

Dade County: Soil Ratings for Selecting Pesticides¹

G.W. Hurt and T.A. Obreza²

RATINGS FOR DADE COUNTY SOILS FOR PESTICIDE SELECTION

Resource soil scientists with the U.S. Natural Resources Conservation Service have rated the soils that are delineated by map units in the Dade County Soil Survey Report¹ for their potential for leaching and runoff of pesticides. The rating criteria are given in a companion publication entitled "Soil Ratings for Selecting Pesticides for Water Quality Goals." These soil ratings have been developed to help pesticide users determine the potential for pesticides to be lost to groundwater or surface water bodies.

As explained in Circular 959², factors that determine pesticide leaching ratings in soil are permeability and the occurrence of mucky layers in the upper 80 inches of the soil. Soils rated High have a high potential for pesticides to leach to groundwater, soils rated Medium have a medium potential for pesticides to leach to groundwater, and soils rated Low have a low potential for pesticides to leach to groundwater. Factors that determine pesticide runoff ratings from soils are hydrologic group, permeability, and slope. Soils rated High have a high potential for pesticide runoff, soils rated Medium have a medium potential for pesticide runoff,

and soils rated Low have a low potential for pesticide runoff.

NOTE: The user may discover that one or more map unit names in Table 1 have been updated from names given in the legend of the soil survey report¹. For example, a soil map unit may be listed in the survey report with a single soil series name, whereas the same soil map unit is shown as comprising two or more soil series in Table 1 (sequence numbers 1, 2, 3, ..) Where this occurs, the user should use the multi-named map unit given **here**, and make pesticide selections based on the most limiting condition to be found on the land in question. If necessary, the local Natural Resources Conservation Service office should be contacted to perform an on-site evaluation of the land in question.

REFERENCES

1. Noble, C.V., R.W. Drew, and J.D. Slabaugh. 1996. *Soil Survey of Dade County Area, Florida*. USDA/NRCS in cooperation with the University of Florida, Institute of Food and Agricultural Sciences, Agricultural Experiment Stations, Soil and Water Science Department; the Florida Department of Agricultural and Consumer Services; the South Dade Soil and Water

1. This document is SL101, a fact sheet of the Soil and Water Science Department, Florida Cooperative Extension Service, Institute of Food and Agricultural Sciences, University of Florida. Publication date: April 1991, revised September 2006. Reviewed September 2009. Please visit the EDIS Web site at <http://edis.ifas.ufl.edu>.

2. G.W. Hurt, National leader for Hydric Soils, Natural Resources Conservation Service, USDA; T.A. Obreza, Professor, Soil and Water Science Department, Cooperative Extension Service, Institute of Food and Agricultural Sciences, University of Florida, Gainesville, FL 32611.

Conservation District; and the Florida
Department of Transportation.

2. Obreza, T.A. and G.W. Hurt. 2006. *Soil Ratings For Selecting Pesticides For Water Quality Goals*. Circular 959. Soil and Water Science Department, Cooperative Extension Service, University of Florida, Gainesville, Florida, 32611.

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Table 1. Soil Ratings for Dade County (see footnotes for explanations of column headings).

MUID	SYS NUM	MUSYM	SOIL NAME	SOIL LEACH	SOIL RUNOFF
025002	1	2	BISCAYNE	Medium	Medium
025003	1	3	LAUDERHILL	Low	High
025004	1	4	PENNSUCO	Low	High
025005	1	5	PENNSUCO	Low	High
025006	1	6	PERRINE	Low	High
025007	1	7	KROME	Medium	Low
025009	1	9	UDORTHENTS	High	High
0250010	1	10	UDORTHENTS	High	Low
0250010	2	10	URBAN LAND	High	High
0250011	1	11	UDORTHENTS	Medium	Medium
0250011	2	11	URBAN LAND	High	High
0250012	1	12	PERRINE	Low	High
0250013	1	13	BISCAYNE	Medium	Medium
0250014	1	14	DANIA	Medium	High
0250015	1	15	URBAN LAND	High	High
0250016	1	16	BISCAYNE	Medium	Medium
0250018	1	18	TAMIAMI	Medium	High
0250020	1	20	CARDSOUND	Low	High
0250020	2	20	ROCK OUTCROP	High	High
0250022	1	22	OPALOCKA	High	High
0250022	2	22	ROCK OUTCROP	High	High
0250023	1	23	CHEKIKA	High	High
0250024	1	24	MATECUMBE	Medium	High
0250025	1	25	BISCAYNE	Medium	High
0250025	2	25	ROCK OUTCROP	High	High
0250026	1	26	PERRINE	Low	High
0250028	1	28	DEMORY	Low	High
0250028	1	28	ROCK OUTCROP	High	High
0250030	1	30	PAHOKEE	Low	High
0250031	1	31	PENNSUCO	Medium	High
0250032	1	32	TERRA CEIA	Low	High
0250033	1	33	PLANTATION	Low	High
0250034	1	34	HALLANDALE	High	High
0250035	1	35	MARGATE	High	High
0250037	1	37	BASINGER	High	High
0250038	1	38	ROCK OUTCROP	High	High
0250038	2	38	VIZCAYA	Low	High
0250038	3	38	BISCAYNE	Medium	High
0250039	1	39	BEACHES	High	High
0250040	1	40	POMELLO	Medium	Medium
0250041	1	41	DADE	High	Low
0250042	1	42	UDORTHENTS	High	Low
0250045	1	45	CANAVERAL	High	Low
0250047	1	47	ST. AUGUSTINE	High	Medium
0250048	1	48	KESSON	Low	High

Footnotes:

Table 1. Soil Ratings for Dade County (see footnotes for explanations of column headings).

MUID	SYS NUM	MUSYM	SOIL NAME	SOIL LEACH	SOIL RUNOFF
MUID = Natural Resources Conservation Service's map unit identifier.					
SEQ NUM = Sequence Number, indicating a particular soil name among one or more names constituting a map unit name.					
MUSYM = Map Unit Symbol from the soil map and legend in the Soil Survey of Gadsden County, Florida. Note that if a MUSYM appears more than once in this list it signifies that two or more soils are co-dominant in that map unit, and each such soil is rated separately here.					
SOIL NAME = Name of soil or other landscape component (urban land, beaches, water, etc.).					
SOIL LEACH = The rating of the soil for leaching of pesticides through the soil profile.					
SOIL RUNOFF = The rating of the soil for runoff of pesticides from the soil surface.					
NOTE: See "Soil Ratings for Selecting Pesticides for Water Quality Goals" (IFAS Extension Circular 959) for explanations of the criteria used to develop soil ratings presented in the right-hand four columns of this list.					