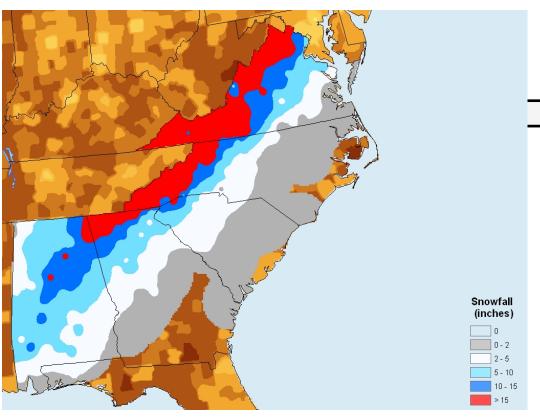
Regional Snowfall Index



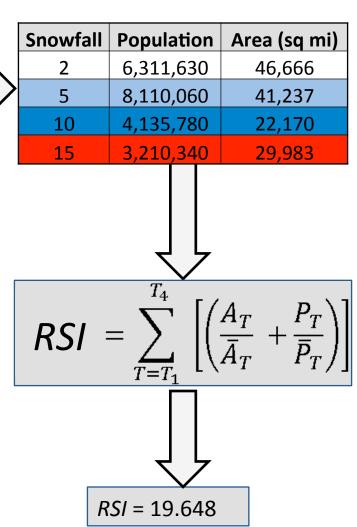
Regional Snowfall Index

Snowfall Area + Snowfall Amount + Population

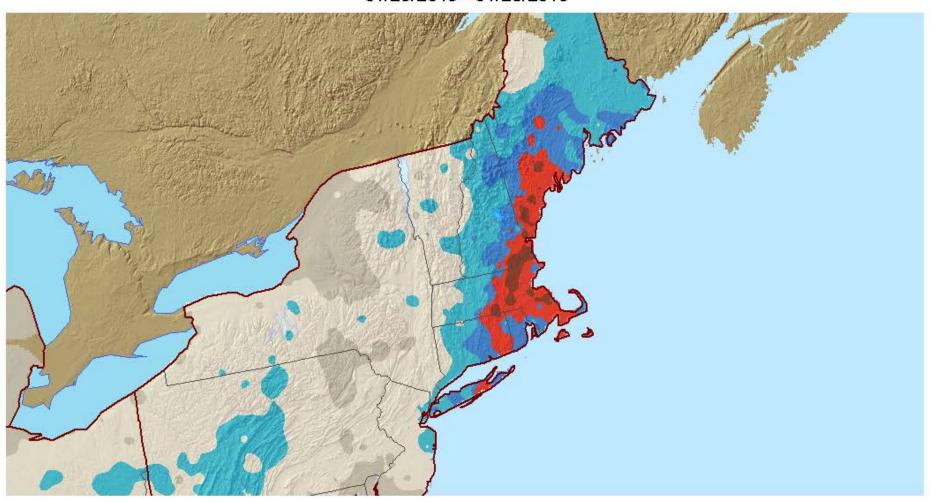




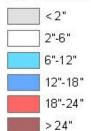
RSI Calculation March 12-13, 1993



Regional Snowfall Index 01/25/2015 - 01/28/2015



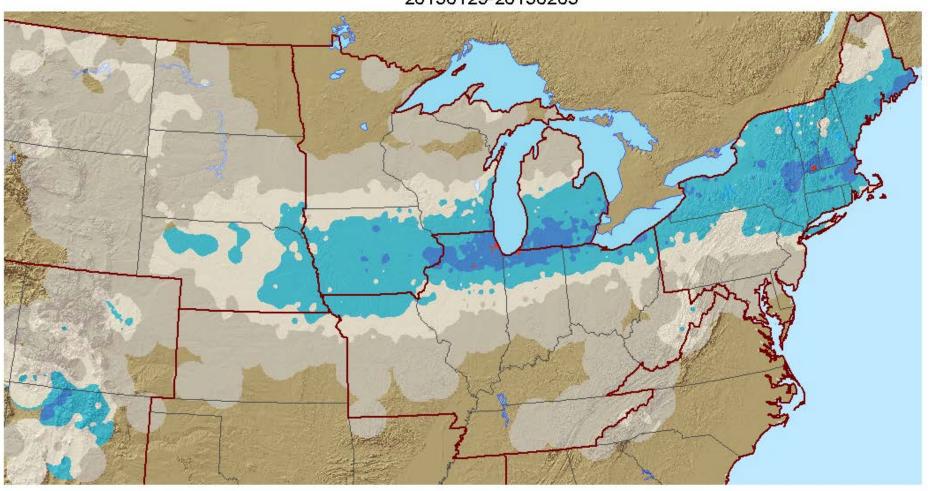
Total Snowfall



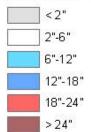
Region	RSI	Category
National	0.00	0
Northeast	6.16	3
Northern Rockies and Plains	0.00	0
Ohio Valley	0.46	0
Southeast	0.13	0
South	0.00	0
Upper Midwest	0.03	0



RSI 20150129-20150203



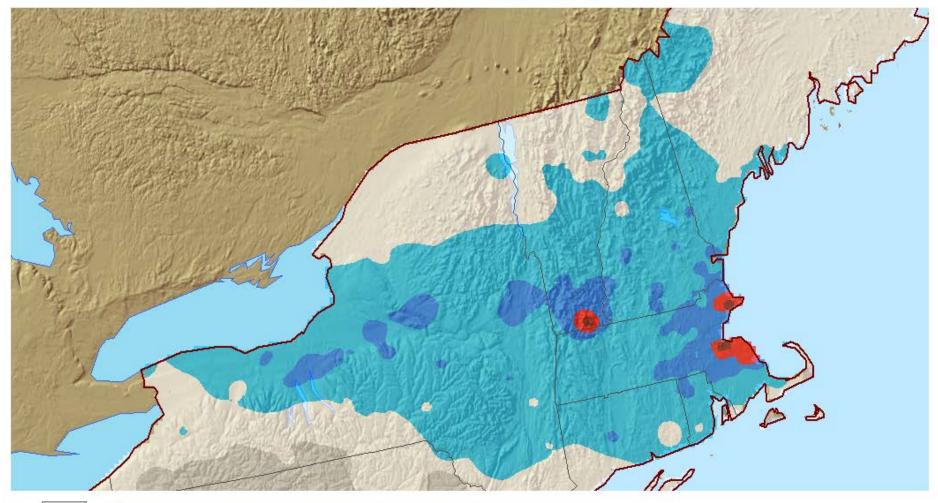
Total Snowfall



Region	RSI	Category
National	0.00	0
Northeast	2.61	1
Northern Rockies and Plains	2.37	1
Ohio Valley	8.40	3
Southeast	0.10	0
South	0.12	0
Upper Midwest	4.75	2



RSI 20150208-20150210

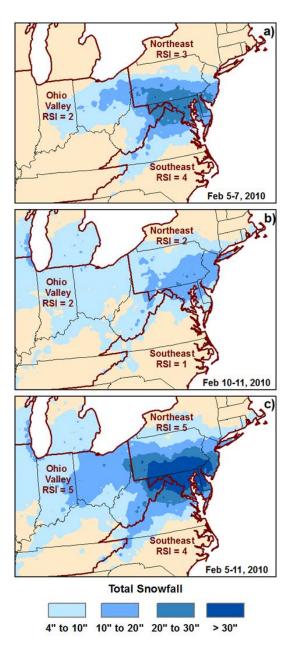


	< 2"
	2"-6"
	6"-12"
	12"-18"
ri	18"-24"
	> 24"

Region	RSI	Category
National	0.00	0
Northeast	1.90	1
Northern Rockies and Plains	0.00	0
Ohio Valley	0.00	0
Southeast	0.00	0
South	0.00	0
Upper Midwest	0.02	0



The Effect of Multiple Back to Back Snow Storms





Mike.Squires@noaa.gov

ARTICLES

THE REGIONAL SNOWFALL INDEX

BY MICHAEL F. SQUIRES, JAY H. LAWRIMORE, RICHARD R. HEIM JR., DAVID A. ROBINSON, MATHIEU R. GERBUSH, AND THOMAS W. ESTILOW

A new snowfall index quantifies the societal impact of snowstorms in the eastern United States from 1900 to the present.

in terms of human life, economic loss, and disrup- snowstorms. tion. Examples include the Chicago blizzard of identified 10 snowstorms occurring since 1980 whose damages have totaled over \$29 billion. Changnon winter storm scale (LWSS) and used a nomenclature (2007) reports that monetary losses resulting from in terms of disruptions to characterize winter weather

AFFILIATIONS: Squires, LAWRIMORE, AND HEIM-NOAA/National Climatic Data Center, Asheville, North Carolina; Rosinson, GERBUSH, AND ESTILOW-Rutgers, The State University of New lersey. New Brunswick. New Jersey CORRESPONDING AUTHOR: Michael F. Squires, NOAA/

NCDC, 151 Patton Avenue, Asheville, NC 28801 E-mail: mike.squires@noaa.gov

The abstract for this article can be found in this issue, following the table of contents

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AMERICAN METEOROLOGICAL SOCIETY

arge snowstorms have a major impact on society light the need to better understand the impacts of

There have been several indices developed to char-1967 that caused the deaths of 45 people and eco-acterize winter storms. Rooney (1967) used newspaper nomic losses to local business estimated to be \$150 accounts and interviews to estimate the societal immillion (1967 U.S. dollars) (Doesken and Judson pact of snowfall on seven cities in the Midwest and 1996). The 1993 "Superstorm" was responsible for Great Plains. He characterized these impacts as "dis-270 deaths and \$1.8 billion in damages from the ruptions" and, in addition to snowfall, included events Deep South to New England (Kocin et al. 1995). such as traffic accidents, road closings, school closings, Three large snowstorms struck the northeast in and canceled flights, as well as other negative effects. 1996, causing \$1.1 billion in insured losses (Kocin Call (2005) extended this work by describing disrupand Uccellini 2005). Smith and Katz (2013) have tions of snowstorms for several locations in New York.

Cerruti and Decker (2011) developed the local snowstorms are increasing. These examples high-indices, "Intrinsic disruption" is based on meteorological variables that have the potential to impact society while "societal susceptibility" is based on sociological variables. "Realized disruption" results from the interaction of intrinsic disruption and societal susceptibility. LWSS is based on measures of intrinsic disruption: snowfall, freezing rain, sustained wind, wind gusts, and visibility. LWSS is reported as a categorical value between 0 and 5 and is used to infer societal susceptibility. By definition it is a local index since it is calculated for a specific location using hourly data.

> Kocin and Uccellini (2004) developed the Northeast snowfall impact scale (NESIS), which uses snowfall and population density to characterize the impact of snowstorms that affect the northeastern United States.

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http://www.ncdc.noaa.gov/snow-and-ice/rsi/