Preliminary Map of Potential Windblown Deposits in Wyoming

Compiled by
Martin C. Larum and Seth J. Witke
October, 2013

From

EXPLANATION

Windblown deposits—Wyoming has some of the most significant windblown deposits in the U.S. Strong winds can mobilize and significantly erode sand and silt grains in much of Wyoming. Many of the mapped deposits in Wyoming are somewhat stabilized, but a significant number are still active.

The Gillette Dome Field in northern Sweetwater County is over 50 miles long and up to 10 miles wide at its widest point. The Laramie Dome Field extends from the Laramie River to the west for approximately 30 miles, and is approximately 15 miles wide at its widest point. The Casper Dome Field is a part of a much larger series of dome fields that extend from eastern Fremont County to the Casper area.

There is not a well-documented history of problems associated with windblown deposits in Wyoming. If stabilizing vegetation has been stripped from the surface due to development, personally under done, or other activities, the absence of vegetation could lead to the formation of sand dunes, sand sheets, and blowouts.

A number of windblown deposits occur along the railroad lines and exposed on homes. The problems however can easily be recognized, and there have been no significant dollar losses associated with windblown deposits.

BASE MAP SYMBOLS

- Capital
- County seat
- Bare ground
- U.S. highway
- County in other map
- State Park
- National Park
- State Road Reservation
- River
- Lake
- Boundary

BASE MAP REFERENCES

Bureau of Indian Affairs, 2015, Roadbase: Subject Index, Raw Data Release, December, 2015.

WYOMING STATE GEOLOGICAL SURVEY

WSGS WEB MAP
Potential Windblown Deposits in Wyoming

DISCLAIMER

Users of these maps are cautioned against using the data at scales different than those at which the maps were compiled. Using these data at a larger scale will not provide greater accuracy and is to be used at your own discretion.

The Wyoming State Geological Survey (WSGS) and the State of Wyoming make no warranties, express or implied, with respect to this data, its content, or accuracy. The WSGS does not guarantee the digital data or any map printed from the data to be free from errors or omissions.

The WSGS and the State of Wyoming shall not be responsible for any liability due to inaccuracy of or inability to interpret this information. Users are advised that the data is not complete, and are not to be used for survey or engineering uses.

The use of Wyoming in Landmarks, trade names, or other graphic or computer names in this publication is descriptive or informational purpose only, as it is powered in Wyoming, and does not imply endorsement of the service by the WSGS or the State of Wyoming.

NOTICE TO USERS OF INFORMATION FROM THE WYOMING STATE GEOLOGICAL SURVEY

The WSGS maps are the final product of its survey efforts. The WSGS cannot convert or use data for off-line publications. For more information, please contact the WSGS at (307) 777-3300, ext. 224, or by email at wsgsinfo@wyo.gov. If you have questions about, any materials, preparing, acknowledgment, or occurrence use of this material, we encourage you to contact us. All distribution of this product is subject to the WSGS General Conditions of Distribution and Use.

No part of this product is to be reproduced without permission from the WSGS, and/or the State of Wyoming.