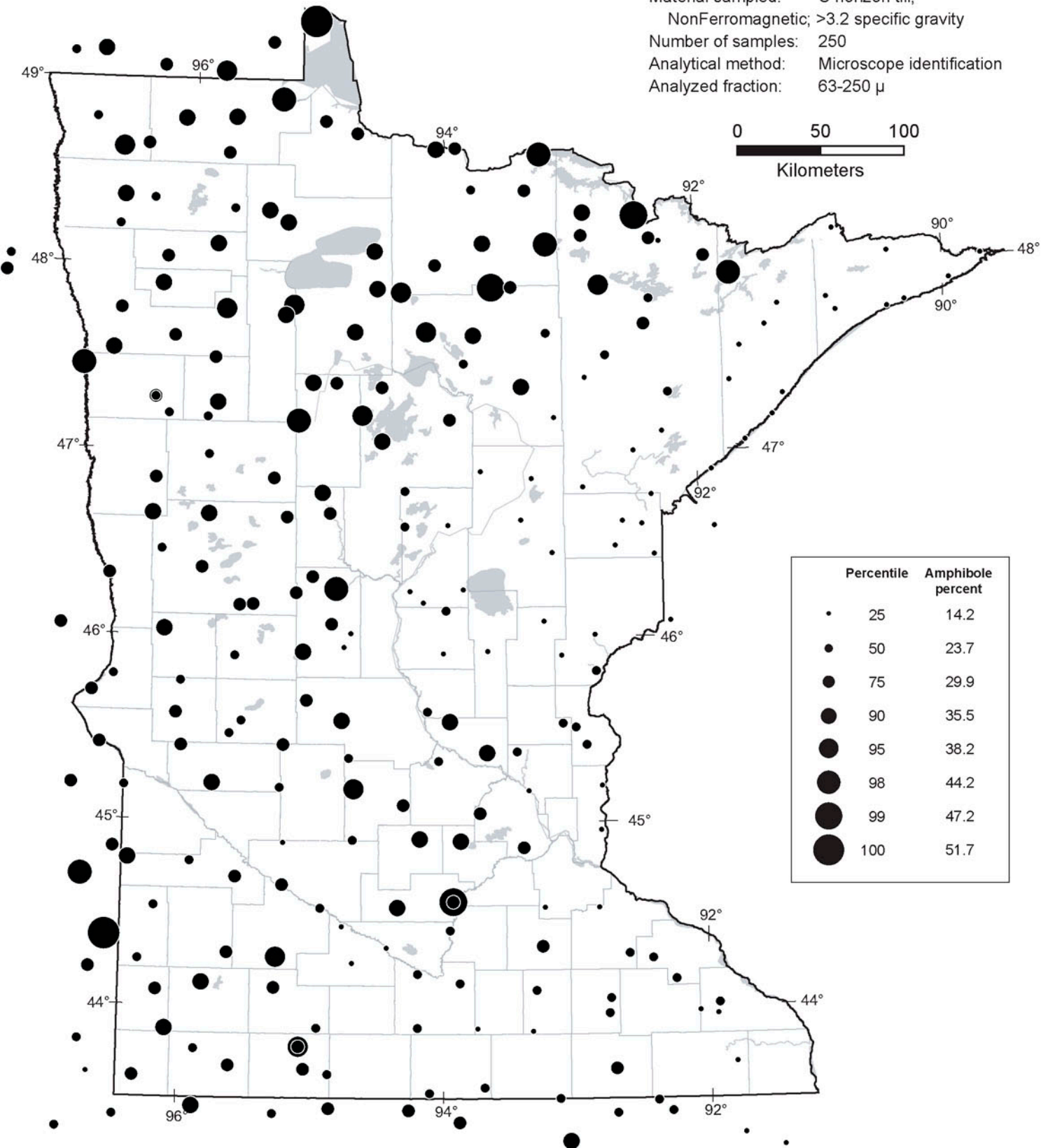


Appendix; Heavy mineral counts - grouped; maps

Soil Geochemical and Indicator Mineral Reconnaissance Survey of Till in Minnesota

Amphibole

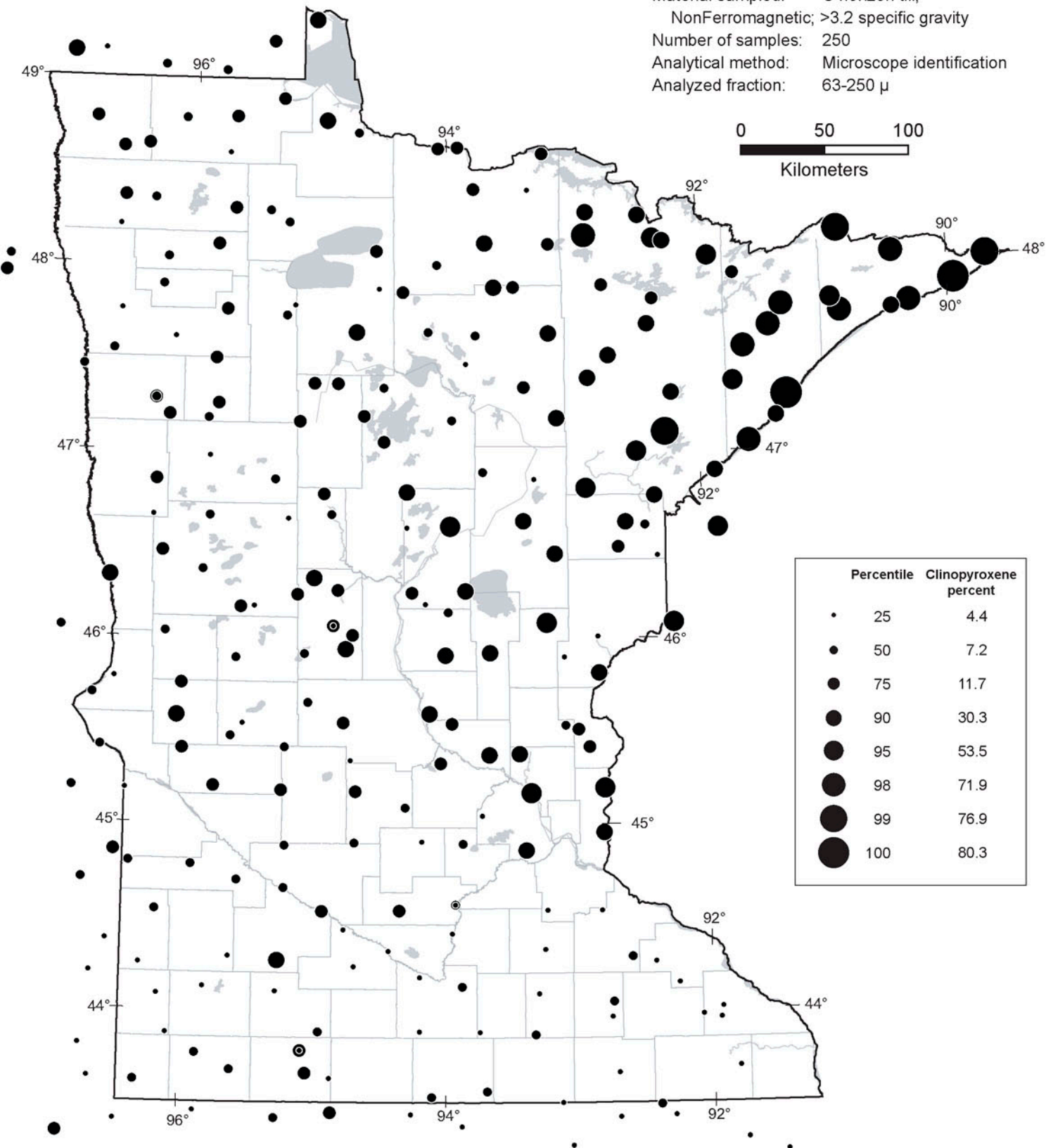
Year of collection: 2004
Material sampled: C horizon till;
NonFerromagnetic; >3.2 specific gravity
Number of samples: 250
Analytical method: Microscope identification
Analyzed fraction: 63-250 μ



Soil Geochemical and Indicator Mineral Reconnaissance Survey of Till in Minnesota

Clinopyroxene

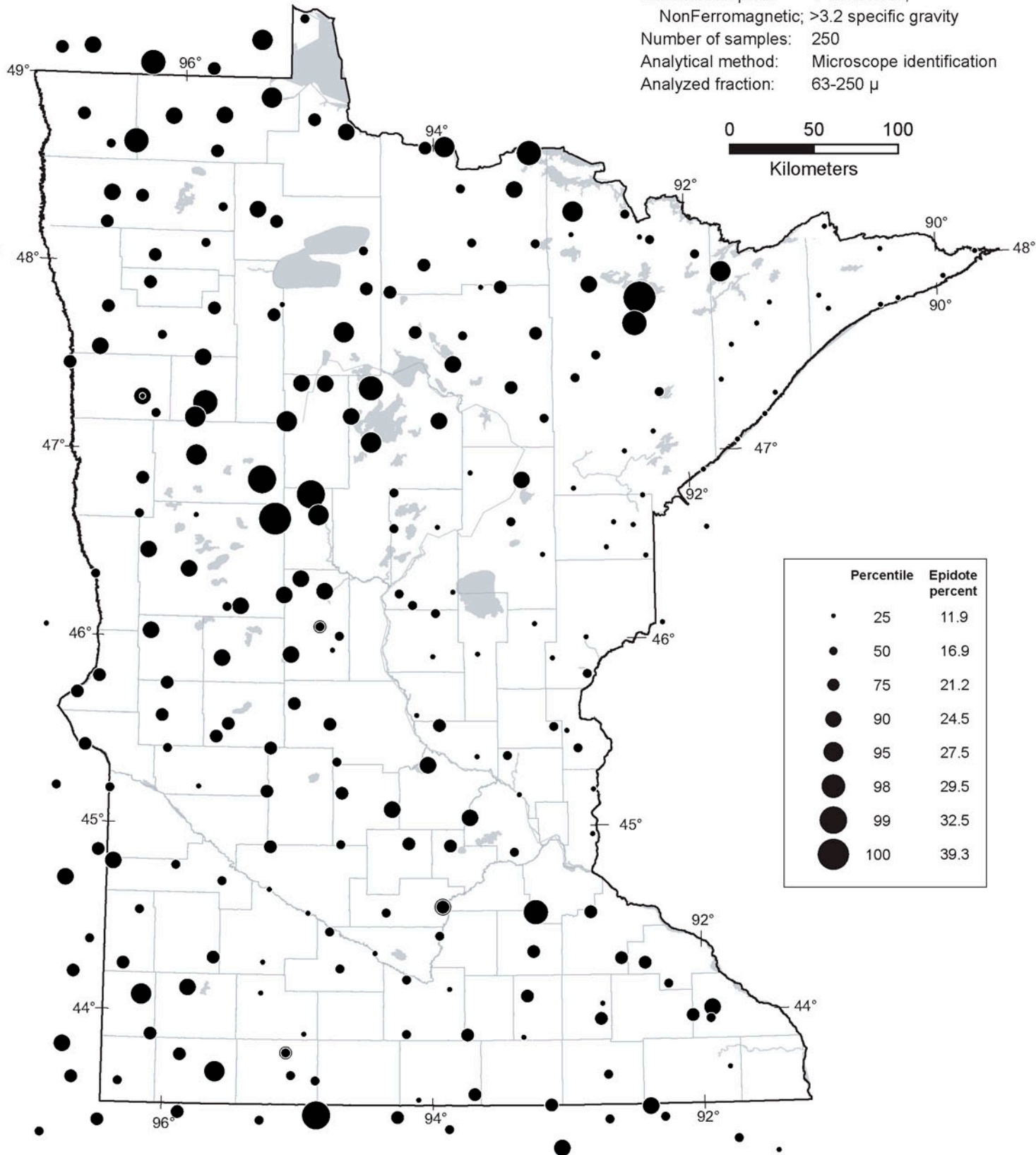
Year of collection: 2004
Material sampled: C horizon till;
NonFerromagnetic; >3.2 specific gravity
Number of samples: 250
Analytical method: Microscope identification
Analyzed fraction: 63-250 μ



Soil Geochemical and Indicator Mineral Reconnaissance Survey of Till in Minnesota

Epidote

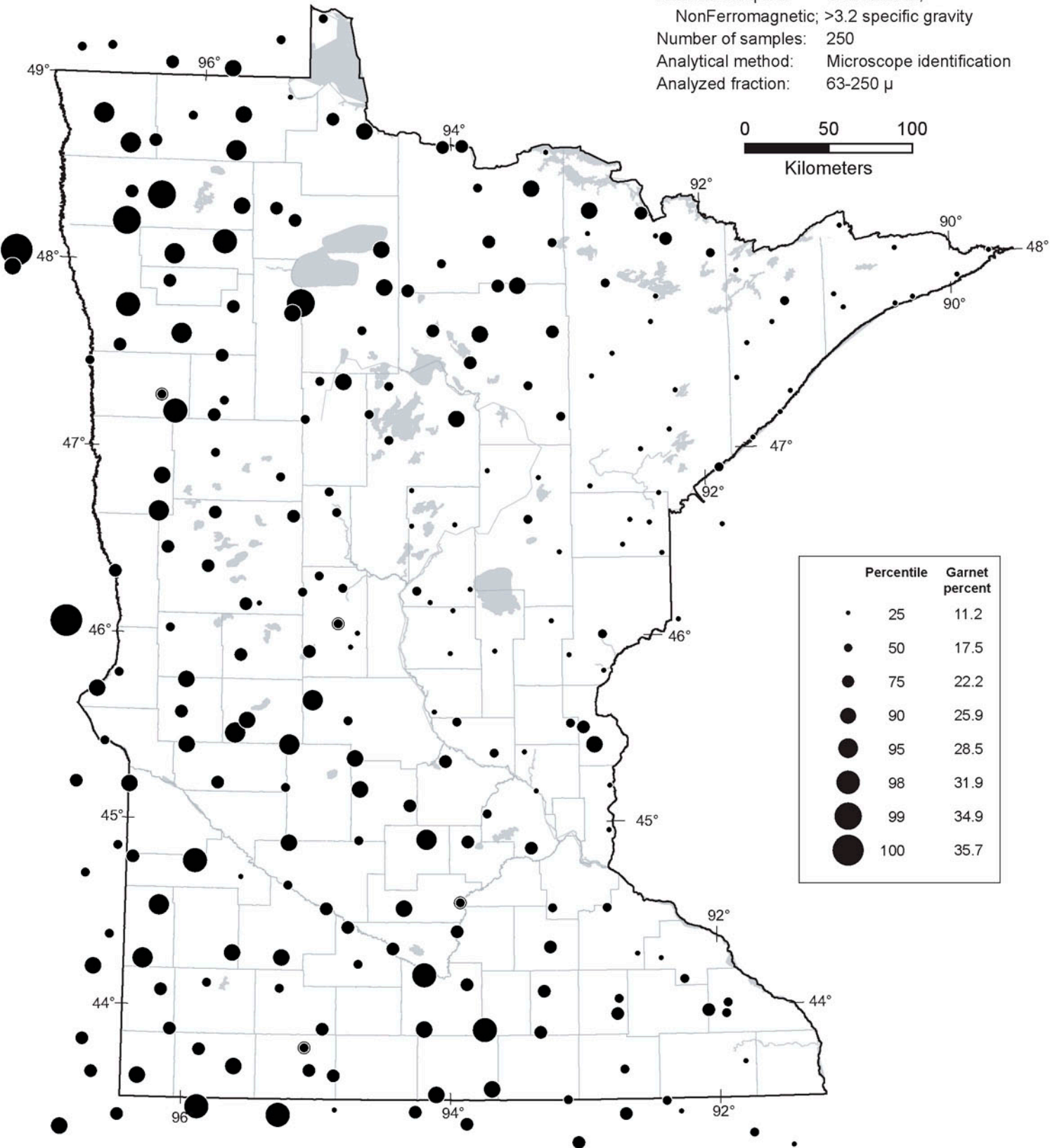
Year of collection: 2004
Material sampled: C horizon till;
NonFerromagnetic; >3.2 specific gravity
Number of samples: 250
Analytical method: Microscope identification
Analyzed fraction: 63-250 μ



Soil Geochemical and Indicator Mineral Reconnaissance Survey of Till in Minnesota

Garnet

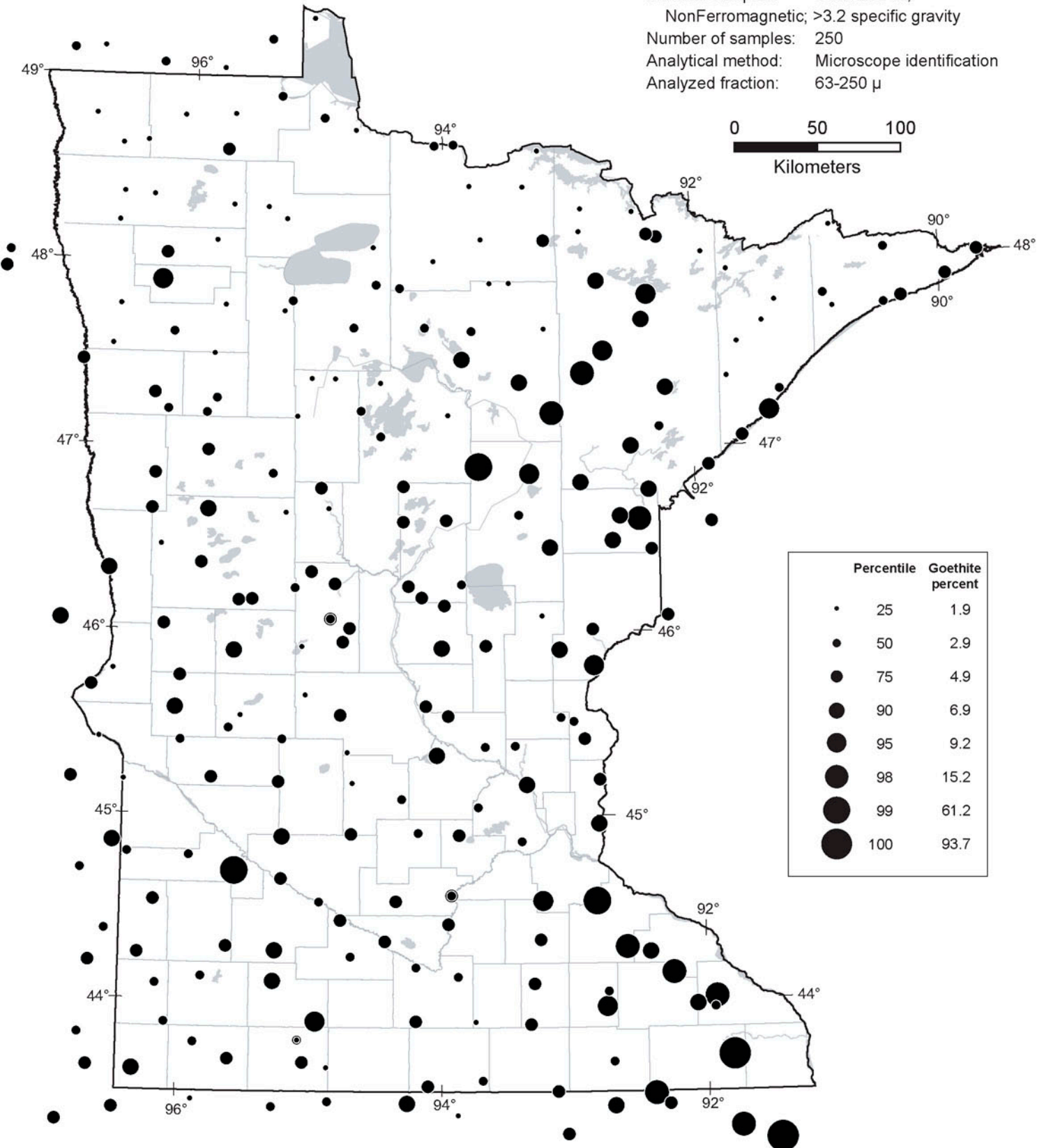
Year of collection: 2004
Material sampled: C horizon till;
NonFerromagnetic; >3.2 specific gravity
Number of samples: 250
Analytical method: Microscope identification
Analyzed fraction: 63-250 μ



Soil Geochemical and Indicator Mineral Reconnaissance Survey of Till in Minnesota

Goethite

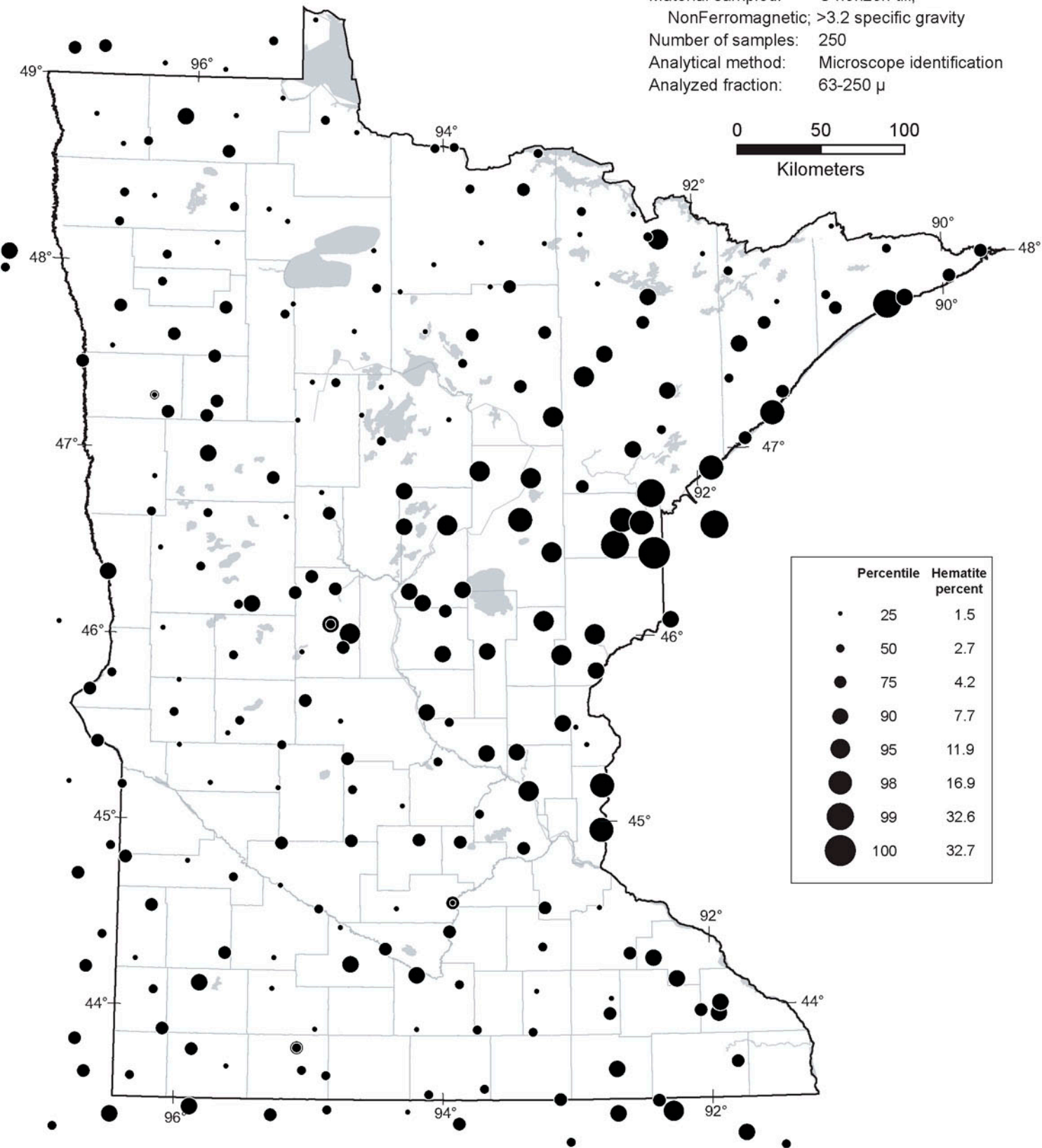
Year of collection: 2004
Material sampled: C horizon till;
NonFerromagnetic; >3.2 specific gravity
Number of samples: 250
Analytical method: Microscope identification
Analyzed fraction: 63-250 μ



Soil Geochemical and Indicator Mineral Reconnaissance Survey of Till in Minnesota

Hematite

Year of collection: 2004
Material sampled: C horizon till;
NonFerromagnetic; >3.2 specific gravity
Number of samples: 250
Analytical method: Microscope identification
Analyzed fraction: 63-250 μ



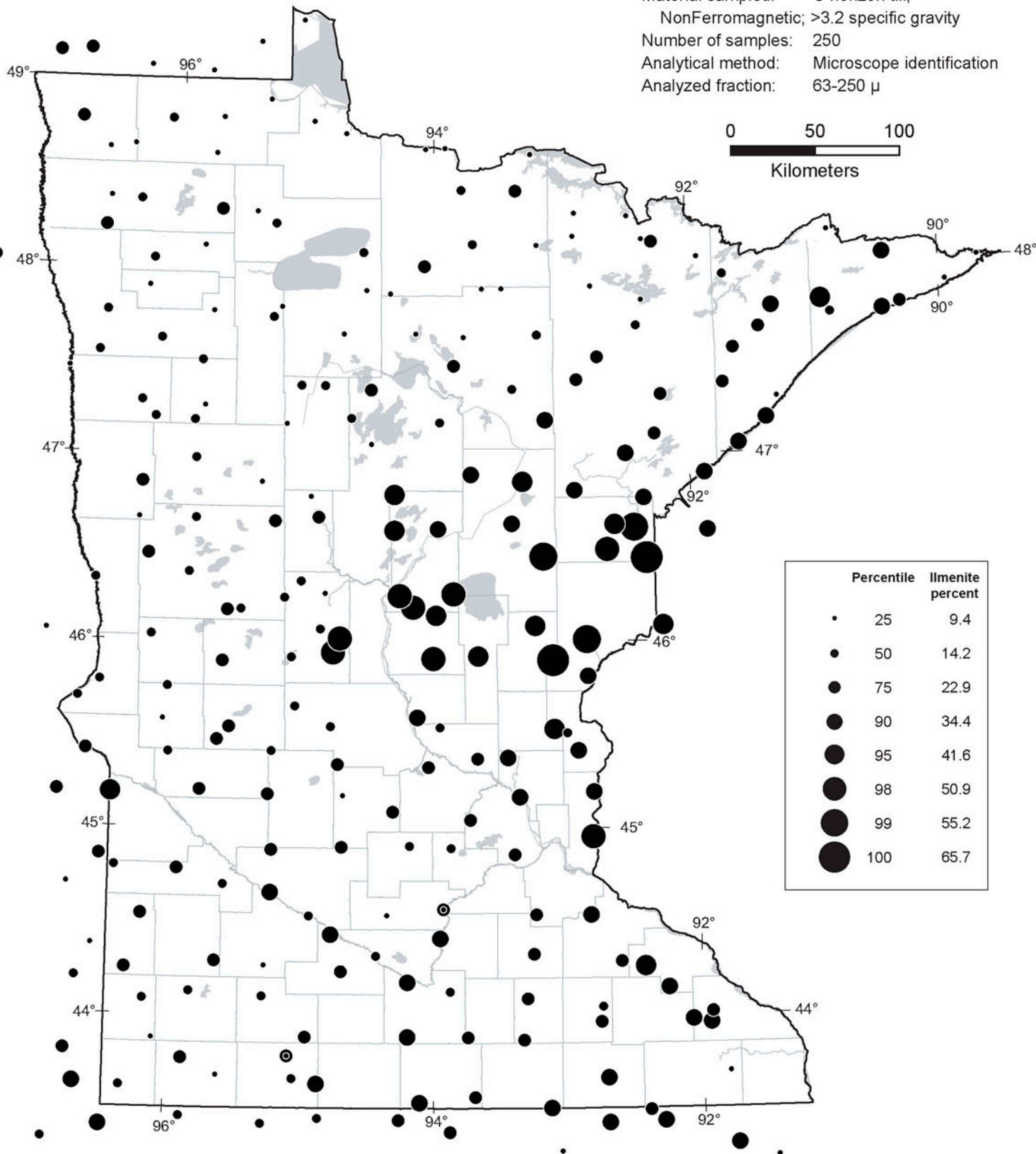
Percentile	Hematite percent
•	25 1.5
•	50 2.7
•	75 4.2
•	90 7.7
•	95 11.9
•	98 16.9
•	99 32.6
•	100 32.7



Soil Geochemical and Indicator Mineral Reconnaissance Survey of Till in Minnesota

Ilmenite

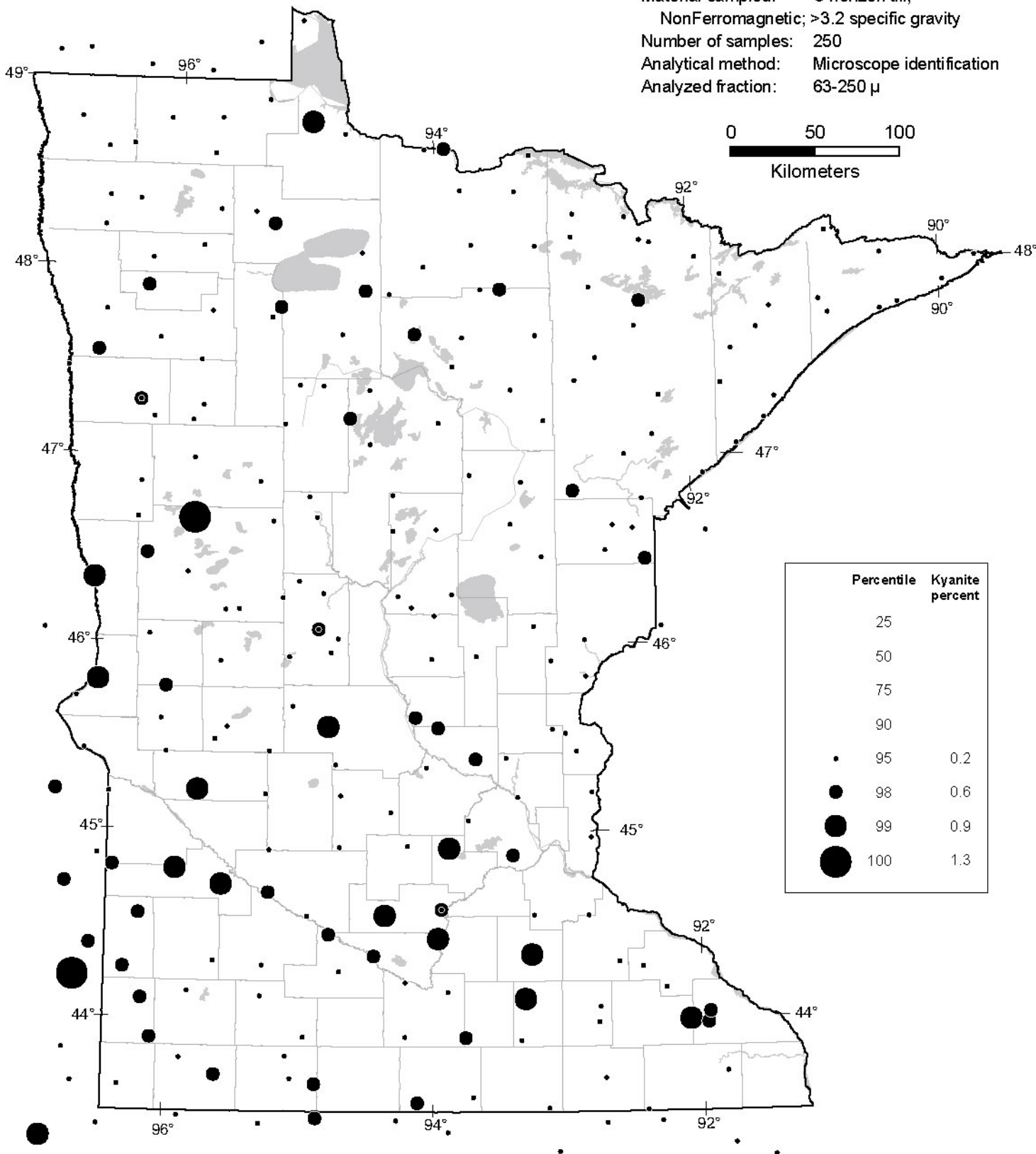
Year of collection: 2004
Material sampled: C horizon till;
NonFerromagnetic; >3.2 specific gravity
Number of samples: 250
Analytical method: Microscope identification
Analyzed fraction: 63-250 μ



Soil Geochemical and Indicator Mineral Reconnaissance Survey of Till in Minnesota

Kyanite

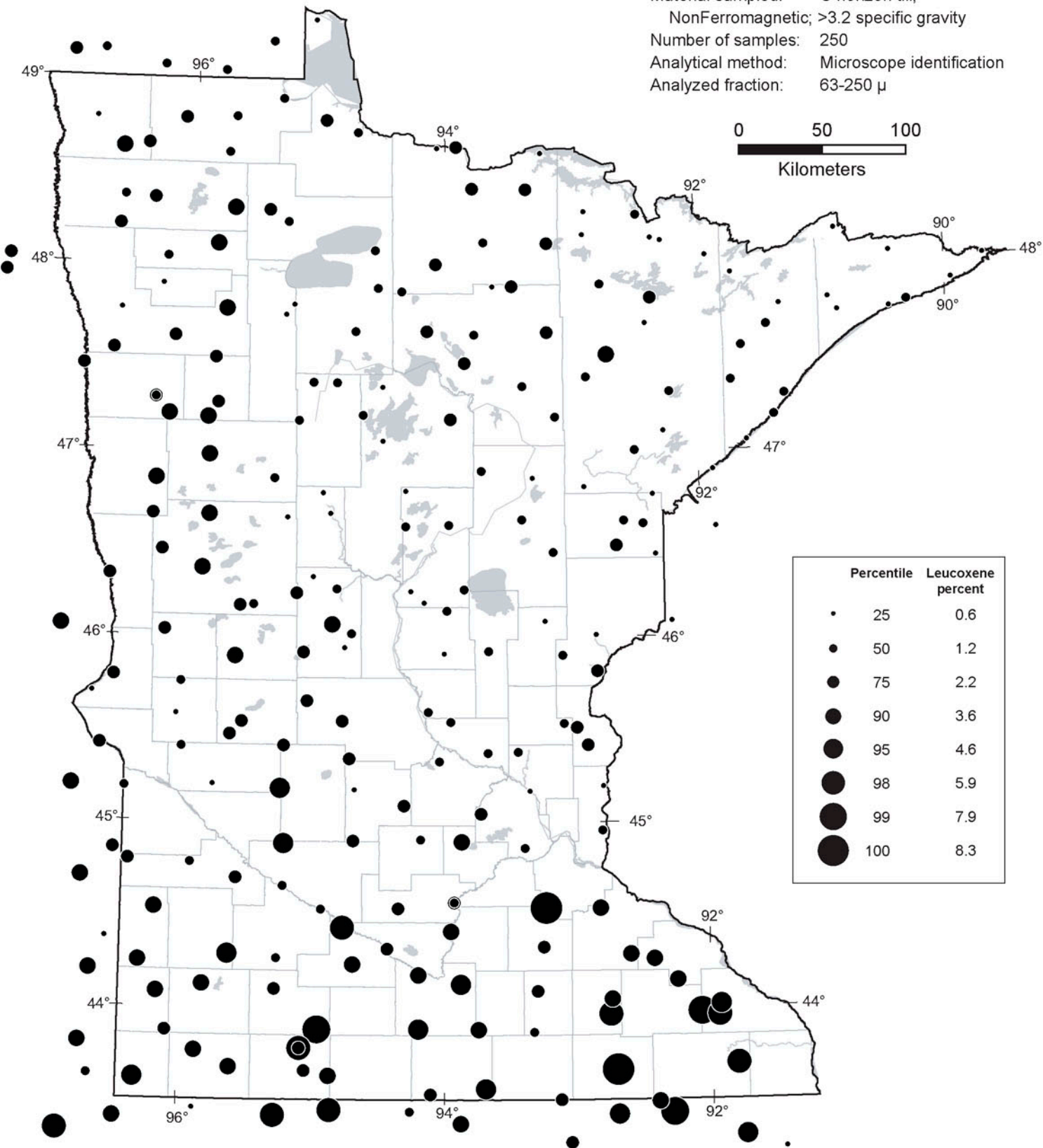
Year of collection: 2004
Material sampled: C horizon till;
NonFerromagnetic; >3.2 specific gravity
Number of samples: 250
Analytical method: Microscope identification
Analyzed fraction: 63-250 μ



Soil Geochemical and Indicator Mineral Reconnaissance Survey of Till in Minnesota

Leucoxene

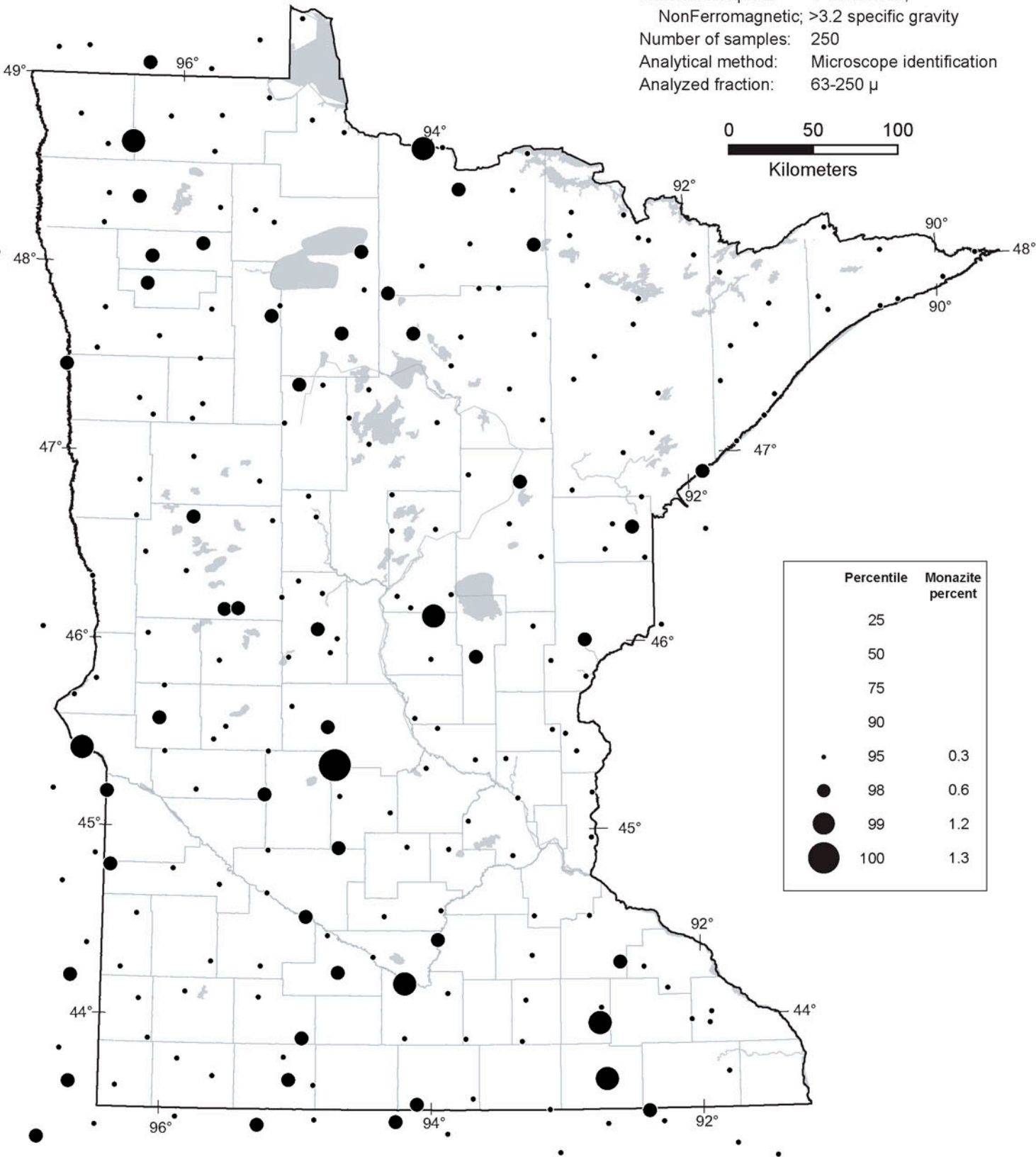
Year of collection: 2004
Material sampled: C horizon till;
NonFerromagnetic; >3.2 specific gravity
Number of samples: 250
Analytical method: Microscope identification
Analyzed fraction: 63-250 μ



Soil Geochemical and Indicator Mineral Reconnaissance Survey of Till in Minnesota

Monazite

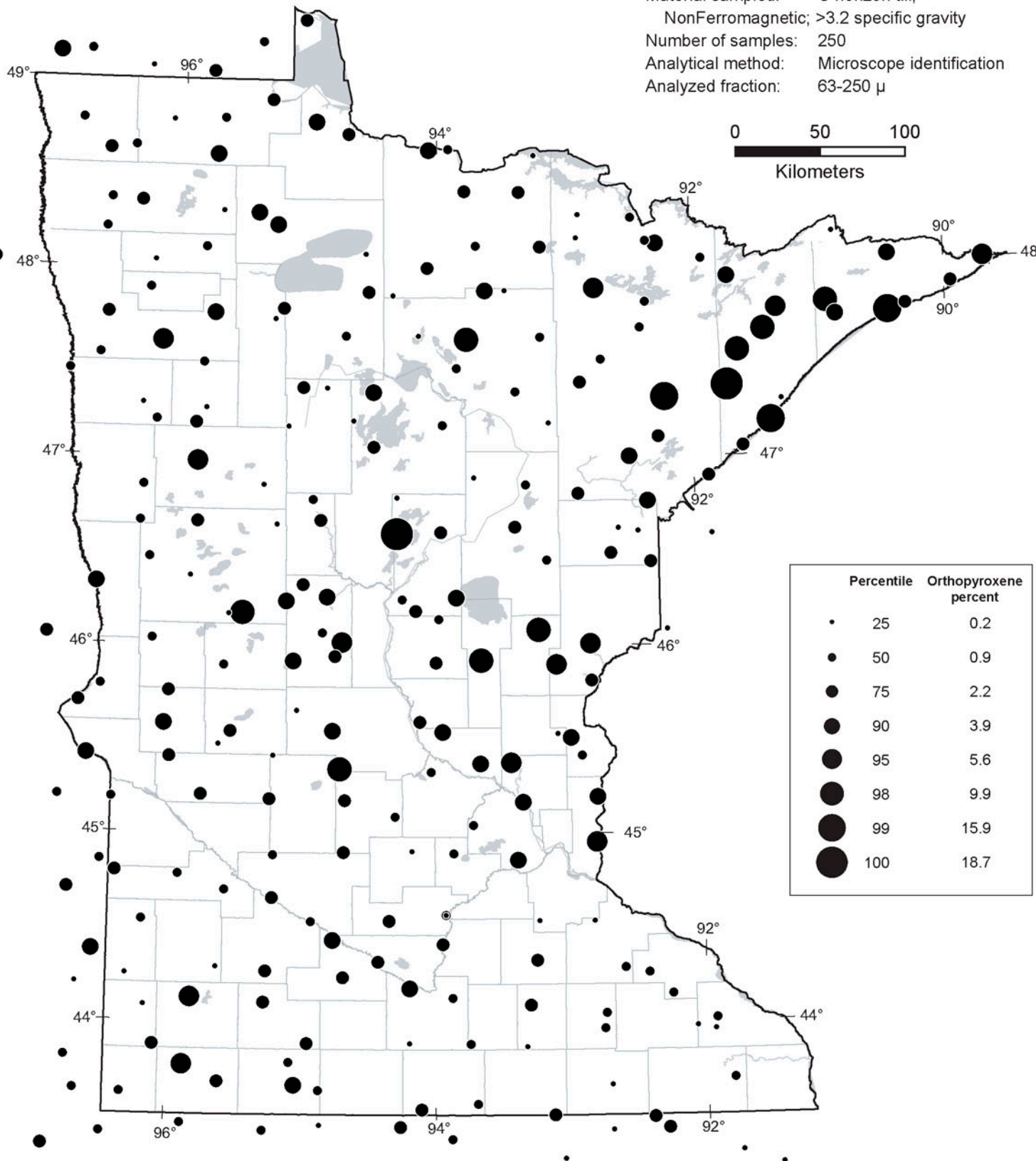
Year of collection: 2004
Material sampled: C horizon till;
NonFerromagnetic; >3.2 specific gravity
Number of samples: 250
Analytical method: Microscope identification
Analyzed fraction: 63-250 μ



Soil Geochemical and Indicator Mineral Reconnaissance Survey of Till in Minnesota

Orthopyroxene

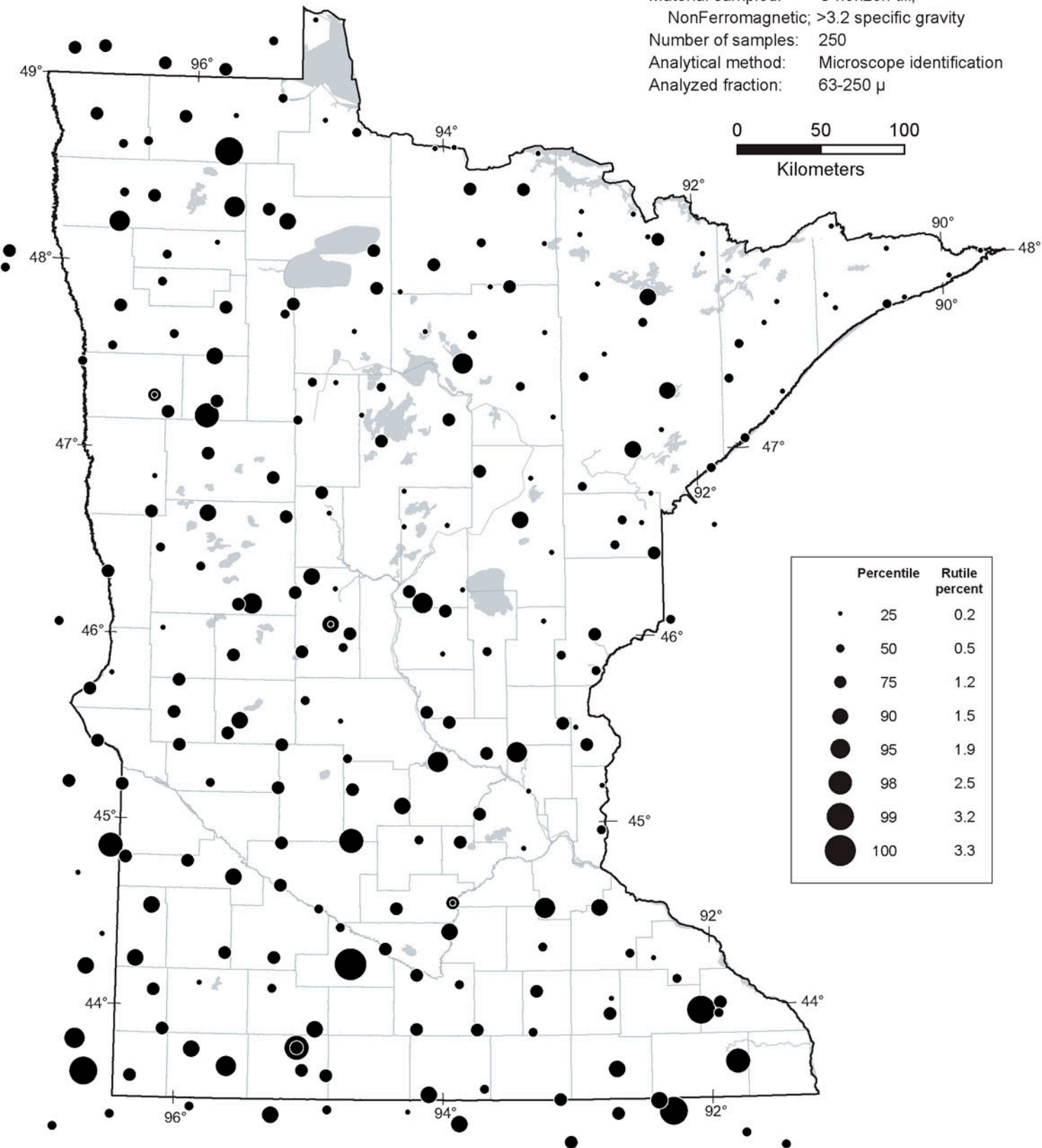
Year of collection: 2004
Material sampled: C horizon till;
NonFerromagnetic; >3.2 specific gravity
Number of samples: 250
Analytical method: Microscope identification
Analyzed fraction: 63-250 μ



Soil Geochemical and Indicator Mineral Reconnaissance Survey of Till in Minnesota

Rutile

Year of collection: 2004
Material sampled: C horizon till;
NonFerromagnetic; >3.2 specific gravity
Number of samples: 250
Analytical method: Microscope identification
Analyzed fraction: 63-250 μ



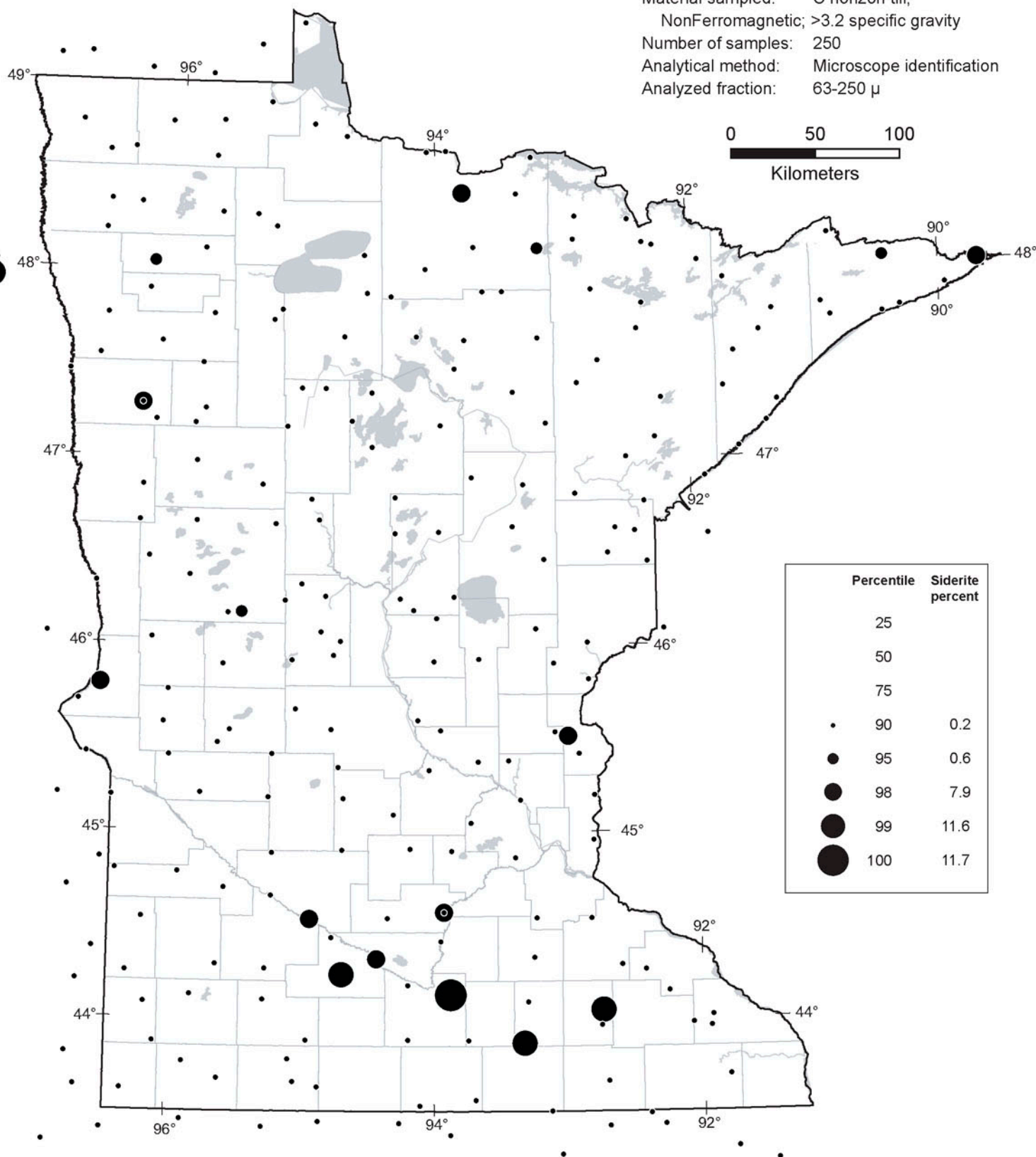
Percentile	Rutile percent	
•	25	0.2
•	50	0.5
•	75	1.2
•	90	1.5
•	95	1.9
•	98	2.5
•	99	3.2
•	100	3.3



Soil Geochemical and Indicator Mineral Reconnaissance Survey of Till in Minnesota

Siderite

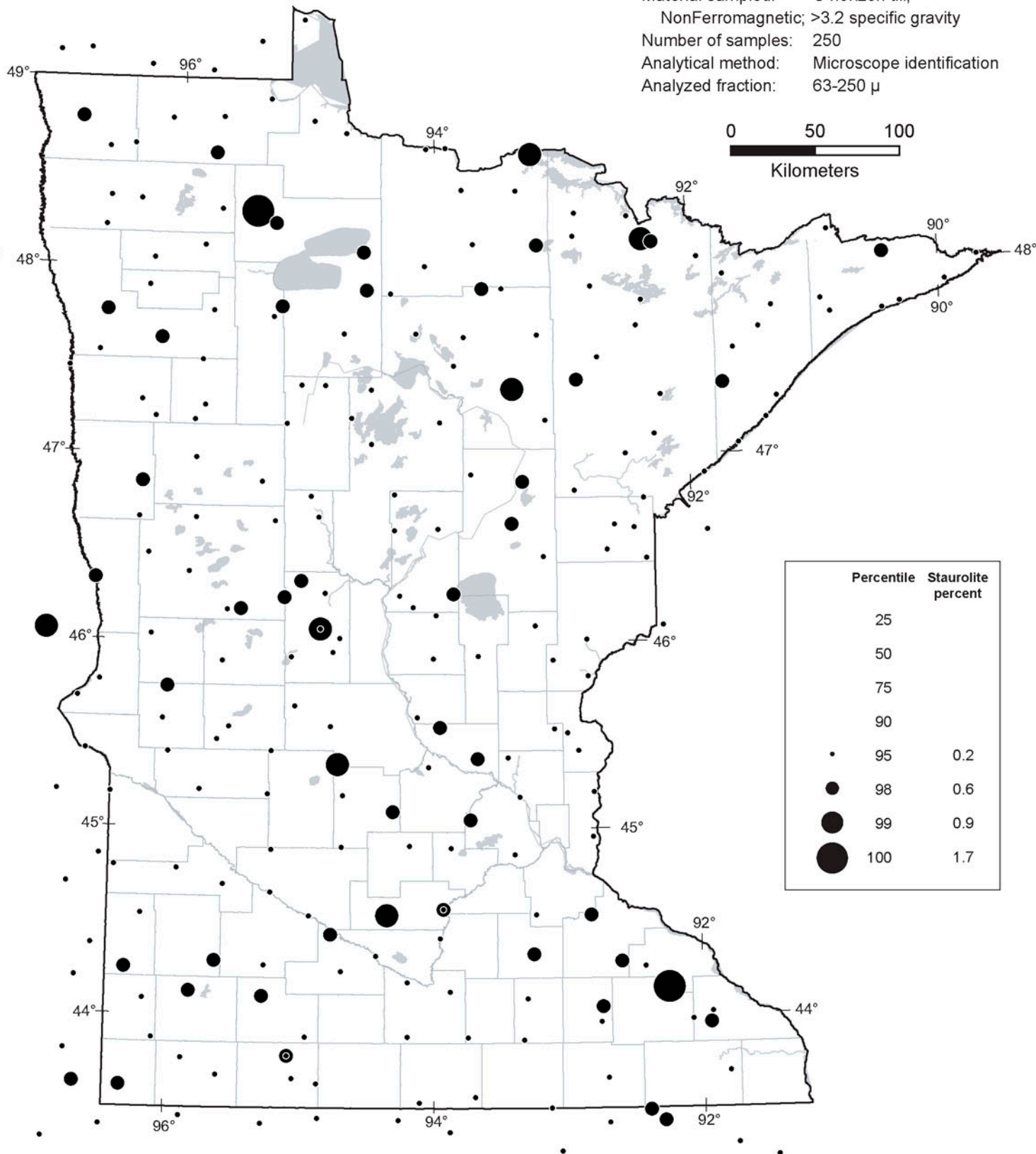
Year of collection: 2004
Material sampled: C horizon till;
NonFerromagnetic; >3.2 specific gravity
Number of samples: 250
Analytical method: Microscope identification
Analyzed fraction: 63-250 μ



Soil Geochemical and Indicator Mineral Reconnaissance Survey of Till in Minnesota

Staurolite

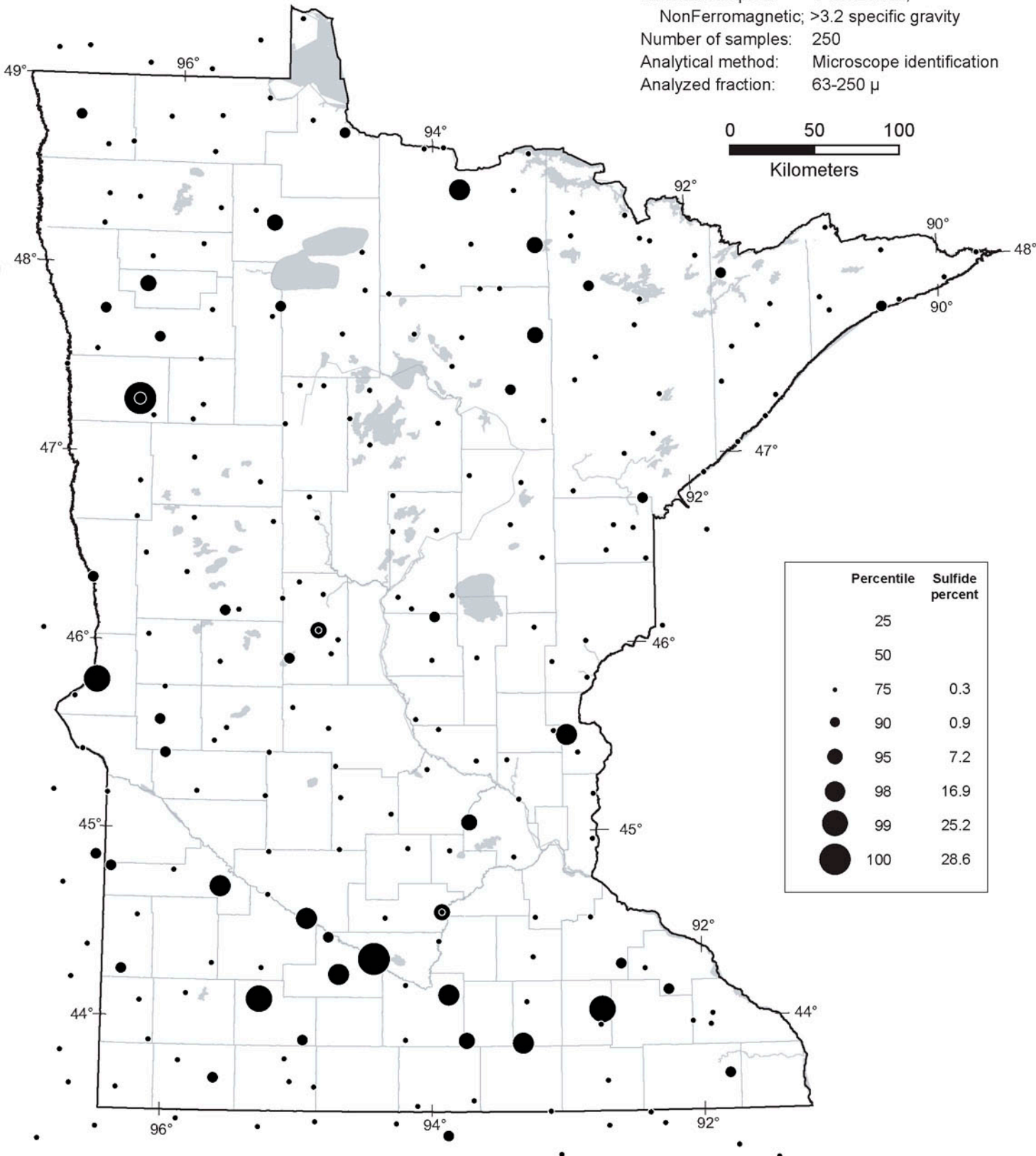
Year of collection: 2004
Material sampled: C horizon till;
NonFerromagnetic; >3.2 specific gravity
Number of samples: 250
Analytical method: Microscope identification
Analyzed fraction: 63-250 μ



Soil Geochemical and Indicator Mineral Reconnaissance Survey of Till in Minnesota

Sulfide

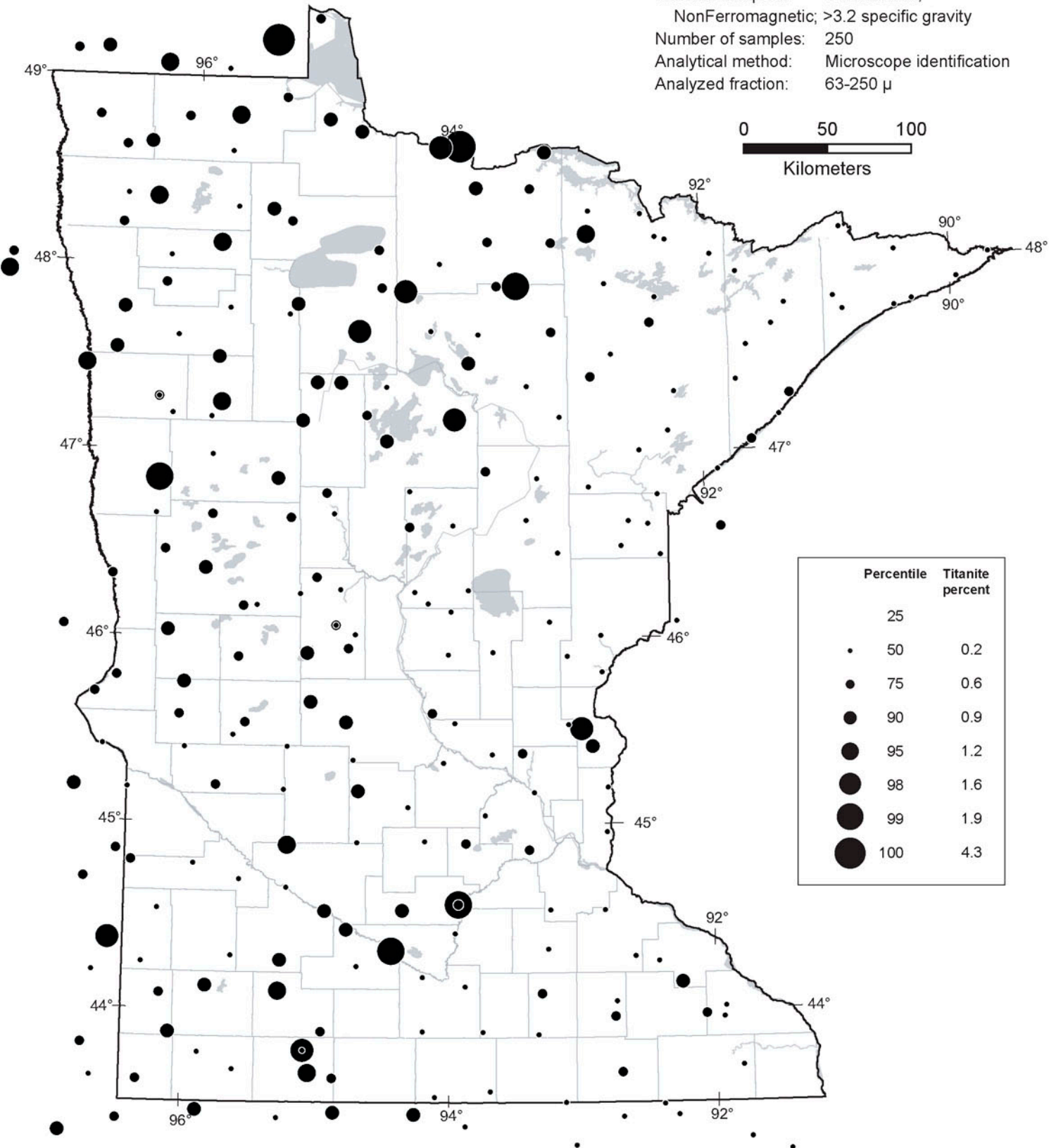
Year of collection: 2004
Material sampled: C horizon till;
NonFerromagnetic; >3.2 specific gravity
Number of samples: 250
Analytical method: Microscope identification
Analyzed fraction: 63-250 μ



Soil Geochemical and Indicator Mineral Reconnaissance Survey of Till in Minnesota

Titanite

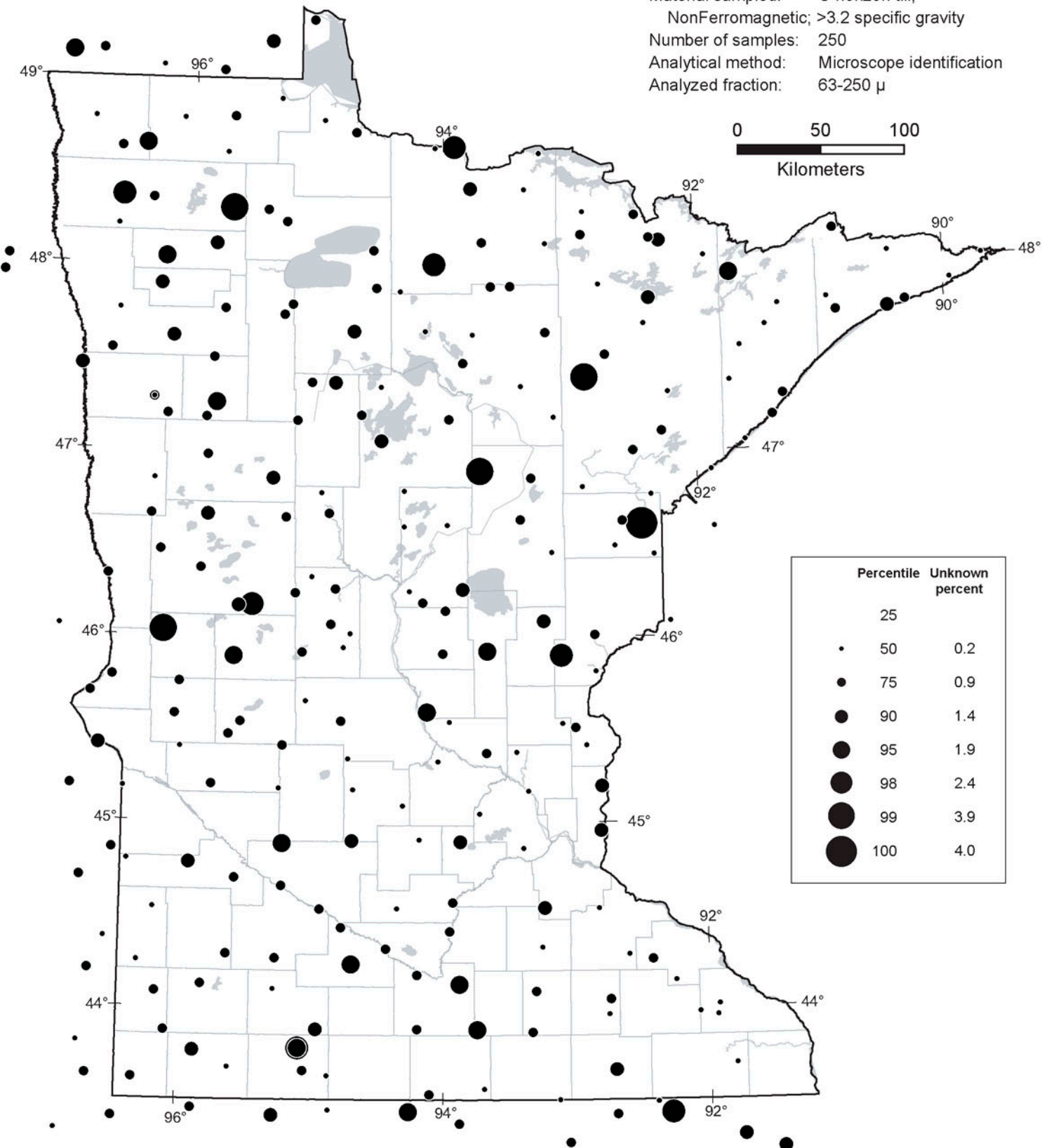
Year of collection: 2004
Material sampled: C horizon till;
NonFerromagnetic; >3.2 specific gravity
Number of samples: 250
Analytical method: Microscope identification
Analyzed fraction: 63-250 μ



Soil Geochemical and Indicator Mineral Reconnaissance Survey of Till in Minnesota

Unknown

Year of collection: 2004
Material sampled: C horizon till;
NonFerromagnetic; >3.2 specific gravity
Number of samples: 250
Analytical method: Microscope identification
Analyzed fraction: 63-250 μ



Soil Geochemical and Indicator Mineral Reconnaissance Survey of Till in Minnesota

Zircon

Year of collection: 2004
Material sampled: C horizon till;
NonFerromagnetic; >3.2 specific gravity
Number of samples: 250
Analytical method: Microscope identification
Analyzed fraction: 63-250 μ

