

Groundwater Protection List (GWPL)

After ADEQ reviews and approves the product chemistry and environmental fate data of the agricultural pesticide active ingredient, it is compared with specific numeric values (SNVs), which are criteria adopted by rule. The SNVs, found at A.A.C. R18-6-103, are based on EPA's criteria for identifying pesticide active ingredients that, based on mobility and persistence factors, may have the potential to leach to groundwater. The SNVs are presented in Table 1.

Table 1. Specific Numeric Values (SNVs)

Property SNVs

Mobility Factor

Water Solubility > 30 parts per million

Soil Adsorption Coefficient < 5 milliliters per gram

Persistence Factor

Hydrolysis > 25 weeks

Aerobic Soil Metabolism > 3 weeks

Anaerobic Soil Metabolism >3 weeks

Field Dissipation >3 weeks

Agricultural pesticide active ingredients that fail one or more of the SNVs in both of the mobility and persistence factors are included on the GWPL. The current GWPL, which is composed of 152 agricultural pesticide active ingredients, was adopted by rule in 1992 (A.A.C. R18-6-301) based on the SNVs in Table 1 and the agricultural pesticides registration at the time. Each year a draft GWPL is established but is not effective unless adopted by rule. The FY 01 draft GWPL, which is presented in Table 2, contains 194 agricultural pesticide active ingredients and is based on the current agricultural pesticides registration.

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Table 2. Draft Ground Water Protection List

C_CAS C_name

542-75-6 1,3-dichloropropene

- 21725-46-2 Cyanazine
- 1134-23-2 Cycloate
- 66215-27-8 Cyromazine
- 52918-63-5 Deltamethrin
- 13684-56-5 Desmedipham
- 333-41-5 Diazinon
- 1918-00-9 Dicamba
- 25059-78-3 Dicamba, DEA Salt
- 2300-66-5 Dicamba, DMA Salt
- 10007-85-9 Dicamba, Potassium Salt
- 1982-69-0 Dicamba, Sodium Salt
- 1194-65-6 Dichlobenil
- 99-30-9 Dicloran
- 38727-55-8 Diethathyl Ethyl
- 43222-48-6 Difenzoquat Methyl Sulfate
- 60-51-5 Dimethoate
- 110488-70-5 Dimethomorph
- 957-51-7 Diphenamid
- 85-00-7 Diquat Dibromide
- 330-54-1 Diuron
- 79277-27-3 DPX-M6316
- 144-21-8 DSMA (Disodium Methanearsonate)
- 115-29-7 Endosulfan
- 145-73-3 Endothall

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C_CAS C_name

- 2164-07-0 Endothall, Dipotassium Salt of
- 129-67-9 Endothall, Disodium Salt of