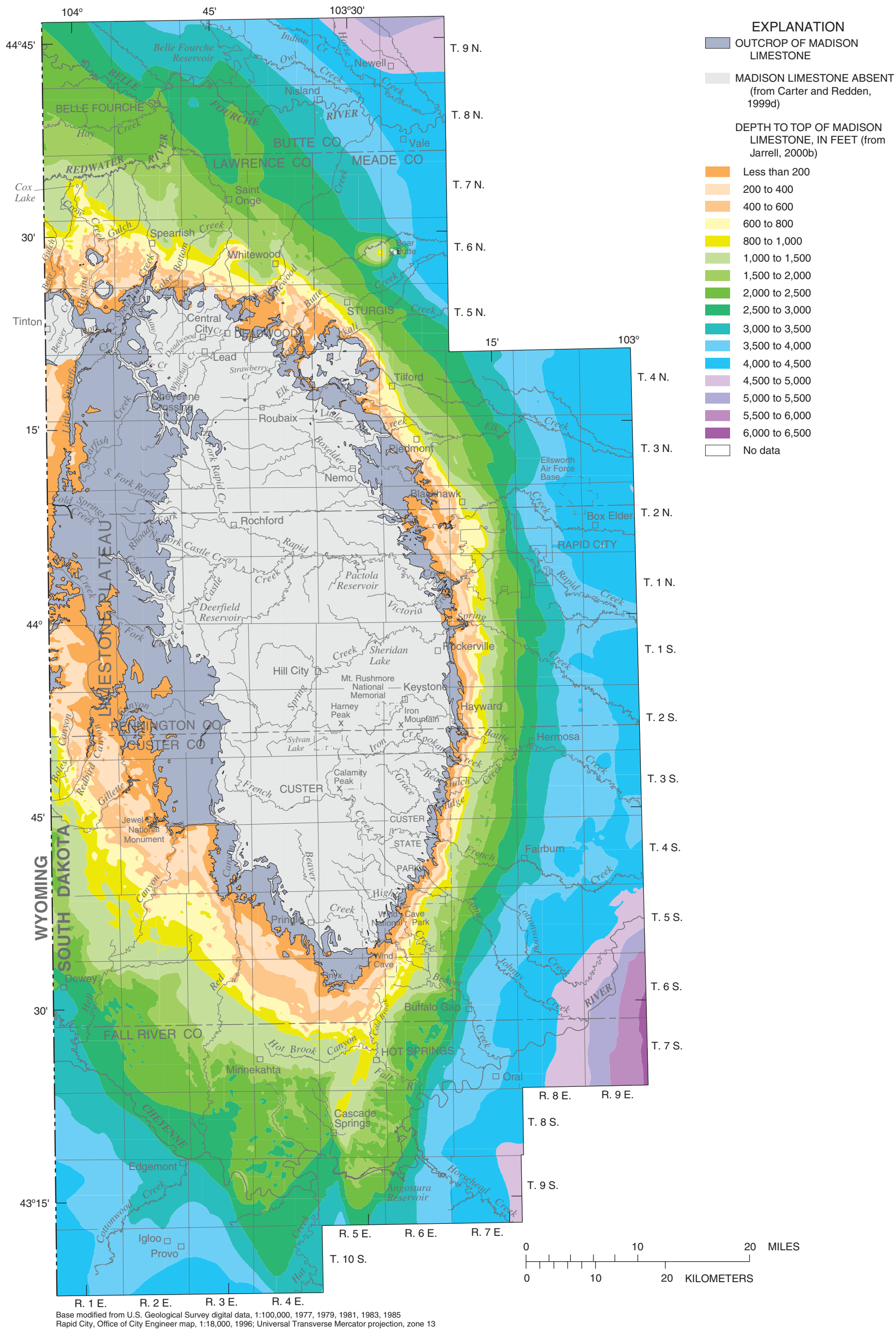


Figure 10. Depth to top of Madison Limestone.

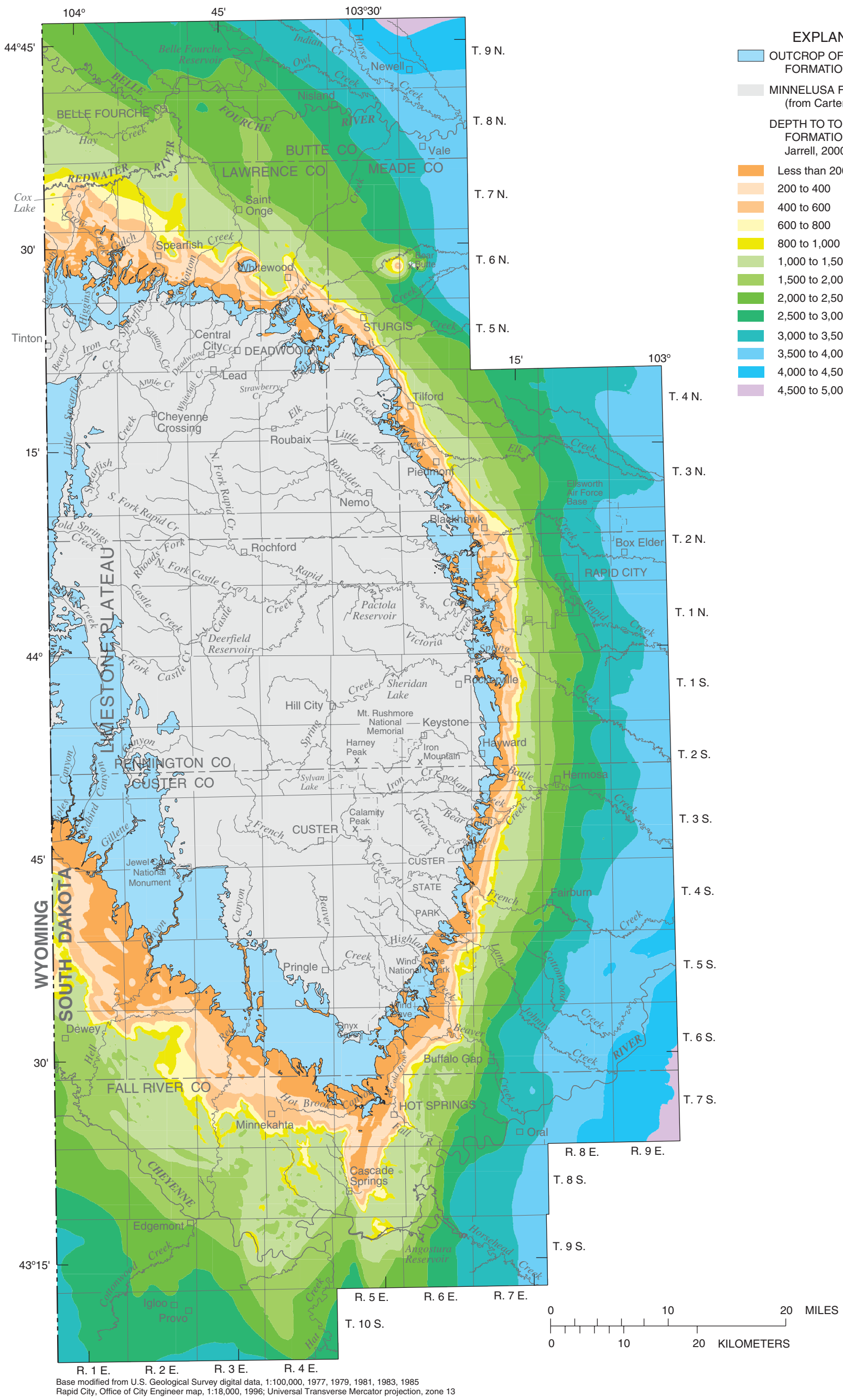
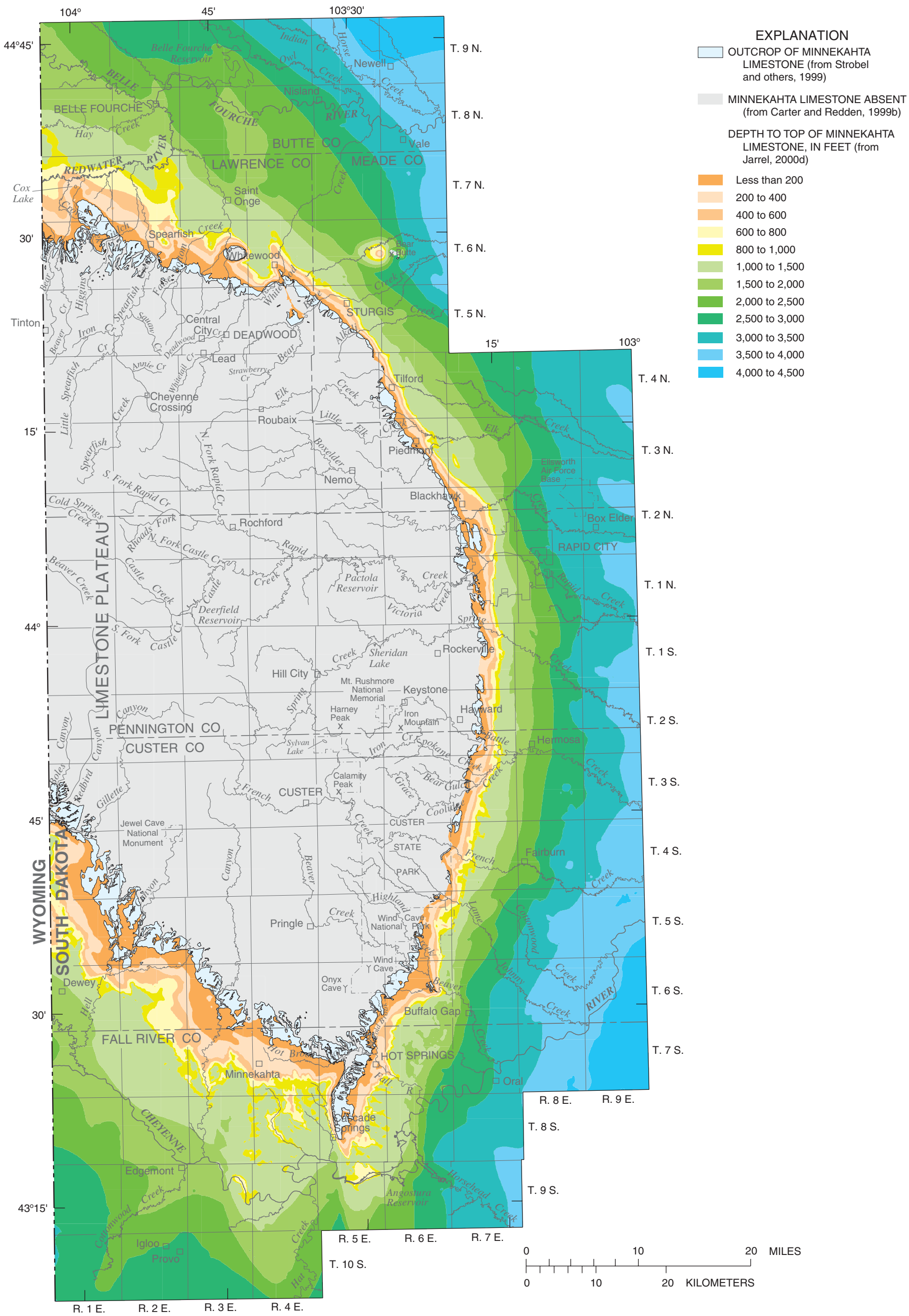
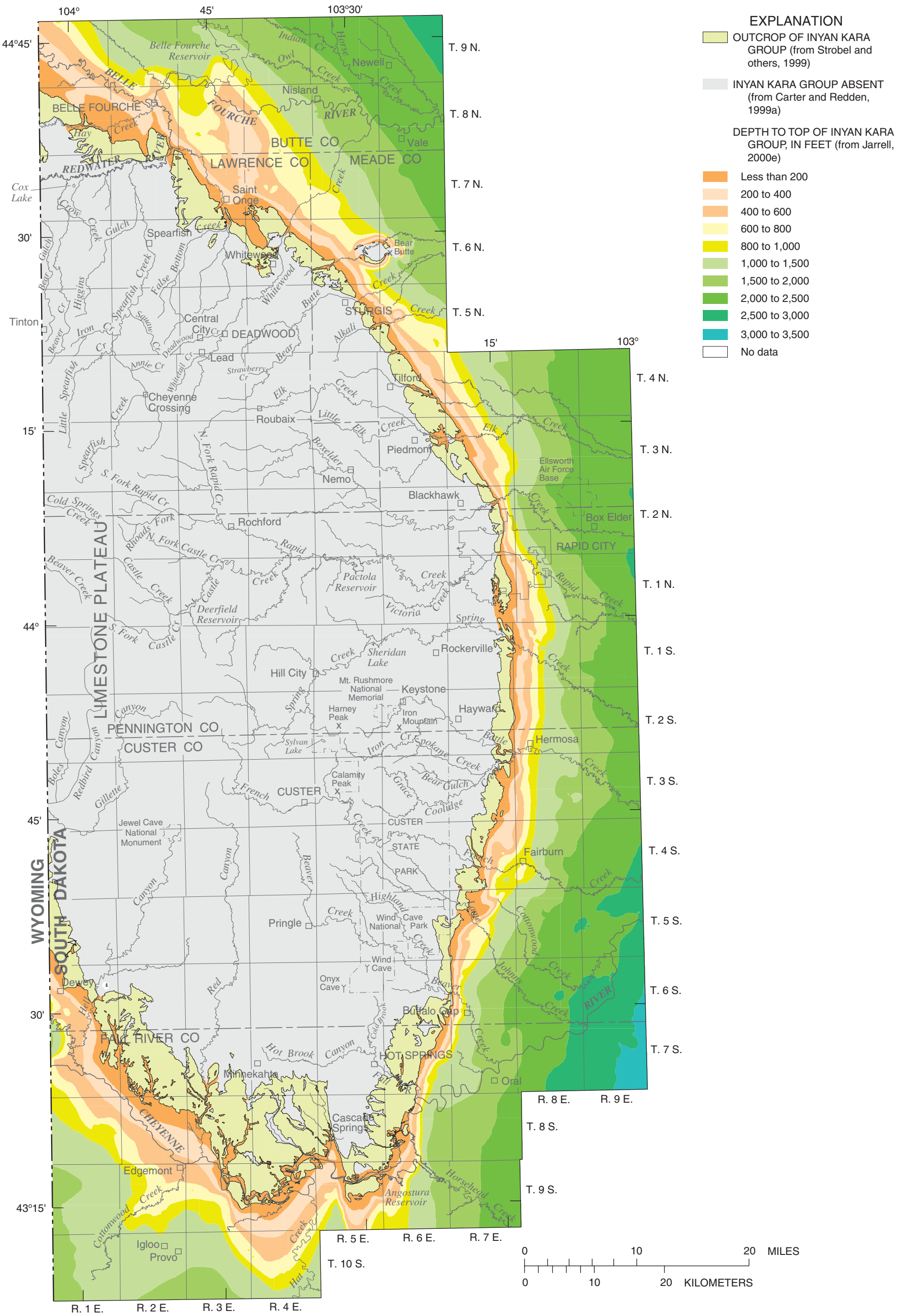


Figure 11. Depth to top of Minnelusa Formation.



Base modified from U.S. Geological Survey digital data, 1:100,000, 1977, 1979, 1981, 1983, 1985
Rapid City, Office of City Engineer map, 1:18,000, 1996; Universal Transverse Mercator projection, zone 13

Figure 12. Depth to top of Minnekahta Limestone.


EXPLANATION
OUTCROP OF INYAN KARA GROUP (from Strobel and others, 1999)
INYAN KARA GROUP ABSENT (from Carter and Redden, 1999a)
DEPTH TO TOP OF INYAN KARA GROUP, IN FEET (from Jarrell, 2000e)
Less than 200
200 to 400
400 to 600
600 to 800
800 to 1,000
1,000 to 1,500
1,500 to 2,000
2,000 to 2,500
2,500 to 3,000
3,000 to 3,500
No data
BELLE FOURCHE
BUTTE CO
LAWRENCE CO
MEADE CO
PENNINGTON CO
CUSTER CO
FALL RIVER CO
LIMESTONE PLATEAU
WYOMING
SOUTH DAKOTA
DEADWOOD
STURGIS
RAPID CITY
Spearfish
Whitewood
Lead
Central City
Tilford
Piedmont
Nemo
Blackhawk
Rochford
Rockerville
Hill City
Keystone
Hayward
Hermosa
Fairburn
Box Elder
Ellsworth Air Force Base
Newell
Nisland
Vale
Saint Onge
Bear Butte
Tinton
Cox Lake
Cheyenne Crossing
Roubaix
Jewel Cave National Monument
Pringle
Wind Cave National Park
Wind Cave
Onyx Cave
Buffalo Gap
HOT SPRINGS
Minnekahta
Oral
Cascade Springs
Edgemont
Igloo
Provo
Dewey
Belle Fourche Reservoir
Pactola Reservoir
Deerfield Reservoir
Sheridan Lake
Mt. Rushmore National Memorial
Harney Peak
Iron Mountain
Sylvan Lake
Calamity Peak
Angostura Reservoir
Cold Brook Canyon
Hot Brook Canyon
Fall R.
Red Canyon
Beaver Creek
Rapid Creek
Spring Creek
Victoria Creek
Cottonwood Creek
Horsehead Creek
Johnny Creek
Highland Creek
Little Elk Creek
Elk Creek
Bear Butte Creek
Whitewood Creek
Alkali Creek
Strawberry Cr
Annie Cr
Deadwood Cr
Squaw Cr
Iron Cr
Bear Gulch
Grace Coolidge
French Creek
Spokane Creek
Boxelder Creek
N. Fork Rapid Cr
S. Fork Rapid Cr
Cold Springs Creek
Rhoads Fork
N. Fork Castle Cr
S. Fork Castle Cr
Castle Creek
Beaver Creek
Hay Creek
Crow Creek
Gulch
False Bottom Creek
Higgins Gulch
Bear Cr
Beaver Cr
Little Spearfish Creek
Boles Canyon
Redbird Canyon
Gillette Canyon
Canyon
Highland Creek
Lake Creek
Cottonwood Creek
Johnny Creek
Horsehead Creek
Hat Creek
Red Canyon
Cold Brook Canyon
Hot Brook Canyon
Fall R.
Angostura Reservoir
Sheridan Lake
Pactola Reservoir
Deerfield Reservoir
Belle Fourche Reservoir
Indian Cr
Owl Creek
Horse Creek
Bear Butte Creek
Whitewood Creek
Alkali Creek
Spearfish Creek
Little Spearfish Creek
Bear Cr
Iron Cr
Squaw Cr
Deadwood Cr
Annie Cr
Strawberry Cr
Elk Creek
Little Elk

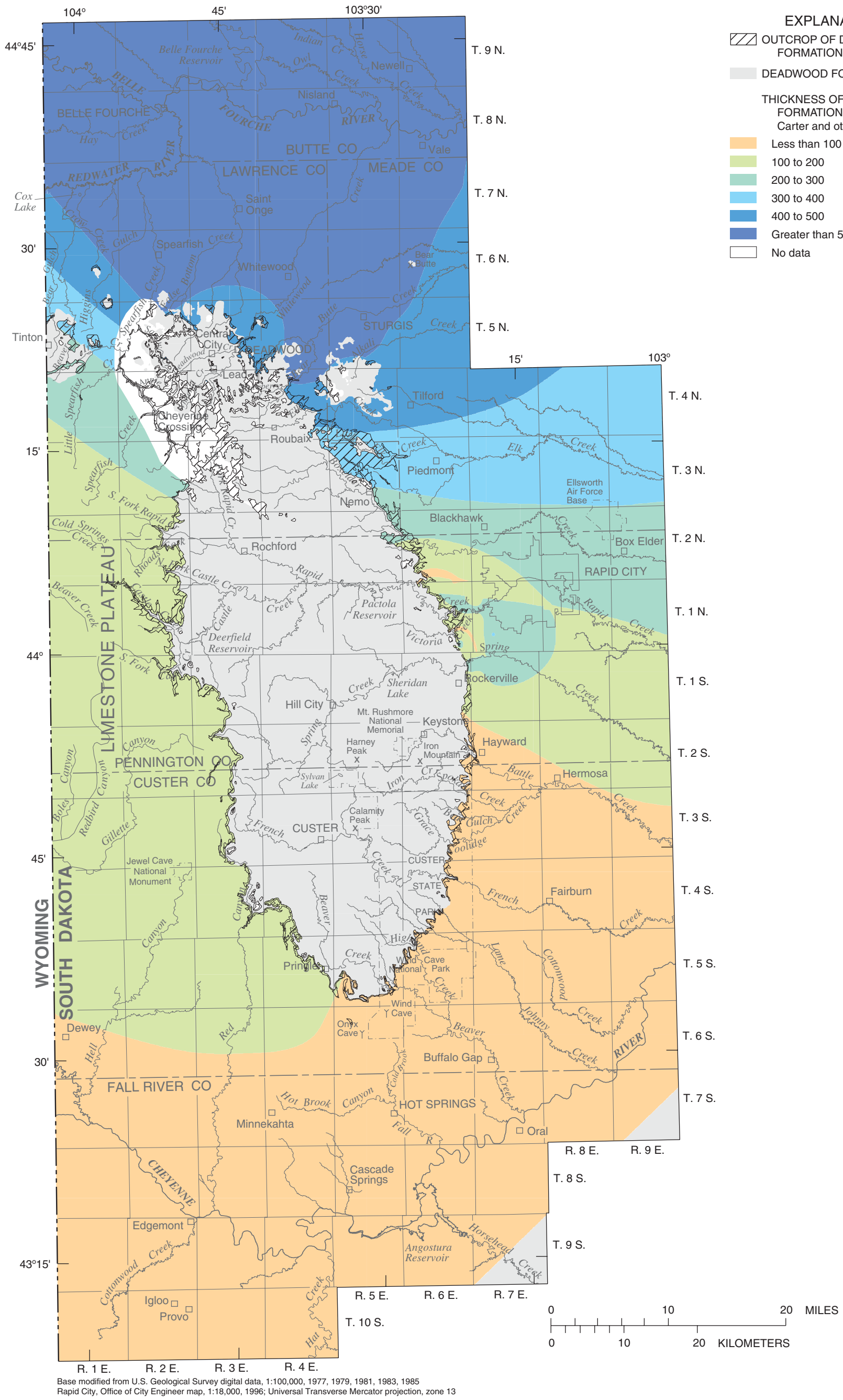
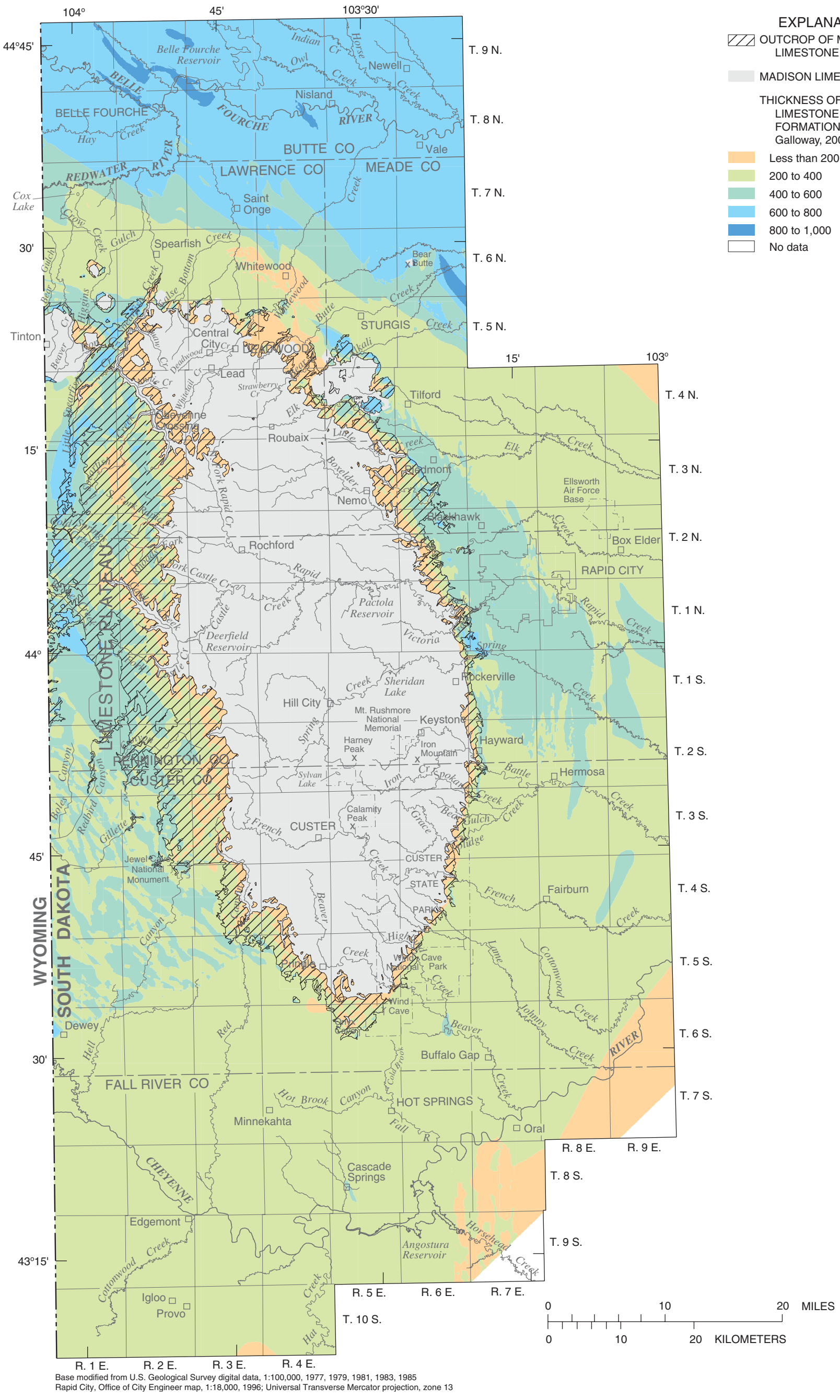


Figure 14. Generalized thickness of the Deadwood Formation.



Base modified from U.S. Geological Survey digital data, 1:100,000, 1977, 1979, 1981, 1983, 1985
Rapid City, Office of City Engineer map, 1:18,000, 1996; Universal Transverse Mercator projection, zone 13

Figure 15. Generalized thickness of the Madison Limestone and Englewood Formation.