sludge application rate for the sewage sludge must not cause the annual pollutant loading rate for the pollutant in subpart 4, item D, to be exceeded. The procedure used to determine the annual whole sludge application rate is outlined in part 7041.3100.

Subp. 4. **Pollutant concentrations and loading rates.** Pollutant concentrations and loading rates are given in items A to D.

A. Ceiling concentrations.

Pollutant	Ceiling Concentration (mg/kg)¹
Arsenic	75
Cadmium	85
Copper	4300
Lead	840
Mercury	57
Molybdenum	75
Nickel	420

Selenium	100
Zinc	7500

¹Dry weight basis

B. Cumulative pollutant loading rates.

Pollutant	Rate (kg/ha)	Rate (lbs/ac)
Arsenic	41	37
Cadmium	39	35
Copper	1500	1339
Lead	300	268
Mercury	17	15
Nickel	420	375
Selenium	100	89
Zinc	2800	2500

C. Pollutant concentrations.

Pollutant	Monthly Average Concentrations (mg/kg)¹
Arsenic	41
Cadmium	39
Copper	1500
Lead	300
Mercury	17
Nickel	420
Selenium	100
Zinc	2800

¹On a dry weight basis, the arithmetic mean of all measurements taken during the month.

D. Annual pollutant loading rates per 365-day period.

Pollutant	Rate (kg/ha)	Rate (lb/ac)
Arsenic	2.0	1.8
Cadmium	1.9	1.7

Copper	75.0	67.0
Lead	15.0	13.0
Mercury	0.85	0.76
Nickel	21.0	19.0
Selenium	5.0	4.5
Zinc	140.0	125.0

Statutory Authority: *MS s 116.07*

History: *21 SR 1642*

Published Electronically: *October 27, 2003*