

# Pesticides and Groundwater

*An Applicator's Map and Guide  
to Prevent Groundwater Contamination*

## Morrill County

-  **Clayey, silty or loamy soils with a water table greater than 30 feet below the surface.**  
*These areas have a slight vulnerability for groundwater contamination.*
-  **Generally clayey, silty or loamy soils with a water table generally greater than 30 feet below the surface.**  
*These areas have a slight vulnerability to groundwater contamination, because the water table is greater than 30 feet below the surface. Some parts have a water table less than 30 feet below the surface creating a moderate vulnerability for groundwater contamination. Caution should be used where the water table is near the surface.*
-  **Sand, loamy sand or sandy loam soils with little organic matter and a water table generally greater than 30 feet below the surface.**  
*These areas have a moderate vulnerability for groundwater contamination because of the porous soils. Caution should be used in sandy areas. Some parts with clayey, silty or loamy soils have a slight vulnerability for groundwater contamination.*
-  **Sand, loamy sand or sandy loam soils with little organic matter and a water table greater than 30 feet below the surface.**  
*These areas have a moderate vulnerability for groundwater contamination. Even though the water table is greater than 30 feet below the surface, the soils are porous and caution should be used.*
-  **Clayey, silty or loamy soils with a water table less than 30 feet below the surface.**  
*These areas have a moderate vulnerability for groundwater contamination. Even though the soils restrict the downward movement of pesticides, the water table is less than 30 feet below the surface and caution should be used.*
-  **Sand, loamy sand or sandy loam soils with little organic matter and a water table generally greater than 30 feet below the surface.**  
*These areas have a moderate vulnerability for groundwater contamination because the soils are porous. Some low-lying parts of these areas may have a high vulnerability for groundwater contamination because the water table is less than 30 feet below the surface. Caution should be used throughout the area and detailed maps should be consulted concerning low-lying areas.*
-  **Generally clayey, silty or loamy soils with a water table less than 30 feet below the surface.**  
*These areas have a moderate vulnerability for groundwater contamination because the water table is less than 30 feet below the surface. Some parts with sand, loamy sand and sandy loam soils and little organic matter have a high vulnerability for groundwater contamination. Caution should be used throughout these areas and extreme caution should be used in sandy areas.*
-  **Sand, loamy sand or sandy loam soils with little organic matter and a water table less than 30 feet below the surface.**  
*These areas have a high vulnerability for groundwater contamination. Extreme caution should be used in these areas.*

*Refer to the accompanying discussion and index of pesticides for guidance on pesticide use.*

The vulnerability of groundwater contamination was determined using soil properties and depth to groundwater as indicated in general on pesticide labels. Areas on this map may have dissimilar soil and groundwater characteristics from those generally identified for that area. More detailed information can be obtained from:

**Conservation and Survey Division**

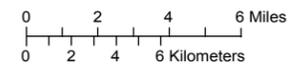
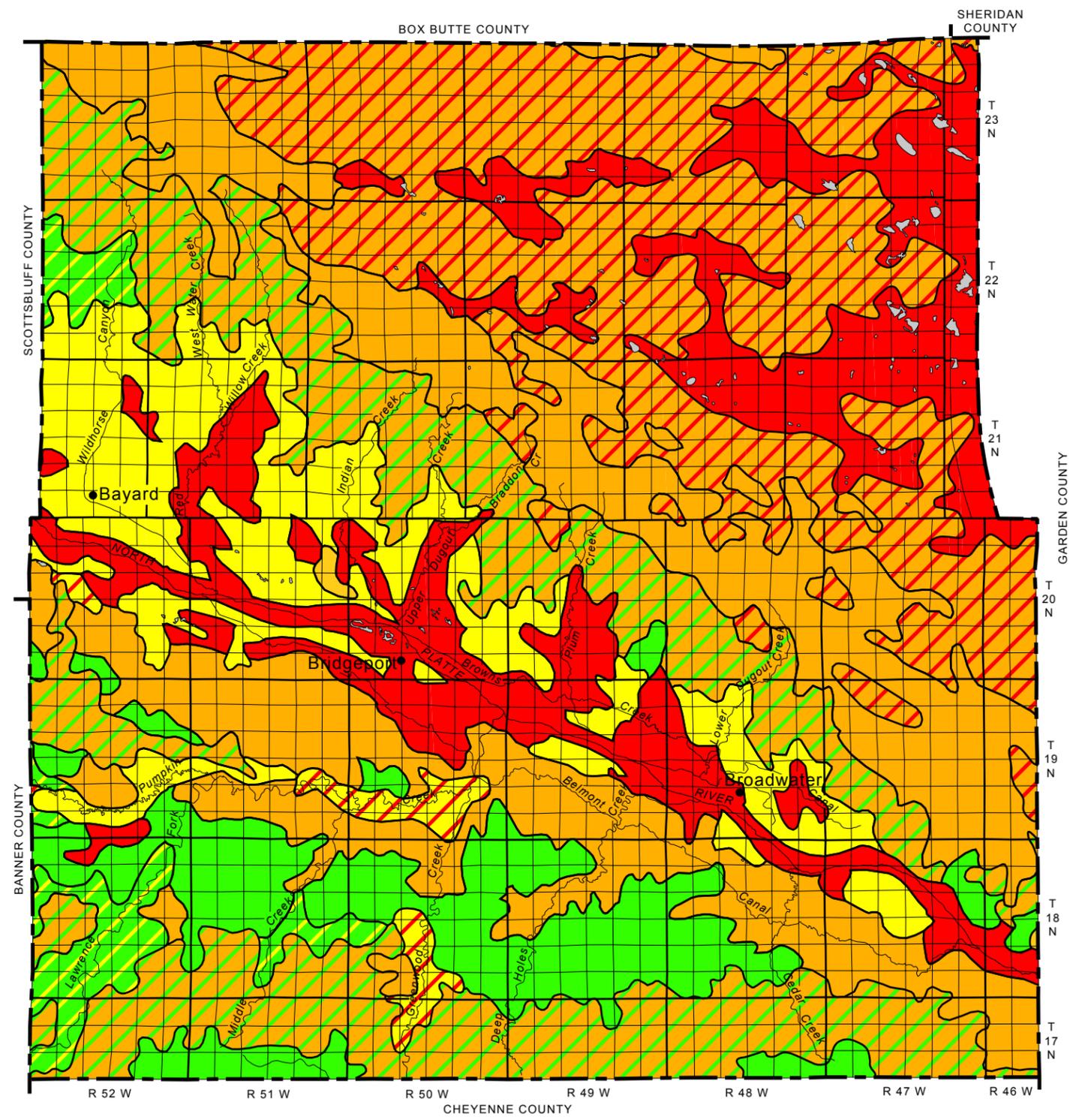
113 Nebraska Hall  
Lincoln, NE 68588-0517  
(402) 472-7537  
*(soil and groundwater data)*

**Morrill County Extension Office**

1825 10th Street  
County Administrative Office Building  
Gering, NE 69341-2444  
(308) 436-6622  
*(proper pesticide use)*

**Nebraska Department of Agriculture  
Bureau of Plant Industry - Pesticide Program**

Box 94756  
Lincoln, NE 68509-4756  
(402) 471-2394  
*(pesticide labels and regulations)*



**Resources**

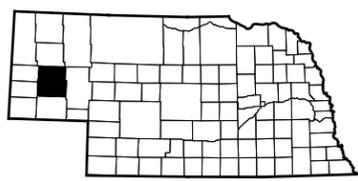
Soil Survey of Morrill County, Nebraska, 1985. USDA NRCS and Conservation and Survey Division, UNL.

Geologic sections, groundwater maps and logs of test holes, Morrill County, Nebraska, 1986. Conservation and Survey Division, UNL. OFR-37.

Configuration of the water table, Fall 1971, Scottsbluff Quadrangle, Nebraska and eastern part of Cheyenne Quadrangle, Wyoming and Nebraska. Conservation and Survey Division, UNL. GM-54.

6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

Sectionalized Township



County Location Map