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### South Dakota Soils : A Generalized Soils Map of the West River Area of South Dakota

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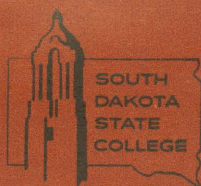
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JUNE 1962

SOIL SURVEY SERIES NO. 5



*Agricultural Experiment Station  
and  
Cooperative Extension Service*

# South Dakota Soils

F.S. 134B

A Generalized Soils Map of the West  
River Area of South Dakota

F. C. Westin and G. J. Buntley

Soil Survey Series No. 5, South Dakota Soils, consists of three separate fact sheets, 134A, 134B, and 134C.

F.S. 134A. A Generalized Soils Map of the East River Area of South Dakota.

F.S. 134B. A Generalized Soils Map of the West River Area of South Dakota.

F.S. 134C. The Distribution and Average Yields for Crops Commonly Grown in South Dakota.



# Soils of South Dakota

## west river area



**Soil Legend**

**I. Soils West of Missouri River**  
 Dark Brown loamy soils of the semiarid grassland

- Deep loams and silty clay loams on nearly level to undulating tablelands and divides—(Probable Series—Morton)
- Deep and moderately deep loams associated with claypan on undulating to rolling tablelands. (Probable Series—Morton and Rhoades)
- Deep to shallow loams on uplands and steep valley sides. (Probable Series—Morton and Bainville)
- Moderately deep and shallow loams and silty clay loams on hilly uplands and steep valley sides. (Probable Series—Bainville)
- Moderately deep and shallow silt loams and silty clay loams on undulating to rolling tablelands. (Probable Series—Kadoka and Epping)
- Shallow and moderately deep silt loams and silty clay loams on rolling and hilly uplands. (Probable Series—Epping and Kadoka)
- Moderately deep to shallow red loams with some bedded gypsum. (Probable Series—Spearfish)
- Moderately deep loams usually high in selenium. (Probable Series—Sandoz)
- Deep to moderately deep silt loams, loams and sandy loams of undulating tablelands. (Probable Series—Keith, Rosebud Canyon)
- Brown clayey soils of the semiarid grassland
- Deep moderately friable clays on undulating to rolling uplands. (Probable Series—Boyd)
- Deep and moderately deep firm clays on undulating to rolling uplands. (Probable Series—Pierre, Promise)
- Shallow and moderately deep crusty clays on undulating uplands. (Probable Series—Pierre "Crusty" phase)
- Shallow and moderately deep clays on rolling to hilly, uplands and stream valleys. (Probable Series—Lisman, and Pierre)

**Dark Brown and Brown sandy soils of the semiarid grassland**

- Deep and moderately deep sandy loams on nearly level to undulating tablelands. (Probable Series—Vebar)
- Deep and moderately deep sandy loams and loamy sands associated with claypan soils on rolling tablelands and valley sides. (Probable Series—Vebar, Flasher and Rhoades)
- Deep loamy sands and loose sands associated with wet sandy meadows. (Probable Series—Valentine, Dune Sand and Gannett)

**Dark brown and brown light loams and sandy loams of the semiarid grasslands**

- Deep light loams and sandy loams of the uplands. (Probable Series—Anselmo)
- Deep and moderately deep light loams and sandy loams, some wind-deposited, some residual from sandstone on undulating to rolling tablelands. (Probable Series—Anselmo and Rosebud)
- Moderately deep light loams residual from sandstone on undulating to rolling tablelands. (Probable Series—Rosebud)
- Moderately deep and shallow light loams residual from sandstone on rolling tablelands. (Probable Series—Rosebud and Canyon)
- Shallow light loams residual from sandstone on rolling to hilly uplands. (Probable Series—Canyon and Rosebud)
- Brown soils of the semiarid grasslands
- Deep and moderately deep loams on undulating to rolling tablelands. (Probable Series—Cushman)
- Very dark brown light loams to loamy sands of the subhumid grassland
- Deep to shallow silt loams, loams, sandy loams and loamy sands some underlain by gravel of undulating to rolling uplands. (Probable Series—Holt)
- Dark brown terrace soils
- High terrace soils along Cheyenne and White Rivers. Mostly loams and clay loams some underlain by gravel. (Probable Series—Cheyenne and Farland)

**Land Types**

- Undifferentiated clayey alluvial soils
- White River Badlands
- Badlands Basins
- Hilly White River soils and materials on Buttes
- Thin soils, rock outcrop and Gray wooded soils from igneous and metamorphic rocks.
- Thin soils, rock outcrop and Gray wooded soils from sedimentary rocks.

**Land Use Legend**

A Greater than 80 percent cropland  
 B From 60 to 80 percent cropland  
 C From 45 to 60 percent cropland  
 D From 30 to 45 percent cropland  
 E From 15 to 30 percent cropland  
 F Less than 15 percent cropland

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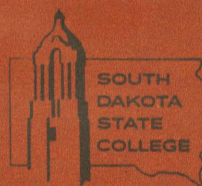
SCALE 0 10 20 30 MILES  
 LAMBERT CONFORMAL CONIC PROJECTION



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